



## AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5698 (03-2000)

Received

MAR 7 2016

Well File No.  
**11745**

NDIC CTB No.

**111745**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

ND Oil &amp; Gas Division

Well Name and Number <b>Basic Game &amp; Fish 34-3H</b>	Qtr-Qtr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKenzie</b>
Operator <b>RIM Operating, Inc</b>	Telephone Number <b>303-799-9828</b>				
Address <b>5 Inverness Drive East</b>	City <b>Englewood</b>		State <b>CO</b>	Zip Code <b>80112</b>	

Name of First Purchaser <b>Mercuria Energy Trading, Inc.</b>	Telephone Number <b>832-209-2400</b>	% Purchased <b>100</b>	Date Effective <b>March 1, 2016</b>
Principal Place of Business <b>20 Greenway Plaza, Suite 650</b>	City <b>Houston</b>	State <b>TX</b>	Zip Code <b>77046</b>
Field Address	City	State	Zip Code
Name of Transporter <b>Rocky Mountain Crude Oil LLC</b>	Telephone Number <b>877-651-9351</b>	% Transported <b>100</b>	Date Effective <b>March 1, 2016</b>
Address <b>490 North 31st Street #2010</b>	City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59101</b>

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments		

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date <b>March 3, 2016</b>
Signature 	Printed Name <b>Liz Ortiz</b>	Title <b>Engineering Technician</b>

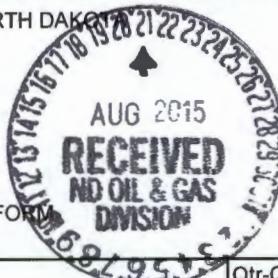
Above Signature Witnessed By	
Witness Signature 	Witness Printed Name <b>Ken Kundrik</b>
	Witness Title <b>A&amp;D Manager</b>

FOR STATE USE ONLY	
Date Approved <b>MAR 17 2016</b>	
By 	
Title <b>Oil &amp; Gas Production Analyst</b>	



# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5698 (03-2000)



Well File No.	<b>11745</b>
NDIC CTB No.	<b>111745</b>

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM  
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Well Name and Number <b>Basic Game &amp; Fish 34-3H</b>	Qtr-Qtr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKenzie</b>
Operator <b>RIM Operating, Inc</b>	Telephone Number <b>303-799-9828</b>		Field <b>Baker</b>		
Address <b>5 Inverness Drive East</b>	City <b>Englewood</b>		State <b>CO</b>	Zip Code <b>80112</b>	

Name of First Purchaser <b>PetroChina International America, Inc.</b>	Telephone Number <b>832-325-5317</b>	% Purchased <b>100</b>	Date Effective <b>September 1, 2015</b>
Principal Place of Business <b>2000 W Sam Houston Parkway South</b>	City <b>Houston</b>	State <b>TX</b>	Zip Code <b>77042</b>
Field Address	City	State	Zip Code
Name of Transporter <b>Badlands Tank Lines, LLC</b>	Telephone Number <b>402-281-0646</b>	% Transported <b>100</b>	Date Effective <b>September 1, 2015</b>
Address <b>2211 South 156th Circle #2B</b>	City <b>Omaha</b>	State <b>NE</b>	Zip Code <b>68116</b>
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments		

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Date <b>August 18, 2015</b>
Signature 	Printed Name <b>Liz Ortiz</b>
Title <b>Engineering Technician</b>	

Above Signature Witnessed By	Witness Signature 	Witness Printed Name <b>Ken Kundrik</b>	Witness Title <b>A&amp;D Manager</b>
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FOR STATE USE ONLY	
Date Approved <b>AUG 24 2015</b>	
By	
Title <b>Oil &amp; Gas Production Analyst</b>	



# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5698 (03-2000)



Well File No.	11745
NDIC CTB No.	111745

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW</b>	Sector <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>MCKENZIE</b>
Operator <b>RIM OPERATING, INC.</b>	Telephone Number <b>303-799-9828</b>		Field <b>BAKER</b>		
Address <b>5 INVERNESS DRIVE EAST</b>	City <b>ENGLEWOOD</b>		State <b>CO</b>	Zip Code <b>80112</b>	

Name of First Purchaser <b>PLAINS MARKETING, L.P.</b>	Telephone Number <b>713-646-4100</b>	% Purchased <b>100</b>	Date Effective <b>May 16, 2013</b>
Principal Place of Business <b>PO BOX4648</b>	City <b>HOUSTON</b>	State <b>TX</b>	Zip Code <b>77210</b>
Field Address <b>303 6TH AVE NE</b>	City <b>BELFIELD</b>	State <b>ND</b>	Zip Code <b>58622</b>
Name of Transporter <b>PLAINS MARKETING, L.P.</b>	Telephone Number <b>701-575-4349</b>	% Transported <b>100</b>	Date Effective <b>May 16, 2013</b>
Address <b>303 6TH AVE NE</b>	City <b>BELFIELD</b>	State <b>ND</b>	Zip Code <b>58622</b>
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments		

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Date <b>May 23, 2013</b>	
Signature 	Printed Name <b>KEN KUNDRIK</b>	Title <b>OPERATIONS MANAGER</b>

Above Signature Witnessed By	Witness Signature 	Witness Printed Name <b>KIM NEABUHR</b>	Witness Title <b>REVENUE ACCOUNTANT</b>
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FOR STATE USE ONLY		
Date Approved <b>MAY 28 2013</b>		
By 		
Title <b>Oil &amp; Gas Production Analyst</b>		



# **Oil and Gas Division**

Lynn D. Helms - Director

Bruce E. Hicks - Assistant Director

**Department of Mineral Resources**

Lynn D. Helms - Director

**North Dakota Industrial Commission**

[www.dmr.nd.gov/oilgas](http://www.dmr.nd.gov/oilgas)

11745

May 24, 2013

Rene Morin  
Rim Operating, Inc.  
5 Inverness Drive East  
Englewood, CO 80112-5519

**RE: CHANGE OF OPERATOR FROM SM ENERGY COMPANY  
TO RIM OPERATING, INC.  
15 WELLS**

Dear Rene Morin:

Please find enclosed a copy of the approved Form 15, Notice of Transfer of Oil and Gas Wells, in regard to the above-referenced matter. This transfer has now been approved and subject wells are now covered by Bond No. RLB0013610, RLI Insurance Company as Surety.

If you should have any questions, please feel free to contact this office.

Sincerely,

Jeanette Bean  
Administrative Assistant

Enclosure

cc: Mark Mueller  
SM Energy Company  
PO Box 7168  
Billings, MT 59103



# NOTICE OF TRANSFER OF OIL AND GAS WELLS FORM 15

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5762 (03-2000)

FOR STATE USE ONLY

NDIC Bond Number

R 312



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM. PLEASE SUBMIT THE ORIGINAL AND SIX COPIES.  
THIS NOTICE ALONG WITH A FEE OF \$25.00 PER WELL SHALL BE FILED AT LEAST THIRTY DAYS BEFORE THE CLOSING DATE OF TRANSFER.

## TRANSFERRING OPERATOR

Name of Operator Representative <b>Mark Mueller</b>			
Operator Transferring Oil and/or Gas Wells <b>SM Energy Company</b>			
Address <b>P.O. Box 7168</b>	City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59103</b>
I, the above named representative, acknowledge the transfer of the oil and/or gas wells named below for the purpose of ownership and/or operation to the company named below.			
Signature 	Title (Must be an officer or power of attorney must be attached) <b>Sr VP/Regional Manager</b>		Date <b>5/3/2013</b>

Well File Number	Requested Official Well Name and Number	Location (Qtr-Qtr, S-T-R)	Assignment Date

## RECEIVING OPERATOR

Name of Operator Representative <b>Rene Morin</b>			
Operator Receiving Oil and/or Gas Wells <b>Rim Operating, Inc.</b>			
Address <b>5 Inverness Drive East</b>	City <b>Englewood</b>	State <b>CO</b>	Zip Code <b>80112-5519</b>
I, the above named representative, have read the foregoing statement and accept such transfer, also the responsibility of ownership and/or operation of said well or wells, under the said company bond, said bond being tendered to or on file with the Industrial Commission of North Dakota.			
Signature 	Title (Must be an officer or power of attorney must be attached) <b>Vice President</b>		Date <b>5-15-13</b>

## SURETY COMPANY

Surety <b>RLI Insurance Company</b>	Telephone Number <b>713-961-1300</b>	Amount of Bond <b>\$ 100,000.00</b>		
Address <b>8 Greenway Plaza, Ste.400</b>	City <b>Houston</b>	State <b>TX</b>	Zip Code <b>77046</b>	Bond Number <b>RLB0013610</b>

The above named SURETY agrees that such bond shall extend to compliance with Chapter 38-08 of North Dakota Century Code and amendments and the rules and regulations of the Industrial Commission of North Dakota prescribed to govern the production of oil and gas on government and private lands within the State of North Dakota, in relation to the above stated transfer; it being further agreed and understood that the bond sum or amount is not to be considered increased because of such extension.

Signature 	Title (Must be an officer or power of attorney must be attached) <b>Attorney-in-Fact</b>	Date <b>05-22-13</b>
Printed Name <b>Robbie Duxbury</b>	FOR STATE USE ONLY	

Date Approved 	By <b>Bruce E. Luchs</b>
Title <b>Assistant Director</b>	

Well File No.	Well Name	Gross Acres	Field	County	SI	Quarter	Section	Township	Range
14792	BOSS 12-17	160	STOCKYARD CREEK	WILLIAMS	ND	SWNW	17	154N	99W
14716	BOSS 41-17	160	STOCKYARD CREEK	WILLIAMS	ND	NENE	17	154N	99W
13556	CHURCH 1-2X ST	320	NAMELESS	MCKENZIE	ND	NENW	2	150N	102W
15358	LEWIS & CLARK 2-4H	604.3	BAKER	MCKENZIE	ND	SENE	4	153N	101W
45	BASIC GAME & FISH 34-3H	320	BAKER	MCKENZIE	ND	SWSW	2	153N	101W
20	CORPS OF ENGINEERS 31-10	320	BAKER	MCKENZIE	ND	NWNE	10	153N	101W
11137	PEDERSON 5-24 (DUP)	160	HARDSCRABBLE	WILLIAMS	ND	NWSW	24	153N	102W
11238	COULTER 1-19	156	INDIAN HILL	WILLIAMS	ND	SWNW	19	153N	101W
11490	CURRAN 1-1	160	DUBLIN	WILLIAMS	ND	NENW	1	157N	100W
9102	CHURCH 1-2S	160	NAMELESS	MCKENZIE	ND	NWNW	2	150N	102W
10681	SKURDAL 2-24HR	640	HARDSCRABBLE	WILLIAMS	ND	NENW	24	153N	102W
8322	LINK 34-1S	160	NAMELESS	MCKENZIE	ND	NESW	34	151N	102W
5856	YELLOWSTONE STATE 1-36	320	YELLOWSTONE	MCKENZIE	ND	NENW	36	150N	104W
13428	SKURDAL 6-24 RR	320	HARDSCRABBLE	WILLIAMS	ND	SWSE	24	153N	102W
9481	LINDECKER 1-35 SWD		UNKNOWN	MCKENZIE	ND	NWSW	35	151N	102W



# SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (09-2006)



Well File No.  
11745

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input type="checkbox"/> Notice of Intent	Approximate Start Date	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed <b>July 23, 2012</b>	<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other	<b>Return to Production</b>

Well Name and Number <b>Basic Game &amp; Fish 34-3H</b>					
Footages	392 F S L	494 F W L	Qtr-Qtr SWSW	Section 2	Township 153 N
Field <b>Baker</b>	Pool <b>Madison</b>			County <b>McKenzie</b>	Range 101 W

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address:	City	State	Zip Code

## DETAILS OF WORK

The Basic Game & Fish 34-3H was returned to production on 7/23/12 after being SI due to flooding in Baker Field.

Company <b>SM Energy Company</b>	Telephone Number <b>(406) 245-6248</b>	
Address <b>P.O. Box 7168</b>		
City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59103</b>
Signature <i>Cris Rogers</i>	Printed Name <b>Cris Rogers</b>	
Title <b>Operations Engineer</b>	Date <b>July 27, 2012</b>	
Email Address <b>crogers@sm-energy.com</b>		

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date <i>September 7, 2012</i>	
By <i>D. J. McAlley</i>	
Title <b>PETROLEUM ENGINEER</b>	

Industrial Commission of North Dakota  
Oil and Gas Division  
Spill / Incident Report

Date/Time Reported : Apr 28 2010 / 08:44

State Agency person :

Responsible Party :

Well Operator : ST MARY LAND & EXPLORATION COMPANY

Date/Time of Incident : 4/27/2010 12:00:00 AM

NDIC File Number : 11745

Facility Number :

Well or Facility Name : BASIC GAME AND FISH 34-3

Field Name : BAKER

County : MCKENZIE

Section : 2

Township : 153

Range : 101

Quarter-Quarter : SW

Quarter : SW

Distance to nearest residence : 1.25 Miles

Distance to nearest water well : 0.5 Miles

Release Oil : 0 barrels

Release Brine : 8 barrels

Release Other : 0 barrels

Recovered Oil : 0 barrels

Recovered Brine : 0 barrels

Recovered Other : 0 barrels

Has/Will the incident be reported to the NRC? : No

Was release contained : Yes - Within Dike

Description of other released substance :

Immediate risk evaluation : None.

Followup Report Requested Y/N : N

Industrial Commission of North Dakota  
Oil and Gas Division  
Spill / Incident Report

Date/Time Reported : Jul 8 2009 / 12:37

State Agency person :

Responsible Party :

Well Operator : SM ENERGY COMPANY

Date/Time of Incident : 7/3/2009 12:00:00 AM

NDIC File Number : 11745

Facility Number :

Well or Facility Name : BASIC GAME AND FISH 34-3

Field Name : BAKER

County : MCKENZIE

Section : 2

Township : 153

Range : 101

Quarter-Quarter : SW

Quarter : SW

Distance to nearest residence : 3 Miles

Distance to nearest water well : 0.5 Miles

Release Oil : 3 barrels

Release Brine : 0 barrels

Release Other : 0 barrels

Recovered Oil : 3 barrels

Recovered Brine : 0 barrels

Recovered Other : 0 barrels

Has/Will the incident be reported to the NRC? : No

Was release contained :

Description of other released substance :

Immediate risk evaluation : None

Followup Report Requested Y/N : N

Industrial Commission of North Dakota  
Oil and Gas Division  
Spill / Incident Report

Date/Time Reported : Jun 19 2008 / 10:53

State Agency person :

Responsible Party :

Well Operator : ST MARY LAND & EXPLORATION COMPANY

Date/Time of Incident : 6/18/2008 12:00:00 AM

NDIC File Number : 11745

Facility Number :

Well or Facility Name : BASIC GAME AND FISH 34-3

Field Name : BAKER

County : MCKENZIE

Section : 2

Township : 153

Range : 101

Quarter-Quarter : SW

Quarter : SW

Distance to nearest residence : 5 Miles

Distance to nearest water well : 5 Miles

Release Oil : 0 barrels

Release Brine : 7 barrels

Release Other : 0 barrels

Recovered Oil : 0 barrels

Recovered Brine : 5 barrels

Recovered Other : 0 barrels

Has/Will the incident be reported to the NRC? : No

Was release contained : Yes - Within Dike

Description of other released substance :

Immediate risk evaluation :



## SUNDRY NOTICES AND REPORTS ON WELLS - FORM

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (09-2006)



Well File No.  
**11745**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
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Notice of Intent

Approximate Start Date

Report of Work Done

Date Work Completed

Notice of Intent to Begin a Workover Project that may Qualify  
for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.

Approximate Start Date

Drilling Prognosis

Spill Report

Redrilling or Repair

Shooting

Casing or Liner

Acidizing

Plug Well

Fracture Treatment

Supplemental History

Change Production Method

Temporarily Abandon

Reclamation

Other

**SHUT IN**

Well Name and Number

**BASIC GAME & FISH 34-3**

Footages

392 F S L 494 F WL Qtr-Qtr SWSW Section 2 Township 153 N Range 101 W

Field

**BAKER**

Pool

**BAKKEN MADISON**

County

**MCKENZIE**

### 24-HOUR PRODUCTION RATE

	Before		After
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)

Address

City

State

Zip Code

### DETAILS OF WORK

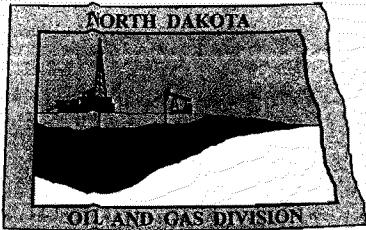
Due to ice jams the above captioned well has been shut in.

Verbal approval to transport oil was given by John Axtman on February 3, 2012.

Company <b>SM Energy</b>	Telephone Number <b>(406) 245-6248</b>	
Address <b>P O Box 7168</b>		
City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59103</b>
Signature <i>Lorena Griggs</i>	Printed Name <b>Lorena Griggs</b>	
Title <b>Regulatory &amp; Safety Assistant</b>	Date <b>February 3, 2012</b>	
Email Address <b>rgriggs@sm-energy.com</b>		

### FOR STATE USE ONLY

<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date <i>February 22, 2012</i>	
By <i>John Axtman</i>	
Title <b>PETROLEUM ENGINEER</b>	



# Oil and Gas Division

11745

Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

## Department of Mineral Resources

Lynn D. Helms - Director

## North Dakota Industrial Commission

[www.oilgas.nd.gov](http://www.oilgas.nd.gov)

September 14, 2011

Ms. Maggie Vogl  
SM Energy Company  
P.O. Box 7168  
Billings, MT 59103-7168

**RE: Basic Game and Fish #34-3  
SWSW Sec. 2, T.153N., R.101W.  
McKenzie County, North Dakota  
Baker Field  
Well File No. 11745  
STRIPPER WELL DETERMINATION**

Dear Ms. Vogl:

SM Energy Company (SM Energy) filed with the North Dakota Industrial Commission – Oil and Gas Division (Commission) on September 12, 2011 an application for a Stripper Well Property Determination for the above captioned well.

Information contained in the application indicates that the above mentioned well is a property pursuant to statute and rule, and SM Energy has elected to designate said well as a separate property for stripper well purposes. The well produced from a well depth greater than 10000 feet. During the qualifying period, February 1, 2009 through January 31, 2010 the well produced at a maximum efficient rate and the average daily production from the well was 26.5 barrels of oil per day during this period.

It is therefore determined that the above captioned well qualifies as a "Stripper Well Property" pursuant to Section 57-51.1-01 of the North Dakota Century Code. This determination is applicable only to the Madison Pool in and under said property.

The Commission shall have continuing jurisdiction, and shall have the authority to review the matter, and to amend or rescind the determination if such action is supported by additional or newly discovered information. If you have any questions, do not hesitate to contact me.

Sincerely,

David J. McCusker  
Petroleum Engineer

Cc: ND Tax Department



# SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (09-2006)

Well File No.  
**11745**



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
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<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Report of Work Done	Date Work Completed	<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.		<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
Approximate Start Date		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other	<b>Shut In Well</b>

Well Name and Number  
**Basic Game & Fish 34-3H**

Footages <b>392 F S L</b>	<b>494 F W L</b>	Qtr-Qtr <b>SWSW</b>	Section <b>9</b>	Township <b>153 N</b>	Range <b>101 W</b>
Field <b>Baker</b>	Pool <b>Madison</b>	County <b>McKenzie</b>			

## 24-HOUR PRODUCTION RATE

Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)	City	State	Zip Code
Address			

## DETAILS OF WORK

**3/29/2011 Temporarily Shut In due to Missouri River flooding.**

Company <b>SM Energy</b>	Telephone Number	
Address <b>P O Box 7168</b>		
City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59103</b>
Signature 	Printed Name <b>Luke Studer</b>	
Title <b>Regulatory and Safety Comp. Spec.</b>	Date <b>March 29, 2011</b>	
Email Address		

## FOR STATE USE ONLY

<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date <b>April 5, 2011</b>	
By 	
Title <b>PETROLEUM ENGINEER</b>	

# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 5698 (03-2000)

Well File No.

**11745**

NDIC CTB No.

**111745**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>MCKENZIE</b>
Operator <b>SM ENERGY COMPANY</b>	Telephone # <b>406-245-6248</b>	Field <b>BAKER</b>			
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>		

Name of First Purchaser <b>Plains Marketing-North Dakota, Inc.</b>	Telephone # <b>303-850-4284</b>	% Purchased <b>100</b>	Date Effective <b>January 1, 2011</b>
Principal Place of Business <b>5660 Greenwood Plaza Blvd., #230</b>	City <b>Greenwood Village</b>	State <b>CO</b>	Zip Code <b>80111</b>
Field Address <b>PO Box 567</b>	City <b>Plentywood</b>	State <b>MT</b>	Zip Code <b>59254</b>
Name of Transporter <b>Diamond B Trucking Inc. (TR)</b>	Telephone Number <b>701-245-6423</b>	% Transported <b>100</b>	Date Effective <b>January 1, 2011</b>
Address <b>PO Box 445</b>	City <b>Westhope</b>	State <b>ND</b>	Zip Code <b>58793</b>

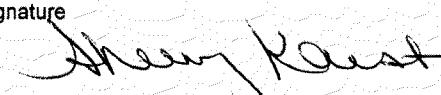
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective

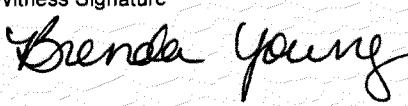
Comments

**Nexen purchased by Plains. Name changed to Plains Marketing-North Dakota, Inc.**

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>January 19, 2011</b>
---	---------------------------------

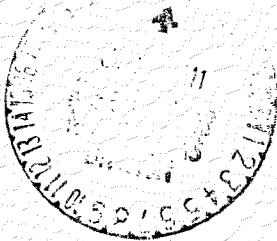
Signature 	Printed Name <b>Sherry Karst</b>	Title <b>Production Accountant</b>
---	-------------------------------------	---------------------------------------

Above Signature Witnessed By

Witness Signature 	Witness Printed Name <b>Brenda Young</b>	Witness Title <b>Field Tech Support</b>
---	---	--

**FOR STATE USE ONLY**

Date Approved <b>FEB 09 2011</b>
By 
Title 





## SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (09-2006)



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date
<input type="checkbox"/> Report of Work Done	Date Work Completed
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	
Approximate Start Date	

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	<b>Shut In Well</b>

Well Name and Number <b>Basic Game &amp; Fish 34-3H</b>						
Footages	392 F S L	494 F W L	Qtr-Qtr SWSW	Section 3	Township 153 N	Range 101 W
Field	Baker	Pool	Madison	County	McKenzie	

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)			
Address		City	State
			Zip Code

### DETAILS OF WORK

**6/30/2010 Temporarily Shut In due to Missouri River flooding.**

Company <b>SM Energy</b>	Telephone Number	
Address <b>P O Box 7168</b>		
City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59103</b>
Signature 	Printed Name <b>Luke Studer</b>	
Title <b>Regulatory and Safety Comp. Spec.</b>	Date <b>July 19, 2010</b>	
Email Address		

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date 	
By 	
Title <b>GLEN L. WOLLAN</b>	

Field Supervisor

# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 5698 (03-2000)



Well File No.

**11745**

NDIC CTB No.

**111745**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKENZIE</b>
Operator <b>SM ENERGY COMPANY</b>	Telephone # <b>406-245-6248</b>				Field <b>BAKER</b>
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>		State <b>MT</b>	Zip Code <b>59103-7168</b>	

Name of First Purchaser <b>Nexen Marketing USA Inc</b>	Telephone # <b>303-850-4284</b>	% Purchased <b>100</b>	Date Effective <b>June 1, 2010</b>
Principal Place of Business <b>5660 Greenwood Plaza Blvd., #230</b>	City <b>Greenwood Village</b>	State <b>CO</b>	Zip Code <b>80111</b>
Field Address <b>PO Box 567</b>	City <b>Plentywood</b>	State <b>MT</b>	Zip Code <b>59254</b>
Name of Transporter <b>Diamond B Trucking Inc. (TR)</b>	Telephone Number <b>701-245-6423</b>	% Transported <b>100</b>	Date Effective <b>June 1, 2010</b>
Address <b>PO Box 445</b>	City <b>Westhope</b>	State <b>ND</b>	Zip Code <b>58793</b>

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

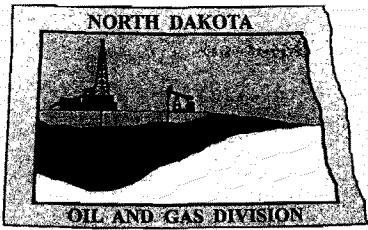
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments <b>St. Mary Land &amp; Exploration Company name change to SM Energy Company effective 6/1/2010</b>		

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>June 10, 2010</b>
---	------------------------------

Signature 	Printed Name <b>Sherry Karst</b>	Title <b>Production Technician</b>
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Above Signature Witnessed By	Witness Signature 	Witness Printed Name <b>Brenda Young</b>	Witness Title <b>Production Technician</b>
------------------------------	-----------------------	---	---

FOR STATE USE ONLY		
Date Approved <b>JUL 01 2010</b>		
By 		
Title 		



# **Oil and Gas Division**

Lynn D. Helms - Director

Bruce E. Hicks - Assistant Director

## **Department of Mineral Resources**

Lynn D. Helms - Director

## **North Dakota Industrial Commission**

[www.dmr.nd.gov/oilgas](http://www.dmr.nd.gov/oilgas)

June 28, 2010

SM Energy Company  
Ronald B. Santi  
PO Box 7168  
Billings, MT 59101

**RE: PRINCIPAL NAME CHANGE FROM  
ST MARY LAND & EXPLORATION COMPANY TO  
SM ENERGY COMPANY  
BOND NOS. 6367113, 6456716, 6041871, 6160846, 6160847, 6160842, AND  
6314472  
SAFECO INSURANCE COMPANY OF AMERICA  
267 WELLS**

Dear Mr. Ronald B. Santi:

This office is in receipt of your request to change the principal name of St. Mary Land & Exploration Company to SM Energy Company.

This letter will verify the principal name change effective June 28, 2010.

Please feel free to contact this office if you should have any questions.

Sincerely,

Evie Roberson  
Administrative Assistant

# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
 OIL AND GAS DIVISION  
 600 EAST BOULEVARD - DEPT 405  
 BISMARCK, ND 58505-0840  
 SFN 5698 (03-2000)

Well File No	11745
NDIC CTB No.	111745

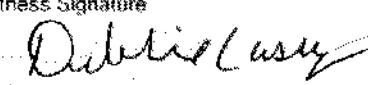
PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM  
 PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES

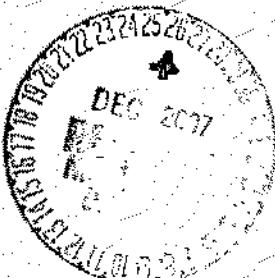
Well Name and Number <b>BASIC GAME &amp; FISH 34-38</b>	Qtr-Ctr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N.</b>	Range <b>101 W</b>	County <b>McKENZIE</b>
Operator <b>ST MARY LAND &amp; EXPLORATION COMPANY</b>	Telephone # <b>406-245-6248</b>		Field <b>BAKER</b>		
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>		State <b>MT</b>	Zip Code <b>59103-7168</b>	

Name of First Purchaser <b>Nexen Marketing USA Inc</b>	Telephone # <b>303-850-4284</b>	% Purchased <b>100</b>	Date Effective <b>December 1, 2007</b>
Principal Place of Business <b>5660 Greenwood Plaza Blvd., #230</b>	City <b>Greenwood Village</b>	State <b>CO</b>	Zip Code <b>80111</b>
Field Address <b>PO Box 567</b>	City <b>Plentywood</b>	State <b>MT</b>	Zip Code <b>59254</b>
Name of Transporter <b>Diamond B Trucking Inc. (TR)</b>	Telephone Number <b>701-245-6423</b>	% Transported <b>100</b>	Date Effective <b>December 1, 2007</b>
Address <b>PO Box 445</b>	City <b>Westhope</b>	State <b>ND</b>	Zip Code <b>58793</b>
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

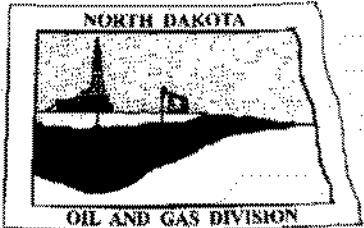
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments	0	

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records	Date <b>December 17, 2007</b>
--	----------------------------------

Signature 	Printed Name <b>Kari Wheeler</b>	Title <b>Production Assistant</b>
Above Signature Witnessed By	Witness Printed Name <b>Debbie Casey</b>	Witness Title <b>Production Supervisor</b>
Witness Signature 		



FOR STATE USE ONLY	
Date Approved <b>12-26-07</b>	By 
Title <b>Jennifer F. Tegge</b>	
	



# **Oil and Gas Division**

Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

## **Department of Mineral Resources**

Lynn D. Helms - Director

## **North Dakota Industrial Commission**

[www.oilgas.nd.gov](http://www.oilgas.nd.gov)

December 26, 2007

Karin M. Writer  
St Mary Land & Exploration Company  
1776 Lincoln St Ste 700  
Denver CO 80203

**RE: PRINCIPAL NAME CHANGE FROM  
NANCE PETROLEUM CORPORATION TO  
ST MARY LAND & EXPLORATION COMPANY  
7 BONDS**

Dear Ms. Writer:

This office is in receipt of the riders changing the principal name from Nance Petroleum Corporation to St Mary Land & Exploration Company.

This letter will verify the principal name change from Nance Petroleum Corporation to St Mary Land & Exploration Company effective December 26, 2007.

Please feel free to contact this office if you should have any questions.

Sincerely,

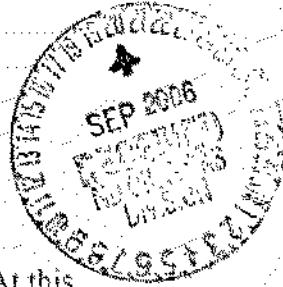
Marge Rixen  
Legal Assistant

/mr

11745

Nance Petroleum Corporation  
Spill Prevention Measures for Pipelines

File Number: 11745 Basic Game & Fish 34-3



Schematic on a map showing the location and route of the pipelines:

See attached Site Diagram, indicating the location of the pipelines. At this facility, the "pipelines" are buried flowlines which connect the wellhead to the production facilities (heater treater and storage tanks). All flowlines are located within the boundaries of the well pad. The treater and storage tanks are surrounded by their own dike (see "Dikes and their capacities").

Pipeline Information:

Flow line - (Buried) 3" steel threaded line pipe (Schedule 40)  
WP - 3,600 psi

Oil Fill line - (Above ground) 3" steel threaded line pipe (Schedule 40)  
WP - 3,600 psi

Salt water fill line - (Above ground) 2" steel threaded line pipe (Schedule 40)  
WP - 2,650 psi

Recycle line (Above ground) 2" steel threaded line pipe (Schedule 40)  
WP - 2,650 psi

Age: 20 years (completed 1/19/86)

Monitoring Systems installed: None

Surveillance Programs in place: None

Inspection and Maintenance Programs in place:

This is a two-wellsite location with two separate production facilities on location. Oil and produced water flow from two producing wells, the M&G 14-2 and the Basic Game & Fish 34-3, into and out of pressure vessels and to bulk storage by interconnecting piping. The piping may be either above or below ground, but does not extend past the outer boundaries of the wellsites. Production operations personnel perform routine operational (visual) examinations on above ground interconnecting piping for indication of leaks, abnormalities, or equipment malfunctions during their daily visit to the facility. Below ground flowlines are walked and a visual examination is performed for indications of a leak if a production shortage shows the need. Records of daily checks are recorded on gauge sheets. Periodic, comprehensive flowline inspections are performed by Nance Petroleum personnel and recorded on a well inspection report. These records are maintained at the Nance Petroleum Williston, ND and Billings, MT offices.

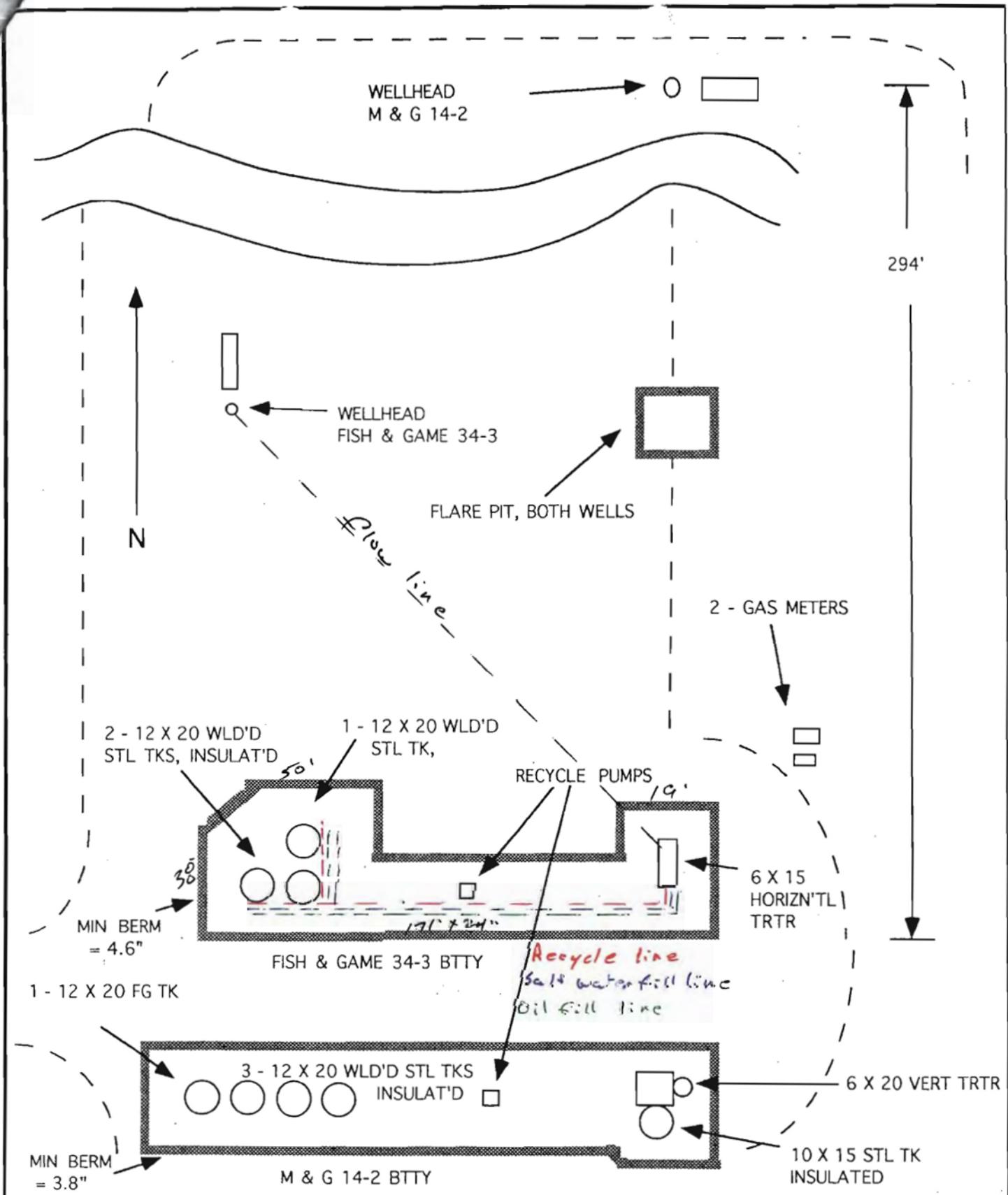
Nance Petroleum Corporation  
Spill Prevention Measures for Pipelines

File Number: 11745 Basic Game & Fish 34-3 - continued

Integrity Test Results: None

Dikes and their capacities:

Tank battery / treater dike capacity: 1,305 barrels



LEGEND  
 FENCE -----  
 BERM :-----:  
 EDGE OF GRAVEL - - - -

SCALE 1" = 50'

WELL: FISH AND GAME 34-3, M & G 14-2

FIELD: BAKER

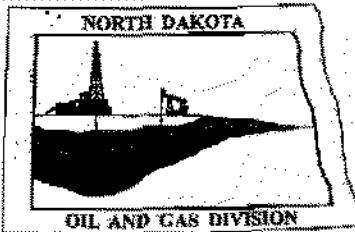
LOCATION: SWSW 2 T153N R101W

OPERATOR: PANTERRA PETROLEUM

**Golden Globe Engineering Inc.**

Billings, Montana

# **Oil and Gas Division**



Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

## **Department of Mineral Resources**

Lynn D. Helms - Director

## **North Dakota Industrial Commission**

[www.oilgas.nd.gov](http://www.oilgas.nd.gov)

July 25, 2006

Mr. Mike Mungas  
Nance Petroleum Corp.  
PO Box 7168  
Billings, MT 59103-7168

RE: Spill Prevention Measures for Pipelines (See Attachment)

Dear Mr. Mungas:

The NDIC Oil and Gas Division is requesting information on spill prevention measures in place for the above referenced facilities. Please provide us with the following:

A schematic on a map showing the location and route of the pipelines.

Information available about the pipelines such as construction material, size, operating pressure rating and age of the pipelines.

A description of any monitoring systems installed, surveillance programs, and inspection and maintenance programs in place.

Results of any integrity tests done on the pipelines.

Dikes and their capacities.

Please contact Mark Bohrer or Glenn Wollan at (701) 328-8020 in our Bismarck office if you have questions.

Sincerely,

*John Axtman*

John Axtman

Williston District Supervisor

JSA/kl

ATTACHMENT  
July 25, 2006

## SPILL POTENTIAL WELLS OR FACILITIES

### FILE NO.

9102	CHURCH	1-2
9362	BURNING MINE BUTTE	9-21
9481	LINDECKER	1-35-4A
11130	FLYNN	1
11214	NORTH BRANCH	22-35
11549	ROSEBUD	22-11
11745	BASIC GAME AND FISH	34-3
11751	M AND G	14-2
11920	CORPS OF ENGINEERS	31-10
12129	FRENCH-PINNEY	24-3
12566	ELLETSON	33-1
13373	PIERRE CREEK NELSON	44-23HR
13556	CHURCH	1-2X
13681	BRESE	22-32HR
13771	DANIELSON	32-32
14046	PIERRE CREEK NELSON	42-23
14794	STENSRUD	43-14
15344	REHAB	4-33
15358	LEWIS AND CLARK	2-4H
90095	MOORE FEDERAL	3-28 SWD

# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

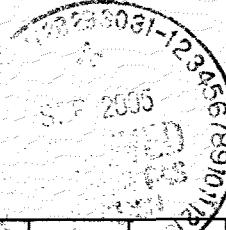
INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 5698 (03-2000)



Well File No.

**11745**

NDIC CTB No.

**111745**

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Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKENZIE</b>
Operator <b>NANCE PETROLEUM CORPORATION</b>	Telephone # <b>406-245-6248</b>		Field <b>BAKER</b>		
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>		State <b>MT</b>	Zip Code <b>59103-7168</b>	

Name of First Purchaser <b>Nexen Marketing USA Inc</b>	Telephone # <b>303-850-4284</b>	% Purchased <b>100</b>	Date Effective <b>October 1, 2005</b>
Principal Place of Business <b>5660 Greenwood Plaza Blvd., #230</b>	City <b>Greenwood Village</b>	State <b>CO</b>	Zip Code <b>80111</b>
Field Address <b>PO Box 567</b>	City <b>Plentywood</b>	State <b>MT</b>	Zip Code <b>59254</b>
Name of Transporter <b>Diamond B Trucking Inc. (TR)</b>	Telephone Number <b>701-245-6423</b>	% Transported <b>100</b>	Date Effective <b>October 1, 2005</b>
Address <b>PO Box 445</b>	City <b>Westhope</b>	State <b>ND</b>	Zip Code <b>58793</b>

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments <b>CHANGE OF PURCHASER EFFECTIVE 10/1/2005</b>		

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>October 5, 2005</b>
---	--------------------------------

Signature 	Printed Name <b>Amanda Rambur</b>	Title <b>Marketing Representative</b>
---------------	--------------------------------------	--

Above Signature Witnessed By	Witness Signature 	Witness Printed Name <b>Terry Holzwarth</b>	Witness Title <b>VP - Business Development</b>
------------------------------	-----------------------	--	---

FOR STATE USE ONLY	
Date Approved <i>10-5-05</i>	By 
Title <i>Marketing Representative</i>	

**AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8**

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
 OIL AND GAS DIVISION  
 600 EAST BOULEVARD DEPT 405  
 BISMARCK, ND 58505-0840  
 SFN 5698 (03-2000)

Well File No.	11745
NDIC CTB No.	111745

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Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW 2-3</b>	Section <b>153 N</b>	Township <b>101 W</b>	Range <b>McKENZIE</b>
Operator <b>NANCE PETROLEUM CORPORATION</b>	Telephone # <b>406-245-6248</b>	Field <b>BAKER</b>		
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>	

Name of First Purchaser <b>Eighty-Eight Oil LLC</b>	Telephone # <b>307-266-0264</b>	% Purchased <b>100</b>	Date Effective <b>April 1, 2005</b>
Principal Place of Business <b>P O Drawer 2360</b>	City <b>Casper</b>	State <b>WY</b>	Zip Code <b>82602</b>
Field Address <b>P O Drawer 2360</b>	City <b>Casper</b>	State <b>WY</b>	Zip Code <b>82602</b>
Name of Transporter <b>Black Hills Trucking</b>	Telephone Number <b>307-266-0264</b>	% Transported <b>100</b>	Date Effective <b>April 1, 2005</b>
Address <b>P.O. Drawer 2360</b>	City <b>Casper</b>	State <b>WY</b>	Zip Code <b>82602</b>
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments	0	

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>March 30, 2005</b>
---	-------------------------------

Signature <i>Amanda Rambur</i>	Printed Name <b>Amanda Rambur</b>	Title <b>Marketing Representative</b>
-----------------------------------	--------------------------------------	--

Above Signature Witnessed By <i>Terry Holzwarth</i>	Witness Signature <i>Terry Holzwarth</i>	Witness Printed Name <b>Terry Holzwarth</b>	Witness Title <b>VP - Business Development</b>
--	---	--	---

FOR STATE USE ONLY	
Date Approved By Title	<i>4-6-05</i> <i>Annette T. Taylor</i> <i>Oil &amp; Gas Production Analyst</i>

**AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8**

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
800 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5698 (03-2000)



Well File No.	11745
NDIC CTB No.	11745

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW 23</b>	Section <b>153 N</b>	Township <b>101 W</b>	Range <b>McKENZIE</b>
Operator <b>NANCE PETROLEUM CORPORATION</b>	Telephone # <b>406-245-6248</b>	Field <b>BAKER</b>		
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>	

Name of First Purchaser <b>Tesoro Refining &amp; Marketing Company</b>	Telephone # <b>403-699-4059</b>	% Purchased <b>100</b>	Date Effective <b>April 1, 2004</b>
Principal Place of Business <b>1225 17th St., Ste. 1800</b>	City <b>Denver</b>	State <b>CO</b>	Zip Code <b>80202</b>
Field Address <b>HC 56 Box 605 1A</b>	City <b>Sidney</b>	State <b>MT</b>	Zip Code <b>59270</b>
Name of Transporter <b>Tesoro Refining &amp; Marketing Company (TR)</b>	Telephone Number <b>720-258-0611</b>	% Transported <b>100</b>	Date Effective <b>April 1, 2004</b>
Address <b>1225 17th St., Ste 1800</b>	City <b>Denver</b>	State <b>CO</b>	Zip Code <b>80202</b>

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments	0	

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>March 24, 2004</b>
Signature <i>Amanda Rambur</i>	Printed Name <b>Amanda Rambur</b>
Title <b>Marketing Representative</b>	

Above Signature Witnessed By	Witness Signature <i>Terry Holzwarth</i>	Witness Printed Name <b>Terry Holzwarth</b>	Witness Title <b>VP - Acquisitions</b>
------------------------------	---	--	---

FOR STATE USE ONLY	
Date Approved <i>3/31/04</i>	By <i>Annette M. Jorgenson</i>
Title <i>Oil - Gas Rep. Analyst</i>	

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

[www.oilgas.nd.gov](http://www.oilgas.nd.gov)

Bruce E. Hicks  
ASSISTANT DIRECTOR

March 31, 2004

Ms. Joy Torgerson  
Production Assistant  
Nance Petroleum Corp.  
P. O. Box 7168  
Billings, MT 59101

**RE: HORIZONTAL RE-ENTRY WELL**  
**Basic Game & Fish 34-3**  
**SW SW 2-153N-101W**  
**McKenzie Co.**  
**Well File #11745**

Dear Ms. Torgerson:

Information contained in the records and files of the Industrial Commission indicates the above captioned well was initially spud October 16, 1985 and completed as a vertical well on January 19, 1986. The well was re-entered November 4, 2002 and recompleted as a horizontal well on December 12, 2002.

Such information further indicates that 200 barrels of test oil were produced from the well prior to recompletion.

If you have any questions, please contact this office.

Sincerely,



James R. Legerski  
Sr. Petroleum Engineer

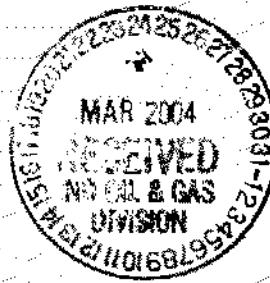
JL/db  
cc: Tax Dept.



A Subsidiary of  
St. Mary Land & Exploration Co.

P.O. BOX 7168 • BILLINGS, MT 59103  
350 N. 31st ST, SUITE 500 • BILLINGS, MT 59101  
PHONE: (406) 245-6248 • FAX: (406) 245-9106

11745



March 17, 2004

Mr. James R. Legerski  
North Dakota Industrial Commission  
Oil and Gas Division  
600 East Boulevard  
Bismarck, ND 58505

Re: Horizontal Reentry Well Classification - Basic Game & Fish 34-3 -- Well #11745

Nance Petroleum Corporation, as Operator, hereby makes horizontal reentry well application in accordance with statute and rule (Section 57-51.1-03 NDCC) "HR" well code for the Basic Game & Fish 34-3 (Madison) well located at SWSW, Section 2, T153N, R101W, McKenzie County, ND, Well File #11745 - API #33-053-02102, to be effective December, 2002.

This well was initially spudded on October 16, 1985 and completed on January 19, 1986 as a vertical well and was reentered on November 4, 2002 and recompleted on December 12, 2002 as a horizontal well. Attached is a well bore diagram showing the length and inclination of the horizontal leg into the Nesson formation and a swab report showing a total volume of 199.57 bbls of test oil recovered during recompletion operations.

All working interest owners along with the crude oil purchaser are being notified by copy of this application.

Sincerely,

Nance Petroleum Corporation

*Joy Torgerson*

Joy Torgerson  
Production Assistant

Enclosure

**TO: WORKING INTEREST OWNERS / PURCHASER**

By copy of this letter to all Working Interest Owners / Purchaser, Nance Petroleum Corporation hereby gives notification of our filing with the North Dakota Industrial Commission and application for Horizontal Reentry Well Exemption as stated above (purpose of exempting production from the imposition of the oil extraction tax) for the reference well.

## CERTIFICATION



I, Joy A. Torgerson, certify by my signature below, that I have notified by Certified Mail all working interest owners and purchaser(s) of crude oil from this lease for Nance Petroleum Corporation's Application for Horizontal Reentry Well Determination:

Well Name & Number  
BASIC GAME & FISH 34-3

Oil Purchaser  
Nexen Marketing USA Inc.

Working Interest Owner  
Baytide Petroleum Inc.  
Hunt Petroleum (AEC) Inc.  
W Merle Freeman  
J Hiram Moore  
J Hiram Moore LTD  
Robert R Rick  
Richard J Rigo  
William Robert Weyman  
Palace Exploration Co.  
Zavanna LLC  
M J Mourne Jr dba of Paw Prints  
Oil & Gas LLC  
RZ Inc  
Barry Razi  
Mike Razi  
Avila Re Holdings  
U. S. Companies Inc.

Dated this 17th of March, 2004.

NANCE PETROLEUM CORPORATION

Joy A. Torgerson  
Joy A. Torgerson, Production Assistant

NANCE PETROLEUM CORPORATION				
	WELL:	BASIC GAME & FISH 34-3	FIELD:	BAKER
2960'	9 5/8"	LOCATION: SURF:SWSW SEC 2 153N 101W, MCKENZIE CO, ND 392' FSL & 494' FWL BH @ TD:SESE SEC 3 153N 11 STATUS: PUMPING OIL WELL 543' FSL & 655' FEL		
3450'	TOP OF CMT	ELEVATION: GL - 1850' KB - 1872' ACCTG NO. 60102 SPUD DATE: 10/16/85	ST FILE NO: 11745 API# 33-053-02102 COMP DATE: 2/3/86	
4034'	ORIGINAL KICK-OFF PT.	ROTARY TD: 9596' TVD, 9716' TMD SURF CSG: 9 5/8" 36# K-55 SET @ 2960'. CMT W/ 1100 SX. PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702'. CMT Cmt 2 stage, DV 8092'. 1st: 430 sk G+35% sf+10% salt, 2nd: 900 sk Lite+10% salt.	PBTD: 9561' MD	
		TUBING & BHA	RODS & PUMP	
8092'	DV TOOL	279 jt 2 7/8" L-80 tubing MSN w/ 1 1/4" x 20' diptube - 8773' 6' perforated sub 1 jt 2 7/8" tubing 5 1/2" Basin TAC - 8810' 1 jt 2 7/8" tubing bull plug - EOT 8844'	1 1/2" x 30' polish rod (30') 1" x 4' pony rod (4') 92 - 1" Norris 97 rods (2300') 120 - 7/8" Norris 97 rods (3000') 112 - 3/4" Norris 97 rods (2800') 22 - 1" scrprd Norris 90 (550') 2 - 1" Norris 97 (50') 1" x 30" srprd pony	
8392'	ORIGINAL MAX ANGLE 16 DEG.	SALT DEPTH DUNHAM 6644-6712 PINE 7035-7100 CHARLES 8275-9004	2 1/2" x 1 1/2" x 24' x 28' RHB pump w/ 5' plngr, single valve	
8773'	SN	WELLHEAD: CSGHD 9 5/8" X 11" 3000 C22.17# L-80 TBG HD 7 1/16" 5000.	5 1/2" SET @ 23# TC80HC 45	6624
8810'	AC	PUMP UNIT: LUFKIN MARK II - M912D-305- 23# TC80HC W/DP-70 AJAX MOTOR 7 SPM & 192" SL	23# TC80HC 6803 20# L-80 7013 20# L-80 7188 20# L-80 8251 23# TC80HC 9099 20# L-80 9702	
8844'	EOT	PERFS: NESSON 9234-54' 4 SPF		
8998'	BLS			
9022'	KOP	Spur#1: 9460-9530' Spur#2: 11390-11690'		
9034'	PKR	4 1/2" open hole NESSON lateral leg 9120-9130' TVD 9022-12800' Nesson top: 9350' MD	4 1/2" HOLE 12800' TMD	
9234-54'	=	NESSON PERFS 12 DEG DEV. PINNED COLLAR	27°/100' BUILD RATE TO 90° AZIMUTH 290° 3450' Nesson lateral 9350-12800'	TD: 90.8 deg TVD 9120.68
9346'				
9529'	PBTD	PREPARED BY: GARY L EVERETZ	DATE:	11/15/03 BASIC343H.XLS
9702'	*****	5 1/2" Updated by: John Steele		
		DIRICTIONAL WELL TMD - 9716', TVD - 9596'		
		MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.		

PAGE: 1

**SWAB OR FLOW REPORT**

SUPERVISOR Les

FORM Messan

COMPANY: Nance Petroleum

WELL : Basic Game & Fish 34-3H

DATE: 11/26/03

PERES Open Hole from 9359 - 12809 MD

PAGE: 2

## SWAB OR FLOW REPORT

SUPERVISOR Les

FORM. Nesson

COMPANY: Nance Petroleum

WELL: Basic Game &amp; Fish 34-3H

DATE: 11/27/02

PERFS. Open Hole from 9350 - 12800MD

TIME MST	PRESS. TBG.	CK 64lbs	SWAB FL	TANK NO.	GAUGE RDG'S		BBLS. PER HR.	TOTAL BBLS.	% WTR		BBLS. OIL WTR		GAS Mcfd.	REMARKS	
					GAUGE	DIFF.			BS	OIL	WTR				
7:00 AM	210		3000'	N Test	1' 6"										
8:00 AM			3000'	4000'	3		2' 5"	0' 11"	18.38	18.38	85%	2.76	15.62		30% oil on first run
9:00 AM			3000'	4000'	2		3' 1"	0' 8"	13.36	31.74	97%	0.40	12.96		
10:00 AM			2400'	3400'	3		4' 0"	0' 11"	18.37	50.11	94%	1.10	17.27		
11:00 AM			2400'	3400'	4		5' 0"	1' 0"	20.05	70.16	94%	1.20	18.85		
12:00 PM			2800'	4000'	4		5' 11"	0' 11"	18.37	88.53	94%	1.10	17.27		
1:00 PM			2800'	4000'	3		6' 8"	0' 9"	15.03	103.56	93%	0.75	14.28		
2:00 PM			2400'	4000'	4		7' 11"	1' 3"	25.05	128.61	93%	1.75	23.30		
3:00 PM			2400'	4000'	4		8' 10"	0' 11"	18.37	146.98	85%	2.76	15.61		
4:00 PM			2400'	4000'	3		9' 5"	0' 7"	11.69	158.67	90%	1.17	10.52		
Totals					30			158.67		92%	12.99	145.68			

Swabbed 12.99 BO &amp; 145.68 BLW = 158.67 BTF in 20 runs in 9 hrs. 4243 BLWTR.

## SWAB OR FLOW REPORT

SUPERVISOR Bid McMahon

FORM. Nesson

PERFS. Open Hole from 9350 - 12800MD

COMPANY: Nance Petroleum

WELL: Basic Game &amp; Fish 34-3H

DATE: 12/02/02

TIME	PRESS.	CK	SWAB			TANK NO.	GAUGE RDG'S		BBLS. PER HR.	TOTAL BBLS.	% WTR		BBLS. OIL	GAS WTR	REMARKS	
			MST	TBG	CSG	64ths	FL	SD			WTR	BS				
7:00 AM	600	300					N. Test	0' 6"								
8:00 AM	230	100	30						1' 9"	15"	25.05	25.05	0%	25.05	0.00	Flow To N. Test/Csg Flowing
9:00 AM	0	0	30				Tk Btry		10"	16.7	41.75	20%		13.36	3.34	Flow To Treater & 0 psi in 35 min
10:00 AM	0	0		1700	2600	6	N. Test	2' 7"	10"	16.70	56.45	58%		7.01	9.69	
11:00 AM	0	0		2600	3800	4		3' 7"	12"	20.04	78.49	88%		2.40	17.64	
12:00 PM	0	0		2600	3800	4		4' 10"	15"	25.05	103.54	72%		7.01	18.04	Noted Considerable Solids in Wt
1:00 PM	0	0		2300	3400	4		5' 10"	12"	20.04	123.58	69%		6.21	13.83	
2:00 PM	0	0		2300	3400	4		6' 9"	11"	18.37	141.95	73%		4.96	13.41	Wtr Cleaning up
3:00 PM	0	0		2300	3400	5		7' 11"	14"	23.34	165.29	87%		3.03	20.30	Wtr Wgt 9.6#/gal
4:00 PM	0	0		2300	3400	4		8' 11"	12"	20.04	185.33	82%		3.61	16.43	
5:30 PM	0	0		2300	3400	2		9' 6"	7"	11.69	197.02	69%		3.62	8.07	

SWAB OR FLOW REPORT

SUPERVISOR: Ed McMahon

FORM Nesson

**PERFS. Open Hole from 9350 - 12800MD**

**COMPANY:** Nance Petroleum

WEU : Basic Game & FisH 34-3H

DATE: 12/03/02

TIME	PRESS.		CK	SWAB		TANK NO.	GAUGE RDG'S		BBLS. PER HR.	TOTAL BBLS.	%		BBLS.		GAS Mcfd.	REMARKS	
	MST	TBG	CSG	64ths	FL	SD	RUNS	GAUGE	DIFF.		WTR	BS	OIL	WTR			
7:00 AM	340	0	64					3' 11"									TP @ 0 in 15 Min/CP Slight Blow
8:00 AM	0	0	2"	2250	3750	2	N Test	4' 4"	5"	8.35	8.35	0%		8.35	0.00		
9:00 AM				2800	3750	4		5' 4"	12"	20.04	28.39	78%		4.41	15.63		
10:00 AM				2100	3200	5		6' 5"	13"	21.71	58.10	73%		5.86	15.85		
11:00 AM				3000	4100	5		7' 7"	14"	23.38	73.48	94%		1.40	21.98		
12:00 PM				2800	3900	3		8' 4"	9"	15.03	88.51	82%		2.71	12.32		Chain on SL Drum Broke
1:00 PM				2800	3900	5		9' 7"	15"	25.05	113.56	75%		6.26	18.79		
2:00 PM				2800	3900	3		10' 7"	12"	20.04	133.60	73%		5.41	14.63		SW 9.6# gal on Mud Scale
3:00 PM				2800	3900	3		11' 3"	8"	13.36	146.96	73%		3.61	9.75		Chain on SL Drum Broke
4:00 PM				2800	3900	2		11' 8"	5"	8.35	155.31	75%		2.09	6.26		Replace Chain on SL Drum
4:30 PM	0	0		2800	3900	3		12' 4"	8"	13.36	168.67	75%		3.34	10.02		
<b>Totals</b>										<b>168.67</b>		<b>74%</b>		<b>43.44</b>	<b>125.23</b>		

**Swabbed 43.44 BO & 125.23 BSW = 168.67 Total Bbls Fluid In 35 runs 9-1/2 hours 3997 BJ WTS**

SWAB OR FLOW REPORT

SUPERVISOR: Rid McMahan

FORM Nesspm

PERES Open H

PERFS. Open Hole from 9350 - 12800MD

**COMPANY:** Nance Petroleum

WELL : Basic Game & Fish 34-3H

DATE: 12/04/07

TIME	PRESS.	CK	SWAB			TANK NO.	GAUGE RDG'S		BBLs. PER HR.	TOTAL BBLs.	% WTR		BBLs.		GAS Mcfd.	REMARKS	
			TBG	CSG	64ths		FL	SD			WTR	BS	OIL	WTR			
7:00 AM	330	0	2"		1800				6' 5"							TP to 0 psi-7 min/CP Slight Blow	
8:00 AM	0	0			4300	3	N. Test		7' 0"	7"	11.69	11.69	0%		11.69	0.00	
9:00 AM					2600	3800	5		8' 2"	14"	23.38	35.07	83%		3.97	19.41	Check Wtr, minimal fines
10:00 AM					2600	3800	3		9' 2"	12"	20.04	55.11	80%		4.01	16.03	Noted Increased H2S odor
11 AM					2600	3800	5		10' 2"	12"	20.04	75.15	62%		7.62	12.42	Chemical Sandline
12:00 PM					2600	3800	4		11' 2"	12"	20.04	95.19	71%		5.81	14.23	
1:00 PM					2600	3800	4		11' 11"	9"	15.03	110.22	71%		4.36	10.67	
2:00 PM					2600	3800	4		12' 10"	11"	18.37	128.59	70%		5.51	12.86	
3:00 PM					2600	3800	5		14' 0"	14"	23.38	151.97	66%		7.95	15.43	SW 9.5#/gal and Dark Stain
4:00 PM					3000	4100	5		15' 2"	14"	23.38	175.35	75%		5.85	17.54	Check Wtr Minimal fines
4:30 PM					3000	4100	3		15' 10"	8"	13.36	188.71	62%		5.08	8.28	
<b>Totals</b>						41				188.71		67%		61.85	126.86		

Swabbed 61.85 BO, 126.86 BLW = 188.71 TBF in 9-1/2 hrs 41 runs

3870 BLTR

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks  
ASSISTANT DIRECTOR

August 14, 2003

Ms. Joy Torgerson  
Nance Petroleum Corp.  
P. O. Box 7168  
Billings, MT 59103

RE: Basic Game & Fish 34-3  
SW SW 2-153N-101W  
McKenzie Co.,  
Baker Field  
Well File #11745

Dear Ms. Torgerson:

The application of Nance Petroleum Corp. for a Stripper Well Property determination was received August 8, 2003. The application requests that the Industrial Commission determine the following described tract of land in McKenzie County, North Dakota, to be a Stripper Well Property:

T153N, R101W  
Section 2 Well File #11745

Information contained in the application indicates that the land described above is a property pursuant to Section 57-51.1-01(3) North Dakota Century Code (NDCC). Further, during the twelve consecutive months qualifying period June 2001 thru May 2002. The well did not produce at a maximum efficient rate. The well was down for 10% of the qualifying period.

It is therefore determined that the lands described above do not qualify as a Stripper Well Property pursuant to Section 57-51.1-01 NDCC. **The application is hereby denied.**

The Commission shall have continuing jurisdiction, and shall have the authority to review the matter, and to amend or rescind the determination if such action is supported by additional or newly discovered information. If there are any questions, please do not hesitate to contact this office.

Sincerely,

  
James R. Legerski

Sr. Petroleum Engineer

JL/db  
cc: Tax Dept.

**NORTH DAKOTA INDUSTRIAL COMMISSION**  
**OIL AND GAS DIVISION**

11745

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

August 1, 2003

Bruce E. Hicks  
ASSISTANT DIRECTOR

Ms. Joy Torgerson  
Nance Petroleum Corp.  
P. O. Box 7168  
Billings, MT 59103

RE: Basic Game & Fish 34-3  
SW SW 2-153N-101W  
McKenzie Co.  
Baker Field  
Well File #11745

Dear Ms. Torgerson:

The application of Nance Petroleum Corp. for a Stripper Well Property determination was received July 28, 2003. The application requests that the Industrial Commission determine the following well in McKenzie County, North Dakota, to be a Stripper Well Property:

T153N, R101W  
Section 2 Well File #11745

Information contained in the application indicates that the land described above is a property pursuant to Section 57-51.1-01(3) North Dakota Century Code (NDCC). However, during the twelve consecutive months qualifying period March 2001 thru February 2002. The average daily production from the well, exceeds the maximum allowable production for stripper well status.

It is therefore determined that the lands described above do not qualify as a Stripper Well Property pursuant to Section 57-51.1-01 NDCC. **The application is hereby denied.**

The Commission shall have continuing jurisdiction, and shall have the authority to review the matter, and to amend or rescind the determination if such action is supported by additional or newly discovered information. If there are any questions, please do not hesitate to contact this office.

Sincerely,

  
James R. Legerski  
Sr. Petroleum Engineer

JL/db  
cc: Tax Dept.



**CORE AND SAMPLE VERIFICATION  
NORTH DAKOTA GEOLOGICAL SURVEY  
SFN 17300 (1-90)**

SFN 17300 (1-90)

11745

Name of operator: Nance Petroleum		Date: 06/10/2003
Address:	City:	State:
The cores/samples for the following well have been received by the North Dakota Geological Survey.		
Well name: Basic Game & Fish 34-3H	Location swws 2-153-101	NDGS Well Number: 11745.0
Comments: Samples Received: 9030	- 12800	DC
--		
--		
--		
--		
--		
1		
Received by: 	M. J. Hartman	

Received by

Kert Hollands

**Signature**

Print Name

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks  
ASSISTANT DIRECTOR

April 14, 2003

Mr. Gary Evertz  
Nance Petroleum  
P.O. Box 7168  
Billings, MT 59103-7168

RE: Well Log Requirements  
Basic Game & Fish #34-3  
SW SW Sec. 2-153N-101W  
McKenzie County  
Well File No. 11745

Dear Mr. Evertz:

Our office has not received the digital .tif formatted file for the Drill Time-Sample-Mud Log Lateral #1, Sidetrack #1, and the Sidetrack #2.

The North Dakota Administrative Code Section 43-02-03-31 requires that all logs run by the operator shall be submitted as one paper copy and one electronic formatted file. All image logs, which include the Drill Time-Sample-Mud Log, must be submitted as \*.tif formatted files.

The Oil and Gas Division is aware that not all operators or contractors can generate electronic image logs as \*.tif formatted files. In an effort to assist the Operator to comply with the North Dakota Administrative Code, the NDIC Oil and Gas Division is providing a low cost option. In lieu of the Operator submitting one paper copy and one digital \*.tif formatted file for all image logs run on each well, you may submit two paper copies along with a \$25.00 scanning fee for each log to be scanned. In return, the Operator will receive an electronic copy of each log scanned as a TIF(\*.tif) formatted file on a CD-ROM.

If you choose to have the NDIC Oil and Gas Division create the electronic file, I have included a Request for Well Scanning Form for your convenience.

If you have any questions, please contact me at (701) 328-8020.

Sincerely,



Evie Roberson  
Office Assistant



## SUNDY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFSN 5749 (07-2000)

Well File No.

11745

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND THREE COPIES.

<input type="checkbox"/> Notice of Intent	Approximate Start Date	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input checked="" type="checkbox"/> Report of Work Done	Date Work Completed <b>January 7, 2003</b>	<input checked="" type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input type="checkbox"/> Casing or Liner	<input checked="" type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input checked="" type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other	<b>Drilled lateral leg in Nesson</b>

Well Name and Number <b>BAS IC GAME &amp; FISH 34-3</b>	Footage	Qtr-Qtr	Section	Township	Range	
	392 F S L	494 F W L	SWSW	2	153 N	101 W
Field		Pool		County		
<b>BAKER</b>		<b>MADISON</b>		<b>McKENZIE</b>		

24-HOUR PRODUCTION RATE					
	Before			After	
Oil	21	Bbls	Oil	222	Bbls
Water	5	Bbls	Water	116	Bbls
Gas		MCF	Gas	78	MCF

Name of Contractor(s) <b>BAKER HUGHES INTEQ, J&amp;R WELL SERVICE, HALLIBURTON, KEY WELL SERVICE</b>			
Address	City	State	Zip Code

### DETAILS OF WORK

MIR J service rig 10/24/02. POOH w/ pump and rods. POOH w/ tbg. Ran bit and scraper to 9343', POOH. Ran casing inspection log, no csg problems. RDMO 10/28/02.

MIR J lateral-hole drilling rig 11/1/02. Cut window at 9022' and drilled lateral leg to 9530'. Angle too severe, pulled back to 9460' and started sidetrack #1 (spur #1 9460-9530'). Drilled lateral leg to 11690'. Drilled out of zone, pulled back to 11390' and started sidetrack #2 (spur #2 11390-11690'). Drilled to 12800' TD, 9120.68' TVD, 90.8°, azimuth 290.°. Acidized open hole section w/ 7500 gal 15% HCl in five stages, pulling tbg ± 900' between each stage. Flushed tbg and annulus w/ water. Set RBP 6000'. RDMO rig 11/24/02. Drilling summary: KOP 9022', Nesson top 9350' MD, 9120' TVD, length of Nesson lateral 3450' (9350-12800'), first 90° survey 9450' MD, 4414 BLTR.

MIR J completion rig 11/25/02. TIH, retrieved RBP, POOH. TIH w/ pkr, swabbed five days. POOH w/ pkr, ran tbg for production, TAC 6017', SN 6016', EOT 6057'. Ran 2 1/4" barrel pump plunger and rods. RDMO service rig 12/6/02. Set pumping unit, put well on production 12/12/02.

MIR J service rig 1/7/03. POOH w/ pump and rods, POOH w/ tbg. Ran re-designed tubing BHA, TAC 8061', SN 8022', EOT 8096'. Ran 1 3/4" pump and rods. RDMO service rig.

Returned well to production 1/10/03. 10-day avg 1/21/03: 222 bopd, 116 bwpd, 78 mcf/d.

Company <b>NANCE PETROLEUM CORPORATION</b>	Telephone Number <b>(406)245-6248</b>	
Address <b>P. O. BOX 7168</b>		
City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>
Signature 	Printed Name <b>John Steele</b>	
Title <b>Operations Engineer</b>	Date <b>January 23, 2003</b>	

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date <b>JAN 30 2003</b>	
By 	
Title <b>Horizontal Drilling Supervisor</b>	

**NANCE PETROLEUM CORPORATION**

**WELL: BASIC GAME & FISH 34-3 FIELD: BAKER**

2960'	9 5/8"	LOCATION: SURF:SWSW SEC 2 153N 101W, MCKENZIE CO, ND 392' FSL & 494' FWL BH @ TD:SESE SEC 3 153N 1(STATUS: PUMPING OIL WELL 543' FSL &655' FEL	
3450'	TOP OF CMT	ELEVATION: GL - 1850' KB - 1872' ACCTG NO. 60102 SPUD DATE: 10/16/85	ST FILE NO: 11745 API# 33-053-02102 COMP DATE: 2/3/86
4034'	ORIGINAL KICK-OFF PT.	ROTARY TD: 9596' TVD, 9716' TMD  SURF CSG: 9 5/8" 36# K-55 SET @ 2960'. CMT W/ 1100 SX.  PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702'. CMT Cmt 2 stage, DV 8092'. 1st: 430 sk G+35% sf+10% salt, 2nd: 900 sk Lite+10% salt.	PBTD: 9581' MD
		TUBING & BHA	RODS & PUMP
8022'	SN	255 jt 2 7/8" L-80 tubing MSN w/ 1 1/4" x 20' diptube - 8022' 6' perforated sub 1 jt 2 7/8" tubing 5 1/2" Basin TAC w/20M#FT - 8061' 1 jt 2 7/8" tubing bull plug - EOT 8096'	1 1/2" x 30' polish rod (30') 1" x 4',6',8' pony rods (18') 92 - 1" Norris 97 rods (2300') 95 - 7/8" Norris 97 rods (2375') 108 - 3/4" Norris 97 rods (2650') 2 - 1" Norris 97 (50') 22 - 1" scrprd Norris 90 (550') 2 1/2" x 1 3/4" x 20' RHBM pump w/ 5' plngr, single valve
8061'	AC	SALT DEPTH DUNHAM 6644-6712 PINE 7035-7100 CHARLES 8275-9004	
8092'	DV COLLAR		5 1/2" SET @
8096'	EOT		23# TC80HC 45
		WELLHEAD: CSGHD 9 5/8" X 11" 3000 C22, 23# TC80HC TBG HD 7 1/16" 5000.	17# L-80 6624
8392'	ORIGINAL MAX ANGLE		20# L-80 6803
	16 DEG.	PUMP UNIT: LUFKIN C456D-365-120 W/ E-42 AJAX MOTOR	20# L-80 7013
			23# TC80HC 7188
			20# L-80 8251
			23# TC80HC 9099
			20# L-80 9702
8998'	BLS	PERFS: NESSON 9234-54' 4 SPF	
9022'	KOP	Spur#1: 9460-9530'	Spur#2: 11390-11690'
		4 1/2" HOLE	
		4 1/2" open hole NESSON lateral leg 9120-9130' TVD 9022-12800'	12800' TMD
9034'	PKR	Nesson top: 9350' MD	
9134-54'	=	27°/100' BUILD RATE TO 90° AZIMUTH 290°	3450' Nesson lateral 9350-12800'
	=	NESSON PERFS 12 DEG DEV.	TD: 12800' MD 90.8 deg
9346'		PINNED COLLAR	TVD 9120.68
9529'	PBTD	PREPARED BY: GARY L EVERETZ	DATE: 01/10/03 BASIC343H.XLS
9702'	*****	5 1/2" Updated by: John Steele	
	*****	DIIRECTIONAL WELL TMD - 9716', TVD - 9596'	
		MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.	



# WELL COMPLETION OR RECOMPLETION REPORT - FORM 6

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 246B (03-2000)

Well File No.  
**11745**



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND THREE COPIES.

Designate Type of Completion				Well Name and Number
<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	<input type="checkbox"/> Recompletion	<input type="checkbox"/> SWD Well	<b>Basic Game &amp; Fish 34-3</b>
<input type="checkbox"/> EOR Well	<input type="checkbox"/> Deepened Well	<input type="checkbox"/> Water Supply Well	Spacing Unit Description	
<input type="checkbox"/> Other:				
Operator <b>Exxon Petroleum Corporation</b>		Telephone Number <b>(406) 245-6248</b>		Field <b>Baker Field</b>
Address <b>PO Box 7168</b>				Pool <b>Madison</b>
City <b>Billings</b>		State <b>MT</b>	Zip Code <b>59103</b>	Permit Type <input type="checkbox"/> Wildcat <input type="checkbox"/> Development <input type="checkbox"/> Extension

## LOCATION OF WELL

At Surface <b>392 F S L</b>		Qtr-Qtr <b>sw sw</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKenzie</b>
At Top Producing Interval, Reported Below <b>F L</b>		Qtr-Qtr	Section	Township <b>N</b>	Range <b>W</b>	Number of DSTs Run (See Back) <b>none (this drlg)</b>
At Total Depth <b>1974 F S L</b>		Qtr-Qtr <b>ne sw</b>	Section <b>3</b>	Township <b>153 N</b>	Range <b>101 W</b>	Directional Survey Run? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Spud Date <b>cut-off window 11/5/02</b>	Date TD Reached <b>November 21, 2002</b>	Drilling Contractor and Rig Number <b>J &amp; R Well Service Rig # 7</b>			KB Elevation <b>1872</b>	Total Depth (Feet) <b>12800 MD</b> <b>9120 TVD</b>
Producing Interval(s), This Completion, Top, Bottom, Name (MD and TVD) <b>Neck on lateral: 9350' to 12800' MD, 9120-9135' TVD</b>					Plug Back TD (Feet) (See Back) <b>12800 MD</b> <b>9120 TVD</b>	
Type of Electric and Other Logs Run (See Instructions) <b>non - this time</b>			Was Well Cored?		<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	List Intervals:

## CASING RECORD (Report all strings set in well)

Casing Size (Inches)	Measured Depth Set (Feet)	Hole Size (Inches)	Weight (Lbs/Ft)	Sacks Cement	Top of Cement
<b>9 5/8</b>	<b>2960</b>	<b>12 1/4</b>	<b>36</b>	<b>1100</b>	<b>surface</b>
<b>5 1/2</b>	<b>9702</b>	<b>8 3/4</b>	<b>17-23</b>	<b>1330</b>	<b>3450</b>

## LINER RECORD

## TUBING RECORD

Line Size (Inches)	Hole Size (Inches)	Top (MD) (Feet)	Bottom (MD) (Feet)	Sacks Cement	Size (Inches)	Depth Set (MD) (Ft)	Anchor Set (MD) (Ft)	Packer Set (MD) (Ft)
					<b>2 7/8</b>	<b>8096</b>	<b>8061</b>	

## PERFORATION RECORD

Interval (MD)	Holes Per Foot	Potential (Oil/Water)	Acid, Frac, Szg, Etc.	Amount and Kind of Material Used
<b>90 1/2-12800 open hole</b>		<b>no perfs</b>		
<b>Neck on: 9350-12800</b>				

## PRODUCTION

Date of First Production Through Permanent Wellhead <b>December 12, 2002</b>	Producing Method (Flowing, Gas Lift, Pumping - Size & Type of Pump) <b>Pumping</b>		Well Status (Producing or Shut-In) <b>Producing</b>		
Date of Test <b>January 21, 2003</b>	Hours Tested <b>240</b>	Choke Size	Production for Test	Oil (Bbls) <b>2220</b>	Gas (MCF) <b>780</b>
Flowing Tubing Pressure (PSI)	Casing Pressure (PSI)	Calculated 24-Hour Rate	Oil (Bbls) <b>222</b>	Gas (MCF) <b>78</b>	Water (Bbls) <b>116</b>
Test Witnessed By <b>Dan's Production</b>	Oil Purchaser <b>Tesoro</b>	Oil Transporter <b>Diamond B Trucking</b>	Gas-Oil Ratio <b>351</b>		
			Disposition of Gas <b>Bear Paw</b>		

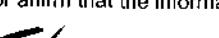
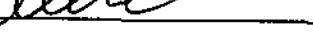
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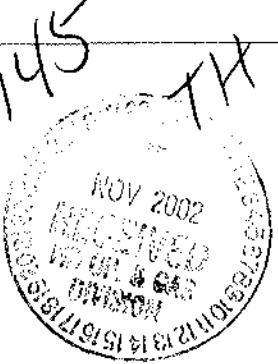
## **GEOLOGICAL MARKERS**

## **PLUG BACK INFORMATION**

**DRII L STEM TEST DATA, ADDITIONAL INFORMATION, AND/OR LIST OF ATTACHMENTS**

No I STs nor logs were run on the lateral section. See attached Geologist's Report and Directional Drilling Report. Also attached are a wellbore schematic and ND Form 4 sundry notice.

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.		Date
	Printed Name <b>John Steele</b>	Title <b>Operations Engineer</b>
Above Signature Witnessed By		
	Witness Printed Name <b>Loren Prigan</b>	Witness Title <b>Production Assistant</b>



## Nance Petroleum Corporation

### Basic Game & Fish 34-3H

392' FSL & 494' FWL

SW SW Section 2, T153N, R101W

Baker Field

McKenzie County, North Dakota

**BOTTOM HOLE LOCATION:** Lateral #1  
237.55' North & 1,388.06' West of surface location  
Approx. 629.55' FSL, 894.06' FWL SE SE Sec. 3

**BOTTOM HOLE LOCATION:** Sidetrack #1  
970.22' North & 3,406.95' West of surface location  
Approx. 1,362' FSL, 2,371' FWL NE SW Sec. 3

**BOTTOM HOLE LOCATION:** Sidetrack #2  
1,582.72' North & 4,338.8' West of surface location  
Approx. 1,975' FSL, 1,439' FWL NE SW Sec. 3

Prepared by:

Wayne Freisatz  
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c/o Sunburst Consulting  
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## WELL EVALUATION

### GENERAL

The Nance Petroleum Corporation Basic Game & Fish 34-3H was designed as a horizontal development well for the Nesson member of the Mississippian Mission Canyon Formation within the Baker Field. Baker Field is located in the U.S. portion of the Williston Basin, in McKenzie County, North Dakota. The original Basic Game & Fish 34-3 was drilled directionally (due to surface restrictions on the Missouri River floodplain) by Basic Earth Science Systems, Inc. in late 1985, reaching total depth in the Mission Canyon Formation (Mississippian in age), below the Nesson zone. A string of 5.5" production casing was run to total depth after electric logging, and the Nesson zone was perforated and completed.

The original Game & Fish 34-3 was completed for 98 BOPD, 0 BWPD and 64 MCF gas per day. More recently, Nance Petroleum Corp acquired the well. Recent production from the Basic Game & Fish 34-3 was 23 BOPD and 6 BWPD. The well has produced 224,525 BO, 107,142 MCFG and 6,623 BW through mid 2002.

Nance re-entered the Basic Game & Fish 34-3 and milled a window for sidetracking operations in November 2002. The horizontal leg is referred to as 34-3H.

The four primary offset wells used for correlation while drilling the Basic Game & Fish 34-3H are:

- 1) the original open hole logs from the Basic Earth Science Systems, Inc. Basic Game & Fish 34-3 (now owned by Nance Petroleum Corp.), with the surface location 392' FSL & 494' FWL in the SW SW Section 2, T153N, R101W, McKenzie Co., N.D.
- 2) the John L. Cox (now owned by Nance Petroleum Corp.) French-Pinney #24-3, located 660' FSL & 1,955' FWL in the SE SW Section 3, T153N, R101W, McKenzie Co., N.D. The French-Pinney was drilled in 1987 and completed in the Red River Formation (Ordovician in age). The French-Pinney IP'd for 276 BOPD, 486 MCFG, and 0 BWPD, and has produced over 401,537 BO, 718,456 MCFG, and 193,009 BW.
- 3) the Nance Petroleum Corp. M&G #14-2 (originally drilled by John L. Cox in 1987 as the Basic Game & Fish #14-2). The M&G surface location is on the same pad as the Basic Game & Fish 34-3, spotted at 559' FSL & 573' FWL in the SW SW Section 2, T153N, R101W,

**Sidetrack #1** was initiated at 9,460' MD off of Lateral #1. Sidetrack #1 proceeded in zone, in the upper Nesson porosity, until drilling out of the top of the target around 11,620' MD. The decision was made to pull back and sidetrack "in zone", rather than waste the time and footage to drill back down to the target. Part of the difficulty with recovering from drilling out the top of the Nesson is the poor "drill-ability" of the overlying basal Midale argillaceous marker. "Sliding" (or directionally orienting the well path) becomes very slow and unproductive. Steering is much more effective within the Nesson porosity itself. The Sidetrack #1 was terminated at 11,680' MD, at a position of 970.22' North & 3,406.95' West of the surface location. This calculates to a point approximately 1,362' FSL & 2,371' FWL in the NE SW of Section 3.

**Sidetrack #2** was initiated around 11,400' MD off of Sidetrack #1. Sidetrack #2 proceeded "in zone" in the Nesson porosity, but initially at a deeper stratigraphic horizon than Sidetrack #1. The early portion of Sidetrack #2 explored the lower 10' of the 15' gross Nesson porosity. A trip for a new bit was made at 12,040' MD in Sidetrack #2. Drilling of Sidetrack #2 proceeded after the bit trip mostly in the upper Nesson porosity until several factors necessitated the termination of the drilling. These factors included the approaching legal "hardline setback", dead MWD batteries and the penetration of the top the Nesson into the overlying basal Midale argillaceous marker. Sidetrack #2 reached total depth at 12,800' MD. The Bottom Hole Location [BHL] at total depth in Sidetrack #2 was 1,582.72' North & 4,338.8' West of the surface location, at approximately 1,975' FSL & 1,439' FWL in the NE SW of Section 3.

Re-entry and horizontal drilling of the Basic Game & Fish #34-3H took 21 days and ~206 rotating hours. A total of 3,986.35 barrels of water were lost during drilling. The Nesson laterals were left uncased for an acid stimulation and horizontal completion.

## **GEOLOGIC EVALUATION**

The geologic evaluation of the Basic Game & Fish #34-3H began at the window milling operation, stratigraphically above the top of the Ratcliffe member of the Charles Formation (Mississippian in age), at 9,038' MD. Sunburst Consulting provided well site geologists and a digital data gathering system. The digital gas information was augmented by the use of a digital gas chromatograph. Drilling rig data (including ROP [Rate of Penetration], on-off bottom status, and mud pump strokes) was received through a digital connection to the rig EDR [Electronic Data Recorder]. The Sunburst gas detection readings were returned for display and monitoring to the rig EDR. Engineering and geologic data were then compiled and distributed on a digital drafting and Internet communications system.

## **BUILD CURVE & LATERAL**

After milling the window in the pre-existing 5.5" casing the directional portion of the Basic Game & Fish #34-3H began. The KOP for the lateral was at 9,038' MD, just above the top of the Ratcliffe zone of the lower Charles Formation (below the Base Last Salt).

The Ratcliffe was encountered at 9,078' MD, 8,970' TVD, (-7107'). There was a significant hydrocarbon show identified within the Ratcliffe interval between 9,114' and 9,124' MD. Gas peaked at 243 units [1% methane in air = 100 units] with large "heavy gas" components (C3's & C4s). Elevated background gas levels and large connection and downtime gas spikes were recorded for the balance of the drilling of the Basic Game & Fish #34-3H that are attributed (at least in part) to this zone. Samples recovered from this Ratcliffe show interval included Limestone: light to occasional medium brown, tan, very fine crystalline, occasional peloidal, occasional spotty black oil stain, dull green fluorescence, slow streaming cut in part, poor to very poor intercrystalline and interparticle porosity, occasionally anhydritic. These shows were considered exceptional for the Ratcliffe interval in this area, and warrant further investigation.

The Midale interval (also a member of the Charles Formation) was topped at 9,189' MD, 9,056' TVD, (-7193'). There were only trace sample shows observed within the Midale, with no significant gas increases over the high Ratcliffe background.

The top of the Mission Canyon Formation (Nesson zone) was reached at 9,350' MD, 9,127.9' TVD (-7264.9') in the curve building portion of the lateral. Samples from the initial contact with the Nesson porosity contained Limestone: tan, cream, very fine crystalline, fragmental, occasionally peloidal, spotty black oil stain in vugs, yellow fluorescence in part, slow streaming cut in part, very poor interparticle and small pin point vuggy porosity, occasional white to clear anhydrite & calcite crystals. Surface oil (free oil on the samples) was observed, probably coming from produced oil in the drilling fluid (mud). A trip gas spike of 1,802 units was recorded when the steerable assembly was tripped into the hole at 9,475' MD. Due to an unexpectedly aggressive angle build in the last portion of the curve build, the top of the Nesson was once again encountered at 9,521' MD, 9,127' TVD as the well path moved back up stratigraphically.

## SIDETRACK #1

Sidetrack #1 was initiated to avoid the sharp upward climb of the end of Lateral #1. Sidetrack #1 remained predominately within the top 5' of the Nesson porosity, and oscillating between the top of the Nesson and the relative "hard streak" delineating the base of the uppermost 3.5' to 5' (stratigraphically) of the Nesson porosity. The well path did traverse up into the base of the Midale on two occasions, but it was possible to steer back down into the targeted Nesson porosity. A tabulation of the encounters with the top of the Nesson / base of the Midale and with the "hard streak" 3.5-5' down from the top of the Nesson is presented in the table "Dip Estimates". Some of the recorded events are based on Gamma Ray markers, while others (generally the "hard streak") are interpreted from drill rate and natural inflections of the well path. Samples from the upper Nesson porosity were generally limestone: tan, cream, very fine crystalline, fragmental, occasional peloidal, spotty black oil stain in vugs, yellow fluorescence, slow to fast streaming cut in part, very poor interparticle and pin point vuggy porosity, with some white to clear anhydrite and calcite crystals.

One portion of Sidetrack #1 that exhibited higher gas readings was noted between 11,315' MD and 11,355' MD. Drillers noted torque and bit bound around 11,370' MD that may indicate a fractured interval. Gas background levels and the size of the connection gas and downtime gas spikes was greater following the events at 11,315' MD to 11,355' MD and 11,370' MD. Sidetrack #1 was terminated when the base of the Midale argillaceous zone was penetrated at a steep up angle.

## SIDETRACK #2

Sidetrack #2 was started off of Sidetrack #1 to avoid the encounter with the "tough drilling" basal Midale. Sidetrack #2 took off from Sidetrack #1 below the 3.5' to 5' "hard streak" and the first portion of Sidetrack #2 was drilled in the lower 10' to 12' stratigraphically of the Nesson porosity. Gas readings were generally higher up to 11,700' MD than the balance of the drilling of Sidetrack #2. This would seem to indicate that the shows were better in the lower portion of the Nesson porosity as we reached out beyond 3,500' Vertical Section [VS] from the surface location. After tripping for a fresh bit at 12,040' MD, the well path was returned to the uppermost 3.5' to 5' of the Nesson. Free oil was noted coming over the shale shaker screens following the bit trip (associated with the trip gas). Samples recovered from Sidetrack #2 were generally similar to those described above for Sidetrack #1, but becoming progressively smaller in size (milled up by the drill pipe while passing through the lateral portion of the hole) and increasingly coated with free oil from the mud system. Some samples were little more than an oily paste. In Sidetrack #2, one short excursion into the overlying basal Midale was experienced and another close encounter (without drilling all the way out of the Nesson) was likely. Gas readings did depress somewhat with these "out of porosity" encounters. Interpreted and Gamma Ray - documented top and bottom of zone events are included in this report in a table that addresses "Dip Estimates".

Sidetrack #2 was terminated when the legal "hardline setback" was approached, the MWD batteries failed, and the basal Midale argillaceous marker was penetrated, all at approximately the same time.

## DIP ESTIMATES

Average formation dips were calculated using the multiple contact points with known (or suspected) equivalent stratigraphic markers. The estimates are "straight line" extrapolations, but serve to give an approximate average dip. The large variation in the dip estimates may be due to drilling the lateral along the edge of the structure, or minor short term variations in the dip.

### Dip Estimates

Marker	MD	TVD	Vsec	TVD diff.	Vsec diff.	Dip	Dipping up/down	Hit Marker Going	Comment
Top of Nesson *	9350.00	9127.90	1220.00	-	-	-	-	down	Lateral #1
Top of Nesson	9521.00	9127.00	1388.80	-0.90	168.80	0.31	up	up	Lateral #1
Top of Nesson *	9785.00	9127.10	1653.00	0.10	264.20	-0.02	flat	up	Sidetrack #1
Top of Nesson *	9840.00	9127.20	1707.90	0.10	54.90	-0.10	down	down	Sidetrack #1
Top of Nesson	10280.00	9121.10	2146.80	-6.10	438.90	0.80	up	up	Sidetrack #1
Top of Nesson	10400.00	9120.70	2266.40	-0.40	119.60	0.19	up	down	Sidetrack #1
Top of Nesson *	10800.00	9121.75	2665.80	1.05	399.40	-0.15	down	up	Sidetrack #1
Top of Nesson *	11006.00	9122.20	2870.90	0.45	205.10	-0.13	down	down	Sidetrack #1
Top of Nesson *	11236.00	9123.20	3099.90	1.00	229.00	-0.25	down	up	Sidetrack #1
Top of Nesson *	11280.00	9125.00	3143.80	1.80	43.90	-2.35	down	down	Sidetrack #1
Top of Nesson *	11620.00	9119.50	3482.40	-5.50	338.60	0.93	up	up	Sidetrack #1
Top of Nesson *	12188.00	9120.60	4016.40	1.10	534.00	-0.12	down	up	Sidetrack #2
Top of Nesson *	12307.00	9121.25	4127.50	0.65	111.10	-0.34	down	down	Sidetrack #2
Top of Nesson	12515.00	9120.50	4327.75	-0.75	200.25	0.21	up	up	Sidetrack #2
Top of Nesson	12755.00	9121.30	4566.10	0.80	238.35	-0.19	down	up	Sidetrack #2
Base of top porosity	9380.00	9133.10	1249.50	-	-	-	-	down	Lateral #1
Base of top porosity	9487.00	9132.30	1355.50	-0.80	106.00	0.43	up	up	Lateral #1
Base of top porosity	9556.00	9131.80	1424.40	-0.50	68.90	0.42	up	up	Sidetrack #1
Base of top porosity	9900.00	9129.70	1767.80	-2.10	343.40	0.35	up	down	Sidetrack #1
Base of top porosity	10000.00	9128.70	1867.70	-1.00	99.90	0.57	up	up	Sidetrack #1
Base of top porosity	10630.00	9124.40	2496.10	-4.30	628.40	0.39	up	down	Sidetrack #1
Base of top porosity	10730.00	9123.70	2596.00	-0.70	99.90	0.40	up	up	Sidetrack #1
Base Nesson *	11710.00	9136.80	3566.80	-	-	-	-	down	Sidetrack #2
Base Nesson *	11778.00	9136.60	3632.30	-0.20	65.50	0.17	up	up	Sidetrack #2

## SUMMARY

The Basic Game & Fish #34-3H was successfully steered to a horizontal penetration of the Nesson zone of the Mission Canyon Formation. The lateral exposed a net 3,800' following the initial penetrations of the top of the Nesson. The vast majority lateral is interpreted to have been drilled within the Nesson, in or stratigraphically near the Nesson "porosity". The Basic Game & Fish #34-3H required 21 drilling days or approximately 206 drilling hours. The drilling operation generally went smoothly, with few delays or problems. General sample quality (e.g. How representative were the samples recovered ?) was rated as fair to poor due to very fine cuttings size out in the lateral. The show quality in the lateral was fair to good, with obvious oil staining and visible open porosity.

## CONCLUSIONS

- 1) A window was milled in the original 5.5" casing for directional sidetracking.
- 2) A significant show was encountered in the Ratcliffe, which persistently produced gas during the drilling of the well.
- 3) The Nance Basic Game & Fish #34-3H was successfully steered to a horizontal trajectory in the targeted Nesson zone of the Mission Canyon Formation. Two open hole sidetracks were performed to keep the well path in the target zone.
- 4) There were 3,800' measured depth feet drilled in the lateral following the initial penetration of the Nesson. Of the total footage drilled after initial penetration of the Nesson target 3,249' (or 85.5%) were drilled in or very near the targeted porosity streak, 68' (or 1.8%) were drilled just below the target streak, and 483' (or 12.7%) were drilled just above the ideal target.
- 5) Sample show and visual porosity estimates indicated fair to good hydrocarbon production potential for the lateral. Fluid losses and free oil in the mud and on the samples also indicate permeability and movable oil phase.
- 6) The Nance Basic Game & Fish #34-3H awaits open hole completion in the Nesson lateral following an acid stimulation with the drilling rig after TD.

Respectfully submitted,

*Wayne Freisatz*  
Sunburst Consulting

## WELL DATA SUMMARY

OPERATOR: Nance Petroleum Corporation

ADDRESS: P.O. Box 7168, 550 N. 31st St., Ste. #500  
Billings, Montana 59101  
(406) 245-6248

WELL NAME: Basic Game & Fish 34-3H

API#: 33-053-02102

SURFACE LOCATION: 392' FSL & 494' FWL  
SW SW Section 2, T153N, R101W

BOTTOM HOLE LOCATION:

Lateral #1 237.55' North & 1,388.06' West of surface location  
Approx. 629.55' FSL, 894.06' FEL SE SE Sec. 3

Sidetrack #1 970.22' North & 3,406.95' West of surface location  
Approx. 1,362' FSL, 2,371' FWL NE SW Sec. 3

Sidetrack #2 1,582.72' North & 4,338.6' West of surface location  
Approx. 1,975' FSL, 1,439' FWL NE SW Sec. 3

FIELD: Baker Field

COUNTY, STATE: McKenzie County, North Dakota

BASIN: Williston

WELL TYPE: Horizontal Nesson (Mission Canyon)

BASIS OF PROSPECT: Well Control, Accelerate Production, Add Reserves

ELEVATION: SUB: 13'  
GL: 1,850'  
KB: 1,863'

RE-ENTRY DATE: 11/2/02

TOTAL DEPTH / DATE: Lateral # 1: 9,530' MD, 14:35 CST on 11/09/02  
Sidetrack #1: 11,680' MD, 09:35 CST on 11/15/02  
Sidetrack #2: 12,800' MD, 13:00 CST on 11/20/02

TOTAL DRILLING DAYS: 21

STATUS OF WELL: Open hole completion in Nesson lateral

CONTRACTOR: J & R Well Service Rig #7

TOOLPUSHER: Gordon Lalim, Mike Weidmer

FIELD SUPERVISOR: Les Fredrickson

MUD TYPE: Fresh water

WELLSITE GEOLOGISTS: Wayne Freisatz, Tom Griggs

GEOSTEERING SYSTEM Sunburst Digital Wellsite Geological System

PROSPECT GEOLOGIST: Mike Bryant

ROCK SAMPLING: Lateral: 10' from 9,038' to 9,330'  
30' from 9,330' to 9,530'  
Sidetrack #1 10' from 9,470' to 9,500'  
30' from 9,500' to 11,680'  
Sidetrack #2 30' from 11,390' to 12,800'

CASING: 9.625" 36# K-55 set @ 2,960'  
5.5" 17/20/23# RS-90/L-80 to 9,702'

HOLE SIZE: 4.5" from 9,038' to 9,530' Lateral #1  
4.5" from 9,460' to 11,680' Sidetrack #1  
4.5" from 11,390' to 12,800' Sidetrack #2

DRILL STEM TEST: none

CORE PROGRAM: none

H2S MONITORING: OSI Oilfield Safety Incorporated

MULTI-SHOT: Baker Hughes Inteq  
Jim Gale

WHIPSTOCK: Baker Hughes Inteq - Roger Smith

DIRECTIONAL DRILLERS: Baker Hughes Inteq  
Richard Davis, Tom Tuttle, Jerry Davis

MWD:

Baker Hughes Inteq,  
Gary Cropsey, Jim Gale, Troy Hiesler,  
Wes Clausen, Mike Riley

KEY OFFSET WELLS:

original well:

Basic Earth Science Systems, Inc.  
Basic Game & Fish 34-3  
SW SW Sec. 2, T153N, R101W  
McKenzie Co., N.D., KB: 1,872'  
Drilled 11/95

John L. Cox  
French Pinney #24-3  
SE SW Sec. 3, T153N, R101W  
McKenzie Co., N.D., KB: 1,871'  
Drilled 7/87

**DISTRIBUTION:**

Basic Game &amp; Fish 34-3H

Reports:      Final logs:

Nance Petroleum Corporation

550 N. 31st. St., Ste. 500

P.O. Box 7166

Billings, MT 59101-7168

(406) 245-6248

fax (406) 245-9106

Mike Bryant, Gary Evertz, Pat Salwey

2

2

Palace Exploration Company

3

3

1202 East 33rd. St., Ste. 100

Tulsa, OK 74105

(918) 743-5096

fax (918) 712-8924

Robert M. Zinke, Richard D. Siegal

Hunt Petroleum Corporation

1

2

One Riverway, Ste. 700

Houston, TX 77056

(713) 871-3472

fax (713) 880-8945

Jon Norman

J. Hiram Moore, LTD.

1

1

P.O. Box 910196

Dallas, TX 75391-0196

(915) 682-1681

fax (915) 682-0439

Richard L. Moore

Baytide Petroleum, Inc.

1

2

415 S. Boston, Ste. 500

Tulsa, OK 74103

(918) 585-8150

fax (918) 585-9813

Michael J. Murphy

Zavanna LLC,

2

2

1600 Stout Street, Ste. 560

Denver, CO 80202

(303) 595-8004

fax (303) 595-9847

Bill Coleman, Steve Swanson

Bureau of Land Management

1

2

North Dakota Field Office

2933 Third Ave. West

Dickinson, N.D. 58601-2619

(701) 225-9148

fax (701) 227-8510

Reports:Final logs:

North Dakota Industrial Commission

2

1&amp;digital

Oil &amp; Gas Division

600 East Boulevard Ave.

Bismarck, N.D. 58505

(701) 328-8020

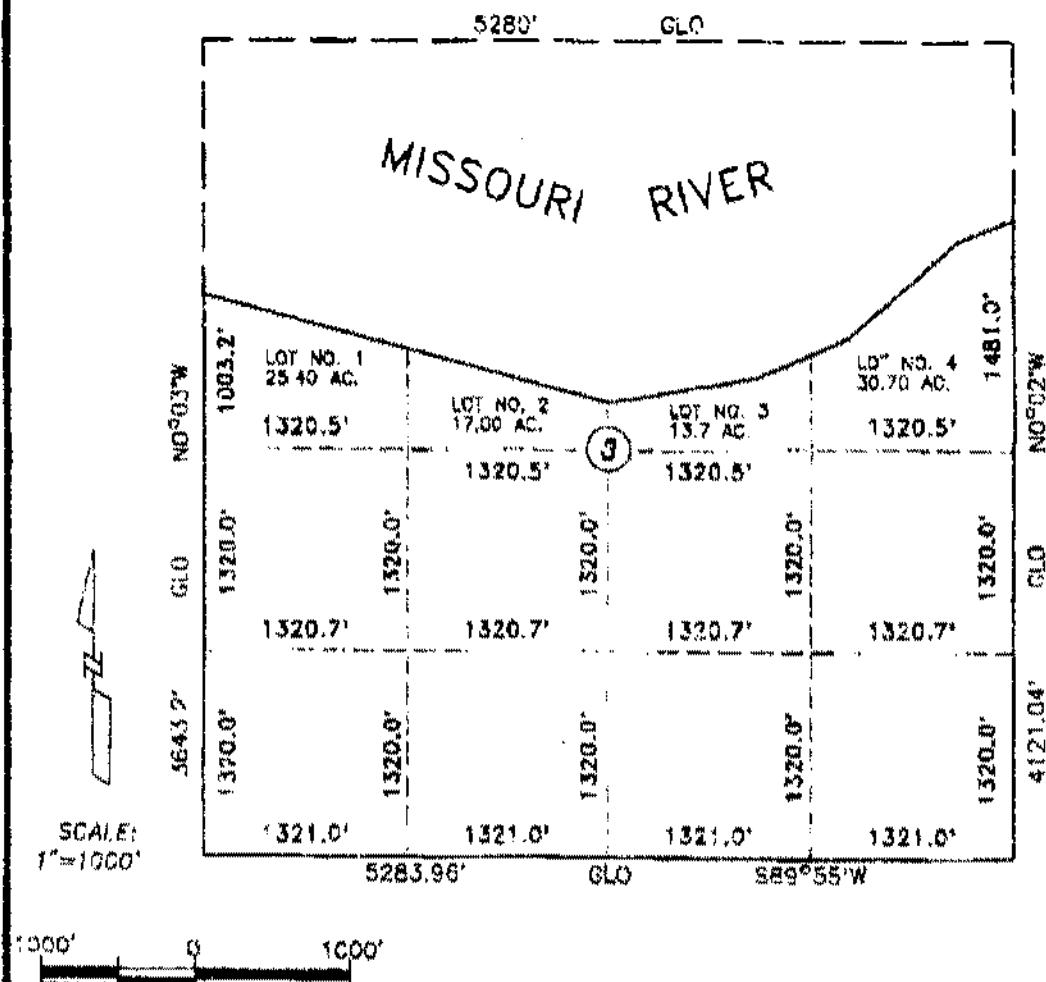
fax (701) 328-8022

**ND NORTH DAKOTA - SUPPLEMENTAL PLAT**

Applicant NANCE PETROLEUM

Well Name & No. BASIC GAME AND FISH 34-3H

Section 3, T 153N, R 101W, 5th. P.M., MCKENZIE County, North Dakota



I HEREBY CERTIFY THAT THIS SUPPLEMENTAL PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NOT A FIELD SURVEY.

GLO INFORMATION DERIVED FROM GLC PLATS DATED MAR. 30, 1901.

**PRELIMINARY**

ND LEO J. MORGAN RLS# 2883 N. DAK.

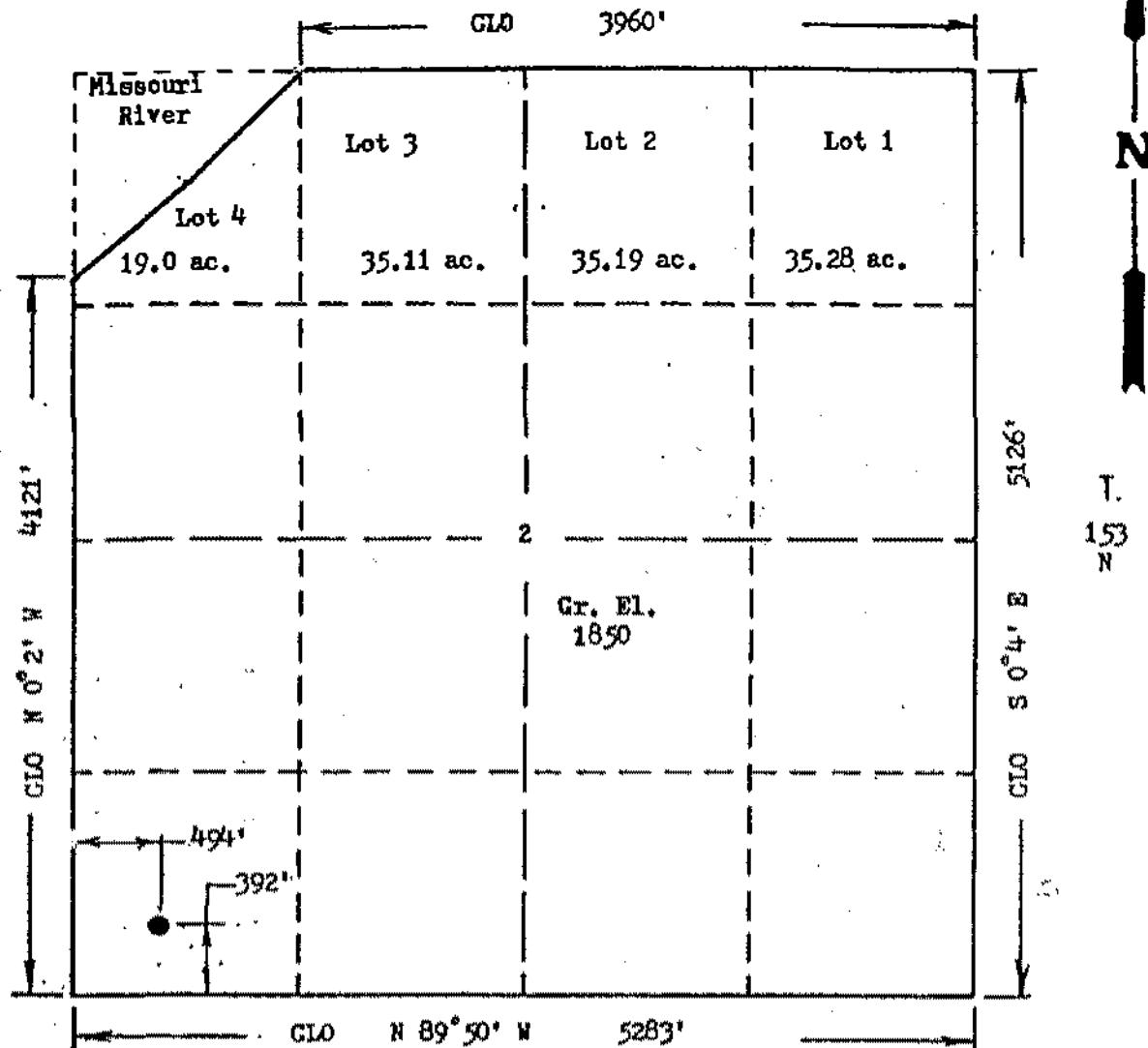
DATE OF PLAT: 09/05/2002

JOB NO. 02-212 DR/VG. NO. 1 OF 1

**AmeriTech Engineering Corporation**  
WILLISTON ND BELFIELD ND

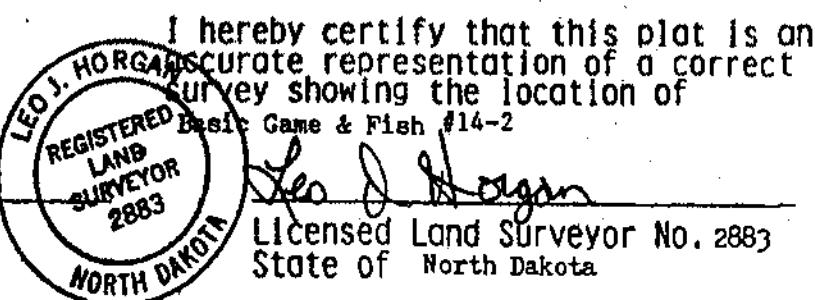
CERTIFICATE OF AUTHORIZATION # C-171

R. 101 W



Scale: 1"=1000'

Powers Elevation of Denver, Colorado has in accordance with a request  
from Tom Hopkins for Basic Earth Science Systems Inc.  
determined the location of Basic Game & Fish #14-2 (34-3).  
to be 392' FS & 494' FW Section 2, Township 153 N  
Range 101 West of the Fifth Principal Meridian,  
McKenzie County, North Dakota



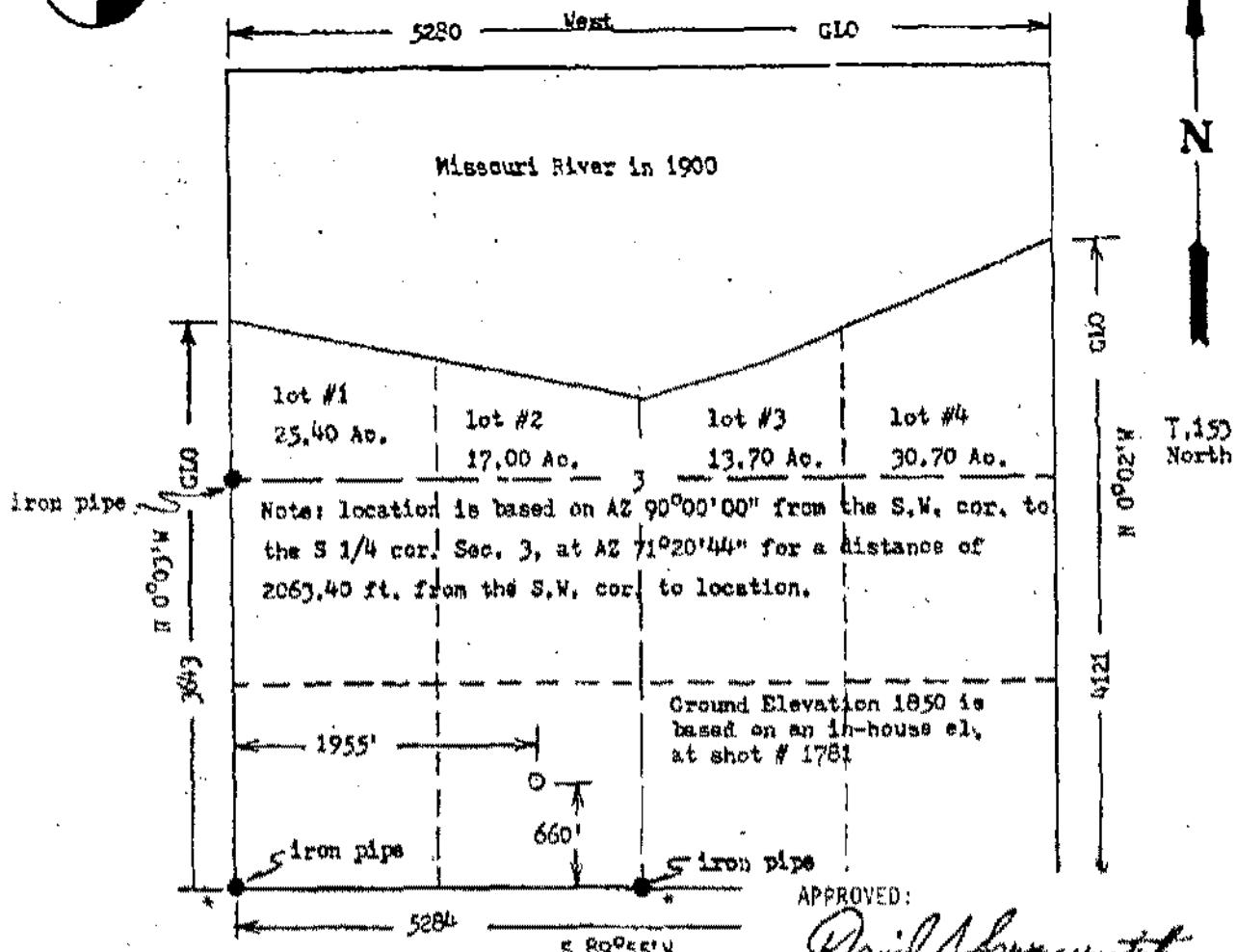
Date: 9-4-84

John L. Cox, French Pinney 24-3 660'fs & 1955'fw Sec. 3 T-153N R-101W McKenzie Co., ND



Form PS-102

R. 101 West



\* Found on earlier survey

Scale: 1"=100'

SWC Water Permit No. 4810

Powers Elevation, Inc. of Denver, Colorado has in accordance with a request from Bill Dolan for John L. Cox determined the location of French Pinney 24-3 to be 660'fs & 1955'fw Section 3, Township 153 North Range 101 West of the fifth principal Meridian, McKenzie County, North Dakota

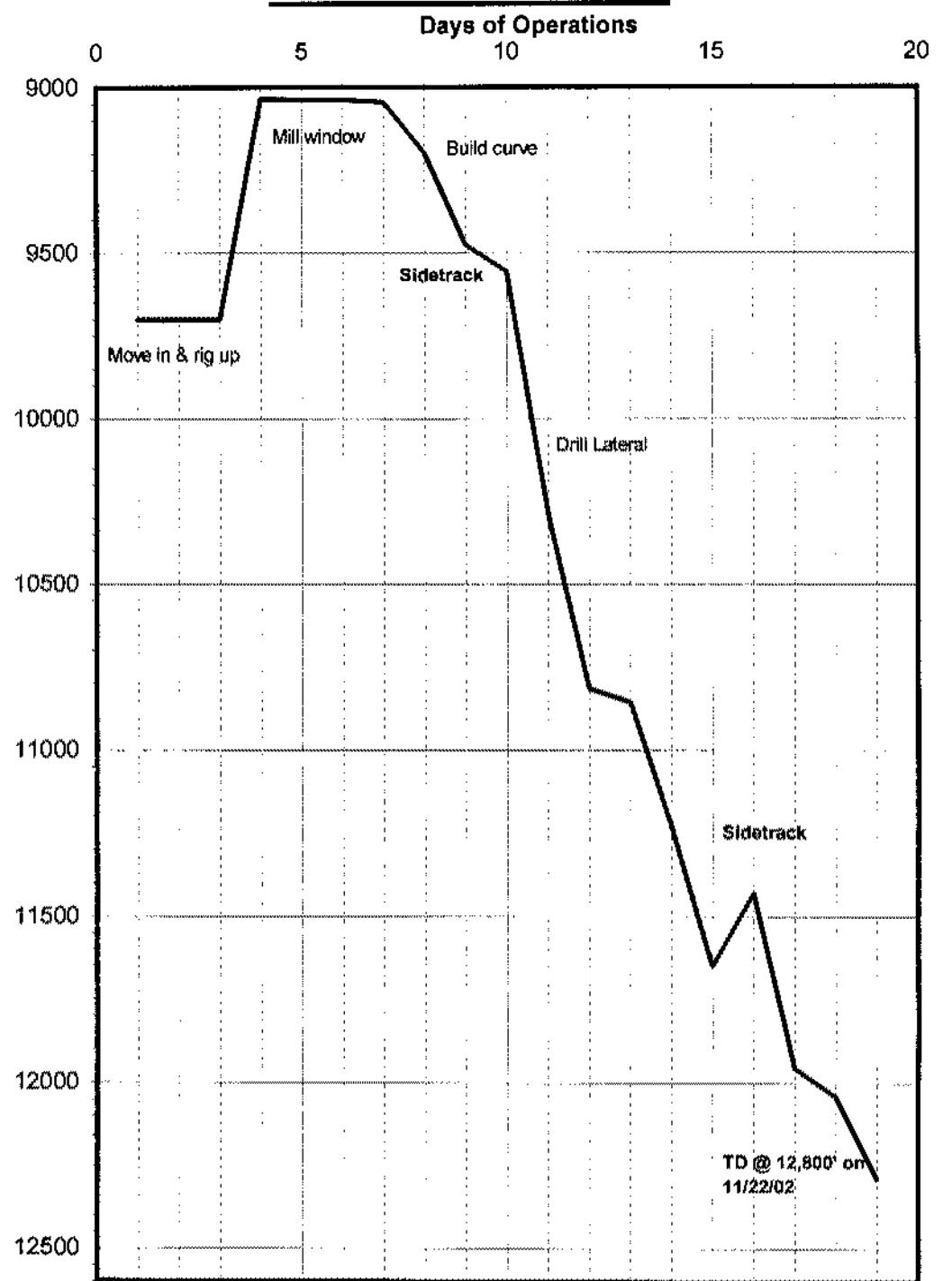


I hereby certify that this plot is an accurate representation of a correct survey showing the location of French Pinney 24-3

Date: 5-14-87

Licensed Land Surveyor No. 2883  
State of North Dakota

## TIME VS DEPTH



## **DAILY DRILLING SUMMARY**

Basic Game & Fish 34-3H

2002 06:00 hrs

DAY	DATE	DEPTH	PROG	BIT #	WOB	RPM	PP	WT	VIS	PWYP	WL	CK	CL	SOL	ACTIVITY	FORMATION
1	11/1	9702	-	-	-	-	-	-	-	-	-	-	-	-	Move in J&R Rig #7	Mission Canyon
2	11/2	9702	-	-	-	-	-	-	-	-	-	-	-	-	Rig up, nipple up, pick up tubing	Mission Canyon
3	11/3	9702	-	-	-	-	-	-	-	-	-	-	-	-	Run packer	Mission Canyon
4	11/4	9034	-	-	-	-	-	-	-	-	-	-	-	-	Gyro survey, set whipstock	BLS
5	11/5	9038	-	-	-	-	-	-	-	-	-	-	-	-	Mill window	BLS
6	11/6	9038	-	-	-	-	-	-	-	-	-	-	-	-	Trip in curve build assem., MWD fail	BLS
7	11/7	9044	6	1	time	225MM	1170	8.33	27	-	-	-	-	-	Trip, time drill, trip to check motor	BLS
8	11/8	9196	152	1	6-8	50/225	1150	8.3+	28	0	n/c	-	-	-	Trip, time drill, drill curve	Midale
9	11/9	9475	279	1	5-10	40/225	1170	8.4	28	0	n/c	-	-	-	Drill curve, trip for lateral assembly	Nesson
10	11/10	9558	153	2	0-10	40/103	1650	8.4	28	0	n/c	-	-	-	Trip, circ., time drill for sidetrack, dr	Nesson
11	11/11	10288	670	2	6-10	40/103	1750	8.4	28	0	n/c	-	-	-	Drill lateral	Nesson
12	11/12	10815	527	2	6-16	40/103	1800	8.4	28	0	n/c	-	-	-	Drill, short trip, drill lateral	Nesson
13	11/13	10856	41	2	6-16	40/103	1760	8.4+	28	0	n/c	-	-	-	Drill, trip for bit, wash to bottom	Nesson
14	11/14	11228	372	3	6-35	40/103	1820	8.4	28	0	n/c	-	-	-	Drill lateral	Nesson
15	11/15	11649	421	3	6-35	40/103	1840	8.4	28	0	n/c	-	-	-	Drill, short trip, drill lateral	Nesson
16	11/16	11427	68	3	time	103	1700	8.4	28	0	n/c	-	-	-	Drill, pull back to sidetrack, time drill	Nesson
17	11/17	11956	529	3	6-30	40/103	1900	8.4	28	0	n/c	-	-	-	Drill lateral in sidetrack #2	Nesson
18	11/18	12040	84	3	6-30	40/103	1900	8.4+	28	0	n/c	-	-	-	Drill, trip for bit	Nesson
19	11/19	12289	249	4	8-50	45/103	1760	8.4+	28	0	n/c	-	-	-	Trip in; drill	Nesson
20	11/20	12617	328	4	8-50	45/103	1760	8.4+	28	0	n/c	-	-	-	Drill; short trip; drill	Nesson
21	11/21	12800	183	4	8-50	45/103	1760	8.4+	28	0	n/c	-	-	-	Drill; TD; short trip; trip out; trip in	Total Depth

## DAILY DRILLING CHRONOLOGY

### Basic Game & Fish 34-3H

DAYS 2002	DATE	6:00 A.M. 24 HR		ACTIVITY
		FOOTAG E (feet)	FOOTAGE (feet)	
1	11/1	9702	-	Move in J&R Well Service Rig #7
2	11/2	9702	-	Rig up swivel, test BOP's, anti mouse hole, swivel down, make up BHA, nipple up flow line, rig up pick up machine, pick up 30 drill collars, pick up drill pipe, rig down pick up machine, trip out of
3	11/3	9702	-	trip out, rig up wireline truck, make up junk basket & gauge ring, run in Baker 4.316 whipstock packer on wireline - stacked out @ 6670', rig down wireline truck, wait on Baker tools, trip in packer, run wireline orientation tool, drop ball & wait 45 min., pump 20 bbls., set packer, adjust rig over hole, trip out.
4	11/4	9034	-	Finish trip out, make up whipstock & lay down on beaver slide, rig up & run gyro - tool failed @ 2000', pull out & change gyro, run gyro survey, pull out & lay down gyro, pick up whipstock & run in, set whipstock @ 9036', swivel up, fill hole & circulate out gas & oil, run starter mill 9032-34', swivel down, trip out, pick up window mill, trip in
5	11/5	9038	-	Finish trip in, swivel up & circ., mill window to 9038', ream window, pump sweep, circ. Bottoms up, swivel down, lay down 104 jts. Drill pipe, stand back 76 stands drill pipe & 15 stands collars, wait on orders, string geograph line, pick up directional BHA & test, pick up 100 jts. 2.875" AOH drill pipe, run in collars
6	11/6	9038	-	trip in, pick up 4 jts. Drill pipe & tag bottom @ 9038', swivel up, circulate & attempt to get MWD pulses - no pulses, trip for MWD
7	11/7	9044	6	Trip for MWD - found 2 jts. AOH w/ bad threads, change out MWD & surface test, trip in, swivel up - fill pipe & test MWD, time drill (5 min./inch), pressure spike, trip to check motor
8	11/8	9196	152	Trip for motor, change out motor, orient & test, trip in, fill pipe & check MWD, swivel up & circulate, work on Pason, time drill 9044-50', drill (orient); drill (rotate); drill (orient)
9	11/9	9475	279	Drill (rotate), drill (orient), survey, drill (rotate), drill (orient), pump sweep & circulate bottoms up, swivel back, trip out for lateral assembly, change out BHA, orient & test, trip in
10	11/10	9558	153	Trip in lateral assembly, fill pipe & check MWD, trip in, wash to bottom, drill (orient), drill (rotate), drill (orient), circulate & wait on orders 9530' MD, swivel out 2 joints to sidetrack, trough hole 9440-60, time drill for sidetrack 9460-66 (5 min/inch), time drill 9468-69 (3 min/inch), drill (orient), drill (rotate), drill (orient)
11	11/11	10288	670	Drill (rotate); drill (orient); survey; drill (rotate); drill (orient); drill (rotate)

DAYS	DATE 2002	6:00 A.M. 24 HR		ACTIVITY
		FOOTAG E (feet)	FOOTAGE (feet)	
12	11/12	10815	527	Drill (rotate); drill (orient); survey; drill (rotate); pump sweep & circulate bottoms up; short trip 15 stands; wash 2 joints to bottom; drill (orient); drill (rotate)
13	11/13	10856	41	Drill (rotate); drill (orient); pump sweep & circulate; drill (orient); swivel down, trip for bit @ 10856' MD; pull tight; swivel out 22 joints; drill pipe to rack; trip out; slip & cut drilling line; change floor motor oil; change out BHA; orient & test; trip in; fill pipe & check MWD; trip in; wash to bottom
14	11/14	11228	372	Orient tool face; drill (orient); drill (rotate); drill (orient); survey; pump sweep; drill (rotate); drill (orient)
15	11/15	11649	421	Drill (orient); drill (rotate); circulate & work pipe; swivel down; short trip @ 11598' MD; trip out 2 stands; swivel up; swivel out 12 joints; trip out 6 stands; trip in; swivel up; orient tool face; drill (orient); drill (rotate); drill (orient)
16	11/16	11427	68	Drill (orient); drill (rotate); circulate; pull back to sidetrack @ 11680' MD; swivel out 9 joints; orient tool face; trough hole 11365-11390'; time drill for sidetrack 11390-11417.5' (5 min./inch); time drill 11417.5-11419' (4 min./inch); time drill 11419-11422' (3 min./inch); drill (orient)
17	11/17	11956	529	Drill (orient); drill (rotate); survey; drill (rotate); drill (orient)
18	11/18	12040	84	Drill (orient); drill (rotate); drill (orient); pump sweep & circulate for bit trip @ 12040'; swivel out 28 jts. & trip out 7 joints to rack - pipe dragging; trip out; lay down BHA; change floor motor oil & service rig; tally new PH6 pipe; trip in PH6 & circulate through to clean; trip out PH6; wait on mud motor; pick up new BHA; orient & test - failed; change out MWD; test - OK; trip in; fill pipe & test MWD; trip in
19	11/19	12289	249	Swivel up & orient into sidetrack hole; trip in; swivel up; survey; drill (rotate); drill (orient)
20	11/20	12617	328	Drill (orient); drill (rotate); drill (orient); short trip @ 12,537' MD; swivel out 18 joints; trip in 17 joints; swivel up; wash to bottom; drill (rotate); drill (orient); drill (rotate)
21	11/21	12800	183	12,800'; circulate bottoms up; short trip back to casing; trip back in; attempt to re-enter sidetrack #2 - didn't go; trip out; lay down mud motor; pick up acidizing equipment; change out MWD batteries; trip in; orient into sidetrack #2, prepare to acidize lateral



WELL - BASIC GAME & FISH 34-3H		GAIN - LOSS REPORT						DATE - 11/10/2002		
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	9475				3' 6"					Trip
8:00 AM	9475				3' 6"					Trip
9:00 AM	9475				3' 6"					Trip
10:00 AM	9475				3' 6"					Trip
11:00 AM	9475				3' 6"					Trip
12:00 N	9475				3' 6"					Trip
1:00 PM	9475				3' 6"					Trip
2:00 PM	9523				3' 5-1/2"	0' 0-1/2"			2.1	2.1
3:00 PM	9530				3' 4"	0' 1-1/2"			6.3	8.4
4:00 PM	9450				3' 3"	0' 1"			4.2	12.6
5:00 PM	9450				3' 3"					Cut trough ff side track 31
6:00 PM	9450				3' 2-1/2"	0' 0-1/2"			2.1	14.7
7:00 PM	9461				3' 1"	1-1/2"			6.3	21
8:00 PM	9462				3' 0"	0' 1"			4.2	25.2
9:00 PM	9463				3' 0"					Time drill ff side track #1
10:00 PM	9464				3' 0"					Time drill ff side track #1
11:00 PM	9465				3' 9"					Transf 36 BFW ff Rtl Tk to MT
12:00 M	9466				3' 8"	0' 1"				Time drill ff side track #1
1:00 AM	9468				3' 7"	0' 1"			4.2	29.4
2:00 AM	9470				3' 5-1/2"	0' 1-1/2"			6.3	35.7
3:00 AM	9477	189			3' 6"	0' 0-1/2"			2.1	37.8
4:00 AM	9488	187	2		3' 3-1/2"	0' 1-1/2"			6.3	44.1
5:00 AM	9523	181	8		3' 1"	0' 2-1/2"			10.5	54.6
6:00 AM	9554	172	9		2' 11"	0' 2"			8.4	63
7:00 AM	9590	164	8		2' 7"	0' 4"			16.8	79.8
TOTALS			25						79.8	
										Hole loss ff day = 80 BFW

**WELL - BASIC GAME & FISH 34-3H**

GAIN - LOSS REPORT

DATE - 11/11/2002

WELL - BASIC GAME & FISH 34-3H		GAIN - LOSS REPORT						DATE - 11/11/2002		
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	9690	188			2' 7"				80	
8:00 AM	9636	209		10	3' 5"	0' 2 1/2"		10.5	90.5	Transf 50 BFW // Rd Tk to MT
9:00 AM	9664	197		12	3' 2-1/2"	0' 2 1/2"		10.5	101	
10:00 AM	9718	186		11	3' 0"	0' 2 1/2"		10.5	111.5	
11:00 AM	9729	176		10	2' 9-1/2"	0' 2 1/2"		10.5	122	
12:00 PM	9787	164		12	2' 7"	0' 2 1/2"		10.5	132.5	
1:00 PM	9800	152		12	2' 4-1/2"	0' 2 1/2"		10.5	143	
2:00 PM	9828	190		4	3' 10"	0' 2-1/2"		6.3	149.3	Transf 63 BFW // Rd Tk to MT
3:00 PM	9855	194		8	3' 10"	0' 0"		10	159.3	Pump 10 bbl HEC sweep
4:00 PM	9878	185		9	3' 6"	0' 4"		16.8	178.1	
5:00 PM	9905	172		13	3' 3"	0' 3"		12.6	188.7	
6:00 PM	9953	159		13	2' 11"	0' 3"		12.6	201.3	
7:00 PM	9972	147		12	2' 8"	0' 3"		12.6	213.9	
8:00 PM	9994	134		13	2' 5"	0' 3"		12.6	226.5	
9:00 PM	10025	125		9	2' 3"	0' 2"		8.4	234.9	
10:00 PM	10044	181		11	3' 5"	0' 2"		8.4	243.3	Transf 67 BFW // Rd Tk to MT
11:00 PM	10072	168		13	3' 1-1/2"	0' 3-1/2"		14.7	258	
12:00 M	10084	144		24	2' 8-1/2"	0' 5"		21	279	
1:00 AM	10115	115		29	2' 1"	0' 4-1/2"		18.9	287.9	
2:00 AM	10150	198		1	3' 8"	0' 3"		12.6	310.5	Transf 84 BFW // Rd Tk to MT
3:00 AM	10191	176		21	3' 3"	0' 5"		21	331.5	
4:00 AM	10215	147		29	2' 8"	0' 7"		29.4	360.9	Transf 37 BFW // Rd Tk to MT
5:00 AM	10245	168		16	3' 1"	0' 5"		21	381.8	
6:00 AM	10290	147		21	2' 9"	0' 4"		16.8	398.7	Transf 48 BFW // Rd Tk to MT
7:00 AM	10320	185		10	3' 6"	0' 2 1/2"		10.5	409.2	
<b>TOTALS</b>			<b>323</b>				<b>329.2</b>			Hole loss / day = 329.2 BFW
										Total fid loss = 409.2 BFW

WELL - BASIC GAME & FISH 34-3H							GAIN - LOSS REPORT		DATE - 11/12/2002	
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	10320	185			3' 8"				408.2	
8:00 AM	10354	160		25	3' 0"	0' 6"		25	434.2	
9:00 AM	10394	134		26	2' 6"	0' 6"		26	459.2	
10:00 AM	10426	189		11	3' 7"	0' 3"		12.6	471.8	Transf 66 BFW f/ Rd Tk to MT
11:00 AM	10468	194		10	3' 8"	0' 3"		12.6	484.4	Pump 10 bbl HEC sweep
12:00 N	10488	179		15	3' 4"	0' 4"		16.8	501.2	
1:00 PM	10488								501.2	Make 30 ft ( 930') short trip
2:00 PM	10488								501.2	"
3:00 PM	10488								501.2	"
4:00 PM	10488								501.2	"
5:00 PM	10497	127		52	2' 4"	1' 0"		50	551.2	"
6:00 PM	10520	189		20	3' 8-1/2"	0' 5"		21	572.2	Transf 82 BFW f/ Rd Tk to MT
7:00 PM	10553	168		21	3' 1-1/2"	0' 7"		29.4	601.6	
8:00 PM	10568	168		12	3' 1"	0' 3"		12.6	614.2	Pump 10 bbl HEC sweep
9:00 PM	10591	147		18	2' 8"	0' 4"		16.8	631	
10:00 PM	10618	132		15	2' 6"	0' 3"		12.6	643.8	
11:00 PM	10649	196		10	3' 7"	0' 2"		8.4	662	Transf 63 BFW f/ Rd Tk to MT
12:00 M	10680	181		15	3' 4"	0' 3"		12.6	684.6	
1:00 AM	10697	151		30	2' 9"	0' 7"		29.4	684	
2:00 AM	10743	130		21	2' 4"	0' 5"		21	715	
3:00 AM	10757	186		8	3' 8"	0' 2"		8.4	723.4	Transf 69 BFW f/ Rd Tk to MT
4:00 AM	10798	176		20	3' 3"	0' 5"		21	744.4	
5:00 AM	10812	166		20	3' 0"	0' 6"		25	768.4	Pump 10 bbl HEC sweep
6:00 AM	10820	151		15	2' 9"	0' 3"		12.6	782	
7:00 AM	10832	140		11	2' 7"	0' 2"		8.4	790.4	
<b>TOTALS</b>				375				381.2		Hole loss f/ day = 381.2 bbls
										Total fld loss = 790.4 bbls

**WELL - BASIC GAME & FISH 34-3H**

GAIN - LOSS REPORT

DATE - 11/13/2002

TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBLGAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	10832	140			2' 7"	0' 2"			790.4	Transf 53 BFW fl Rtl Tk to MT
8:00 AM	10845	193		10	3' 6"	0' 2"		8.4	788.8	Pump 10 bbl HEC sweep
9:00 AM	10851	177		16	3' 4"	0' 4"		16.8	815.6	
10:00 AM	10856	164		13	3' 0"	0' 4"		16.8	832.4	
11:00 AM	10856				3' 0"				832.4	Trip for bit & motor
12:00 N	10856				3' 0"				832.4	Trip for bit & motor
1:00 PM	10856				3' 0"				832.4	Trip for bit & motor
2:00 PM	10856				3' 0"				832.4	Trip for bit & motor
3:00 PM	10856				3' 0"				832.4	Trip for bit & motor
4:00 PM	10856				3' 0"				832.4	Trip for bit & motor
5:00 PM	10856				3' 0"				832.4	Trip for bit & motor
6:00 PM	10856				3' 0"				832.4	Trip for bit & motor
7:00 PM	10856				3' 0"				832.4	Trip for bit & motor
8:00 PM	10856				3' 0"				832.4	Trip for bit & motor
9:00 PM	10856				3' 0"				832.4	Trip for bit & motor
10:00 PM	10856				3' 0"				832.4	Trip for bit & motor
11:00 PM	10866				3' 0"				832.4	Trip for bit & motor
12:00 M	10866				3' 0"				832.4	Trip for bit & motor
1:00 AM	10866				3' 0"				832.4	Trip for bit & motor
2:00 AM	10866				3' 0"				832.4	Trip for bit & motor
3:00 AM	10856				3' 0"				832.4	Trip for bit & motor
4:00 AM	10866				3' 0"				832.4	Trip for bit & motor
5:00 AM	10866	156		118	3' 0"			117.8	950.2	Lost on trip
6:00 AM	10856	149		6	2' 10"	0' 3"		12.6	962.8	
7:00 AM	10859	128		21	2' 6"	0' 5"		21	983.8	
<b>TOTALS</b>				184				193.4		Hole loss fl day = 193.4 bbls
										Total fl loss = 983.8 bbls

**WELL - BASIC GAME & FISH 34-3H**

GAIN - LOSS REPORT

DATE - 11/14/2002

WELL - BASIC GAME & FISH 34-3H		GAIN - LOSS REPORT						DATE - 11/14/2002		
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	10859	140			2' 7"				963.8	
8:00 AM	10863	106		24	1' 11"	0' 8"		23.6	1007.4	Pump 10 bbl HEC sweep
9:00 AM	10871	200		5	3' 10"	0' 1-1/2"		6.6	1014	Transf 89 BFW f/ Rd Tk to MT
10:00 AM	10871	198		2	3' 8"	0' 1"		4.2	1018.2	
11:00 AM	10874	198		20	3' 9"	0' 6"		21	1039.2	Pump 20 bbl HEC sweep
12:00 N	10905	190		8	3' 7"	0' 2"		8.4	1047.8	
1:00 PM	10917	181		9	3' 5"	0' 2"		8.4	1056	
2:00 PM	10926	158		26	2' 11"	0' 6"		26.2	1081.2	
3:00 PM	10932	128		26	2' 5"	0' 6"		25.2	1106.4	
4:00 PM	10938								1106.4	Clean mud tank
5:00 PM	10948								1106.4	Clean mud tank
6:00 PM	10957								1106.4	Clean mud tank
7:00 PM	10966	187			3' 6"				1106.4	Refilled MT after cleaning
8:00 PM	10987	172		15	3' 3"	0' 3"		12.6	1119	
9:00 PM	11005	160		12	2' 11"	0' 4"		16.8	1136.8	
10:00 PM	11027	145		15	2' 7"	0' 4"		16.8	1152.6	Pump 20 bbl HEC sweep
11:00 PM	11043	195		15	3' 11"	0' 4"		16.8	1169.4	Transf 30 BFW f/ Rd Tk to MT
12:00 M	11065	187		8	3' 8"	0' 2"		8.4	1177.8	
1:00 AM	11082	176		11	3' 6"	0' 3"		12.6	1190.4	
2:00 AM	11122	180		16	3' 3"	0' 3"		12.6	1203	
3:00 AM	11153	142		18	2' 11"	0' 4"		16.8	1219.8	
4:00 AM	11185	128		14	2' 8"	0' 3"		12.6	1232.4	Pump 10 bbl HEC sweep
5:00 AM	11200	120		8	2' 6"	0' 3"		8.4	1240.8	
6:00 AM	11227	110		10	2' 0"	0' 5"		21	1261.8	
7:00 AM	11248	193		10	3' 8"	0' 2"		8.4	1270.2	Transf 93 BFW f/ Rd Tk to MT
TOTALS				271				286.4		Hole loss f/ day = 286.4 bbls
										Total fld loss = 1270.2 bbls

WELL - BASIC GAME & FISH 34-3H						GAIN - LOSS REPORT			DATE - 11/14/2002	
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	11248	193			3' 8"				1270.2	
8:00 AM	11265	"		15	3' 4"	0' 4"		16.8	1287	Pump 10 bbl HEC sweep
9:00 AM	11305	172		15	3' 3"	0' 3"		12.4	1299.4	
10:00 AM	11311	155		17	2' 11"	0' 4"		16.8	1316.2	
11:00 AM	11330	130		25	2' 6"	0' 5"		21	1337.2	Pump 20 bbl HEC sweep
12:00 N	11345	128		18	2' 6"	0' 6"		21	1358.2	
1:00 PM	11362	116		12	2' 3"	0' 3"		12.4	1370.6	
2:00 PM	11392	187		14	3' 6-1/2"	0' 3-1/2"		14.6	1385.1	Transf 68 BFW fl Rtl Tk to MT
3:00 PM	11423	168		19	3' 2"	0' 4-1/2"		16.8	1404	
4:00 PM	11434	144		24	2' 8"	0' 8"		26.32	1429.32	
5:00 PM	11453	121		23	2' 2"	0' 6"		26.32	1454.64	Transf 70 BFW fl Rtl Tk to MT
6:00 PM	11470	198		16	3' 9"	0' 4"		16.8	1471.44	Pump 20 bbl HEC sweep
7:00 PM	11475	197		10	3' 7"	0' 2"		8.4	1479.84	
8:00 PM	11517	170		27	3' 2"	0' 5"		21	1500.84	
9:00 PM	11550	151		19	2' 10"	0' 4"		16.8	1517.64	Pump 20 bbl HEC sweep
10:00 PM	11597	144		7	2' 8"	0' 2"		8.4	1526.04	
11:00 PM	11597	123		21	2' 2"	0' 6"		26.32	1551.36	Circ for short trip
12:00 M									1551.36	Transf 72 BFW fl Rtl Tk to MT
1:00 AM									1551.36	Make short trip
2:00 AM	11604	147		48	2' 9"	0' 11"		46.2	1597.56	
3:00 AM	11617	134		13	2' 6"	0' 3"		12.6	1610.16	
4:00 AM	11629	115		19	2' 1"	0' 5"		21	1631.16	
5:00 AM	11640	141		15	2' 7"	0' 3"		12.6	1643.76	Transf 41 BFW fl RG Tk to MT
6:00 AM	11648	155		24	2' 11"	0' 6"		26.32	1669.08	Transf 38 BFW fl Rtl Tk to MT
7:00 AM	11661	145		10	2' 10"	0' 3"		12.6	1681.68	
TOTALS				412				411.48		Hole loss fl day = 411.48 bbls
										Total fl loss = 1681.68 bbls

WELL - BASIC GAME & FISH 34-3H							GAIN - LOSS REPORT			DATE - 11/16/2002	
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS	
7:00 AM	11661	145			2' 10"				1681.68		
8:00 AM	11672	134		11	2' 6"	0' 4"		16.8	1698.48		
9:00 AM	11674	113		21	2' 1"	0' 5"		21	1719.48		
10:00 AM	11681	186		3	3' 6"	0' 2"		8.4	1727.88	Transf 65 BFW fl Rtl Tk to MT	
11:00 AM	11376	170		5	3' 2"	0' 4"		16.8	1744.88	Pump 10 bbl HEC sweep	
12:00 N	11390	154		16	2' 11"	0' 3"		12.6	1757.28	Pull 9 jts fl ST #2	
1:00 PM	11390	129		26	2' 5"	0' 6"		26.2	1782.48	Make trough fl ST #2	
2:00 PM	11390	113		16	2' 1"	0' 4"		16.8	1799.28	Time drll fl ST#2	
3:00 PM	11391	189		0	3' 7"	0' 0"		0	1788.28	Transf 74 BFW fl Rtl Tk to MT	
4:00 PM	11392	170		19	3' 3"	0' 4"		16.8	1816.08		
5:00 PM	11393	151		19	2' 10"	0' 6"		21	1837.08		
6:00 PM	11396	132		19	2' 5-1/2"	4-1/2"		16.8	1855.98		
7:00 PM	11405	198		6	3' 9-1/2"	0' 2"		8.4	1864.38	Transf 72 BFW fl Rtl Tk to MT	
8:00 PM	11408	181		17	3' 5-1/2"	0' 4"		16.8	1881.18		
9:00 PM	11412	161		20	3' 0"	0' 5-1/2"		23.4	1904.68		
10:00 PM	11413	138		23	2' 6-1/2"	0' 6-1/2"		23.4	1927.98		
11:00 PM	11414	115		23	2' 1"	0' 5-1/2"		23.4	1951.38		
12:00 M	11415	194		3	3' 7"	0' 3"		12.6	1963.98	Transf 82 BFW fl Rtl Tk to MT	
1:00 AM	11416	170		24	3' 2"	0' 5"		21	1984.98		
2:00 AM	11417	154		16	2' 10"	0' 4"		16.8	2001.78		
3:00 AM	11418	134		20	2' 6"	0' 4"		16.8	2018.58		
4:00 AM	11420	110		24	2' 0"	0' 6"		25.2	2043.78		
5:00 AM	11421	90		20	1' 7"	0' 5"		21	2064.78		
6:00 AM	11430	112		18	2' 4"	0' 5"		21	2085.78	Transf 41 BFW fl Rtl Tk to MT	
7:00 AM	11436	198		10	3' 9-1/2"	0' 2"		8.4	2094.18	Transf 75 BFW fl Rtl Tk to MT	
TOTALS				379				412.5		Hole loss fl day = 412.5 bbls	
										Total fl loss = 2094.18 bbls	

**WELL - BASIC GAME & FISH 34-3H**

**GAIN - LOSS REPORT**

DATE - 11/17/2002

WELL - BASIC GAME & FISH 34-3H		GAIN - LOSS REPORT						DATE - 11/17/2002		
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	11438	188			3' 9-1/2"				2084.18	
8:00 AM	11441	183		15	3' 6-1/2"	0' 4"		16.8	2110.88	
9:00 AM	11451	164		19	3' 1"	0' 4-1/2"		18.9	2129.88	
10:00 AM	11471	144		20	2' 8-1/2"	0' 4-1/2"		18.9	2148.78	
11:00 AM	11482	123		21	2' 3"	0' 5-1/2"		23.4	2172.18	
12:00 M	11501	113		10	2' 1"	0' 2"		8.4	2180.58	
1:00 PM	11520	100		13	1' 10"	0' 3"		12.6	2193.18	
2:00 PM	11540	137		6	2' 7"	0' 2"		8.4	2201.58	Transf 32 BFW // Rtl Tk to MT
3:00 PM	11553	123		14	2' 4"	0' 3"		12.6	2214.18	
4:00 PM	11583	104		19	1' 11"	0' 5"		21	2235.18	
5:00 PM	11613	123		11	2' 4"	0' 3"		12.6	2247.78	Transf 30 BFW // Rtl Tk to MT
6:00 PM	11638	104		19	1' 11"	0' 5"		21	2268.78	
7:00 PM	11673	117		23	2' 9"	0' 5"		21	2289.78	Transf 30 BFW // Rtl Tk to MT
8:00 PM	11680								2289.78	Clean mud tank.
9:00 PM	11723								2289.78	Clean mud tank.
10:00 PM	11754	189			3' 8"				2289.78	Fill MT after cleaning.
11:00 PM	11785	171		18	3' 1"	0' 4"		16.8	2308.58	
12:00 M	11818	150		21	2' 8"	0' 4"		16.8	2323.38	
1:00 AM	11849	116		34	2' 0"	0' 8"		33.6	2358.98	
2:00 AM	11878	190		19	3' 8"	0' 4"		16.8	2373.78	Transf 93 BFW // Rtl Tk to MT
3:00 AM	11904	157		33	3' 0"	0' 8"		33.6	2407.38	
4:00 AM	11923	136		21	2' 7"	0' 5"		21	2428.38	
5:00 AM	11936	192		31	3' 9"	0' 8"		25.3	2453.88	Transf 87 BFW // Rtl Tk to MT
6:00 AM	11956	175		17	3' 4"	0' 5"		21	2474.68	
7:00 AM	11980	148		26	2' 10"	0' 6"		25.3	2499.98	
TOTALS				410				405.6		Hole loss // day = 405.8 bbls
										Total fid loss = 2499.98 bbls

WELL - BASIC GAME & FISH 34-3H						GAIN - LOSS REPORT			DATE - 11/17/2002	
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	11880	149			2' 10"				2489.98	
8:00 AM	12017	133		16	2' 6"	0' 4"		16.8	2516.78	
9:00 AM	12035	117		16	2' 2"	0' 4"		16.8	2533.58	
10:00 AM	12040	179		18	3' 4"	0' 4"		16.8	2550.38	Transf 78 BFW // Rd Tk to MT
11:00 AM	12040	160		18	3' 0"	0' 4"		16.8	2567.18	Pump 20 bbl HEC sweep
12:00 N									2567.18	Lay down 36 Jts AOH DP
1:00 PM									2567.18	Trip // bit and BHA.
2:00 PM									2567.18	
3:00 PM									2567.18	
4:00 PM									2567.18	
5:00 PM									2567.18	
6:00 PM									2567.18	
7:00 PM									2567.18	
8:00 PM									2567.18	
9:00 PM									2567.18	
10:00 PM									2567.18	
11:00 PM									2567.18	
12:00 M									2567.18	
1:00 AM									2567.18	
2:00 AM									2567.18	
3:00 AM									2567.18	
4:00 AM									2567.18	
5:00 AM									2567.18	
6:00 AM									2567.18	
7:00 AM									2567.18	Trip // bit and BHA.
TOTALS			69				67.2			Hole loss // day = 67.2 bbls
										Total fld loss = 2567.18 bbls

**WELL - BASIC GAME & FISH 34-3H**

GAIN - LOSS REPORT

DATE - 11/18/2002

TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBLGAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	12040	198			4' 0"				2567.18	
8:00 AM	12040	198			4' 0"			268.27	2823.45	Lost on trip.
9:00 AM	12040	177		21	3' 8"	0' 8"		25.3	2848.75	
10:00 AM	12056	140		37	2' 9"	0' 9"		37.8	2886.55	
11:00 AM	12071	104		34	2' 1"	0' 8"		33.6	2920.15	Pump 30 bbl HEC sweep
12:00 PM	12097	143		21	2' 10"	0' 6"		21	2841.15	Transf 30 BFW 1/ Rtd Tk to MT
1:00 PM	12111	135		8	2' 8"	0' 2"		8.4	2949.55	
2:00 PM	12142	148		8	3' 0"	0' 2"		8.4	2957.95	Pump 30 bbl HEC sweep
3:00 PM	12154	118		29	2' 5"	0' 7"		29.4	2887.35	
4:00 PM	12166	152		25	3' 1"	0' 8"		25.3	3012.85	Transf 58 BFW 1/ Rtd Tk to MT
5:00 PM	12178	173		29	2' 6"	0' 7"		29.4	3042.05	
6:00 PM	12190	196		25	3' 10"	0' 6"		25.3	3087.35	Transf 50 BFW 1/ Rtd Tk to MT
7:00 PM	12204	181		15	3' 6"	0' 4"		16.8	3084.15	
8:00 PM	12205	152		29	2' 11"	0' 7"		29.4	3113.55	
9:00 PM	12217	196		6	3' 3"	0' 2"		8.4	3121.95	Transf 48 BFW 1/ Rtd Tk to MT
10:00 PM	12229	179		17	3' 0"	0' 3"		12.8	3134.55	
11:00 PM	12239	161		28	2' 8"	0' 7"		29.4	3163.95	
12:00 M	12254	184		8	3' 4"	0' 2"		8.4	3172.35	Transf 55 BFW 1/ Rtd Tk to MT
1:00 AM	12258	170		24	2' 11"	0' 6"		21	3183.35	
2:00 AM	12261	154		16	2' 7"	0' 4"		16.8	3210.15	
3:00 AM	12265	130		24	2' 1"	0' 6"		25.3	3235.45	
4:00 AM	12268	182		21	3' 2"	0' 5"		21	3258.45	Transf 73 BFW 1/ Rtd Tk to MT
5:00 AM	12279	174		8	3' 0"	0' 2"		8.4	3264.85	Pump 10 bbl HEC sweep
6:00 AM	12288	162		12	2' 9"	0' 3"		12.8	3277.45	
7:00 AM	12295	146		16	2' 5"	0' 4"		16.8	3294.25	
<b>TOTALS</b>				461				727.07		Hole loss / day = 727.07 bbls
										Total Fld loss = 3294.25 bbls

**WELL - BASIC GAME & FISH 34-3H**

GAIN - LOSS REPORT

DATE - 11/19/2002

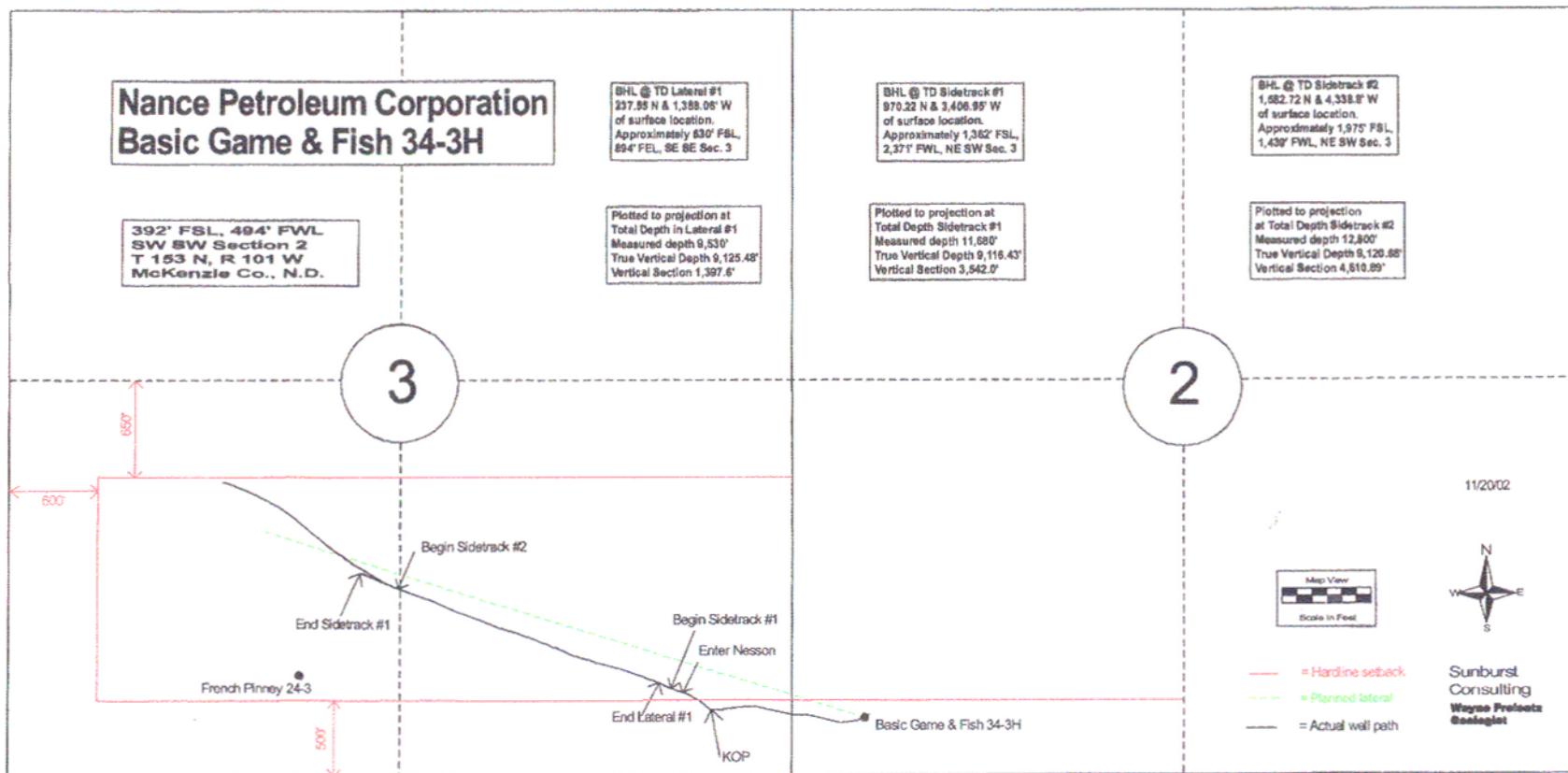
WELL - BASIC GAME & FISH 34-3H		GAIN - LOSS REPORT						DATE - 11/19/2002		
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	12295	146			2' 5"				3294.25	Pump 20 bbl HEC sweep
8:00 AM	12313	194		8	3' 8"	0' 8"		25.3	3318.55	Transf 48 BFW f/ Rd Tk to MT
9:00 AM	12327	181		13	3' 5"	0' 3"		12.5	3332.15	
10:00 AM	12332	183		18	3' 1"	0' 4"		16.8	3348.95	Pump 20 bbl HEC sweep
11:00 AM	12354	157		28	4' 0"	0' 8"		25.3	3374.25	
12:00 N	12378	121		36	3' 4"	0' 8"		33.6	3407.85	
1:00 PM	12395	185		16	4' 0"	0' 4"		16.8	3424.65	Transf 48 BFW f/ Rd Tk to MT
2:00 PM	12414	162		23	3' 7"	0' 6"		21	3445.85	Pump 20 bbl HEC sweep
3:00 PM	12426	146		16	3' 3"	0' 4"		16.8	3462.45	
4:00 PM	12450	194		21	4' 1"	0' 5"		21	3483.45	Transf 39 BFW f/ Rd Tk to MT
5:00 PM	12467	162		32	3' 5"	0' 8"		33.6	3517.05	
6:00 PM	12490	127		35	2' 8"	0' 8"		33.6	3550.65	
7:00 PM	12492	196		19	4' 1"	0' 4"		16.8	3567.45	Transf 50 BFW f/ Rd Tk to MT
8:00 PM	12502	182		14	3' 9"	0' 4"		16.8	3584.25	Pump 20 bbl HEC sweep
9:00 PM	12512	164		18	3' 4"	0' 5"		21	3605.25	
10:00 PM	12518	134		30	2' 8"	0' 8"		33.6	3638.85	
11:00 PM	12522	194		11	4' 1"	0' 2"		8.4	3647.25	
12:00 M	12537								3647.25	Make 18 ft short trip
1:00 AM	12537								3647.25	Make 18 ft short trip
2:00 AM	12537	190		4	4' 0"	0' 1"		4.2	3651.45	
3:00 AM	12559	181		19	3' 10"	0' 4"		16.8	3668.25	Pump 30 bbl HEC sweep
4:00 AM	12575	181		33	3' 2"	0' 8"		33.2	3701.45	
5:00 AM	12599	177		28	3' 8"	0' 6"		25.3	3728.75	Transf 58 BFW f/ Rd Tk to MT
6:00 AM	12622	160		17	3' 4"	0' 4"		16.8	3743.65	Pump 20 bbl HEC sweep
7:00 AM	12648	144		16	3' 0"	0' 4"		16.8	3760.35	
TOTALS			453					466.1		Hole loss f/ day = 466.1 bbls
										Total fld loss = 3760.35 bbls

**WELL - BASIC GAME & FISH 34-3H**

GAIN - LOSS REPORT

DATE - 11/20/2002

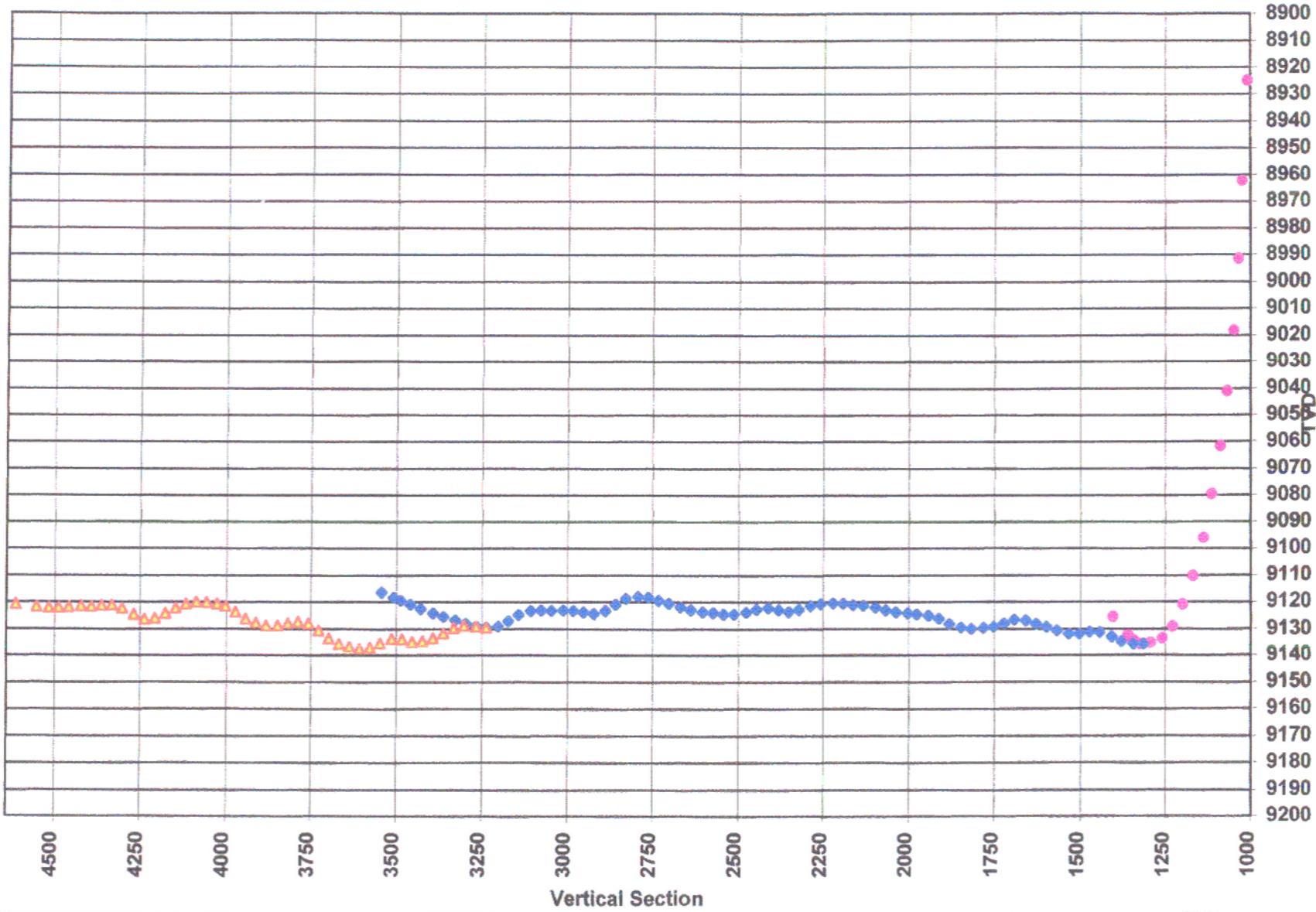
WELL - BASIC GAME & FISH 34-3H		GAIN - LOSS REPORT						DATE - 11/20/2002		
TIME	DEPTH	PASON PVT	GAIN (+)	LOSS (-)	MUD TANK	DIFF (+/-)	BBL GAIN (+)	BBL LOSS (-)	TOTAL BBL	COMMENTS
7:00 AM	12648	144			3' 0"				3780.35	Pump 20 bbl HEC sweep
8:00 AM	12681	144		20	2' 8"	0' 7"		29.4	3789.75	
9:00 AM	12712	124		20	2' 3"	0' 5"		21	3810.75	
10:00 AM	12743	185		17	3' 6"	0' 4"		16.8	3827.55	Transf 78 BFW fl Rd Tk to MT
11:00 AM	12773	146		39	2' 9"	0' 9"		37.8	3865.35	
12:00 PM	12800	192		30	3' 8"	0' 7"		29.4	3894.75	Transf 78 BFW fl Rd Tk to MT
1:00 PM	12800	185		27	3' 0"	0' 8"		32.6	3927.55	Pump 30 bbl HEC sweep
2:00 PM	12800	168		27	3' 1"	0' 7"		29.4	3958.95	
3:00 PM	12800	140		28	2' 6"	0' 7"		29.4	3986.35	
4:00 PM									3986.35	Short trip to casing window.
5:00 PM									3986.35	Short trip to casing window.
6:00 PM									3986.35	Short trip to casing window.
7:00 PM									3986.35	Short trip to casing window.
8:00 PM									3986.35	Attempt to get in ST #2
9:00 PM									3986.35	Attempt to get in ST #2
10:00 PM									3986.35	Attempt to get in ST #2
11:00 PM									3986.35	Trip
12:00 M									3986.35	Trip
1:00 AM									3986.35	Trip
2:00 AM									3986.35	Trip
3:00 AM									3986.35	Trip
4:00 AM									3986.35	Trip
5:00 AM									3986.35	Trip
6:00 AM									3986.35	Trip
7:00 AM									3986.35	Trip
TOTALS			208				226			Hole loss fl day = 226 bbls
										Total fl loss = 3986.35 bbls



# Nance Basic Game & Fish 34-3H

W

E



Lateral#1

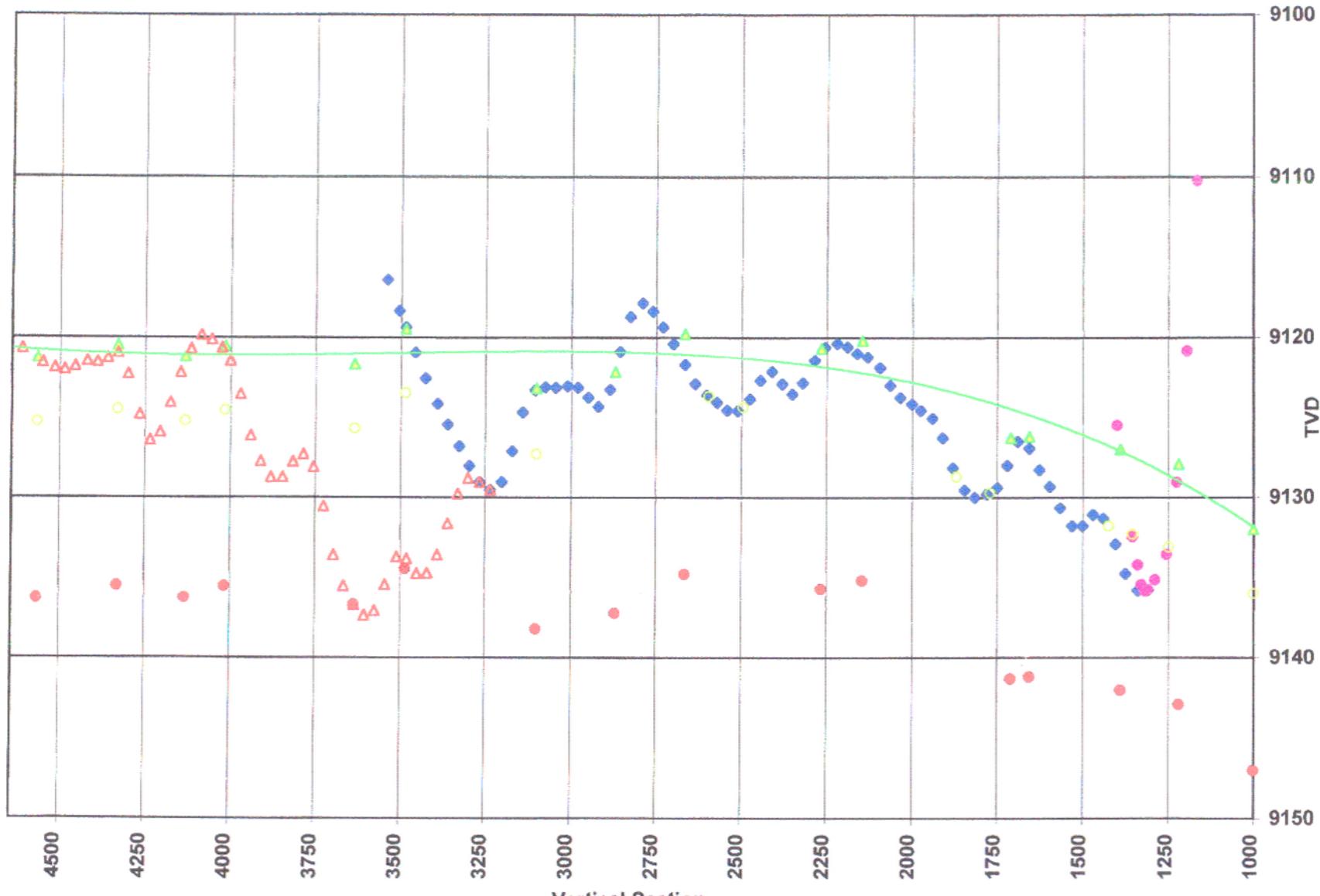
Sidetrack#1

Sidetrack#2

# Nance Basic Game & Fish 34-3H

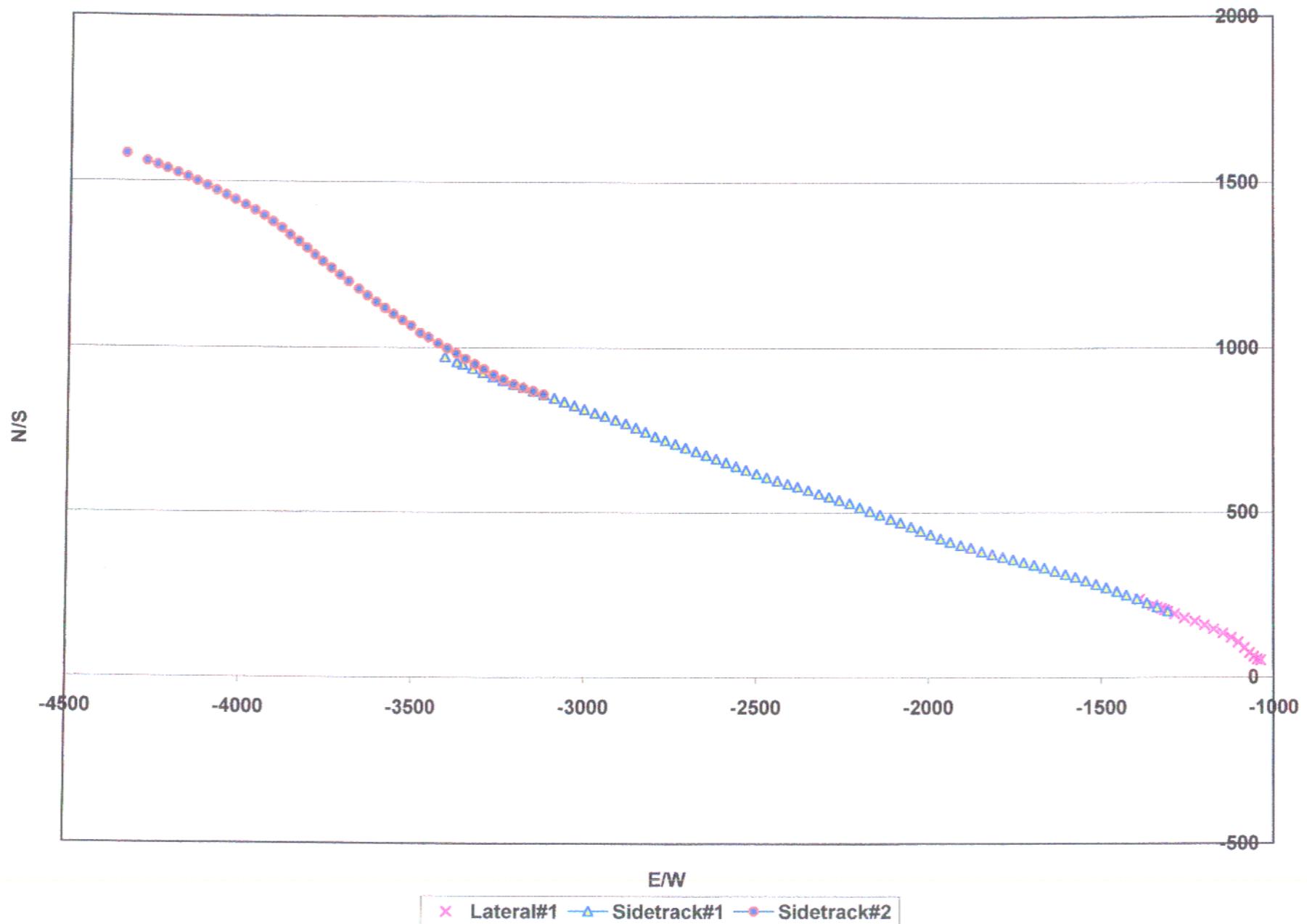
W

E



—◆— Sidetrack#1	—●— Lateral#1	—▲— Top Nesson por.	—○— Base top por.	—△— Sidetrack#2
—●— Base por.	—●— Poly. (Top Nesson por.)	—□— Poly. (Base top por.)	—□— Poly. (Base por.)	—△— Poly. (Base por.)

## Nance Basic Game & Fish 34-3H



COMPANY : NANCE PETROLEUM  
DATE : 04-NOV-0  
SERIAL NO: EW0236  
LATITUDE : 48.10  
WELL NAME: BASIC FISH & GAME 34-3H  
LOCATION : MCKENZIE CTY. NORTH DAKOTA  
DISTRICT : ROCKY MOUNTAIN  
SURVEYOR : JIM GALE  
CO. REP. : LES FREDRICKSON  
DEPTH REF: RKB  
REF ELEV : 22'  
CASING ID: 4.5"  
RUN GEAR : M,L,E,1.9HF,E  
COMMENT 1: BAKER HUGHES INTEQ  
COMMENT 2: ORIENT WHIPSTOCK, SURVEY HOLE  
COMMENT 3: 100' TO 9031'  
"  
"

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL

DIRECTION: 279.43

RECORD OF SURVEY

MINIMUM CURVATURE METHOD

COMPANY : NANCE PETROLEUM  
DATE : 04-NOV-0  
SERIAL NO: EW0236  
LATITUDE : 48.10  
WELL NAME: BASIC FISH & GAME 34-3H  
LOCATION : MCKENZIE CTY. NORTH DAKOTA  
DISTRICT : ROCKY MOUNTAIN  
SURVEYOR : JIM GALE  
CO. REP. : LES FREDRICKSON  
DEPTH REF: RKB  
REF ELEV : 22'  
CASING ID: 4.5"  
RUN GEAR : M,L,E,1.9HF,E  
COMMENT 1: BAKER HUGHES INTEQ  
COMMENT 2: ORIENT WHIPSTOCK, SURVEY HOLE  
COMMENT 3: 100' TO 9031'

ORIGINAL LATITUDE : 48.1000  
CALIBRATIONS BASED ON LATITUDE : 48.1000  
CHANGE LATITUDE AND RE-EDIT CALIBRATION DATA? [N/Y]:

STE RUN	STA RUN	MSRD DEPTH	INCL'N [DEG.]	DIR'N [AZM]	HTF [DEG]	GTF [AZM]	GTF [QUADRANT]	
1	83	9031	13.43	269.59	S 89 35 W	-166.47	103.12	S 76 52 E
2	84	9031	13.43	269.32	S 89 19 W	-166.44	102.87	S 77 7 E
3	85	9031	13.41	269.85	S 89 51 W	-165.86	103.99	S 76 0 E

OPTION:

COMPANY : NANCE PETROLEUM  
 DATE : 04-NOV-0  
 SERIAL NO: EW0236

COMPUTATION PAGE NO. 1  
 TIME DATE  
 08:57:09 04-NOV-02

MEASURED DEPTH FEET	DRIFT ANGLE DEG	DRIFT DIRECTION DEG	TRUE				DOGLEG SEVERITY DG/100FT
			VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		
0	.00	.00	.00	.00	.00	.00	.00
100	.33	280.19	100.00	.29	.05 N	.28 W	.33
200	.38	208.88	200.00	.69	.19 S	.73 W	.42
300	.60	178.83	299.99	.70	1.00 S	.88 W	.33
400	.34	153.75	399.99	.43	1.79 S	.73 W	.33
500	.15	35.20	499.99	.20	1.95 S	.53 W	.43
600	.39	358.39	599.99	.21	1.50 S	.46 W	.28
700	.38	21.58	699.99	.20	.86 S	.35 W	.16
800	.78	57.94	799.98	-.37	.19 S	.35 E	.52
900	.91	18.30	899.97	-1.01	.93 N	1.18 E	.59
1000	.39	328.47	999.97	-.91	1.97 N	1.25 E	.72
1100	1.01	346.20	1099.96	-.34	3.12 N	.86 E	.65
1200	1.12	308.24	1199.94	.87	4.58 N	.12 W	.70
1300	1.22	308.24	1299.92	2.66	5.84 N	1.72 W	.10
1400	.94	297.27	1399.90	4.37	6.88 N	3.29 W	.35
1500	.85	319.24	1499.89	5.72	7.82 N	4.50 W	.35
1600	.58	253.99	1599.88	6.75	8.24 N	5.47 W	.80
1700	.62	313.36	1699.88	7.65	8.47 N	6.35 W	.60
1800	1.13	263.70	1799.87	9.05	8.73 N	7.73 W	.87
1900	.87	249.42	1899.85	10.66	8.36 N	9.42 W	.36
2000	1.21	247.70	1999.84	12.21	7.69 N	11.10 W	.94
2100	1.45	240.59	2099.81	14.10	6.67 N	13.18 W	.30
2200	1.84	236.30	2199.77	16.26	5.16 N	15.62 W	.40
2300	2.39	235.06	2299.70	18.92	3.07 N	18.67 W	.56
2400	2.64	233.06	2399.60	22.00	.49 N	22.22 W	.26
2500	2.75	226.47	2499.49	25.03	2.54 S	25.80 W	.33
2600	2.29	232.74	2599.40	27.84	5.40 S	29.12 W	.54
2700	1.70	221.51	2699.34	30.00	7.72 S	31.69 W	.70
2800	1.38	211.27	2799.30	31.23	9.86 S	33.30 W	.42
2900	1.29	230.60	2899.27	32.42	11.60 S	34.79 W	.46
3000	1.30	242.98	2999.25	34.07	12.83 S	36.67 W	.28
3100	1.20	246.04	3099.23	35.86	13.77 S	38.63 W	.12
3200	1.14	247.40	3199.20	37.57	14.57 S	40.51 W	.06
3300	1.08	249.32	3299.19	39.23	15.29 S	42.30 W	.07
3400	1.12	253.00	3399.17	40.91	15.90 S	44.11 W	.08
3500	1.17	255.93	3499.15	42.72	16.44 S	46.03 W	.08
3600	1.20	255.36	3599.13	44.61	16.95 S	48.04 W	.04
3700	.96	247.89	3699.11	46.28	17.53 S	49.83 W	.28
3800	.81	252.95	3799.10	47.63	18.05 S	51.29 W	.17

COMPANY : NANCE PETROLEUM  
 DATE : 04-NOV-0  
 SERIAL NO: EW0236

COMPUTATION PAGE NO. 2  
 TIME DATE  
 06:57:09 04-NOV-02

MEASURED DEPTH FEET	DRIFT ANGLE DEG	DRIFT DIRECTION DEG	TRUE VERTICAL VERTICAL R E C T A N G U L A R DOGLE				SEVERITY DG/100FT
			DEPTH FEET	SECTION FEET	C O O R D I N A T E S FEET		
3900	.90	264.06	3899.09	49.03	18.34 S	52.75 W	.19
4000	.91	274.74	3999.07	50.58	18.36 S	54.32 W	.17
4100	4.25	257.45	4098.96	54.80	19.10 S	58.73 W	3.39
4200	6.93	257.49	4198.47	63.84	21.21 S	68.23 W	2.68
4300	8.40	257.08	4297.58	76.19	24.15 S	81.24 W	1.46
4400	9.38	257.93	4396.38	90.52	27.49 S	96.33 W	1.00
4500	10.13	260.16	4494.93	106.41	30.70 S	112.97 W	.84
4600	10.48	263.11	4593.32	123.44	33.29 S	130.66 W	.63
4700	10.93	267.10	4691.58	141.44	34.86 S	149.17 W	.87
4800	11.40	271.61	4789.68	160.50	35.06 S	168.52 W	.99
4900	11.64	273.07	4887.67	180.32	34.25 S	188.48 W	.38
5000	12.43	280.23	4985.47	201.11	31.79 S	209.15 W	1.69
5100	13.72	290.37	5082.89	223.53	25.75 S	230.86 W	2.62
5200	13.89	292.59	5180.00	246.86	17.01 S	253.06 W	.56
5300	13.17	294.15	5277.23	269.56	7.74 S	274.54 W	.81
5400	13.32	297.15	5374.57	291.56	2.18 N	295.19 W	.70
5500	13.19	293.76	5471.91	313.58	12.03 N	315.88 W	.79
5600	12.76	275.87	5569.39	335.66	17.76 N	337.31 W	4.02
5700	11.54	266.41	5667.16	356.43	18.27 N	358.28 W	2.33
5800	11.42	263.53	5765.16	375.70	16.52 N	378.10 W	.59
5900	11.39	265.59	5863.19	394.81	14.65 N	397.78 W	.41
6000	11.48	269.16	5961.20	414.19	13.74 N	417.58 W	.71
6100	11.84	273.56	6059.14	434.19	14.23 N	437.77 W	.96
6200	11.80	276.10	6157.02	454.59	15.95 N	458.17 W	.52
6300	11.33	276.24	6254.99	474.61	18.11 N	478.10 W	.47
6400	11.15	279.43	6353.08	494.09	20.76 N	497.41 W	.65
6500	10.88	281.78	6451.23	513.18	24.27 N	516.18 W	.52
6600	10.58	280.40	6549.49	531.79	27.85 N	534.45 W	.39
6700	10.83	282.20	6647.75	550.35	31.49 N	552.66 W	.42
6800	11.16	283.35	6745.91	569.39	35.71 N	571.26 W	.39
6900	11.41	283.63	6843.98	588.91	40.28 N	590.28 W	.26
7000	11.02	282.49	6942.07	608.32	44.68 N	609.23 W	.44
7100	11.51	282.54	7040.14	627.82	48.91 N	628.30 W	.49
7200	11.09	284.80	7138.20	647.36	53.54 N	647.34 W	.61
7300	10.02	283.16	7236.51	665.61	57.97 N	665.10 W	1.11
7400	9.45	283.15	7335.07	682.48	61.82 N	681.56 W	.56
7500	9.26	282.88	7433.74	698.71	65.48 N	697.40 W	.20
7600	9.18	282.31	7532.45	714.71	68.98 N	713.04 W	.12
7700	9.42	279.32	7631.13	730.85	72.00 N	728.90 W	.54

COMPANY : NANCE PETROLEUM  
DATE : 04-NOV-0  
SERIAL NO: EW0236

COMPUTATION PAGE NO. 3  
TIME DATE  
08:57:09 04-NOV-02

MEASURED DEPTH FEET	DRIFT ANGLE DEG	DRIFT DIRECTION DEG	TRUE VERTICAL DEPTH		RECTANGULAR SECTION COORDINATES		DOGLEG SEVERITY DG/100FT
			FEET	FEET	FEET	FEET	
7800	9.91	273.53	7729.72	747.59	73.86 N	745.56 W	1.09
7900	10.40	269.55	7828.15	765.04	74.32 N	763.18 W	.86
8000	10.84	268.38	7926.44	783.17	73.98 N	781.61 W	.49
8100	12.05	265.35	8024.45	802.53	72.87 N	801.42 W	1.35
8200	13.04	263.15	8122.06	823.48	70.68 N	823.02 W	1.09
8300	14.33	263.18	8219.22	846.19	67.86 N	846.51 W	1.29
8400	15.31	262.62	8315.89	870.70	64.70 N	871.89 W	.99
8500	16.37	262.98	8412.10	896.85	61.28 N	898.96 W	1.06
8600	15.83	264.29	8508.18	923.53	58.20 N	926.51 W	.65
8700	15.50	265.35	8604.46	949.65	55.76 N	953.40 W	.43
8800	14.90	266.95	8700.97	975.16	53.99 N	979.55 W	.73
8900	14.52	267.20	8797.69	999.97	52.69 N	1004.92 W	.38
9000	13.34	267.23	8894.74	1023.51	51.52 N	1028.97 W	1.18
9031	13.38	268.90	8924.90	1030.53	51.28 N	1036.13 W	1.24

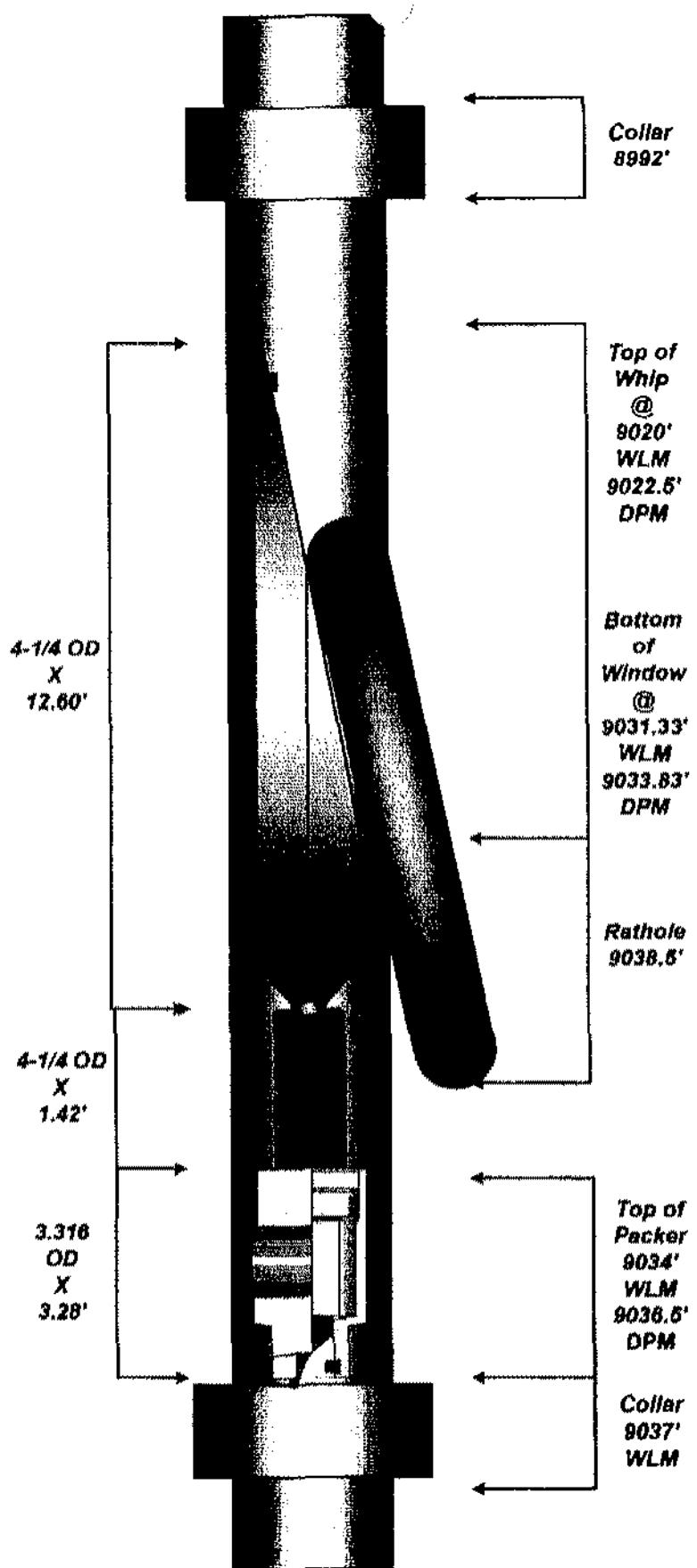
FINAL CLOSURE - DIRECTION: 272.83  
DISTANCE: 1037.40 FEET  
FILE NUMBER: 021



Baker Oil Tools

Nance Petroleum Corp  
Basic Game & Fish 34-4H  
November 4, 2002  
Les Fredrickson

Whipstock Face set 290 AZ





Company: NANCE PETROLEUM

Field: McKinzie Co.

Cty/Blk/Par: McKinzie Co.

INTEQ

Well Name: Basic Fish &amp; Game

Rig: J &amp; R #7

Job Number: 362610

Magnetic Decl.: 10.20

Calculation Method: Minimum Curvature

Proposed Azimuth: 268.8

Grid Corr.: RKB

Total Survey Corr.: 10.20

Depth Reference: Tie Into GYRO SURVEY

Target Info: 9124 TVD 1181'N 3921'W @ 90degrees

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	DLS (/100')	Bld Rate (/100')	Wlk Rate (/100')	Remarks
0	TIE	9031	13.38	268.90		8924.90	1006.93	51.27 N	1036.17 W				TIE IN
1	MWD	9070	20.90	299.50	39	8962.21	1018.06	54.62 N	1046.77 W	29.50	19.3	78.5	
2	MWD	9102	27.90	311.80	32	8991.36	1030.43	62.44 N	1057.34 W	26.93	21.9	38.4	
3	MWD	9134	37.70	317.10	32	9018.23	1045.70	74.63 N	1069.62 W	31.89	30.6	16.6	new target 9130 tvd
4	MWD	9165	48.00	313.60	31	9040.93	1064.21	89.56 N	1084.45 W	34.09	33.2	-11.3	
5	MWD	9197	51.80	310.40	32	9061.54	1086.35	105.91 N	1102.65 W	14.12	11.9	-10.0	
6	MWD	9228	57.10	300.60	31	9079.58	1110.20	120.47 N	1123.17 W	30.86	17.1	-31.6	
7	MWD	9260	60.60	298.80	32	9096.14	1136.89	134.02 N	1146.96 W	11.95	10.9	-5.6	
8	MWD	9292	67.10	294.30	32	9110.24	1165.17	146.82 N	1172.65 W	23.91	20.3	-14.1	
9	MWD	9323	72.90	294.60	31	9120.84	1194.03	158.88 N	1199.15 W	18.73	18.7	1.0	
10	MWD	9355	77.40	288.60	32	9129.04	1224.83	170.24 N	1227.90 W	22.93	14.1	-18.8	
11	MWD	9387	86.30	289.70	32	9133.57	1256.44	180.62 N	1257.79 W	28.02	27.8	3.4	new target 9129 tvd
12	MWD	9418	87.90	293.60	31	9135.14	1287.28	192.04 N	1286.56 W	13.58	5.2	12.6	
13	MWD	9440	88.90	292.80	22	9135.76	1309.14	200.71 N	1306.77 W	5.82	4.5	-3.6	
14	MWD	9450	90.40	293.90	10	9135.82	1319.07	204.67 N	1315.95 W	18.60	15.0	11.0	
15	MWD	9460	94.00	295.00	10	9135.43	1328.97	208.81 N	1325.04 W	37.64	36.0	11.0	
16	MWD	9473	96.90	295.00	13	9134.20	1341.78	214.27 N	1336.77 W	22.31	22.3	0.0	
17	MWD	9486	98.30	294.60	13	9132.48	1354.54	219.68 N	1348.47 W	11.19	10.8	-3.1	LAST SURVEY
18	PROJ	9530	100.00	294.00	44	9125.48	1397.60	237.55 N	1388.06 W	4.09	3.9	-1.4	projected @ bit
19	MWD												
20	MWD												



Company: NANCE PETROLEUM  
 Field: McKinzie Co.  
 Cty/Blk/Par: McKinzie Co.  
**INTEQ** Well Name: Basic Fish & Game  
 Rig: J & R #7

Job Number: 382010 Calculation Method  
 Magnetic Decl.: 10.20 Proposed Azimuth 286.8  
 Grid Corr.: Depth Reference RKB  
 Total Survey Corr.: 10.20 Tie Into GYRO SURVEY  
 Target Info: 9124 TVD 1181'N 3921'W @ 90degrees

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	DLS (°/100)	Bid Rate (/100)	Wlk Rate (/100)	Remarks
0	TIE	9031	13.38	268.90		8924.90	1006.93	51.27 N	1036.17 W				TIE IN
1	MWD	9070	20.90	299.50	39	8962.21	1018.06	54.62 N	1046.77 W	29.50	19.3	78.5	
2	MWD	9102	27.90	311.80	32	8991.36	1030.43	62.44 N	1057.34 W	26.93	21.9	38.4	
3	MWD	9134	37.70	317.10	32	9018.23	1045.70	74.63 N	1069.62 W	31.89	30.6	16.6	new target 9130 tvd
4	MWD	9165	48.00	313.60	31	9040.93	1064.21	89.56 N	1084.45 W	34.09	33.2	-11.3	
5	MWD	9197	51.80	310.40	32	9061.54	1086.35	105.91 N	1102.65 W	14.12	11.9	-10.0	
6	MWD	9228	57.10	300.60	31	9079.58	1110.20	120.47 N	1123.17 W	30.86	17.1	-31.6	
7	MWD	9260	60.60	298.80	32	9096.14	1136.89	134.02 N	1146.96 W	11.95	10.9	-5.6	
8	MWD	9292	67.10	294.30	32	9110.24	1165.17	146.82 N	1172.65 W	23.91	20.3	-14.1	
9	MWD	9323	72.90	294.60	31	9120.84	1194.03	158.88 N	1199.15 W	18.73	18.7	1.0	
10	MWD	9355	77.40	288.60	32	9129.04	1224.83	170.24 N	1227.90 W	22.93	14.1	-18.8	
11	MWD	9387	86.30	289.70	32	9133.57	1256.44	180.62 N	1257.79 W	28.02	27.8	3.4	new target 9129 tvd
12	MWD	9418	87.90	293.60	31	9135.14	1287.28	192.04 N	1286.56 W	13.58	5.2	12.6	
13	MWD	9440	88.90	292.80	22	9135.76	1309.14	200.71 N	1306.77 W	5.82	4.5	-3.6	
14	MWD	9473	91.00	293.90	33	9135.79	1341.92	213.79 N	1337.06 W	7.18	6.4	3.3	ST @ 9485' TF @ 145L
15	MWD	9505	92.70	292.80	32	9134.75	1373.69	226.46 N	1366.43 W	6.33	5.3	-3.4	
16	MWD	9537	93.80	292.10	32	9132.94	1405.48	238.66 N	1395.95 W	4.07	3.4	-2.2	new target 9130-8132
17	MWD	9569	92.00	290.70	32	9131.32	1437.33	250.32 N	1425.71 W	7.12	-5.6	-4.4	
18	MWD	9600	88.80	290.00	31	9131.10	1468.26	261.10 N	1454.77 W	10.57	-10.3	-2.3	
19	MWD	9632	88.70	289.70	32	9131.80	1500.21	271.96 N	1484.86 W	0.99	-0.3	-0.9	
20	MWD	9663	91.30	290.40	31	9131.80	1531.15	282.59 N	1513.98 W	8.69	8.4	2.3	
21	MWD	9695	92.80	289.70	32	9130.66	1563.08	293.55 N	1544.02 W	5.17	4.7	-2.2	
22	MWD	9726	92.20	289.00	31	9129.30	1594.02	303.82 N	1573.24 W	2.97	-1.9	-2.3	
23	MWD	9756	91.80	287.90	30	9128.26	1623.99	313.30 N	1601.68 W	3.90	-1.3	-3.7	
24	MWD	9788	93.00	286.50	32	9126.92	1655.96	322.76 N	1632.22 W	5.76	3.8	-4.4	
25	MWD	9820	88.50	286.50	32	9126.50	1687.95	331.84 N	1662.89 W	14.06	-14.1	0.0	



Company: NANCE PETROLEUM  
 Field: McKinzie Co.  
 Cty/Blk/Par: McKinzie Co.  
**INTEQ**  
 Well Name: Basic Fish & Game  
 Rig: J & R #7

Job Number: 302010 Calculation Method: Minimum Curvature  
 Magnetic Decl.: 10.20 Proposed Azimuth: 286.8  
 Grid Corr.: Depth Reference: RKB  
 Total Survey Corr.: 10.20 Tie Into GYRO SURVEY  
 Target Info: 9124 TVD 1181'N 3921'W @ 90degrees

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	DLS ('/100')	Bld Rate ('/100')	Wlk Rate ('/100')	Remarks
26	MWD	9851	86.00	285.50	31	9127.99	1718.90	340.38 N	1692.66 W	8.68	-8.1	-3.2	
27	MWD	9883	89.00	285.10	32	9129.38	1750.86	348.81 N	1723.49 W	9.46	9.4	-1.2	
28	MWD	9915	89.60	284.40	32	9129.77	1782.84	356.96 N	1754.43 W	2.88	1.9	-2.2	
29	MWD	9946	89.60	283.70	31	9129.99	1813.80	364.49 N	1784.50 W	2.26	0.0	-2.3	
30	MWD	9978	92.00	285.50	32	9129.54	1845.77	372.55 N	1815.46 W	9.37	7.5	5.6	
31	MWD	10010	93.00	288.60	32	9128.15	1877.74	381.92 N	1846.02 W	10.17	3.1	9.7	
32	MWD	10042	93.70	287.90	32	9126.28	1909.67	391.93 N	1876.36 W	3.09	2.2	-2.2	
33	MWD	10073	90.80	286.90	31	9125.06	1940.64	401.19 N	1905.91 W	9.89	-9.4	-3.2	
34	MWD	10105	90.90	289.30	32	9124.58	1972.63	411.13 N	1936.33 W	7.51	0.3	7.5	
35	MWD	10134	90.70	290.00	29	9124.18	2001.59	420.88 N	1963.63 W	2.51	-0.7	2.4	
36	MWD	10166	90.70	292.50	32	9123.79	2033.48	432.47 N	1993.45 W	7.81	0.0	7.8	
37	MWD	10198	92.10	292.80	32	9123.01	2065.30	444.79 N	2022.98 W	4.47	4.4	0.9	
38	MWD	10229	92.00	293.60	31	9121.90	2096.09	457.00 N	2051.45 W	2.60	-0.3	2.6	
39	MWD	10261	90.30	292.10	32	9121.25	2127.90	469.42 N	2080.93 W	7.08	-5.3	-4.7	
40	MWD	10292	90.60	291.10	31	9121.01	2158.79	480.83 N	2109.75 W	3.37	1.0	-3.2	
41	MWD	10324	90.90	291.40	32	9120.59	2190.69	492.43 N	2139.58 W	1.33	0.9	0.9	
42	MWD	10356	89.90	292.10	32	9120.37	2222.56	504.29 N	2169.30 W	3.81	-3.1	2.2	
43	MWD	10387	89.20	292.10	31	9120.61	2253.43	515.95 N	2198.02 W	2.26	-2.3	0.0	
44	MWD	10419	87.80	290.00	32	9121.45	2285.33	527.44 N	2227.87 W	7.89	-4.4	-6.6	
45	MWD	10451	87.20	288.30	32	9122.85	2317.27	537.93 N	2258.07 W	5.63	-1.9	-5.3	
46	MWD	10482	90.20	287.90	31	9123.55	2348.25	547.55 N	2287.52 W	9.76	9.7	-1.3	
47	MWD	10514	92.10	289.70	32	9122.91	2380.22	557.86 N	2317.81 W	8.18	5.9	5.6	
48	MWD	10546	90.60	290.00	32	9122.15	2412.16	568.72 N	2347.90 W	4.78	-4.7	0.9	
49	MWD	10578	87.40	287.20	32	9122.71	2444.13	578.93 N	2378.21 W	13.29	-10.0	-8.8	
50	MWD	10609	88.30	286.90	31	9123.87	2475.11	588.01 N	2407.83 W	3.06	2.9	-1.0	



Company: NANCE PETROLEUM

Field: McKinzie Co.

Cty/Blk/Par: McKinzie Co.

Well Name: Basic Fish &amp; Game

INTEQ

Rig: J &amp; R #7

Job Number: 382U1U

Calculation Method

Minimum Curvature

10.20

Proposed Azimuth 286.8

Magnetic Decl.: Grid Corr.:

Depth Reference RKB

Total Survey Corr.: 10.20

Tie Into GYRO SURVEY

Target Info:

9124 TVD 1181'N 3921'W @ 90degrees

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	DLS (°/100')	Bld Rate ('/100')	Wlk Rate ('/100')	Remarks	
51	MWD	10641	89.10	288.60	32	9124.60	2507.09	597.76	N	2438.30	W	5.87	2.5	5.3
52	MWD	10673	91.00	289.00	32	9124.57	2539.07	608.08	N	2468.59	W	6.07	5.9	1.2
53	MWD	10705	90.80	291.10	32	9124.07	2571.01	619.04	N	2498.64	W	6.59	-0.6	6.6
54	MWD	10737	90.80	290.00	32	9123.62	2602.94	630.28	N	2528.60	W	3.44	0.0	-3.4
55	MWD	10769	91.70	291.10	32	9122.93	2634.86	641.51	N	2558.56	W	4.44	2.8	3.4
56	MWD	10800	92.70	290.70	31	9121.74	2665.76	652.56	N	2587.50	W	3.47	3.2	-1.3
57	MWD	10832	92.00	290.70	32	9120.42	2697.65	663.86	N	2617.41	W	2.19	-2.2	0.0
58	MWD	10863	91.80	290.40	31	9119.40	2728.57	674.73	N	2646.42	W	1.16	-0.6	-1.0
59	MWD	10894	91.70	290.40	31	9118.45	2759.49	685.53	N	2675.46	W	0.32	-0.3	0.0
60	MWD	10926	90.40	289.70	32	9117.86	2791.43	696.50	N	2705.52	W	4.61	-4.1	-2.2
61	MWD	10958	86.50	291.40	32	9118.73	2823.34	707.73	N	2735.46	W	13.29	-12.2	5.3
62	MWD	10989	85.50	292.10	31	9120.89	2854.15	719.19	N	2764.18	W	3.93	-3.2	2.3
63	MWD	11021	85.90	291.80	32	9123.29	2885.93	731.12	N	2793.78	W	1.56	1.3	-0.9
64	MWD	11053	90.30	295.00	32	9124.35	2917.69	743.81	N	2823.12	W	17.00	13.8	10.0
65	MWD	11084	91.80	294.60	31	9123.78	2948.38	756.81	N	2851.26	W	5.01	4.8	-1.3
66	MWD	11116	90.40	292.50	32	9123.17	2980.14	769.60	N	2880.58	W	7.89	-4.4	-6.6
67	MWD	11148	90.00	290.00	32	9123.06	3012.04	781.19	N	2910.41	W	7.91	-1.3	-7.8
68	MWD	11180	89.60	287.60	32	9123.17	3044.02	791.50	N	2940.70	W	7.60	-1.3	-7.5
69	MWD	11211	90.50	289.30	31	9123.14	3075.00	801.31	N	2970.10	W	6.20	2.9	5.5
70	MWD	11243	88.90	291.40	32	9123.31	3106.94	812.44	N	3000.10	W	8.25	-5.0	6.6
71	MWD	11275	86.10	291.80	32	9124.70	3138.79	824.21	N	3029.82	W	8.84	-8.8	1.3
72	MWD	11306	85.00	290.00	31	9127.11	3169.61	835.23	N	3058.69	W	6.79	-3.5	-5.8
73	MWD	11338	88.10	290.70	32	9129.04	3201.49	846.34	N	3088.64	W	9.93	9.7	2.2
74	MWD	11370	90.10	289.00	32	9129.54	3233.44	857.20	N	3118.73	W	8.20	6.3	-5.3
75	MWD	11402	91.70	289.30	32	9129.04	3265.40	867.70	N	3148.95	W	5.09	5.0	0.9

<b>BAKER HUGHES</b>	Company: <u>MANCER PETROLEUM</u>	Job Number: <u>382010</u>	Calculation Method: <u>Proposed Azimuth</u>	<u>286.8</u>
	Field: <u>McKinzie Co.</u>	Magnetic Decl.: <u>10.20</u>	Depth Reference: <u>RKB</u>	
	City/Blk/Par: <u>McKinzie Co.</u>	Grid Corr.: <u></u>		
<b>INTEQ</b>	Well Name: <u>Basic Fish &amp; Game</u>	Total Survey Corr.: <u>10.20</u>	Tie Into: <u>GYRO SURVEY</u>	
	Rig: <u>J &amp; R #7</u>	Target Info: <u>9124 TVD 1181'N 3921'W @ 90degrees</u>		

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	DLS (°/100')	Sid Rate (°/100')	Wlk Rate (°/100')	Remarks
76	MWD	11433	92.00	289.30	31	9128.03	3298.36	877.94 N	3178.20 W	0.97	1.0	0.0	
77	MWD	11464	92.50	290.00	31	9126.82	3327.29	888.36 N	3207.37 W	2.77	1.6	2.3	
78	MWD	11496	92.40	291.10	32	9125.45	3359.19	899.58 N	3237.31 W	3.45	-0.3	3.4	
79	MWD	11528	92.20	291.80	32	9124.17	3391.06	911.27 N	3267.06 W	2.27	-0.6	2.2	
80	MWD	11560	93.50	292.80	32	9122.57	3422.87	923.40 N	3296.63 W	5.12	4.1	3.1	
81	MWD	11591	92.50	293.20	31	9120.95	3453.64	935.50 N	3326.13 W	3.47	-3.2	1.3	
82	MWD	11623	93.20	292.50	32	9119.36	3485.42	947.91 N	3354.58 W	3.09	2.2	-2.2	
83	MWD	11642	92.90	293.20	19	9118.35	3504.29	955.27 N	3372.07 W	4.00	-1.6	3.7	
84	Projec	11680	92.90	293.20	38	9116.43	3542.00	970.22 N	3406.95 W	0.00	0.0	0.0	Projection to bit pull 9-jts for sidetrack
85	MWD												
86	MWD												
87	MWD												
88	MWD												
89	MWD												
90	MWD												
91	MWD												
92	MWD												
93	MWD												
94	MWD												
95	MWD												
96	MWD												
97	MWD												
98	MWD												
99	MWD												
100													



Company: NANCE PETROLEUM

Field: McKinzie Co.

Cty/Blk/Par: McKinzie Co.

INTEQ

Well Name: Basic Fish &amp; Game

Rig: J &amp; R #7

Job Number:

382010

Calculation Method

Minimum Curvature

Magnetic Decl.:

10.20

Proposed Azimuth 286.8

Grid Corr.:

Depth Reference RKB

Total Survey Corr.:

10.20

Tie Into GYRO SURVEY

Target Info:

SIDETRACK # 2

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates		DLS (°/100')	Bld Rate ('/100')	Wlk Rate ('/100')	Remarks		
								N/S (ft)	E/W (ft)						
76	MWD	11433	89.20	289.70	31	9128.79	3296.38	877.68	N	3178.30	W	8.81	-8.1	3.5	First survey in ST.
77	MWD	11464	87.20	292.50	31	9129.77	3327.27	888.84	N	3207.20	W	11.10	-6.5	9.0	
78	MWD	11496	86.10	296.00	32	9131.64	3358.94	901.95	N	3236.32	W	11.45	-3.4	10.9	
79	MWD	11528	86.90	299.50	32	9133.59	3390.29	916.82	N	3264.59	W	11.20	2.5	10.9	
80	MWD	11560	89.00	300.60	32	9134.73	3421.41	932.84	N	3292.26	W	7.41	6.6	3.4	
81	MWD	11591	90.90	301.30	31	9134.76	3451.48	948.78	N	3318.85	W	6.53	6.1	2.3	
82	MWD	11623	92.40	301.30	32	9133.84	3482.42	965.40	N	3346.18	W	4.69	4.7	0.0	
83	MWD	11654	88.00	300.20	31	9133.73	3512.50	981.24	N	3372.81	W	14.63	-14.2	-3.5	
84	MWD	11686	85.90	299.90	32	9135.43	3543.59	997.24	N	3400.47	W	6.63	-6.6	-0.9	
85	MWD	11717	88.10	301.60	31	9137.06	3573.63	1013.07	N	3427.07	W	8.96	7.1	5.5	
86	MWD	11749	90.90	302.70	32	9137.34	3604.48	1030.10	N	3454.16	W	9.40	8.8	3.4	
87	MWD	11780	91.50	304.10	31	9136.69	3634.17	1047.16	N	3480.04	W	4.91	1.9	4.5	
88	MWD	11812	92.60	304.10	32	9135.54	3664.70	1065.08	N	3506.52	W	3.44	3.4	0.0	
89	MWD	11843	94.60	304.80	31	9133.60	3694.17	1082.59	N	3532.03	W	6.83	6.5	2.3	
90	MWD	11875	96.20	304.80	32	9130.58	3724.46	1100.77	N	3558.19	W	5.00	5.0	0.0	
91	MWD	11906	93.00	304.80	31	9128.10	3753.84	1118.40	N	3583.56	W	10.32	-10.3	0.0	
92	MWD	11938	89.90	306.60	32	9127.29	3784.09	1137.06	N	3609.53	W	11.20	-9.7	5.6	
93	MWD	11970	88.40	307.30	32	9127.76	3814.12	1156.30	N	3635.10	W	5.17	-4.7	2.2	
94	MWD	12002	88.10	306.90	32	9128.74	3844.11	1175.59	N	3660.61	W	1.56	-0.9	-1.3	
95	MWD	12040	91.90	307.60	38	9128.74	3879.70	1198.59	N	3690.86	W	10.17	10.0	1.8	first survey bha # 6
96	MWD	12072	91.80	308.70	32	9127.71	3909.48	1218.34	N	3716.01	W	3.45	-0.3	3.4	
97	MWD	12104	93.90	309.00	32	9126.12	3939.09	1238.39	N	3740.90	W	6.63	6.6	0.9	
98	MWD	12136	95.30	309.00	32	9123.55	3968.62	1258.46	N	3765.68	W	4.38	4.4	0.0	
99	MWD	12167	92.40	310.10	31	9121.47	3997.13	1278.16	N	3789.53	W	10.00	-9.4	3.5	
100	MWD	12199	90.50	310.10	32	9120.66	4026.50	1298.76	N	3814.00	W	5.94	-5.9	0.0	



Company: NANCE PETROLEUM  
 Field: McKinzie Co.  
 Cty/Blk/Par: McKinzie Co.  
**INTEQ** Well Name: Basic Fish & Game  
 Rig: J & R #7

Job Number: 382010 Calculation Method: Minimum Curvature  
 Magnetic Decl.: 10.20 Proposed Azimuth: 286.8  
 Grid Corr.: Depth Reference: RKB  
 Total Survey Corr.: 10.20 Tie Into GYRO SURVEY  
 Target Info: SIDETRACK # 2

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates		DLS (°/100')	Bld Rate ('/100')	Wlk Rate ('/100')	Remarks	
101	MWD	12230	91.50	309.00	31	9120.12	4055.07	1318.50	N	3837.90	W	4.80	3.2	-3.5
102	MWD	12262	89.40	308.70	32	9119.87	4084.72	1338.57	N	3862.82	W	6.63	-6.6	-0.9
103	MWD	12294	87.60	308.30	32	9120.71	4114.43	1358.48	N	3887.85	W	5.76	-5.6	-1.2
104	MWD	12325	86.80	307.30	31	9122.22	4143.33	1377.46	N	3912.32	W	4.13	-2.6	-3.2
105	MWD	12357	86.50	304.40	32	9124.09	4173.52	1396.17	N	3938.21	W	9.10	-0.9	-9.1
106	MWD	12389	86.90	299.90	32	9125.93	4204.31	1413.16	N	3965.25	W	14.09	1.3	-14.1
107	MWD	12420	91.30	298.10	31	9126.42	4234.59	1428.18	N	3992.35	W	15.33	14.2	-5.8
108	MWD	12453	94.30	297.80	33	9124.81	4266.92	1443.63	N	4021.46	W	9.14	9.1	-0.9
109	MWD	12484	94.90	297.10	31	9122.32	4297.29	1457.87	N	4048.88	W	2.97	1.9	-2.3
110	MWD	12515	90.10	297.10	31	9120.97	4327.75	1471.98	N	4076.44	W	15.48	-15.5	0.0
111	MWD	12547	88.70	296.40	32	9121.30	4359.26	1486.38	N	4105.02	W	4.89	-4.4	-2.2
112	MWD	12579	90.50	295.30	32	9121.53	4390.85	1500.33	N	4133.81	W	6.59	5.6	-3.4
113	MWD	12610	89.70	293.60	31	9121.47	4421.57	1513.16	N	4162.03	W	6.06	-2.6	-5.5
114	MWD	12642	89.10	292.50	32	9121.81	4453.38	1525.69	N	4191.48	W	3.92	-1.9	-3.4
115	MWD	12674	90.10	292.10	32	9122.03	4485.23	1537.83	N	4221.08	W	3.37	3.1	-1.2
116	MWD	12705	90.40	290.70	31	9121.90	4516.13	1549.14	N	4249.94	W	4.62	1.0	-4.5
117	MWD	12737	90.80	290.70	32	9121.56	4548.05	1560.45	N	4279.87	W	1.25	1.2	0.0
118	PROJ	12800	90.80	290.70	63	9120.68	4610.89	1582.72	N	4338.80	W	0.00	0.0	Projected @ Bit
119	MWD												@ T.D.	
120	MWD													

## BIT RECORD

OPERATOR: Nance Petroleum Corporation  
 CONTRACTOR: J & R Well Service Rig #7  
 GROUND LEVEL: GL: 1,850'

WELL NAME: Basic Game & Fish 34-3H RE-ENTRY DATE: 11/02/02  
 LOCATION: SW SW Section 2, T153N, R101W  
 KELLY BUSHING: KB: 1,863' TD DEPTH DATE: 12,800', 11/20/02

No.	Size	Mfg.	Type	Serial No.	Adv.	Depth	Lip ID	ID	Length	Diameter	Weight	SWL	Lip ID	ID	Length	Diameter	Weight	SWL
1	4.5"	BHI	STX30	5021373	open	9038	9475	437	28	26.0	5-10	55	96	1170	8.4	28		
2	4.5"	BHI	STX30	5E+06	open	9,475'	10856	1451	53	81.0	6-16	70	93	1760	8.4+	28		
3	4.5"	BHI	STX30	5E+06	open	10,856'	12,040'	1474	82.0	163.0	6-30	70	88	1900	8.4	28		
4	4.5"	RTC	SL53AKP	U67952	open	12,040'	12,800'	760'	43	206.0	6-50	70	91	1760	8.4+	28		

## FORMATION TOPS

(original well)

FORMATION / ZONE	Basic Earth Science Systems, Inc. Basic Game & Fish 34-3 sw sw Sec.2 KB: 1872'				John L. Cox French Pinney 24-3 se sw Sec. 3 KB: 1871'		
	E-LOG	TVD	DATUM	THICK	E-Log	DATUM	THICK
Greenhorn	4,354'	4,351'	-2,479'	208'	4346	-2475	204
Belle Fourche	4,565'	4,559'	-2,687	180'	4550	-2679	187
Mowry	4,748'	4,739'	-2,867	151'	4737	-2866	154
Muddy	4,902'	4,890'	-3,018	10'	4891	-3020	16
Skull Creek	4,913'	4,900'	-3,028	222'	4907	-3036	215
Dakota (Inyan Kara)	5,140'	5,122'	-3,250	489'	5122	-3251	495
Swift	5,643'	5,611'	-3,739	464'	5617	-3746	468
Rierdon	6,116'	6,075'	-4,203	98'	6085	-4214	92
Piper	6,216'	6,173'	-4,301	506'	6177	-4306	521
Spearfish	6,732'	6,679'	-4,807	400'	6698	-4827	394
Minnekahta	7,140'	7,079'	-5,207	20'	7092	-5221	14
Opeche	7,160'	7,099'	-5,227	206'	7106	-5235	208
Minnelusa	7,370'	7,305'	-5,433	320'	7314	-5443	327
Tyler	7,694'	7,625'	-5,753	73'	7641	-5770	77
Otter	7,768'	7,698'	-5,826	185'	7718	-5847	194
Kibbey	7,956'	7,883'	-6,011	169'	7912	-6041	155
Kibbey lime	8,128'	8,052'	-6,180	51'	8,067'	-6,196'	50'
Lower Kibbey	8,180'	8,103'	-6,231	93'	8,117'	-6,246'	91'
Charles	8,276'	8,196'	-6,324	604'	8,208'	-6,337'	594'
Greenpoint	8,902'	8,800'	-6,928	93'	8,802'	-6,931'	104'
Base Last Salt	8,998'	8,893'	-7,021	74'	8,906'	-7,035'	74'
Ratcliffe	9,074'	8,967'	-7,096	80'	8,980'	-7,109'	78'
Midale	9,156'	9,047'	-7,175	76'	9,058'	-7,187'	76'
Mission Canyon	9,235'	9,123'	-7,251	-	9,134'	-7,263'	572'
Lodgepole	-	-	-	-	9,706'	-7,835'	686'
Bakken	-	-	-	-	10,392'	-8521	61'
Three Forks	-	-	-	-	10,453'	-8582	199'
Nisku	-	-	-	-	10,652'	-8781	94'
Duperow	-	-	-	-	10,746'	-8875	416'
Souris River	-	-	-	-	11,162'	-9291	278'
Dawson Bay	-	-	-	-	11,440'	-9569	106'
Prairie	-	-	-	-	11,546'	-9675	211'
Winnipegosis	-	-	-	-	11,757'	-9886	195'
Ashern	-	-	-	-	11,952'	-10081	101'
Interlake	-	-	-	-	12,053'	-10182	847'
Stonewall	-	-	-	-	12,900'	-11029	100'
Stony Mountain	-	-	-	-	13,000'	-11129	136'
Red River	-	-	-	-	13,136'	-11265	289'
Total depth	9,718'		-7846	-	13,425	-11554	-

## Dip Estimates

Basic G&F 34-3H

Marker	MD	TVD	Subsea	Vsec	TVD diff.	Vsec diff.	Dip	Dipping up/down	Hit Marker Going	Comment
Top of Nesson *	9350.00	9127.90	-7264.90	1220.00	-	-	-	-	down	Lateral #1
Top of Nesson	9521.00	9127.00	-7264.00	1388.80	-0.90	168.80	0.31	up	up	Lateral #1
Top of Nesson *	9785.00	9127.10	-7264.10	1653.00	0.10	264.20	-0.02	flat	up	Sidetrack #1
Top of Nesson *	9840.00	9127.20	-7264.20	1707.90	0.10	54.90	-0.10	down	down	Sidetrack #1
Top of Nesson	10280.00	9121.10	-7258.10	2146.80	-6.10	438.90	0.80	up	up	Sidetrack #1
Top of Nesson	10400.00	9120.70	-7257.70	2266.40	-0.40	119.60	0.19	up	down	Sidetrack #1
Top of Nesson *	10800.00	9121.75	-7258.75	2665.80	1.05	399.40	-0.15	down	up	Sidetrack #1
Top of Nesson *	11006.00	9122.20	-7259.20	2870.90	0.45	205.10	-0.13	down	down	Sidetrack #1
Top of Nesson *	11236.00	9123.20	-7260.20	3099.90	1.00	229.00	-0.25	down	up	Sidetrack #1
Top of Nesson *	11280.00	9125.00	-7262.00	3143.80	1.80	43.90	-2.35	down	down	Sidetrack #1
Top of Nesson *	11620.00	9119.50	-7256.50	3482.40	-5.50	338.60	0.93	up	up	Sidetrack #1
Top of Nesson *	12188.00	9120.60	-7257.60	4016.40	1.10	534.00	-0.12	down	up	Sidetrack #2
Top of Nesson *	12307.00	9121.25	-7258.25	4127.50	0.65	111.10	-0.34	down	down	Sidetrack #2
Top of Nesson	12515.00	9120.50	-7257.50	4327.75	-0.75	200.25	0.21	up	up	Sidetrack #2
Top of Nesson	12755.00	9121.30	-7258.30	4566.10	0.80	238.35	-0.19	down	up	Sidetrack #2
Base of top porosity	9380.00	9133.10	-7270.10	1249.50	-	-	-	-	down	Lateral #1
Base of top porosity	9487.00	9132.30	-7269.30	1355.50	-0.80	106.00	0.43	up	up	Lateral #1
Base of top porosity	9556.00	9131.80	-7268.80	1424.40	-0.50	68.90	0.42	up	up	Sidetrack #1
Base of top porosity	9900.00	9129.70	-7266.70	1767.80	-2.10	343.40	0.35	up	down	Sidetrack #1
Base of top porosity	10000.00	9128.70	-7265.70	1867.70	-1.00	99.90	0.57	up	up	Sidetrack #1
Base of top porosity	10630.00	9124.40	-7261.40	2496.10	-4.30	628.40	0.39	up	down	Sidetrack #1
Base of top porosity	10730.00	9123.70	-7260.70	2596.00	-0.70	99.90	0.40	up	up	Sidetrack #1
Base Nesson *	11710.00	9136.80	-7273.80	3566.80	-	-	-	-	down	Sidetrack #2
Base Nesson *	11778.00	9136.60	-7273.60	3632.30	-0.20	65.50	0.17	up	up	Sidetrack #2

\* = GR confirmation

Other markers based on natural deflections & drill rate changes

## LITHOLOGY

**Note:** Rig crews caught 10' lagged samples from 9,038' to 9,430', and 30' lagged samples from 9,430' to 9,530' in lateral #1. Lagged 10' samples were caught from 9,460' to 9,500' in sidetrack #1, and 30' lagged samples from 9,500' to 11,680. Sidetrack #2 was initiated at 11,390', with 30' lagged sampling from 11,390' to 12,800' (TD). Gamma Ray marker tops are inserted in the sample description below for reference. Sample descriptions began in the lower Charles Formation below the "Last Salt". The drilling fluid was fresh water.

9038' - 9040'	Cement with trace of dolomite
9040' - 9050'	<u>Dolomite</u> : light gray, very fine crystalline, anhydritic, moderately hard, mineral fluorescence, no cut, no visible porosity with cement
9050' - 9060'	<u>Anhydrite</u> : off white, light gray, very fine crystalline, dolomitic, moderately hard to soft
9060' - 9070'	<u>Dolomite</u> : light gray brown, light brown, very fine crystalline, anhydritic, moderately hard, mineral fluorescence, no cut, no visible porosity [60%] <u>Anhydrite</u> : off white, light gray, as above [40%]

### GR top Ratcliffe 9,078' MD, 8,970' TVD, (-7107')

9070' - 9080'	<u>Limestone</u> : light brown, very fine to microcrystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no visible open porosity [50%] <u>Dolomite</u> : light gray brown, light brown, as above, slightly argillaceous [30%] <u>Anhydrite</u> : light gray, off white, as above [20%]
9080' - 9090'	no sample
9090' - 9100'	<u>Limestone</u> : light brown, very fine to microcrystalline, as above, trace stylolites [50%] <u>Anhydrite</u> : off white, very fine crystalline, slightly calcareous, moderately hard [50%]
9100' - 9110'	no sample

9110' - 9120'	<u>Limestone</u> :	light to medium brown, tan, very fine crystalline, trace peloidal, occasional spotty black oil stain, anhydritic in part, dull green fluorescence, <u>slow streaming cut in part</u> , poor to very poor intercrystalline & interparticle porosity, surface oil from mud
9120' - 9140'	<u>Limestone</u> :	light to rare medium brown, tan, as above, with surface oil from mud, very fine cuttings size
9140' - 9150'	<u>Limestone</u> :	light brown, tan, very fine crystalline, decreasing visible stain & porosity from above, occasional dull green fluorescence, <u>trace weak cut</u> , trace very poor intercrystalline porosity [70%]
	<u>Anhydrite</u> :	off white, very fine crystalline, calcareous, occasionally mottled with limestone [30%]
9150' - 9160'	<u>Limestone</u> :	light to medium brown, very fine crystalline, slightly argillaceous, moderately hard, occasional chalky & anhydritic, no fluorescence, no cut, no visible open porosity, surface oil from mud
9160' - 9170'	<u>Limestone</u> :	light to occasional medium brown, as above, surface oil from mud
9170' - 9190'	<u>Limestone</u> :	light to medium brown, medium gray brown, very fine crystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no visible open porosity, surface oil from mud, very fine cuttings size

**GR top Midale 9,189' MD, 9,056' TVD, (-7193')**

9190' - 9220'	<u>Limestone</u> :	light gray, light to occasional medium brown, very fine crystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no visible porosity, surface oil from mud, very fine cuttings size
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9220' - 9230'	<u>Limestone</u> :	medium to light gray, medium to light gray brown, very fine crystalline, slightly to moderately argillaceous, trace very fine pyrite, moderately hard, no fluorescence, no cut, no visible open porosity, surface oil from mud, normal cuttings size
9230' - 9240'	<u>Limestone</u> :	light to medium gray, light to medium gray brown, as above, very small cuttings size
9240' - 9270'	<u>Limestone</u> :	light to medium gray, light to medium gray brown, very fine crystalline, slightly to moderately argillaceous, moderately hard, no fluorescence, no cut, no visible open porosity, surface oil from mud, small cuttings size
9270' - 9280'	<u>Limestone</u> :	light to medium gray, light gray brown, as above, slightly argillaceous, occasional anhydritic, normal cuttings size
9280' - 9290'	<u>Limestone</u> :	medium to occasional light gray brown, medium gray, very fine crystalline, slightly argillaceous, moderately hard, occasional anhydritic, no fluorescence, no cut, no visible open porosity, normal cuttings size
9290' - 9320'	<u>Limestone</u> :	medium to light gray brown, medium to light gray, very fine crystalline, slightly argillaceous, moderately hard, occasional anhydritic, no fluorescence, no cut, no visible open porosity, surface oil from mud
9320' - 9330'	<u>Limestone</u> :	medium to light gray, very fine crystalline, moderately hard, occasional argillaceous inclusions, minor white to clear anhydrite crystals, no fluorescence, no cut, no visible open porosity
9330' - 9340'	<u>Limestone</u> :	medium to light gray, very fine crystalline, moderately hard, argillaceous, minor white to clear anhydrite crystals, no fluorescence, no cut, no visible open porosity

9340' - 9350'      Limestone:      medium to light gray, very fine crystalline, moderately hard, argillaceous, minor white to clear anhydrite crystals, no fluorescence, no cut, no visible open porosity, minor brown gray, platy, locally dolomitic

**GR top Mission Canyon (Nesson) 9,350' MD, 9,127.9' TVD, (-7264.9')**

9350' - 9360'      Limestone:      brown gray, medium to light gray, fine crystalline, moderately hard, occasionally fragmental, visible open porosity, minor white to clear anhydrite, locally dolomitic, minor fluorescence, streaming cut

9360' - 9370'      Limestone:      tan to cream, minor medium to light gray, fine crystalline, moderately hard, commonly fragmental, locally peloidal, minor white to clear anhydrite, locally dolomitic, visible open porosity, minor fluorescence, streaming cut

9370' - 9380'      Limestone:      tan to cream, fine crystalline, moderately hard, platy, commonly fragmental, locally peloidal, minor white to clear anhydrite, locally dolomitic, visible open porosity, minor fluorescence, streaming cut

9380' - 9390'      Limestone:      tan to cream, fine crystalline, moderately hard, platy, locally fragmental, locally peloidal, minor white to clear anhydrite, locally dolomitic, minor oil staining, visible open porosity, minor fluorescence, streaming cut

9390' - 9400'      Limestone:      tan to cream, very fine crystalline, moderately hard, locally fragmental, locally peloidal, minor white to clear anhydrite, local weak oil staining, visible open porosity, minor fluorescence, blooming cut

9400' - 9410'      Limestone:      tan to cream, moderately hard, very fine crystalline, locally fragmental, locally peloidal, minor white to clear anhydrite, local weak oil staining, visible open porosity, minor fluorescence, blooming cut

9410' - 9420'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, locally fragmental, locally peloidal, minor white anhydrite, local weak oil staining, visible open porosity, minor fluorescence, <u>blooming cut</u>
9420' - 9430'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, locally fragmental, locally peloidal, minor white anhydrite, locally dolomitic, local minor oil staining, visible open porosity, minor fluorescence, <u>blooming cut</u>
9430' - 9450'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, fine fragmental, minor white anhydrite, local minor oil staining, trace very poor interparticle porosity, minor fluorescence, <u>blooming cut</u>

**Begin 30' lagged samples**

9450' - 9480'	<u>Limestone:</u>	tan, cream, very fine crystalline, fine fragmental & occasional peloidal, moderately hard, yellow fluorescence, <u>streaming cut</u> , very poor interparticle porosity, decreasing anhydrite
9480' - 9510'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental & peloidal texture, yellow fluorescence, yellow fluorescence, <u>streaming cut</u> , very poor interparticle & small pin point vuggy porosity, surface oil from mud
9510' - 9530'	<u>Limestone:</u>	light brown, tan, very fine to occasional microcrystalline, moderately hard, yellow fluorescence, <u>streaming cut</u> , no visible open porosity, surface oil from mud, becoming slightly argillaceous, trace stylolites
9530 + circulation	<u>Limestone:</u>	medium to light gray, medium to light gray brown, very fine crystalline, slightly to moderately argillaceous, moderately hard, no fluorescence, no cut, no visible porosity, surface oil from mud

**Back up to sidetrack @ 9,530' MD**

9460' - 9470'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, commonly fragmental, locally peloidal, minor white to clear anhydrite, patchy yellow fluorescence, <u>streaming cut</u> , visible interparticle porosity
9470' - 9480'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, fragmental, yellow fluorescence in part, <u>slow streaming cut in part</u> , very poor interparticle & small pin point vuggy porosity, trace clear to white anhydrite
9480' - 9490'	<u>Limestone:</u>	tan, cream, very fine crystalline, decreasing fragmental from above, increased anhydritic, yellow fluorescence in part, <u>weak cut</u> , trace very poor interparticle porosity and small pin point vugs, small cuttings size
9490' - 9500'	<u>Limestone:</u>	tan, cream, very fine crystalline, increased fragmental, occasional peloidal, as above, very poor interparticle & small pin point vuggy porosity, normal sized cuttings

#### Begin 30' samples

9500' - 9560'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental & occasional peloidal, as above, small cuttings size
9560' - 9590'	<u>Limestone:</u>	tan, occasional cream, very fine crystalline, increased fragmental & peloidal, spotty black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut</u> , very poor intercrystalline & small pin point vuggy porosity
9590' - 9620'	<u>Limestone:</u>	tan, occasional cream, very fine crystalline, fragmental & occasional peloidal, spotty black oil in vugs, yellow fluorescence in part, <u>slow streaming cut in part</u> , very poor interparticle and small pin point vuggy porosity, surface oil from mud

9620' -9680'      Limestone: predominately tan, occasional cream, very fine crystalline, abundant fragmental & occasional peloidal texture, black oil stain in vugs, yellow fluorescence in part, slow streaming cut, very poor interparticle & small pin point vugs, surface oil from mud

9680' - 9740'      Limestone: tan, occasional cream, very fine crystalline, fragmental & occasional peloidal, black oil stain in vugs, yellow fluorescence in part, slow streaming cut in part, very poor intercrystalline to small pin point vuggy porosity, surface oil stain in vugs

**GR top Nesson 9,785' MD, 9,127.1' TVD, (-7264.1')**

9740' - 9800'      Limestone: predominately tan, rare cream, very fine crystalline, moderately hard, fragmental & occasional peloidal, spotty oil stain in vugs, yellow fluorescence in part, slow streaming cut in part, very poor interparticle & small pin point vuggy porosity, surface oil from mud

9800' - 9830'      Limestone: predominately tan, rare cream, very fine crystalline, as above, slight decrease in visible stain, fluorescence & cut from above, surface oil from mud

**GR top Nesson 9,840' MD, 9,127.2' TVD, (-7264.2')**

9830' - 9860'      Limestone: tan, occasionally cream, very fine crystalline, moderately hard, fragmental, minor white to clear anhydrite, locally peloidal, minor spotty oil stains in vugs, patchy fluorescence, visible porosity, slow streaming cut

9860' - 9890'      Limestone: tan to cream, very fine crystalline, moderately hard, locally fragmental, locally peloidal, minor white to clear anhydrite, spotty oil stains in vugs, patchy yellow fluorescence, minor visible porosity, slow streaming cut

9890' - 9920'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, locally fragmental, minor peloidal, minor white to clear anhydrite, patchy yellow fluorescence, minor visible porosity, <u>slow weak streaming cut</u>
9920' - 9950'	<u>Limestone:</u>	tan, very fine crystalline, moderately hard, locally fragmental, minor peloidal, common white to clear anhydrite, weak porosity, patchy yellow fluorescence, <u>slow weak streaming cut</u>
9950' - 9980'	<u>Limestone:</u>	tan, very fine crystalline, moderately hard, commonly fragmental, locally peloidal, common white to clear anhydrite, minor visible porosity, patchy yellow fluorescence, <u>slow streaming cut</u> , spotty oil stained vugs
99809' - 10010'	<u>Limestone:</u>	tan, very fine crystalline, moderately hard, locally fragmental, minor peloidal, common white to clear anhydrite, poor porosity, patchy yellow fluorescence, <u>slow streaming cut</u>
10010' - 10040'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, locally fragmental, local minor peloidal, local white to clear anhydrite, minor poor porosity, patchy yellow fluorescence, <u>very slow streaming cut</u>
10040' - 10070'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, commonly fragmental, locally minor peloidal, moderate white to clear anhydrite, poor porosity, patchy yellow fluorescence, <u>slow streaming cut</u>
10070' - 10100'	<u>Limestone:</u>	predominantly tan, very fine crystalline, moderately hard, fragmental, local minor peloidal, moderate white to clear anhydrite, poor porosity, patchy yellow fluorescence, <u>streaming cut</u> , oil in mud
10100' - 10130'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, locally fragmental, local minor peloidal, moderate white to clear anhydrite, poor porosity, patchy yellow fluorescence, <u>streaming cut</u>

10130' - 10160'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, spotty black oil stain in vugs, occasional white to clear anhydrite/calcite, yellow fluorescence in part, <u>streaming cut</u> , very poor interparticle & small pin point vuggy porosity, surface oil from mud
10160' - 10250'	<u>Limestone:</u>	tan, cream, very fine crystalline, as above, increased surface oil from mud, with occasional white to clear anhydrite/calcite
10250' - 10280'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, moderately hard, spotty black oil in vugs, as above
10280' - 10400'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, white to clear anhydrite/calcite, moderately hard, occasional spotty black oil stain in vugs, yellow fluorescence in part, <u>weak to slow streaming cut</u> , very poor intercrystalline porosity & small pin point vugs
10400' - 10490'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, increased spotty black oil stain in vugs, as above, surface oil from mud

**Circulate & short trip @ 10,489' MD**

10490' - 10520'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, commonly fragmental, local peloidal, moderate clear crystalline calcite, minor anhydrite, poor porosity, very weak patchy yellow fluorescence, <u>weak streaming cut</u>
10520' - 10550'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, locally fragmental, minor peloidal, moderate clear to white crystalline calcite, minor anhydrite, poor porosity, very weak patchy yellow fluorescence, <u>weak streaming cut</u>
10550' - 10580'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, common fragmental, local peloidal, common crystalline calcite, minor clear to white anhydrite, poor porosity, patchy yellow fluorescence, <u>streaming cut</u>

10580' - 10610'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, common fragmental, minor peloidal, moderate white to clear crystalline calcite, weak porosity , poor patchy yellow fluorescence, <u>weak streaming cut</u>
10610' - 10640'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, common fragmental, minor peloidal, common white to clear crystalline calcite, minor anhydrite, poor porosity ,weak patchy yellow fluorescence, <u>streaming cut</u>
10640' - 10670'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, common fragmental, locally peloidal, common crystalline calcite, minor white anhydrite, poor porosity, weak patchy yellow fluorescence, <u>weak streaming cut</u>
10670' - 10700'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, common fragmental, locally peloidal, common white to clear crystalline calcite, minor white anhydrite, weak porosity, weak patchy yellow fluorescence, <u>slow streaming cut</u>
10700' - 10730'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, local fragmental, minor peloidal, common white to clear crystalline calcite, very minor white anhydrite, poor porosity ,weak patchy yellow fluorescence, <u>weak streaming cut</u>
10730' - 10760'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, moderately hard, spotty black oil stain in vugs, white anhydrite/calcite in part, yellow fluorescence in part, <u>weak to slow streaming cut</u> , very poor interparticle & small pin point vuggy porosity, surface oil from mud

**GR top Nesson 10,800' MD, 9,121.8' TVD, (-7258.8')**

10760' - 10820'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental & occasional peloidal, moderately hard, black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut</u> , very poor interparticle & small pin point vuggy porosity, surface oil from mud
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10820' - 10850'      Limestone: predominately tan, cream, very fine crystalline, as above, with trace Limestone: medium gray, very fine crystalline, moderately argillaceous, soft to moderately hard, no fluorescence, no cut, no visible porosity, surface oil from mud

**Trip for bit @ 10,855' MD**

10850' - 10880'      Limestone: medium to dark gray, light gray, medium gray brown, very fine crystalline, moderately to slightly argillaceous, moderately hard to soft, no fluorescence, no cut, no visible porosity, surface oil from mud

10880' - 10910'      Limestone: medium to dark gray, light gray, medium gray brown, very fine crystalline, as above, with large amounts of Limestone: tan, cream, as above, probably product of polymer sweeps

10910' - 10940      Limestone: medium to dark gray, fine to very fine crystalline, moderately hard, argillaceous, light gray to white calcite, local fine pyrite, weak fluorescence, no cut

10940' - 10970'      Limestone: medium to dark gray, fine to very fine crystalline, moderately hard, argillaceous, clear to opaque white anhydrite, light gray to white calcite, local fine pyrite, weak fluorescence, no cut

10970' - 11000'      Limestone: medium to dark gray, fine crystalline, moderately hard, argillaceous, light gray to white calcite, clear to opaque white anhydrite, local fine pyrite, weak fluorescence, no cut

**GR top Nesson 11,006' MD, 9,122.2' TVD, (-7259.2')**

11000' - 11030'      Limestone: medium to dark gray, very fine crystalline, moderately hard, argillaceous, light gray to white calcite, local weak fine pyrite, weak fluorescence, no cut  
very minor tan to light brown limestone

11030' - 11060'      Limestone: tan to cream, very fine crystalline, moderately hard, locally fragmental, minor peloidal, common crystalline calcite, white anhydrite, poor porosity, weak fluorescence, streaming cut

11060' - 11090'      Limestone: tan to cream, very fine crystalline, moderately hard, common fragmental, minor peloidal, common crystalline calcite, minor clear to white anhydrite, poor porosity, patchy fluorescence, weak streaming cut

11090' - 11120'      Limestone: tan to cream, very fine crystalline, moderately hard, locally fragmental, minor peloidal, moderate crystalline calcite, poor porosity, weak fluorescence, streaming cut

**GR top Nesson 11,236' MD, 9,123.2' TVD, (-7260.2')**

11120' - 11140'      Limestone: tan, cream, very fine crystalline, fragmental, occasional peloidal, spotty black oil stain in vugs, yellow fluorescence in part, streaming cut, very poor interparticle & small pin point vuggy porosity, surface oil from mud

**GR top Nesson 11,280' MD, 9,125' TVD, (-7262')**

11140' - 11160'      Limestone: tan, cream, very fine crystalline, as above with traces of Limestone: medium to dark gray, very fine crystalline, moderately argillaceous, soft-moderately hard, no fluorescence, no cut, no visible porosity, surface oil from mud

11160' - 11180'      Limestone: tan, cream, very fine crystalline, fragmental, occasional peloidal, black oil in vugs, yellow fluorescence, fast streaming cut, very poor to poor interparticle & small pin point vuggy porosity (increased porosity from above), abundant surface oil from mud

11180' - 11200'      Limestone: tan to cream, very fine crystalline, commonly fragmental, minor peloidal, minor crystalline calcite, minor clear to white anhydrite, poor porosity, oil stained vugs, yellow fluorescence, streaming cut, surface oil from mud

11200' - 11220'      Limestone: tan to cream, very fine crystalline, commonly fragmental, minor peloidal, minor crystalline calcite, poor porosity, patchy yellow fluorescence, streaming cut, oil stained vugs, surface oil from mud

11450' - 11480'	<u>Limestone:</u>	tan to cream, very fine crystalline, commonly fragmental, minor peloidal, very minor crystalline calcite, poor porosity, weak yellow fluorescence, <u>streaming cut</u> , oil stained vugs, surface oil from mud
11480' - 11510'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, commonly fragmental, minor peloidal, local weak pyrite, poor porosity, weak yellow fluorescence, <u>streaming cut</u> , oil stained vugs, surface oil from mud
11510' - 11540'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, commonly fragmental, minor peloidal, poor porosity, weak yellow fluorescence, <u>streaming cut</u> , oil stained vugs, strong surface oil from mud
11540' - 11570'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, commonly fragmental, minor peloidal, poor porosity, weak yellow fluorescence, <u>streaming cut</u> , strong surface oil from mud
11570' - 11600'	<u>Limestone:</u>	tan to cream, moderately hard, very fine crystalline, commonly fragmental, minor peloidal, poor porosity, weak yellow fluorescence, <u>streaming cut</u> , oil stained vugs, strong surface oil from mud

**GR top Nesson 11,620' MD, 9,119.5' TVD, (-7256.5')**

11600' 11660'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, occasional peloidal, moderately hard, spotty black oil stain in vugs, yellow fluorescence, <u>streaming cut</u> , very poor interparticle & small pin point vuggy porosity, surface oil from mud
11660' - 11680'	<u>Limestone:</u>	tan, cream, very fine crystalline, as above, with traces of <u>Limestone</u> : medium to dark gray, very fine crystalline, moderately argillaceous, soft to moderately hard, no fluorescence, no cut, no visible porosity, surface oil from mud

**Total depth in Sidetrack #1 @ 11,680' MD, 9,116.43' TVD**

**Pull back to sidetrack, beginning Sidetrack #2 @ 11,390' MD**

11390' - 11450'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, moderately hard, black oil stain in vugs, yellow fluorescence, <u>streaming cut</u> , very poor interparticle & pin point vuggy porosity, surface oil from mud
11450' - 11510'	<u>Limestone:</u>	tan, cream, light brown, very fine to fine crystalline, soft to moderately hard, yellow fluorescence, <u>fast streaming cut</u> , very poor to poor interparticle porosity, abundant surface oil from mud, very poor sample (small size & oil emulsion)
11510' - 11540'	<u>Limestone:</u>	tan, very fine crystalline, fragmental, occasional peloidal, black to brown oil stain in vugs, moderately hard, yellow fluorescence in part, <u>weak streaming cut</u> , very poor interparticle & small pin point vuggy porosity, surface oil from mud
11540' - 11570'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, local crystalline calcite, minor clear to white anhydrite, locally fragmental, minor peloidal, very poor porosity, local minor oil stained vugs, patchy fluorescence, <u>weakly streaming cut</u>
11570' - 11600'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, local crystalline calcite, minor anhydrite, local fragmental, minor peloidal, poor porosity, local minor oil stained vugs, patchy fluorescence, <u>streaming cut</u> , surface oil from mud
11600' - 11630'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, local crystalline calcite, minor anhydrite, local fragmental, minor peloidal, poor porosity, patchy fluorescence, <u>weakly streaming cut</u> , surface oil from mud
11630' - 11660'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, local crystalline calcite, minor anhydrite, common fragmental, common peloidal, poor porosity, patchy fluorescence, <u>streaming cut</u> , surface oil from mud
11660' - 11690'	<u>Limestone:</u>	tan to cream, very fine crystalline, moderately hard, local crystalline calcite, minor anhydrite, common fragmental, locally peloidal, poor porosity, patchy fluorescence, <u>streaming cut</u> , minor surface oil from mud

**GR base Nesson 11,710' MD, 9,136.8' TVD, (-7273.8')**

- 11690' - 11720'      Limestone:      tan to cream, very fine crystalline, moderately hard, local crystalline calcite, minor anhydrite, locally fragmental, minor peloidal, poor porosity, patchy fluorescence, streaming cut, minor surface oil from mud
- 11720' - 11750'      Limestone:      tan to cream, very fine crystalline, moderately hard, local white to clear crystalline calcite, minor anhydrite, locally fragmental, minor peloidal, poor porosity, patchy fluorescence, weak streaming cut, very minor surface oil from mud

**GR base Nesson 11,778' MD, 9,136.6' TVD, (-7273.6')**

- 11750' - 11780'      Limestone:      tan to cream, very fine crystalline, moderately hard, common white to clear crystalline calcite, locally fragmental, minor peloidal, poor porosity, very patchy fluorescence, weak streaming cut
- 11780' - 11820'      Limestone:      tan to cream, very fine crystalline, moderately hard, common white to clear crystalline calcite, locally fragmental, minor peloidal, poor porosity, patchy fluorescence, streaming cut
- 11820' - 11850'      Limestone:      tan to cream, very fine crystalline, moderately hard, locally fragmental, minor peloidal, common white to clear crystalline calcite, poor porosity, patchy fluorescence, streaming cut, weak surface oil from mud
- 11850' - 11880'      Limestone:      tan to cream, very fine crystalline, moderately hard, locally fragmental, minor peloidal, common white to clear crystalline calcite, poor porosity, patchy fluorescence, streaming cut, weak oil from mud
- 11880' - 11930      Limestone:      tan, cream, very fine crystalline, moderately hard, spotty black oil stain in vugs, white to clear anhydrite/calcite crystals in part, yellow fluorescence in part, slow streaming cut in part, very poor interparticle & small pin point vuggy porosity

11930' - 11990'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, moderately hard, spotty black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut in part</u> , very poor interparticle & small pin point vuggy porosity, increased surface oil from mud
11990' - 12020'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, occasional peloidal, spotty black oil stain in vugs, yellow fluorescence in part, <u>moderately streaming cut in part</u> , very poor interparticle & small pin point vuggy porosity, occasional white to clear anhydrite/calcite
12020' - 12040'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, spotty black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut in part</u> , very poor interparticle & small pin point vuggy porosity, white to clear anhydrite/calcite in part, surface oil from mud

#### Trip for bit @ 12,040' MD

12040' - 12080'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, spotty black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut in part</u> , very poor interparticle porosity, white to clear anhydrite/calcite crystals in part
12080' - 12140'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, spotty black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut in part</u> , very poor interparticle porosity, white to clear anhydrite/calcite crystals in part
12140' - 12170'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, fragmental, weakly peloidal, white to clear calcite crystals, minor anhydrite, poor porosity, spotty black oil stain in vugs, yellow fluorescence in part, <u>slow streaming cut</u>

GR top Nesson 12,188' MD, 9,120.6' TVD, (-7257.6')

12170' - 12200'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, fragmental, strong yellow fluorescence, <u>strong black oil throughout</u>
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12200' - 12230'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, local crystalline calcite, fragmental, very poor interparticle porosity, strong yellow fluorescence, <u>moderate to strong black oil throughout, streaming cut</u> , traces Limestone: medium to dark gray, very fine crystalline, moderately argillaceous, no fluorescence, no cut, no porosity
12230' - 12260'	<u>Limestone:</u>	tan, cream, very fine crystalline, moderately hard, fragmental, crystalline calcite, poor porosity, strong yellow fluorescence, <u>strong black oil throughout</u>
12260' - 12290'	<u>Limestone:</u>	tan, cream, very fine crystalline, as above with traces of Limestone: medium to dark gray, very fine crystalline, moderately argillaceous, soft to moderately hard, no fluorescence, no cut, no visible porosity, abundant surface oil from mud

**GR top Nesson 12,307' MD, 9,121.3' TVD, (-7258.3')**

12290' - 12320'	<u>Limestone:</u>	tan, cream, very fine crystalline, as above
	<u>Limestone:</u>	medium to dark gray, medium gray brown, very fine crystalline, moderately to slightly argillaceous, moderately hard to soft, no fluorescence, no cut, no porosity, surface oil from mud
12320' - 12350'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, spotty black oil stain in vugs, yellow fluorescence in part, <u>streaming cut</u> , very poor interparticle porosity & small pin point vugs, white to clear calcite/anhydrite crystals, surface oil from mud
	<u>Limestone:</u>	medium to dark gray, medium gray brown, very fine crystalline, moderately to slightly argillaceous, moderately hard to soft, no porosity, no cut
12350' - 12410'	<u>Limestone:</u>	tan, cream, very fine crystalline, fragmental, moderately hard, spotty black oil stain in vugs, yellow fluorescence in part, <u>streaming cut</u> , very poor interparticle porosity, abundant surface oil from mud, white to clear calcite/anhydrite crystals
12410' - 12440'	<u>Limestone:</u>	tan-cream, very fine crystalline, moderately hard, fragmental, white to clear calcite and anhydrite crystals, very poor porosity, local black oil stain in vugs, weak to patchy yellow fluorescence, <u>streaming cut</u> , abundant surface oil from mud

12440' - 12470'	<u>Limestone</u> :	tan-cream, very fine crystalline, moderately hard, fragmental, white to clear calcite and anhydrite crystals, poor porosity, local oil stain in vugs, weak yellow fluorescence, <u>streaming cut</u> , abundant surface oil from mud
12470' - 12500'	<u>Limestone</u> :	tan-cream, very fine crystalline, moderately hard, fragmental, local white to clear calcite and anhydrite crystals, poor porosity, local oil stained vugs, weak yellow fluorescence, <u>streaming cut</u> , abundant surface oil from mud
12500' - 12530'	<u>Limestone</u> :	tan-cream, very fine crystalline, moderately hard, fragmental, common white to clear calcite and anhydrite crystals, poor porosity, local oil stained vugs, spotty yellow fluorescence, <u>streaming cut</u> , abundant surface oil from mud
12530' - 12560'	<u>Limestone</u> :	tan-cream, very fine crystalline, moderately hard, fragmental, common white to clear calcite and anhydrite crystals, very poor porosity, spotty yellow fluorescence, <u>streaming cut</u> , abundant surface oil from mud
12560' - 12650'	<u>Limestone</u> :	tan, cream, very fine crystalline, fragmental, moderately hard, spotty black oil stain in vugs, yellow fluorescence in part, <u>streaming cut</u> , very poor interparticle porosity, white to clear calcite/ anhydrite crystals in part, surface oil from mud
12650' - 12740'	<u>Limestone</u> :	tan, cream, very fine crystalline, fragmental, as above, surface oil from mud, cuttings becoming small in size
12740' - 12800'	<u>Limestone</u> :	tan, cream, very fine crystalline, fragmental, spotty black oil stain in vugs, moderately hard, yellow fluorescence in part, <u>streaming cut in part</u> , very poor interparticle porosity, white to clear calcite & anhydrite crystals in part, surface oil from mud, small cuttings size

**Total Depth 12,800' MD, 9,120.68' TVD, (-7257.68')**



# SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (07-2000)

TH  
Well File No.  
**11745**



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND THREE COPIES.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date <b>In Progress</b>
<input type="checkbox"/> Report of Work Done	Date Work Completed
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	
Approximate Start Date	

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	<b>REVISED END POINT</b>

Well Name and Number

**BASIC GAME & FISH 34-3**

Footages	392 F S L	494 F W L	Qtr-Qtr <b>SWSW</b>	Section <b>2</b>	Township <b>153 N</b>	Range <b>101 W</b>
Field	BAKER	Pool	MADISON	County	McKENZIE	

## 24-HOUR PRODUCTION RATE

Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)

**BAKER HUGHES INTEQ, J&R WELL SERVICE**

Address	City	State	Zip Code
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## DETAILS OF WORK

Nance Petroleum Corporation has revised it's estimated end of lateral on the horizontal sidetrack. The new proposed end of lateral is 1976' FSL & 1607' FWL of Sec 3-T153N-R101W.

Company <b>NANCE PETROLEUM CORPORATION</b>	Telephone Number <b>(406)245-6248</b>
Address <b>P. O. BOX 7168</b>	
City <b>BILLINGS</b>	State <b>MT</b>
Signature <i>Gary L Evertz</i>	Printed Name <b>Gary L Evertz</b>
Title <b>VP Operations</b>	Date <b>November 19, 2002</b>

## FOR STATE USE ONLY

<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date <b>NOV 25 2002</b>	
By <i>Kelly Tidwell</i>	
Title <b>Horizontal Drilling Supervisor</b>	



P.O. BOX 7168 • BILLINGS, MT 59103  
550 N. 31ST ST, SUITE 500 • BILLINGS, MT 59101  
PHONE: (406) 245-6248 • FAX: (406) 245-9106

A Subsidiary of  
St. Mary Land & Exploration Co.

11/14/5  
11

North Dakota Industrial Commission  
Oil and Gas Division  
600 East Boulevard, Dept. 405  
Bismarck, ND 58505-0840

November 6, 2002



Re: Notice of Intent to Revise Directional Plan  
Basic Game & Fish #34-3 Well  
SW/SW Sec. 2, T153N-R101W  
McKenzie Co., ND  
Baker Field

Gentlemen:

Included with this letter, please find the required copies of the above referenced NOI to Revise Directional Plan for the horizontal sidetrack of this well in the Nesson porosity zone of the Madison formation. As per discussions with Mr. Kelly Triplett of your office, this revised plan is proposed to insure that the horizontal wellbore encounters the Nesson porosity at a distance of 505' or more from the south line of Section 3, T153N-R101W. This revision is necessary due to discrepancies between the original directional surveys for this well during initial drilling of the well and the directional gyro survey run in this well just prior to initiating the horizontal sidetrack of this well.

Please contact me if you have additional questions concerning this proposal.

Sincerely,

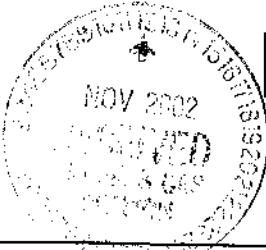
*William M. Belden*  
William M. Belden  
Operations Engineer



# SUNDY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (07-2000)

Well File No.  
**11745**



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND THREE COPIES.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date
<input type="checkbox"/> Report of Work Done	Date Work Completed
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	<b>REVISED DIRECTIONAL PLAN</b>

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>					
Footages <b>392 F S L</b>	<b>494 F W L</b>	<b>Qtr-Qtr SWSW</b>	<b>Section 2</b>	<b>Township 153 N</b>	<b>Range 101 W</b>
Field <b>BAKER</b>	Pool <b>MADISON</b>	County <b>McKENZIE</b>			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s) <b>BAKER HUGHES INTEQ</b>					
Address <b>7424 W. 6 WN Rd.</b>	City <b>Casper</b>	State <b>WY</b>	Zip Code <b>82604</b>		

## DETAILS OF WORK

Nance Petroleum Corporation submits the attached revised directional drilling plan for the proposed Nesson zone horizontal sidetrack of this well. The directional drilling plan has been revised to insure that the horizontal wellbore will be greater than 505' FSL of Sec. 3, T153N-R101W when the top of the Nesson porosity is reached. The top of the Nesson porosity is anticipated to be encountered at a TVD of 9,124' at a point 544' FSL of Sec. 3 based on the revised directional drilling plan.

Company <b>NANCE PETROLEUM CORPORATION</b>	Telephone Number <b>(406)245-6248</b>	
Address <b>P. O. BOX 7168</b>		
City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>
Signature <i>William M. Belden</i>	Printed Name <b>William M. Belden</b>	
Title <b>Operations Engineer</b>	Date <b>November 6, 2002</b>	

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date <b>NOV 12 2002</b>	
By <i>Kelly J. Belden</i>	
Title <b>Horizontal Drilling Supervisor</b>	

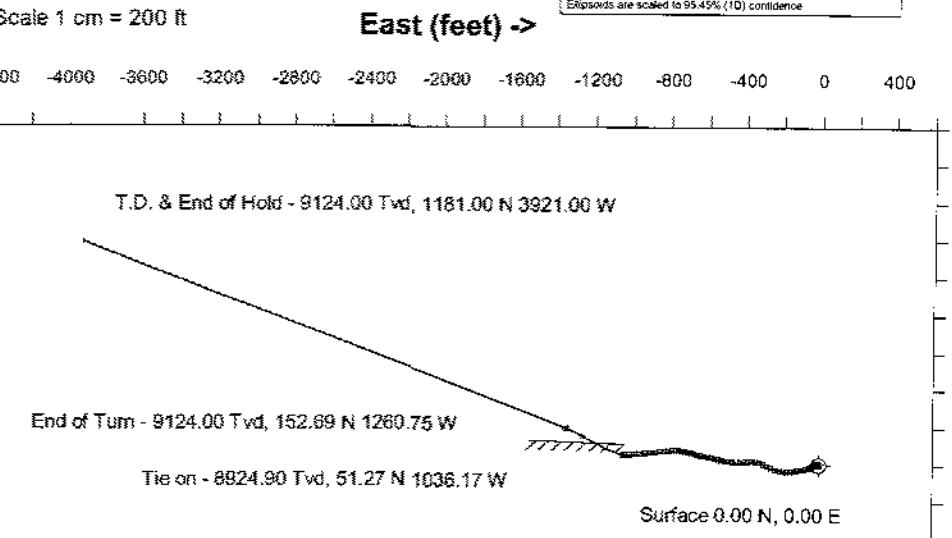
# NANCE PETROLEUM CORPORATION

Location:	NORTH DAKOTA	Slot:	Slot #1 34-3H
Field:	MCKENZIE COUNTY	Well:	BASIC GAME & FISH 34-3H
Installation:	SFC 2-T153N-R101W		

Created by : Planner  
Date plotted : 5-9-2002  
Plot reference is BASIC GAME & FISH 543H (FWB) ref to survey.  
Ref station is BASIC GAME & FISH 343H (FWP\*)  
Coordinates are in feet, reference Slat #1 34-34-01.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Datum #1  
Rig Datum to Mean Sea Level: 0.00.  
Plot North is aligned to 7.8UE North.  
Ellipse dimensions are of PROJECTED error ellipsoid.  
Ellipsoids are scaled to 95.45% (1D) confidence

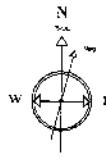
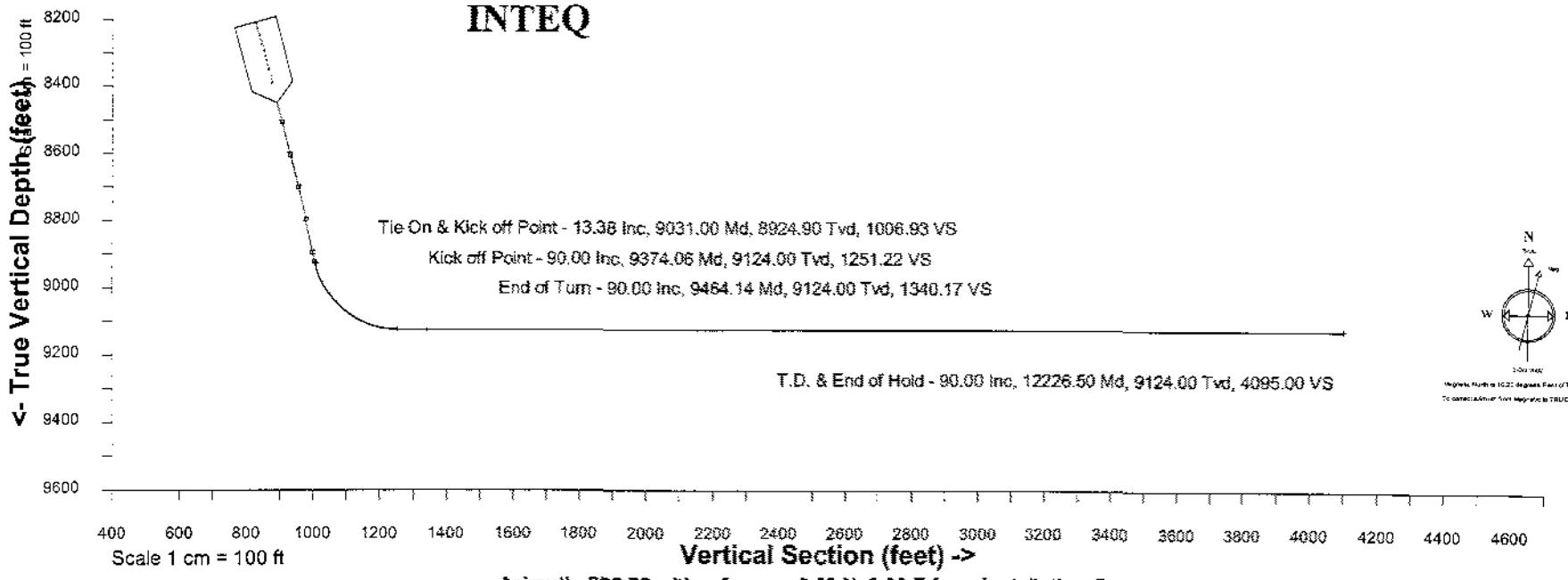
## WELL PROFILE DATA

WELL PROFILE DATA									
Point	MD	Inc	Dir	TVD	North	East	deg/100ft	V. Sect	
KOP	9031.00	13.38	268.90	8924.90	51.27	-1036.17	0.00	1006.93	
Target	9374.06	90.00	300.00	9124.00	152.69	-1260.75	22.90	1251.22	
End of Turn	9464.14	90.00	290.99	9124.00	191.43	-1341.96	18.00	1340.17	
T.D. & Target	12226.50	90.00	290.99	9124.00	1181.00	-3921.00	0.00	4095.00	



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**INTEQ**



To connect a vector from Magnetic to TRUE add 90.00 deg

Azimuth 286.76 with reference 0.00 N, 0.00 E from Installation Centre

NANCE PETROLEUM CORPORATION,Slot  
 #1 34-3H  
 SEC.2-T153N-R101W,  
 MCKENZIE COUNTY,NORTH DAKOTA

(PWB) tied to survey\*  
 Wellpath: BASIC GAME & FISH 34-3H  
 (PWP#1)  
 Date Printed: 5-Nov-2002



INTEQ

### Wellbore

Name	Created	Last Revised
BASIC GAME & FISH 34-3H (PWB) tied to survey*	5-Nov-2002	5-Nov-2002

### Well

Name	Government ID	Last Revised
BASIC GAME & FISH 34-3H		2-Oct-2002

### Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #1 34-3H	415444.5725	1204638.6949	N48° 5' 47.0683	W103° 37' 36.5227	392.00N	494.00E

### Installation

Name	Easting	Northing	Coord System Name	North Alignment
SEC.2-T153N-R101W	1204129.1115	415072.9894	ND83-NF on NORTH AMERICAN DATUM 1983 datum	True

### Field

Name	Easting	Northing	Coord System Name	North Alignment
MCKENZIE COUNTY	1966500.0000	3519779.6486	ND83-NF on NORTH AMERICAN DATUM 1983 datum	True

### Created By


### Comments


All data is in Feet unless otherwise stated

Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Datum #1 0.00ft above Mean Sea Level )

Vertical Section is from 0.00N 0.00E on azimuth 286.76 degrees

Bottom hole distance is 4095.00 Feet on azimuth 286.76 degrees from Wellhead

Calculation method uses Minimum Curvature method

Prepared by Baker Hughes Inteq

NANCE PETROLEUM CORPORATION, Slot  
 #1 34-3H  
 SEC.2-T153N-R101W,  
 MCKENZIE COUNTY, NORTH DAKOTA

(PWB) tied to survey\*  
 Wellpath: BASIC GAME & FISH 34-3H  
 (PWP#1)  
 Date Printed: 5-Nov-2002



INTEQ

### Wellpath Report

MD[ft]	Inc[deg]	Dip[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00
100.00	0.33	280.19	100.00	0.05N	0.28W	0.33	0.29
200.00	0.38	208.88	200.00	0.19S	0.73W	0.42	0.64
300.00	0.60	178.83	299.99	1.00S	0.88W	0.33	0.55
400.00	0.34	153.75	399.99	1.79S	0.73W	0.33	0.19
500.00	0.15	35.20	499.99	1.95S	0.53W	0.43	-0.06
600.00	0.39	358.39	599.99	1.50S	0.48W	0.28	0.01
700.00	0.38	21.58	699.99	0.85S	0.35W	0.16	0.09
800.00	0.78	57.94	799.99	0.19S	0.35E	0.52	-0.39
900.00	0.91	18.30	899.97	0.93N	1.18E	0.59	-0.66
1000.00	0.39	328.47	999.97	1.97N	1.25E	0.72	-0.62
1100.00	1.01	346.20	1099.96	3.12N	0.88E	0.65	0.08
1200.00	1.12	308.24	1199.94	4.58N	0.12W	0.70	1.44
1300.00	1.22	308.24	1299.92	5.84N	1.72W	0.10	3.34
1400.00	0.94	297.27	1399.90	6.88N	3.29W	0.35	5.13
1500.00	0.85	319.24	1499.89	7.82N	4.50W	0.35	6.56
1600.00	0.68	253.99	1599.89	8.24N	5.47W	0.80	7.62
1700.00	0.62	313.36	1699.86	8.47N	6.35W	0.60	8.53
1800.00	1.13	263.70	1799.87	8.73N	7.73W	0.87	9.92
1900.00	0.87	249.42	1899.86	8.36N	9.42W	0.36	11.43
2000.00	1.21	247.79	1999.84	7.69N	11.10W	0.34	12.85
2100.00	1.45	240.59	2099.81	6.67N	13.18W	0.29	14.55
2200.00	1.84	236.30	2199.77	5.16N	15.62W	0.41	16.44
2300.00	2.39	235.05	2299.70	3.07N	18.67W	0.55	18.76
2400.00	2.64	233.06	2399.61	0.49N	22.22W	0.26	21.41
2500.00	2.75	226.47	2499.49	2.54S	25.80W	0.33	23.97
2600.00	2.29	232.74	2599.40	5.40S	29.13W	0.54	26.33
2700.00	1.70	221.51	2699.34	7.72S	31.70W	0.71	28.12
2800.00	1.38	211.27	2799.30	9.86S	33.31W	0.42	29.05
2900.00	1.29	230.60	2899.27	11.61S	34.80W	0.48	29.98
3000.00	1.30	242.98	2999.23	12.84S	36.68W	0.28	31.42
3100.00	1.20	246.04	3099.22	13.78S	38.65W	0.12	33.03
3200.00	1.14	247.40	3199.20	14.59S	40.52W	0.07	34.60
3300.00	1.08	249.32	3299.18	15.30S	42.33W	0.07	36.11
3400.00	1.12	253.00	3399.17	15.92S	44.14W	0.08	37.67
3500.00	1.17	255.93	3499.15	18.45S	46.07W	0.08	39.36
3600.00	1.20	255.36	3599.13	18.97S	48.07W	0.03	41.13
3700.00	0.96	247.89	3699.11	17.55S	49.86W	0.28	42.68
3800.00	0.81	252.95	3799.10	18.07S	51.31W	0.17	43.92
3900.00	0.90	264.06	3899.09	18.36S	52.77W	0.19	45.23
4000.00	0.91	274.74	3999.07	18.37S	54.34W	0.17	46.73
4100.00	4.25	257.45	4098.96	19.11S	58.75W	3.39	50.74
4200.00	6.93	257.49	4198.47	21.23S	68.26W	2.68	59.24
4300.00	8.40	257.08	4297.58	24.16S	81.27W	1.47	70.85
4400.00	9.38	257.93	4396.37	27.50S	96.36W	0.99	84.33
4500.00	10.13	260.16	4494.93	30.71S	112.99W	0.84	99.33
4600.00	10.48	263.11	4593.32	33.30S	130.68W	0.63	115.53
4700.00	10.93	267.10	4691.58	34.87S	149.18W	0.87	132.78
4800.00	11.40	271.61	4789.69	35.08S	168.53W	0.99	151.25
4900.00	11.64	273.07	4887.67	34.26S	188.48W	0.38	170.59
5000.00	12.43	280.23	4985.48	31.81S	209.15W	1.69	191.09
5100.00	13.72	290.37	5082.90	25.77S	230.86W	2.63	213.62

All data is in Feet unless otherwise stated

Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Datum #1 0.00ft above Mean Sea Level )

Vertical Section is from 0.00N 0.00E on azimuth 286.76 degrees

Bottom hole distance is 4095.00 Feet on azimuth 286.76 degrees from Wellhead

Calculation method uses Minimum Curvature method

Prepared by Baker Hughes Inteq

NANCE PETROLEUM CORPORATION, Slot  
 #1 34-3H  
 SEC.2-T153N-R101W,  
 MCKENZIE COUNTY, NORTH DAKOTA

(PWB) tied to survey\*  
 Wellpath: BASIC GAME & FISH 34-3H  
 (PWP#1)  
 Date Printed: 5-Nov-2002



INTEQ

### Wellpath Report

MD(ft)	Incl[deg]	Dir[deg]	TVD(ft)	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
5200.00	13.89	292.59	5180.01	17,03S	253.06W	0.56	237.40
5300.00	13.17	294.15	5277.23	7.76S	274.54W	0.81	260.64
5400.00	13.32	297.15	5374.57	2.16N	295.19W	0.70	283.27
5500.00	13.19	293.76	5471.91	12.02N	315.88W	0.79	305.92
5600.00	12.76	275.87	5569.40	17.75N	337.32W	4.02	328.10
5700.00	11.54	266.41	5667.16	18.25N	358.29W	2.33	348.33
5800.00	11.42	263.53	5765.16	16.81N	378.11W	0.59	366.80
5900.00	11.39	265.59	5863.19	14.63N	397.79W	0.41	385.11
6000.00	11.48	268.16	5961.21	13.73N	417.58W	0.71	403.80
6100.00	11.84	273.58	6059.15	14.22N	437.77W	0.98	423.27
6200.00	11.80	276.10	6157.02	15.94N	458.18W	0.52	443.31
6300.00	11.33	276.24	6254.99	18.10N	478.11W	0.47	463.02
6400.00	11.15	279.43	6353.03	20.75N	497.42W	0.65	482.26
6500.00	10.88	281.78	6451.23	24.26N	516.19W	0.52	501.26
6600.00	10.58	280.40	6549.49	27.84N	534.46W	0.39	519.78
6700.00	10.83	282.20	6647.75	31.49N	552.67W	0.43	538.27
6800.00	11.16	283.35	6745.91	35.71N	571.27W	0.40	557.30
6900.00	11.41	283.63	6843.98	40.27N	590.30W	0.26	576.83
7000.00	11.02	282.49	6942.07	44.67N	609.25W	0.45	596.24
7100.00	11.51	282.54	7040.14	48.90N	628.32W	0.49	615.72
7200.00	11.09	284.80	7138.20	53.53N	647.38W	0.61	635.28
7300.00	10.02	283.15	7236.51	57.98N	665.12W	1.11	653.58
7400.00	9.45	283.19	7335.07	61.81N	681.59W	0.57	670.45
7500.00	9.26	282.88	7433.74	65.47N	697.43W	0.20	696.68
7600.00	9.18	282.31	7532.45	68.97N	713.08W	0.12	702.66
7700.00	9.42	279.32	7631.13	71.99N	728.93W	0.54	718.72
7800.00	9.91	273.53	7729.72	73.85N	745.60W	1.09	735.21
7900.00	10.40	269.55	7828.15	74.31N	763.21W	0.86	752.21
8000.00	10.84	268.38	7926.44	73.97N	781.64W	0.49	769.76
8100.00	12.05	266.35	8024.45	72.86N	801.44W	1.35	788.40
8200.00	13.04	263.15	8122.06	70.67N	823.05W	1.10	808.46
8300.00	14.33	263.18	8219.23	67.85N	846.54W	1.29	830.14
8400.00	15.31	262.62	8315.89	64.69N	871.92W	0.99	853.53
8500.00	16.37	262.98	8412.09	61.27N	899.00W	1.06	878.47
8600.00	15.83	264.29	8508.17	58.19N	926.56W	0.88	903.97
8700.00	15.50	265.35	8604.46	55.75N	953.45W	0.44	929.01
8800.00	14.90	268.95	8700.98	53.98N	979.60W	0.73	953.55
8900.00	14.52	267.20	8797.68	52.68N	1004.96W	0.39	977.46
9000.00	13.34	267.23	8894.74	51.51N	1029.01W	1.18	1000.14
9031.00	13.38	268.90	8924.90	51.27N	1036.17W	1.25	1006.93
9100.00	28.05	296.67	8989.32	55.80N	1059.84W	22.90	1030.90
9200.00	50.49	294.19	9066.28	78.86N	1118.34W	22.90	1093.50
9300.00	73.17	297.87	9113.20	117.35N	1196.88W	22.90	1179.87
9374.03	90.00	300.00	9124.00	152.69N	1260.75W	22.90	1251.22
9400.00	90.00	297.41	9124.00	165.15N	1283.50W	10.00	1276.59
9464.14	90.00	290.99	9124.00	191.43N	1341.98W	10.00	1340.17
9500.00	90.00	290.99	9124.00	204.27N	1375.45W	0.00	1375.92
9600.00	90.00	290.99	9124.00	240.10N	1468.82W	0.00	1475.65
9700.00	90.00	290.99	9124.00	275.92N	1562.18W	0.00	1575.38
9800.00	90.00	290.99	9124.00	311.74N	1655.54W	0.00	1675.11
9900.00	90.00	290.99	9124.00	347.57N	1748.91W	0.00	1774.83
10000.00	90.00	290.99	9124.00	383.39N	1842.27W	0.00	1874.56

All data is in Feet unless otherwise stated

Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Datum #1 0.00ft above Mean Sea Level )

Vertical Section is from 0.00N 0.00E on azimuth 286.76 degrees

Bottom hole distance is 4095.00 Feet on azimuth 286.76 degrees from Wellhead

Calculation method uses Minimum Curvature method

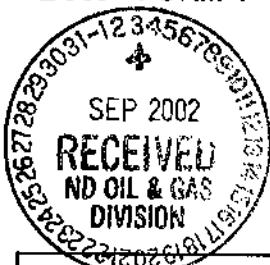
Prepared by Baker Hughes Inteq



## SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (07-2000)

Well File No.  
**11745**



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND THREE COPIES.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date
<input type="checkbox"/> Report of Work Done	Date Work Completed
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	
Approximate Start Date	

<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Casing or Liner	<input checked="" type="checkbox"/> Acidizing
<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
<input checked="" type="checkbox"/> Other	<b>Drill Horizontal Lateral</b>

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>					
Footages <b>392 F S L</b>	Qtr-Qtr <b>494 F W L</b>	Section <b>SWSW</b>	Township <b>2</b>	Range <b>153 N</b>	Range <b>101 W</b>
Field <b>BAKER</b>	Pool <b>MADISON</b>	County <b>McKENZIE</b>			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s) <b>To Be Determined</b>			
Address		City	State
			Zip Code

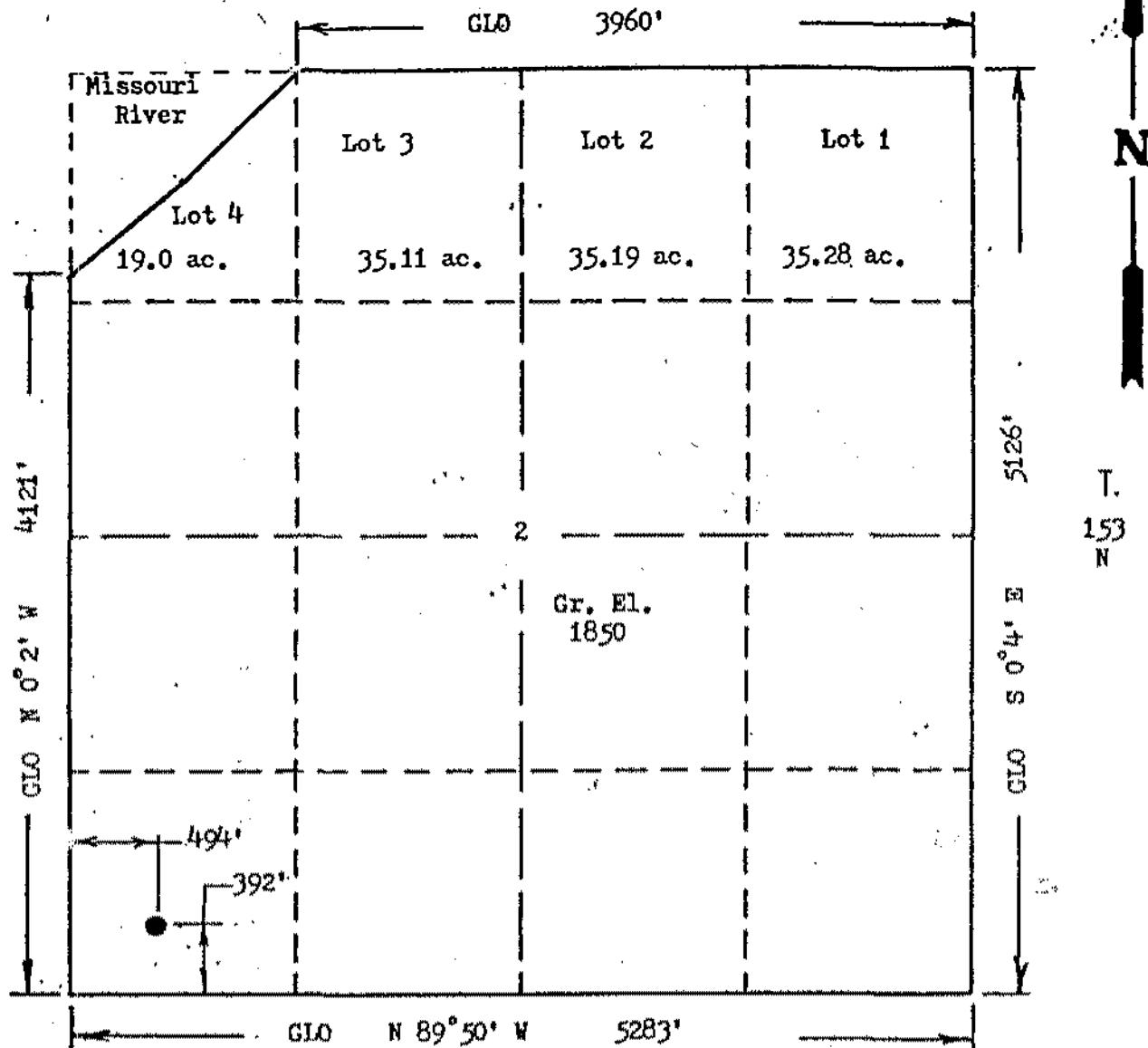
### DETAILS OF WORK

Nance Petroleum Corporation proposes to sidetrack and drill horizontal lateral in the Nesson zone of the Madison formation. The lateral will be completed as open hole. See the attached proposed procedure.

Company <b>NANCE PETROLEUM CORPORATION</b>		Telephone Number <b>(406)245-6248</b>
Address <b>P. O. BOX 7168</b>		
City <b>BILLINGS</b>		State <b>MT</b>
Signature 		Printed Name <b>GARY L. EVERTZ</b>
Title <b>VICE PRESIDENT - OPERATIONS</b>	Date <b>August 26, 2002</b>	

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date <b>SEP 16 2002</b>	
By 	
Title <b>Horizontal Drilling Supervisor</b>	

R 101 W



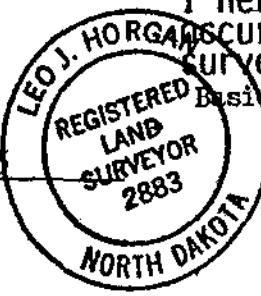
Scale: 1"=1000'

Powers Elevation of Denver, Colorado has in accordance with a request from Tom Hopkins ... for Basic Earth Science Systems Inc. determined the location of Basic Game & Fish #14-2 (34-3).  
to be 392' FS & 494' FW Section 2 , Township 153 N  
Range 101 West of the Fifth Principal Meridian,  
McKenzie County, North Dakota

I hereby certify that this plat is an  
inaccurate representation of a correct  
survey showing the location of  
S-4 - Case # E-587 #14-2

Date:

9-4-84



Licensed Land Surveyor No. 2883  
State of North Dakota

# NANCE PETROLEUM CORPORATION

## BASIC GAME & FISH 34-3H

Baker Field ~ McKenzie County, ND

GL – 1850' KB - 1872' (22' KB)

Surface Location	392' FSL & 494' FWL Sec 2 T153N R101W
KOP	532' FSL & 497' FEL Sec 3 T153N R101W
Target	614' FSL & 716' FEL Sec 3 T153N R101W
End of Lateral	1637' FSL & 1720' FWL Sec 3 T153N R10W

## PROCEDURE TO DRILL HORIZONTAL NESSON LATERAL WELL BORE DIAGRAM ATTACHED

### Current Condition

Pumping Nesson at 26 BOPD and 1 BWPD. Original well drilled directionally due to topography. Maximum angle 16 deg @ 8392', with 12 deg. @ Nesson pay Zone. 5 ½" 17, 20, & 23 #/ft L-80 & RS-90 casing was set @ 9702' MD and cemented with top of cement @ 3450'.

### Proposed Plan

Sidetrack out of 5 ½" casing @ 9015'±, build angle and drill a 4 ½" horizontal lateral with the Mission Canyon Nesson porosity as the target zone, completed open hole. Use fresh water with gel sweeps to clean hole. Drill at an azimuth of 290 deg. A directional survey of the existing hole is attached. Baker Enteq will provide the directional equipment, and surveys will be taken every 30'.

### Formation Tops of Important Markers

Formation	TVD	MD	Subsea
Base of Last Salt	8893'	8998'	-7021'
Ratcliffe	8968'	9074'	-7096'
Midale	9053'	9162'	-7181
Mission Canyon (Nesson)	9123'	9235'	-7251'
Horizontal Target	9124	9238'-12558'	-7254'

### Proposed Procedure

1. MI RU workover rig. POOH w/ rods and pump. LD rods on sills. ND wellhead and NU BOPE. POOH with tubing. TIH w/ 4 ½" bit and scraper to 9300'. POOH laying down 2 7/8" tubing. RU WL truck and run 40 arm caliper log f/ 9300' to surface. Release workover rig.
2. RU drilling workover rig. PU and TIH w/ 2 7/8" AOH DP with 4 ½" window mill and watermelon mill. POOH. RU WL truck. Make junk ring run to 9200'. Set Baker packer @ 9034'± (casing collar is at 8992' and 9037'). Run gyro and determine orientation of packer lug. POOH w/ WL and RD truck.
3. Set bottom of whipstock to orient it to 290 deg azimuth TIH with whipstock, and milling BHA on 2 7/8" AOH DP

4. Set whipstock on packer. Mill window in casing with starter mill at approximately 9020'. Circulate the hole clean and POOH. TIH w/ new window mill and watermelon mills. Mill window and 5' – 10' of formation. Circulate hole clean and POOH.
5. TIH w/ 4 1/2" bit, MWD and directional tools on 2 7/8" weight pipe and 2 7/8" AOH DP. Orient tools with gyro and exit window, drilling formation. Continue orienting with gyro until far enough away f/ casing to avoid magnetic interference. Build angle at 30± deg/100 ft with an azimuth of 290 degrees. Horizontal target is 9238' in the top of the Mission Canyon Nesson porosity.
6. Drill horizontal lateral to hard line of 550' from WL of Sec 2 (Note: Lateral will most likely be 2500' – 3000' long, and not approach hard line). Short trip bit to casing then back to TD, and circulate hole. POOH laying down directional tools and MWD.
7. TIH with HWDP & DP, bull plugged and perfed sub on bottom.
8. RU pump trucks. Acidize lateral in five stages. POOH and LD all DP and tools. PU and TIH w/ packer and 2 7/8" tubing. Set packer at 9100'±. PT casing and packer to 500 psi. ND BOPE and NU wellhead. RD and move out drilling workover rig.
9. RU workover rig. Swab well until fluid cleans up. POOH w/ packer and tbg. Run production BHA and 2 7/8" tbg. Run pump and rods (design will be based on productivity). Put well through production facility.
10. RD and release rig.

GLE  
8/22/02  
GLEBASIC GAME & FISH 34-3H.DOC

**NANCE PETROLEUM CORPORATION**

**WELL: BASIC GAME & FISH 34-3 FIELD: BAKER**

2960' 9 5/8" LOCATION: SURF:SWSW SEC 2 153N 101W, MCKENZIE CO, ND  
392' FSL & 494' FWL  
BH @ TD:SESE SEC 3 153N 101V STATUS: PUMPING OIL WELL  
543' FSL & 655' FEL

3450' TOP OF CMT ELEVATION: GL - 1850' KB - 1872 ST FILE NO: 11746  
ACCTG NO: 60102 API# 33-053-02102  
SPUD DATE: 10/16/85 COMP DATE: 2/3/86

4034' KICK-OFF PT. ROTARY TD: 9596' TVD, 9716' TMD PBTD: 9561' MD  
SURF CSG: 9 5/8" 36# K-55 SET @ 2960'. CMT W/ 1100 SX.  
PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702'. CMT 122 SX.

**TUBING & BHA**

291 JTS 2 7/8" L-80 TBG  
MECH SN - 9158  
2 JTS 2 7/8" L80 TBG  
BASIN AC - 929221  
4 JTS 2 7/8" L80 TBG  
PINNED COLLAR - 8347

**RODS & PUMP**

1 1/2" X 22" POLISH ROD  
124 7/8" GRAD D RODS (3100)  
34 - 3/4" GRADE D RODS (850)  
162 - 3/4 GR D RODS W/ CENT(4550)  
24 - 7/8" GR D W/ PADDLES(600)  
1" X 30" PADDLE PONY ROD  
2 1/2" X 1 1/4" X 24.5 RHBM,  
BRASS NICARB PUMP

**SN**

SPM - 6.25 SL - 90"

5 1/2"	SET @
23# TC80HC	45
17# L-80	6624
23# TC80HC	6809
20# L-80	7013
23# TC80HC	7188
20# L-80	8251
23# TC80HC	9099
20# L-80	9702

8092 DV COLLAR

8392 MAX ANGLE  
16 DEG.

SALT	DEPTH
DUNHAM	6844-6712
PINE	7085-7100
CHARLES	8275-8004

9158 16 11 MECH SN WELLHEAD: OSGHD 9 5/8" X 11" 3000 C22.

9221' <<< >>> BASIN AC PUMP UNIT: LUFKIN C4560-365-120, W/ E-42 AJAX MOTOR.

9234-54' NESSON PERFS  
12 DEG DEV.  
PINNED COLLAR

PERFS: NESSON 9234-54' 4 SPF

9529' PBTD

9702' \*\*\*\*\* 5 1/2" PREPARED BY: GARY L EVERTZ DATE: 04/28/00  
DIRECTIONAL WELL TMD - 9716', TVD - 9596'  
MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.  
BASIC343.XLS

**NANCE PETROLEUM CORPORATION**

**WELL: BASIC GAME & FISH 34-3 FIELD: BAKER**

		LOCATION: SURF:SWSW SEC 2 153N 101W, MCKENZIE CO, ND 392' FSL & 494' FWL
2960'	9 5/8"	BH @ TD:SESE SEC 3 153N 1 STATUS: PUMPING OIL WELL 543' FSL &655' FEL
3450'	TOP OF CMT	ELEVATION: GL - 1850' KB - 1872' ST FILE NO: 11745 ACCTG NO. 60102 API# 33-053-02102 SPUD DATE: 10/16/85 COMP DATE: 2/3/86
4034'	ORIGINAL KICK-OFF PT.	ROTARY TD:9596' TVD, 9716' TMD PBTD: 9561' MD SURF CSG: 9 5/8" 36# K-55 SET @ 2960'. CMT W/ 1100 SX. PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702'. CMT 122 SX.

**TUBING & BHA**

**RODS & PUMP**

	SALT	DEPTH	5 1/2"	SET @
	DUNHAM	6644-6712	23# TC80HC	45
	PINE	7035-7100	17# L-80	8624
	CHARLES	8275-9004	23# TC80HC	8803
			20# L-80	7013
8092'	DV COLLAR		23# TC80HC	7188
		WELLHEAD: CSGHD 9 5/8" X 11" 3000 C22 20# L-80		8251
8392'	ORIGINAL MAX ANGLE 16 DEG.	PUMP UNIT: LUFKIN C456D-365-120 W/ E-42 AJAX MOTOR	23# TC80HC 20# L-80	9099 9702
		PERFS: NESSON 9234-54' 4 SPF		
8998'	BLS	PROPOSED HORIZONTAL WELL		
9020'	KOP			

**4 1/2" HOLE**

NESSON TARGET 9124' TVD	9238' MD	-7254' SUBSEA
-------------------------	----------	---------------

9034'	PKR	27°/100' BUILD RATE TO 90° AZIMUTH 290°	3000' LATERAL
9234-54'	= =	NESSON PERFS 12 DEG DEV.	
9346'		PINNED COLLAR	
9529'	PBTD	PREPARED BY: GARY L EVERETZ	DATE: 08/22/02
9702'	*****	5 1/2"	BASIC343H.XLS

DIRICTIONAL WELL TMD - 9716', TVD - 9596'

MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.

**DIRECTIONAL PLAN**  
**BASIC GAME & FISH 34-3H HORIZONTAL WELL**

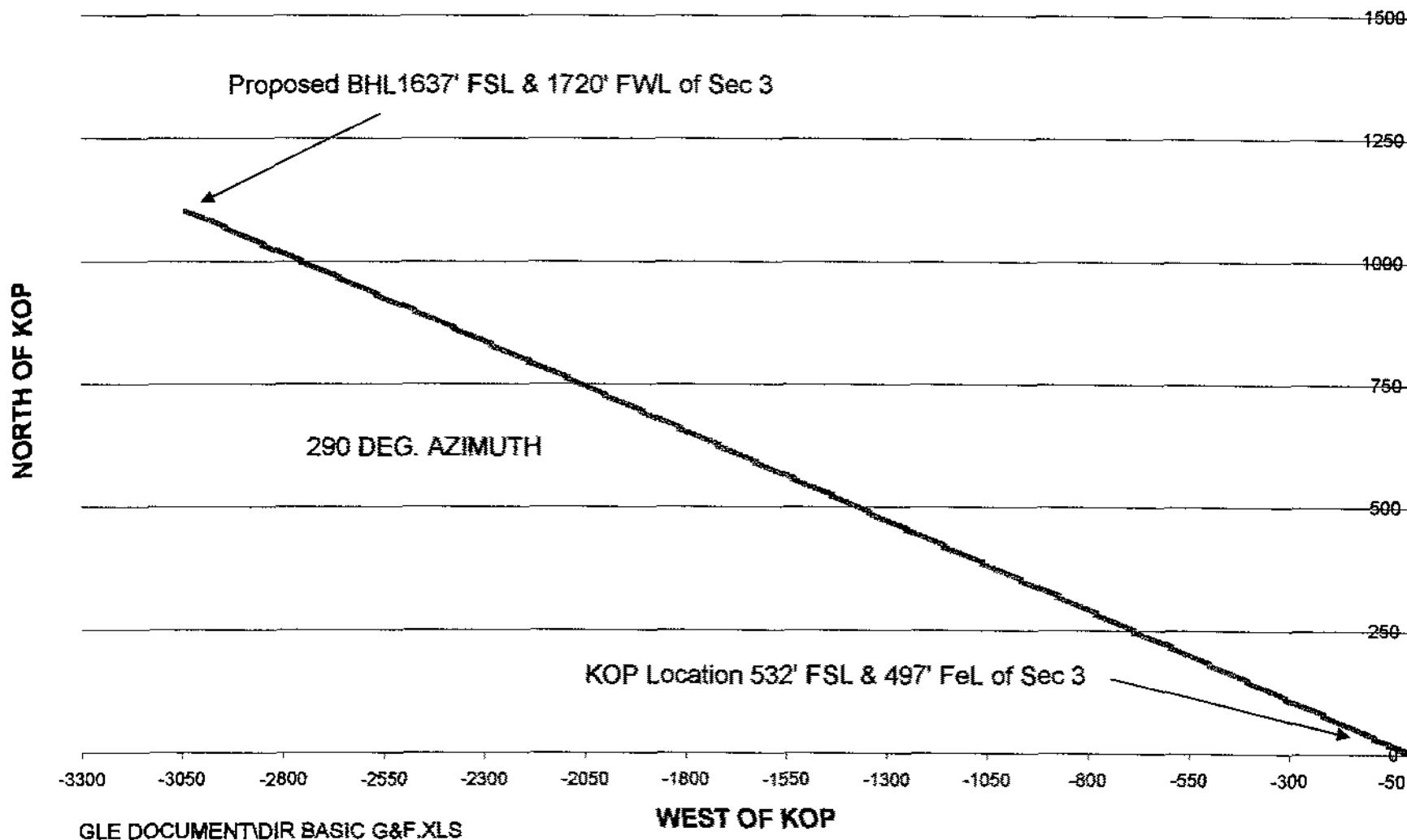
8/22/2002

SURF LOCATION 392' FSL & 484' FWL SEC 2 T153N R101W  
 KOP 633' FSL & 522' FWL SEC 3 T153N R101W  
 TARGET (8438'MD) 535' FSL & 584' FWL SEC 3 T153N R101W  
 END OF LATERAL 1637' FSL & 1720' FWL SEC 3 T153N R101W

GLEDOCUMENTSDIR BASIC O&F.XLS

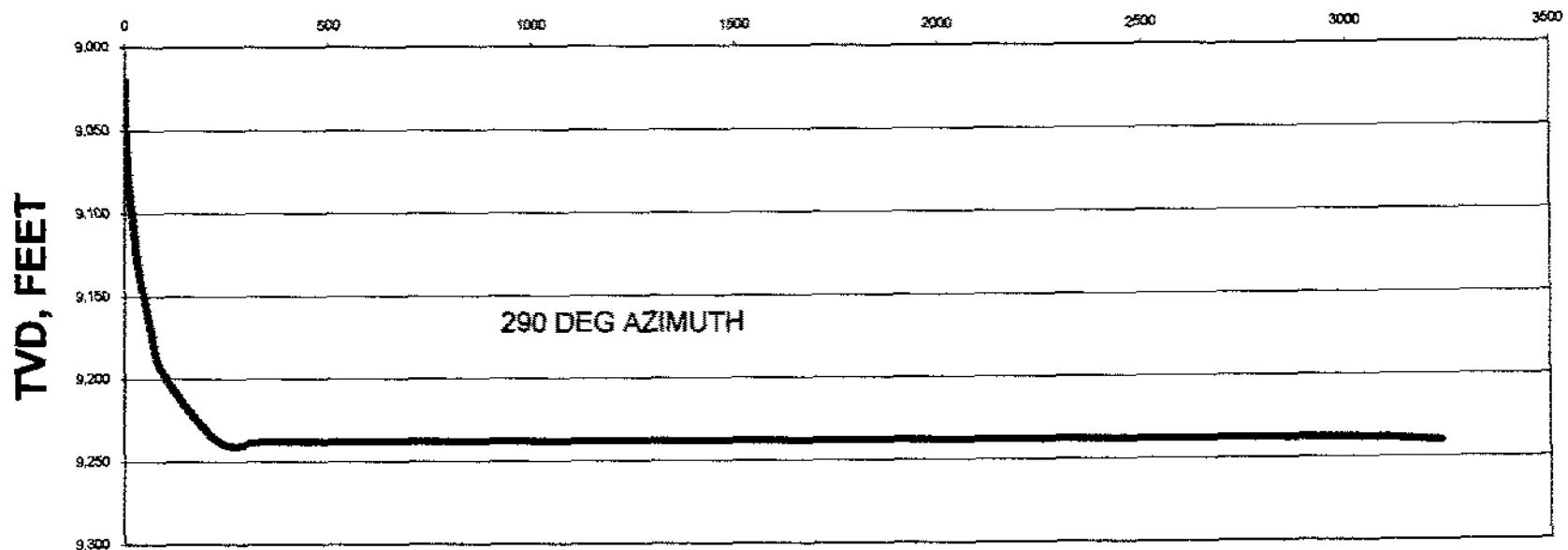
	TVD FEET	TMD FEET	DEV.	AZIMUTH DEGREES	HORIZ. DISPL.	TOTAL DISPL.	SECTION RECTANGULAR COORDINATES		DOG LEG SEVERITY DEG/100'	KOP FOR HORIZONTAL HOLE
							NORTH	EAST		
KICK-OFF PT	9,020	9,020	0.0		0.00	0.00	0.00	0.00	28.93	
	9,030	9,050	8.1	290.0	2.12	2.12	0.73	-2.00	27.04	
	9,050	9,081	16.4	290.0	6.51	8.64	2.95	-8.12	27.12	
	9,110	9,113	25.1	290.0	11.36	20.00	6.83	-18.80	26.02	
	9,140	9,147	34.4	290.0	17.14	37.14	12.66	-34.91	26.02	
	9,170	9,186	45.0	290.0	24.00	62.04	21.16	-56.31	27.10	
	9,200	9,235	56.1	290.0	37.77	98.81	34.08	-93.61	27.16	
TARGET	9,238	9,373	90.0	290.0	192.84	232.65	79.43	-216.67	23.08	TARGET
	9,238	9,473	90.0	290.0	100.00	382.65	113.67	-312.66	0.00	NEBSON POROSITY
	9,238	9,573	90.0	290.0	100.00	432.65	147.71	-408.65	0.00	
	9,238	9,673	90.0	290.0	100.00	582.65	181.85	-500.65	0.00	
	9,238	9,773	90.0	290.0	100.00	632.65	216.99	-594.64	0.00	
	9,238	9,873	90.0	290.0	100.00	732.65	250.13	-688.63	0.00	
	9,238	9,973	90.0	290.0	100.00	832.65	284.27	-782.62	0.00	
	9,238	10,073	90.0	290.0	100.00	932.65	318.41	-878.61	0.00	
	9,238	10,173	90.0	290.0	100.00	1032.65	352.55	-970.60	0.00	
	9,238	10,273	90.0	290.0	100.00	1132.65	386.69	-1084.60	0.00	
	9,238	10,373	90.0	290.0	100.00	1232.65	420.83	-1158.59	0.00	
	9,238	10,473	90.0	290.0	100.00	1332.65	454.97	-1252.58	0.00	
	9,238	10,573	90.0	290.0	100.00	1432.65	489.11	-1348.57	0.00	
	9,238	10,673	90.0	290.0	100.00	1532.65	523.25	-1440.56	0.00	
	9,238	10,773	90.0	290.0	100.00	1632.65	557.39	-1534.55	0.00	
	9,238	10,873	90.0	290.0	100.00	1732.65	591.53	-1628.55	0.00	
	9,238	10,973	90.0	290.0	100.00	1832.65	625.67	-1722.54	0.00	
	9,238	11,073	90.0	290.0	100.00	1932.65	659.81	-1816.53	0.00	
	9,238	11,173	90.0	290.0	100.00	2032.65	693.95	-1910.52	0.00	
	9,238	11,273	90.0	290.0	100.00	2132.65	728.09	-2004.51	0.00	
	9,238	11,373	90.0	290.0	100.00	2232.65	762.23	-2098.51	0.00	
	9,238	11,473	90.0	290.0	100.00	2332.65	796.37	-2192.50	0.00	
	9,238	11,573	90.0	290.0	100.00	2432.65	830.51	-2286.49	0.00	
	9,238	11,673	90.0	290.0	100.00	2532.65	864.65	-2380.48	0.00	
	9,238	11,773	90.0	290.0	100.00	2632.65	898.79	-2474.47	0.00	
	9,238	11,873	90.0	290.0	100.00	2732.65	932.93	-2568.46	0.00	
	9,238	11,973	90.0	290.0	100.00	2832.65	967.07	-2662.46	0.00	
	9,238	12,073	90.0	290.0	100.00	2932.65	1001.21	-2756.45	0.00	
	9,238	12,173	90.0	290.0	100.00	3032.65	1035.35	-2850.44	0.00	
	9,238	12,273	90.0	290.0	100.00	3132.65	1069.49	-2944.43	0.00	
	9,340	12,373	90.0	290.0	100.00	3232.65	1103.63	-3038.42	0.00	HORIZONTAL DISPLACEMENT 3000 FT

**BASIC G&F HORIZONTAL WELL  
PLAN VIEW**



# MELBY 14-1H HORIZONTAL WELL CROSS SECTION

DISPLACEMENT, FEET





# DATADRIL

Division of Smith International, Inc.

**REPORT  
of  
DIRECTIONAL WELL  
SURVEY**

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
 BASIC GAME & FISH *142 34-3*  
 SEC 2-T153N-R101W  
 WILLIAMS COUNTY, N. DAK.  
 OCTOBER 23, 1985

MSS  
 13 DEGREES EAST

File Name: BESSSURWTD

**\*\*\* RECORD OF SURVEY \*\*\***  
 Calculated by Sii DATADRIL's C.A.D.D.S. System

Radius of Curvature Method

All Angles are Decimal

Vertical Section Plane: N 76.08 W

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	DOUBLES SEVERIT (DEG/100')
3000.00	1.00	N 51.89 W	0.00	2899.43	21.02 N 19.47 W	23.95	28.45	N 42.81 W	0.00
3293.00	1.00	S 85.00 W	298.00	3297.38	22.47 N 24.34 W	29.03	33.12	N 47.29 W	.25
3577.00	1.50	S 83.00 W	279.00	3576.32	21.83 N 30.39 W	34.75	37.42	N 54.31 W	.18
3978.00	.50	N 72.00 W	401.00	3977.25	22.50 N 37.30 W	41.62	43.86	N 58.91 W	.27
4034.00	1.75	N 89.00 W	56.00	4033.24	22.68 N 38.38 W	42.71	44.58	N 59.42 W	2.29
4074.00	3.50	S 73.00 N	40.00	4073.20	22.42 N 40.19 W	44.40	46.02	N 60.84 W	4.78
4167.00	6.00	S 81.00 W	93.00	4165.87	20.69 N 47.69 W	51.26	51.98	N 66.54 W	2.77
4260.00	8.00	S 79.00 W	93.00	4258.17	18.72 N 58.85 W	61.62	61.75	N 72.35 W	2.17
4353.00	9.00	S 80.00 W	93.00	4350.15	16.22 N 72.36 W	74.14	74.16	N 77.37 W	1.09
4445.00	10.25	S 80.00 W	92.00	4440.85	13.55 N 87.51 W	88.20	88.55	N 81.20 W	1.38
4538.00	10.00	S 83.00 W	93.00	4532.40	11.13 N 103.68 W	103.31	104.27	N 83.87 W	.63
4631.00	10.50	S 85.00 W	93.00	4623.92	9.40 N 120.14 W	118.87	120.50	N 85.52 W	.66
4787.00	11.50	N 85.00 W	156.00	4777.05	9.40 N 149.86 W	147.72	150.16	N 86.41 W	1.38
4880.00	11.50	N 85.00 W	93.00	4868.18	11.02 N 168.33 W	166.04	168.67	N 86.25 W	0.00
4963.00	12.00	N 79.00 W	83.00	4949.44	13.37 N 185.06 W	182.85	185.55	N 85.87 W	1.59
5057.00	13.75	N 67.00 W	94.00	5041.08	19.48 N 205.06 W	203.72	205.98	N 84.57 W	3.39
5164.00	14.00	N 63.00 W	107.00	5144.95	30.32 N 228.31 W	228.90	230.31	N 82.43 W	.93
5256.00	13.00	N 62.00 W	92.00	5234.41	40.24 N 247.36 W	249.77	250.61	N 80.76 W	1.12
5349.00	13.00	N 61.00 W	93.00	5325.03	50.22 N 265.74 W	270.02	270.45	N 79.30 W	.24
5440.00	13.00	N 59.00 W	91.00	5413.70	60.46 N 283.47 W	289.69	289.85	N 77.96 W	.49
5466.00	13.00	N 59.00 W	26.00	5439.03	63.47 N 286.48 W	295.28	295.38	N 77.59 W	0.00

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME V FISH 14-2

SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOUGLES SEVERITY (DEG/100')
5526.00	13.00	N 74.00 W	62.00	5499.44	69.02 N	301.24 W	308.97	309.04	N 77.10 W	5.43
5630.00	12.25	N 89.00 W	102.00	5598.97	72.49 N	323.20 W	331.15	331.23	N 77.36 W	.30
5691.00	11.50	N 90.00 W	61.00	5658.67	72.71 N	335.75 W	343.38	343.53	N 77.78 W	1.40
5753.00	12.00	S 85.00 W	62.00	5719.37	72.16 N	348.36 W	355.49	355.76	N 78.30 W	1.02
5875.00	11.25	S 86.00 W	122.00	5838.86	70.23 N	372.87 W	378.81	379.43	N 79.33 W	.64
5936.00	11.50	N 90.00 W	61.00	5898.67	69.81 N	384.69 W	390.38	391.17	N 79.72 W	1.36
6031.00	11.75	N 88.00 W	95.00	5991.72	70.15 N	404.03 W	409.04	410.07	N 80.15 W	.50
6124.00	12.00	N 83.00 W	93.00	6062.73	71.65 N	423.10 W	427.91	428.12	N 80.39 W	1.14
6217.00	11.25	N 82.00 W	93.00	6173.82	74.10 N	441.68 W	446.53	447.85	N 80.48 W	.84
6311.00	11.25	N 80.00 W	94.00	6266.01	76.96 N	459.79 W	464.80	466.19	N 80.50 W	.42
6463.00	11.00	N 79.00 W	92.00	6356.28	80.20 N	477.23 W	482.52	483.94	N 80.46 W	.34
6496.00	10.75	N 79.00 W	93.00	6447.61	83.55 N	494.47 W	500.05	501.48	N 80.41 W	.27
6590.00	10.75	N 79.00 W	94.00	6539.96	86.89 N	511.63 W	517.56	519.01	N 80.36 W	0.00
6683.00	11.00	N 77.00 W	93.00	6631.29	90.54 N	528.84 W	535.09	536.54	N 80.28 W	.49
6775.00	11.00	N 76.00 W	92.00	6721.60	94.64 N	545.91 W	552.85	554.05	N 80.17 W	.21
6869.00	11.25	N 75.00 W	94.00	6813.84	99.18 N	563.47 W	570.78	572.13	N 80.02 W	.34
6932.00	11.25	N 75.00 W	63.00	6875.63	102.36 N	575.34 W	583.07	584.38	N 79.91 W	0.00
7148.00	11.25	N 75.00 W	216.00	7087.48	113.27 N	616.05 W	625.20	626.37	N 79.58 W	0.00
7240.00	10.50	N 74.00 W	92.00	7177.82	117.91 N	632.77 W	642.55	643.66	N 79.45 W	.84
7333.00	9.25	N 73.00 W	93.00	7269.44	122.44 N	648.06 W	658.49	659.53	N 79.30 W	1.36
7395.00	9.25	N 74.00 W	62.00	7330.64	125.27 N	657.62 W	668.44	669.44	N 79.22 W	.26
7457.00	9.25	N 74.00 W	62.00	7391.83	128.01 N	667.20 W	678.40	679.37	N 79.14 W	0.00
7520.00	9.25	N 74.00 W	63.00	7454.01	130.80 N	676.93 W	688.52	689.46	N 79.06 W	0.00
7582.00	9.00	N 74.00 W	62.00	7515.23	133.51 N	686.39 W	698.35	699.25	N 78.99 W	.40
7680.00	9.50	N 78.00 W	98.00	7611.95	137.32 N	701.67 W	714.10	714.98	N 78.93 W	.63
7742.00	10.00	N 80.00 W	62.00	7673.06	139.33 N	711.97 W	724.58	725.48	N 78.93 W	.97
7804.00	10.00	N 83.00 W	62.00	7734.12	140.92 N	722.62 W	735.30	736.23	N 78.97 W	.84
7866.00	10.00	N 86.00 W	62.00	7795.17	141.95 N	733.34 W	745.95	746.95	N 79.04 W	.84
7928.00	10.75	N 87.00 W	62.00	7856.16	142.63 N	744.48 W	756.93	758.02	N 79.15 W	1.24
7991.00	11.25	N 87.00 W	63.00	7918.00	143.26 N	756.48 W	768.73	769.93	N 79.28 W	.73
8084.00	12.00	N 90.00 W	93.00	8009.09	143.75 N	775.22 W	787.03	788.43	N 79.49 W	1.04
8176.00	13.00	S 89.00 W	92.00	8098.91	143.58 N	795.13 W	806.32	807.99	N 79.76 W	1.11
8238.00	13.50	S 88.00 W	62.00	8159.26	143.21 N	809.33 W	820.02	821.90	N 79.97 W	.89

**SII DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
BASIC SANE & FISH 14  
*34.3*

SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
8330.00	15.00	S 88.00 W	92.00	8248.43	142.42 N 831.96 W	841.79	844.07	N 80.29 W	.63
8392.00	16.00	S 88.00 W	82.00	8308.17	141.84 N 840.52 W	857.73	860.30	N 80.51 W	.61
8461.00	16.00	S 88.00 W	89.00	8393.72	140.98 N 873.04 W	881.32	884.35	N 80.83 W	0.00
8573.00	16.00	S 89.00 W	92.00	8482.16	140.32 N 898.39 W	905.76	909.28	N 81.12 W	.30
8667.00	15.25	S 89.00 N	94.00	8572.69	139.88 N 923.70 W	930.23	934.23	N 81.39 W	.89
8729.00	15.25	N 90.00 W	62.00	8632.50	139.73 N 940.01 W	946.02	950.34	N 81.54 W	.42

SMITH DRILLING SYSTEMS DRILLER RELEASED

8916.00	14.00	N 90.00 W	187.00	8813.44	139.73 N 987.23 W	981.85	997.07	N 81.94 W	.67
9010.00	13.00	N 88.00 W	74.00	8904.84	140.12 N 1009.16 W	1013.24	1018.85	N 82.10 W	1.17
9072.00	13.00	N 86.00 W	62.00	8953.25	140.85 N 1023.09 W	1026.93	1032.74	N 82.16 W	.73
9150.00	12.25	N 87.00 W	88.00	9051.12	142.02 N 1042.29 W	1045.85	1051.92	N 82.24 W	.89
9224.00	12.00	N 85.00 W	64.00	9113.70	142.98 N 1055.70 W	1059.09	1065.33	N 82.29 W	.76
9271.00	12.00	N 86.00 W	47.00	9159.67	143.72 N 1065.44 W	1068.73	1075.09	N 82.32 W	.44
9323.00	11.50	N 86.00 W	52.00	9210.58	144.46 N 1076.00 W	1079.16	1085.66	N 82.35 W	.98
9384.00	11.75	N 85.00 W	61.00	9270.33	145.43 N 1088.26 W	1081.28	1097.93	N 82.39 W	.83
9447.00	11.75	N 85.00 W	63.00	9332.01	146.55 N 1101.04 W	1103.96	1110.75	N 82.42 W	0.00
9503.00	11.75	N 86.00 W	56.00	9386.83	147.44 N 1112.41 W	1115.21	1122.14	N 82.45 W	.36
9545.00	11.50	N 84.00 W	42.00	9427.97	148.18 N 1120.84 W	1123.57	1130.59	N 82.47 W	1.13
9614.00	11.50	N 83.00 W	69.00	9495.59	149.74 N 1134.51 W	1137.21	1144.34	N 82.48 W	.38
9686.00	12.25	N 83.00 W	72.00	9566.05	151.54 N 1149.21 W	1151.92	1159.16	N 82.49 W	1.04

BOTTOM HOLE CLOSURE: 1159.16 Feet at N 82 Degrees 29 Minutes 16 Seconds W

*Rec'd 9234 BHL 535' fsl + 564' fw*

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

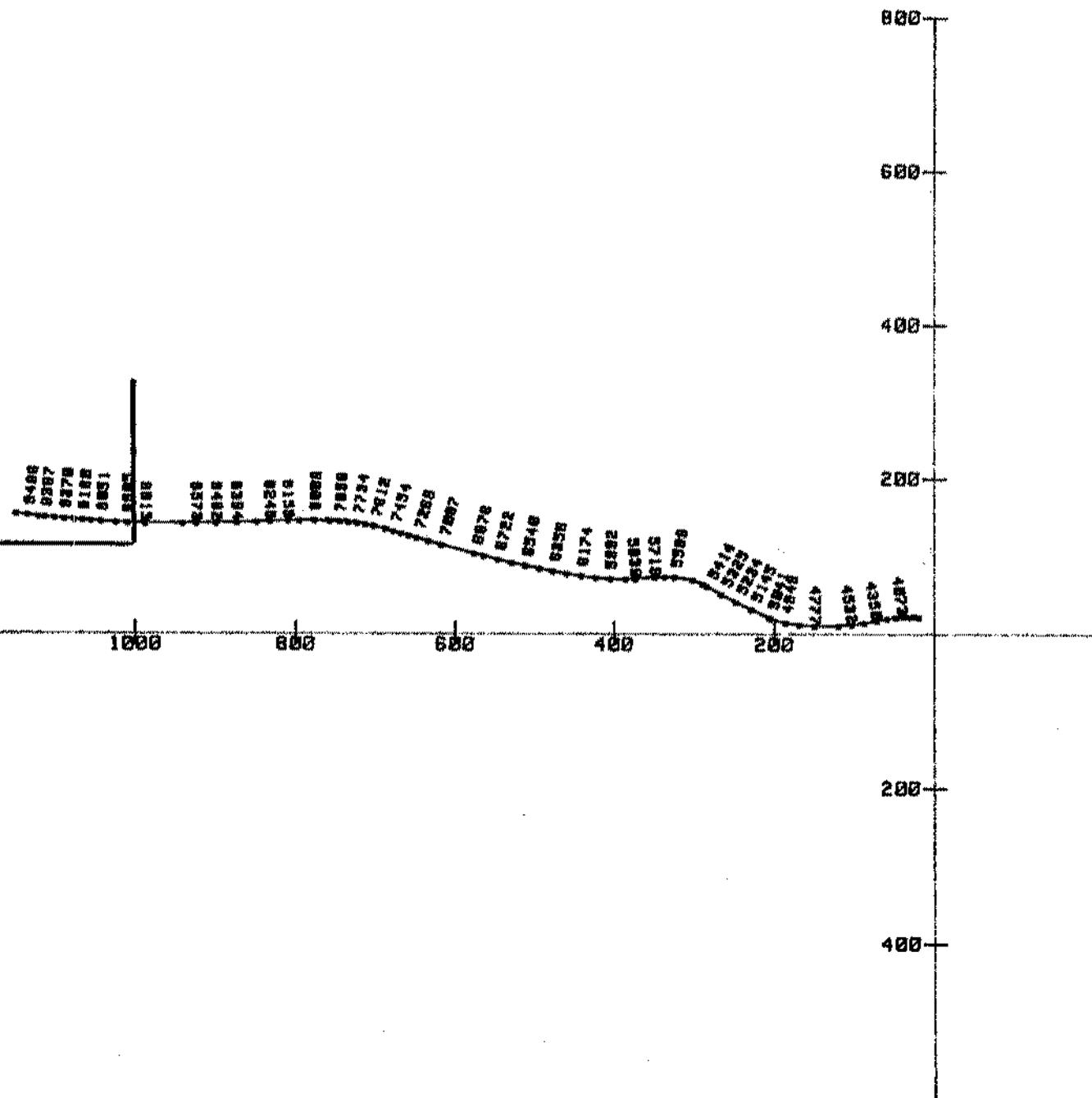
SMITH II DATADRIL  
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 200 FEET/INCH

BHL: 1159 FEET  
e N 82.49 W  
TVD: 9566 FEET  
MD: 9686 FEET

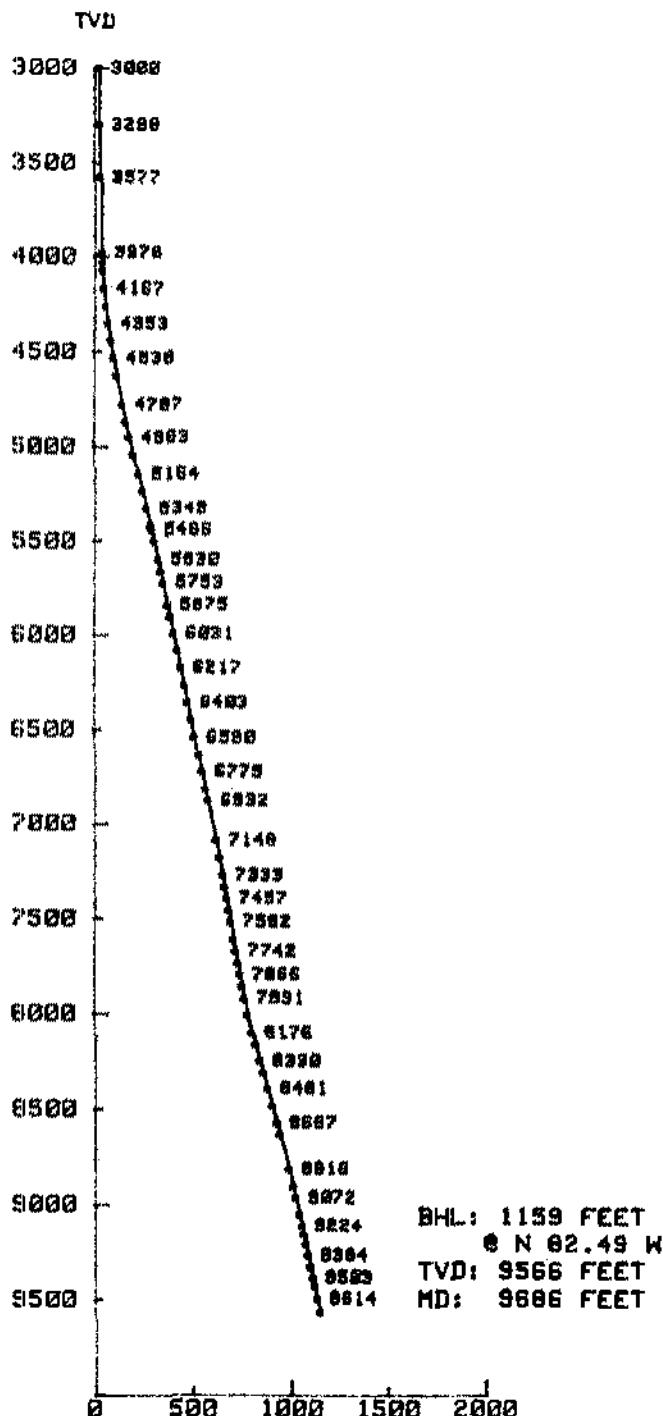


BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

SMITH **J** DATADRIL  
Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 1000 FEET/INCH



VERTICAL SECTION  
SECTION PLANE: N 76.08 W

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
GAME AND FISH 34-3  
WILLIAMS COUNTY, NORTH DAKOTA  
SKUNK HOLLOW FIELD  
OCTOBER 30, 1985

GYROSCOPIC MULTI-SHOT SURVEY  
0 - 3000'

FILE NAME: BESSGYRSUR

**\*\*\* RECORD OF SURVEY \*\*\***  
Calculated by Sii DATADRIL's C.A.D.D.S. System

Radius of Curvature Method  
All Angles are Decimal  
Vertical Section Plane: N 76.08 W

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	DOUGLES SEVERITY (DEG/100)
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
100.00	0.00	N 0.00 E	100.00	100.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
200.00	0.00	N 0.00 E	100.00	200.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
300.00	.25	S 33.00 E	100.00	300.00	.18 S .12 E	-.16	.22	S 33.00 E	.25
400.00	0.00	N 0.00 E	100.00	400.00	.37 S .24 E	-.32	.44	S 33.00 E	.25
500.00	0.00	N 0.00 E	100.00	500.00	.37 S .24 E	-.32	.44	S 33.00 E	0.00
600.00	0.00	N 0.00 E	100.00	600.00	.37 S .24 E	-.32	.44	S 33.00 E	0.00
700.00	.75	S 49.49 E	100.00	700.00	.79 S .74 E	-.90	1.08	S 42.90 E	.75
800.00	.75	S 79.54 E	100.00	799.99	1.35 S 1.90 E	-2.17	2.33	S 54.70 E	.39
900.00	.75	S 86.62 E	100.00	899.98	1.51 S 3.20 E	-3.47	3.54	S 64.82 E	.09
1000.00	.50	S 84.88 E	100.00	999.97	1.59 S 4.29 E	-4.55	4.57	S 69.71 E	.25
1100.00	1.00	S 79.97 E	100.00	1099.96	1.76 S 5.59 E	-5.85	5.86	S 72.53 E	.50
1200.00	1.00	N 30.98 E	100.00	1199.95	1.08 S 7.08 E	-7.13	7.16	S 81.34 E	1.13
1300.00	1.00	N 29.94 E	100.00	1299.93	.43 N 7.97 E	-7.63	7.98	N 86.94 E	.02
1400.00	1.00	N 36.89 E	100.00	1399.92	1.88 N 8.93 E	-8.21	9.12	N 78.09 E	.12
1500.00	1.00	N 16.15 W	100.00	1499.90	3.54 N 9.23 E	-8.11	9.88	N 69.02 E	.89
1600.00	.75	N 39.14 W	100.00	1599.89	4.88 N 8.53 E	-7.10	9.82	N 60.20 E	.47
1700.00	.75	N 27.97 W	100.00	1699.88	5.97 N 7.80 E	-6.14	9.83	N 52.58 E	.15
1800.00	.75	N .09 E	100.00	1799.87	7.23 N 7.49 E	-5.53	10.41	N 46.02 E	.36
1900.00	1.00	N 53.85 W	100.00	1899.86	8.54 N 6.83 E	-4.57	10.93	N 38.63 E	.82
2000.00	1.25	N 59.79 W	100.00	1999.84	9.62 N 5.18 E	-2.72	10.92	N 28.33 E	.28

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
GAME AND FISH 34-3

WILLIAMS COUNTY, NORTH DAKOTA  
SKUNK HOLLOW FIELD

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	BOGLE SEVERITY (DEG/100')
2100.00	1.50	N 56.73 W	100.00	2099.81	10.86 N      3.14 E	- .43	11.32	N 16.11 E	.28
2200.00	2.00	N 52.39 W	100.00	2199.77	12.65 N      .65 E	2.41	12.66	N 2.96 E	.52
2300.00	2.25	N 57.33 W	100.00	2299.70	14.78 N      2.38 W	5.86	14.97	N 9.13 W	.31
2400.00	2.25	N 70.27 W	100.00	2399.62	16.51 N      5.89 N	9.69	17.53	N 19.64 W	.51
2500.00	2.00	N 64.22 W	100.00	2499.55	17.94 N      9.31 N	13.35	20.22	N 27.42 W	.34
2600.00	1.50	N 89.17 W	100.00	2599.51	18.64 N      12.26 W	16.38	22.31	N 33.33 W	.90
2700.00	1.00	N 84.06 W	100.00	2699.48	18.77 N      14.43 W	18.53	23.68	N 37.56 W	.51
2800.00	1.25	N 79.00 W	100.00	2799.46	19.06 N      16.38 W	20.48	25.13	N 40.67 W	.27
2900.00	1.00	N 48.95 W	100.00	2899.44	19.91 N      18.12 W	22.38	26.92	N 42.30 W	.53
3000.00	1.00	N 51.89 W	100.00	2999.43	21.02 N      19.47 W	23.95	28.65	N 42.80 W	.05

BOTTOM HOLE CLOSURE:      28.65 Feet at N 42 Degrees 47 Minutes 49 Seconds W



# SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 5749 (07-2000)

Well File No.

11745



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND THREE COPIES.

 Notice of Intent

Approximate Start Date

10-1-02

 Report of Work Done

Date Work Completed

 Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.

Approximate Start Date

 Drilling Prognosis Spill Report Redrilling or Repair Shooting Casing or Liner Acidizing Plug Well Fracture Treatment Supplemental History Change Production Method Temporarily Abandon Reclamation Other Drill Horizontal Lateral

Well Name and Number

**BASIC GAME & FISH 34-3**

Footages

392

F

S

L

494

F

W

L

Qtr-Qtr  
SWSWSection  
2Township  
153 NRange  
101 W

Field

**BAKER**

Pool

**MADISON**

County

**McKENZIE****24-HOUR PRODUCTION RATE**

Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s)

**To Be Determined**

Address

City

State

Zip Code

**DETAILS OF WORK**

As addendum to our request to sidetrack and drill a horizontal well:

Attached is a survey plat for Section 3 showing interior dimensions.

A check for \$50.

The well will be surveyed every 30' during sidetracking, and every 90' in the horizontal lateral.

Nance Petroleum Corporation requests "Tight Hole" status for this operation.

Company <b>NANCE PETROLEUM CORPORATION</b>	Telephone Number <b>(406)245-6248</b>
---	--

Address <b>P. O. BOX 7168</b>	
----------------------------------	--

City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>
-------------------------	--------------------	-------------------------------

Signature 	Printed Name <b>Loren W. Prigan</b>
---------------	--

Title <b>Engineering Tech</b>	Date <b>September 9, 2002</b>
----------------------------------	----------------------------------

**FOR STATE USE ONLY** Received Approved

Date

**SEP 16 2002**

By

Title

**Horizontal Drilling Supervisor**

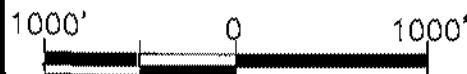
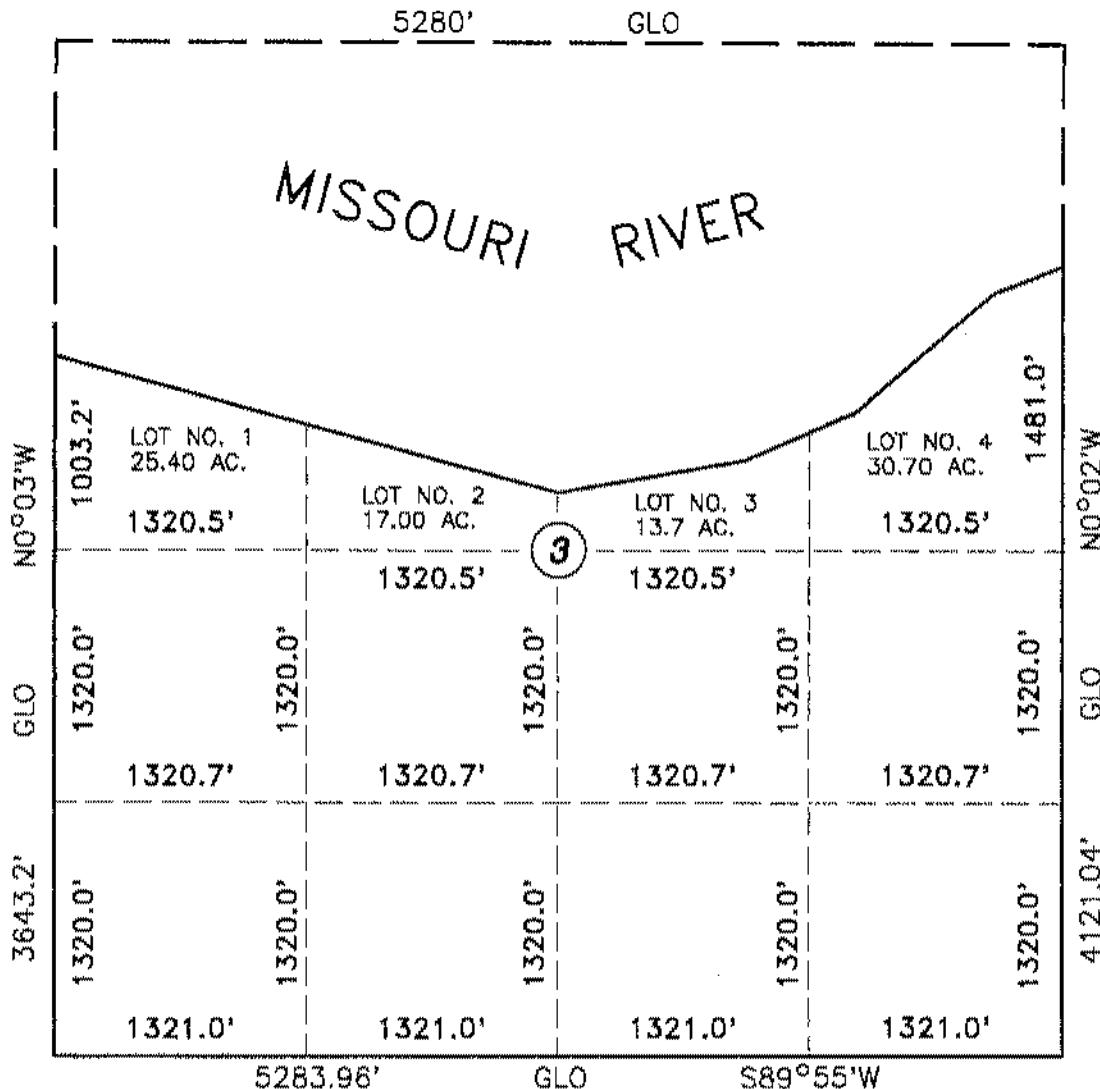
ND

## NORTH DAKOTA - SUPPLEMENTAL PLAT

ND

Applicant NANCE PETROLEUMWell Name & No. BASIC GAME AND FISH 34-3H

Section 3, T153N, R101W, 5th. P.M., MCKENZIE County, North Dakota

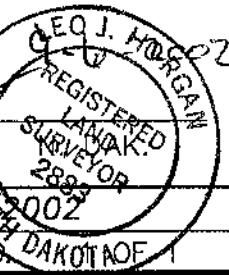


I HEREBY CERTIFY THAT THIS SUPPLEMENTAL PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NOT A FIELD SURVEY

GLO INFORMATION DERIVED FROM GLO PLATS DATED MAR. 30, 1901.

ND

LEO J. HORGAN RLS# 2883



DATE OF PLAT:

09/05/2002

JOB NO. 02-212 DRWG. NO. DAKOTANOF

ND

AmeriTech Engineering Corporation

WILLISTON ND BELFIELD ND

CERTIFICATE OF AUTHORIZATION # C-171

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks  
ASSISTANT DIRECTOR

September 18, 2002

Mr. Gary Evertz  
Nance Petroleum Corp.  
P. O. Box 7168  
Billings, MT 59103

**RE: CONFIDENTIAL STATUS**  
**Basic Game & Fish #34-3**  
**SW SW 2-153N-101W**  
**McKenzie Co.**  
**Baker Field**  
**Well File #11745**

Dear Mr. Evertz:

Your request for confidential status of all information furnished to the Director, or his representatives, is hereby granted. Such information, except production runs, shall remain confidential until March 16, 2003.

Confidential status notwithstanding, the Director and his representatives shall have access to all well records wherever located. Your company personnel, or any person performing work for your company shall permit the Director and his representatives to come upon any lease, property, well, or drilling rig operated or controlled by them, complying with all safety rules, to inspect the records and operation of such wells and to have access at all times to any and all records of wells.

The Commission's field personnel periodically inspect producing and drilling wells. Any information regarding such wells shall be made available to them at any time upon request. The information so obtained by the field personnel shall be maintained in strict confidence and shall be available only to the Commission and its staff.

Sincerely,



Kelly Triplett  
Horizontal Drilling Supervisor

KT/db  
Enc.

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks  
ASSISTANT DIRECTOR

September 18, 2002

Mr. Gary Evertz  
Nance Petroleum Corp.  
P. O. Box 7168  
Billings, MT 59103

**RE: HORIZONTAL RE-ENTRY**  
Basic Game & Fish #34-3  
SW SW 2-153N-101W  
McKenzie Co.  
Baker Field  
Well File #11745

Dear Mr. Evertz:

Pursuant to Commission Order No. 9261, approval to deviate the well bore of the above captioned well is hereby given.

The approval is granted on the condition that all portions of the well bore not isolated by cement, be no closer than 500 feet from the spacing unit boundary consisting of the S2 of Section 3-153N-101W. Inaccuracy of the survey equipment must be considered when determining compliance with setbacks.

A directional survey of the well showing the location of the well bore shall be filed with the Industrial Commission within 30 days after completion of the well. Such survey must be certified by a representative of the survey contractor and mailed directly to us by the contractor. Survey points shall be of such frequency to accurately determine the entire location of the well bore.

Sincerely,



Kelly Triplett  
Horizontal Drilling Supervisor

KT/db  
Enc.

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks  
ASSISTANT DIRECTOR

September 18, 2002

Mr. Gary Evertz  
Nance Petroleum Corp.  
P. O. Box 7168  
Billings, MT 59103

RE: PERMIT RE-ENTRY  
Basic Game & Fish #34-3  
SW SW 2-153N-101W  
McKenzie Co.  
Baker Field  
Well File #11745

Dear Mr. Evertz:

Enclosed is the above captioned application, Check #M8850 in the amount of \$50.00 was received. It is requested that notification be given immediately upon the re-entry of the well. This information should be relayed to the Oil & Gas Division, Bismarck, via telephone. The following information must be included: Well name, legal location, permit number, drilling contractor, company representative, date and time of re-entry. Office hours are 8:00 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m. Central Time. Our telephone number is (701) 328-8020.

Please be advised that conditions may be imposed on the use and reclamation of a drilling reserve pit on this site if specific site conditions warrant.

Sincerely,



Kelly Triplett  
Horizontal Drilling Supervisor

KT/db  
Enc.

# AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 5698 (03-2000)

Well File No.

11745

NDIC CTB No.

111745

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.



Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Section <b>SW SW 1/4 183</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKENZIE</b>
Operator <b>NANCE PETROLEUM CORPORATION</b>	Telephone # <b>406-245-6248</b>	Field <b>BAKER</b>		
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>	

Name of First Purchaser <b>Nexen Marketing USA, Inc.</b>	Telephone # <b>403-699-4059</b>	% Purchased <b>100</b>	Date Effective <b>July 1, 2002</b>
Principal Place of Business <b>1700-801 7th Ave SW 5660 Greenwood Plaza Blvd #603</b>	City <b>Greenwood Village</b>	State <b>Canada</b>	Zip Code <b>80211</b>
Field Address <b>PO Box 567</b>	City <b>Plentywood</b>	State <b>MT</b>	Zip Code <b>59254</b>
Name of Transporter <b>Diamond B Oilfield Trucking (TR)</b>	Telephone Number <b>406-765-1376</b>	% Transported <b>100</b>	Date Effective <b>July 1, 2002</b>
Address <b>PO Box 567</b>	City <b>Plentywood</b>	State <b>MT/N.D.</b>	Zip Code <b>58793</b>

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments	0	

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>June 14, 2002</b>
---	------------------------------

Signature 	Printed Name <b>Gary L. Evertz</b>	Title <b>VP Operations</b>
---------------	---------------------------------------	-------------------------------

Above Signature Witnessed By <b>Valerie Kaae</b>	Witness Printed Name <b>Valerie Kaae</b>	Witness Title <b>Operations Assistant</b>
---	---	--

FOR STATE USE ONLY	
Date Approved <b>JUL 2 2002</b>	By  Title <b>Vicki Choughney Oil Field Analyst</b>

**AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8**

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 5698 (03-2000)

Well File No.

**11745**

NDIC CTB No.

**111745**

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.  
PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr <b>SWSW</b>	Section <b>28</b>	Township <b>153 N</b>	Range <b>101 W</b>	County <b>McKENZIE</b>
Operator <b>NANCE PETROLEUM CORPORATION</b>	Telephone # <b>406-245-6248</b>	Field <b>BAKER</b>			
Address <b>P O BOX 7168</b>	City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>		

Name of First Purchaser <b>Tesoro Refining &amp; Marketing Company</b>	Telephone # <b>720-744-9315</b>	% Purchased <b>100</b>	Date Effective <b>February 1, 2002</b>
Principal Place of Business <b>1225 17th St., Ste 1800</b>	City <b>Denver</b>	State <b>CO</b>	Zip Code <b>80202</b>
Field Address <b>HC 56 Box 605 1A</b>	City <b>Sidney</b>	State <b>MT</b>	Zip Code <b>59270</b>
Name of Transporter <i>High Plains Pipeline Co.</i> <b>Tesoro Refining &amp; Marketing Company (TR)</b>	Telephone Number <b>406-482-4841</b>	% Transported <b>100</b>	Date Effective <b>February 1, 2002</b>
Address <b>HC 56 Box 605 1A 1225 17<sup>th</sup> St Ste 1800</b>	City <b>Sidney Denver</b>	State <b>MT Co</b>	Zip Code <b>80202 59270</b>
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			

Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Comments <b>BP AMOCO sold to Tesoro Refining &amp; Marketing Company</b>		

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.	Date <b>February 1, 2002</b>	
Signature <i>Gary L. Evertz</i>	Printed Name <b>Gary L. Evertz</b>	Title <b>VP Operations</b>

Above Signature Witnessed By <i>Jeanette Magstadt</i>	Witness Signature <i>Jeanette Magstadt</i>	Witness Printed Name <b>Jeanette Magstadt</b>	Witness Title <b>Operations Assistant</b>
--	---	--	--

FOR STATE USE ONLY	
Date Approved <b>FEB 8 2002</b>	
By <i>Sheila O'Hearn</i>	
Title <b>Oil Prod Analyst</b>	



**PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE - FORM 8**  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION

SFN 5698 (2-92)

: Well File Number

11745

: NDIC CTB Number

JU225

**INSTRUCTIONS**

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E.  
Boulevard Avenue, Bismarck, ND 58505

34-3

WELL	BASIC GAME & FISH	(Q/Q)	SWSW	(SEC.)	3 (TWP.)	153N	(RGE.)	101W	COUNTY	MCKENZIE
PRODUCER:	Nance Petroleum Corporation			FIELD	BAKER		POOL	MADISON		

ADDRESS CORRESPONDENCE TO: GARY L. EVERTZ, Nance Petroleum Corporation  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser	AMOCO PRODUCTION COMPANY	% Purchased :	Date Effective
		100	May 1, 2000

Principal Place of Business	1670 Broadway, Ste 1104, Denver, CO 80201 PA 1670 Broadway, Ste 1104, Denver, CO 80201		
	PA 1670 Broadway, Ste 1104, Denver, CO 80201		

Field Address	1670 Broadway, Ste 1104, Denver, CO 80201		
	1670 Broadway, Ste 1104, Denver, CO 80201		

Name of Transporter	AMOCO PRODUCTION COMPANY 1670 Broadway, Ste 1104, Denver, CO 80201 PA 1670 Broadway, Ste 1104, Denver, CO 80201	% Transported :	Date Effective
	AMOCO PRODUCTION COMPANY 1670 Broadway, Ste 1104, Denver, CO 80201 PA 1670 Broadway, Ste 1104, Denver, CO 80201	100	May 1, 2000

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other Transporters Transporting From This Lease		% Transported :	Date Effective

Other First Purchasers Purchasing From This Lease		% Purchased	Date Effective

Remarks

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

Signature	Gary L. Evertz	Title	Date
		Engineer	April 24, 2000

State of Montana  
County of Yellowstone

On April 24, 2000, Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument, personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Notary Public

My Commission Expires AUGUST 21, 2000

JEANETTE M. MAGSTADT

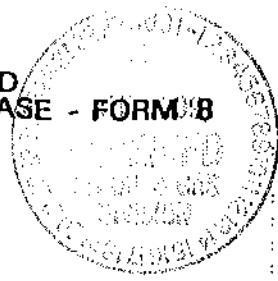


APPROVED BY: Sheila O'Shaughnessy  
Oil Prod. Analyst

Date: JUN 19 2000



**PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE - FORM B**  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 5698 (2-92)



Well File Number :  
11745  
NDIC CTB Number :  
H715

**INSTRUCTIONS**

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E.  
Boulevard Avenue, Bismarck, ND 58505

34-3  
WELL    BASIC GAME & FISH (Q/Q)    SWSW    (SEC.)    12 (TWP.) 153N    (RGE.)    101W    COUNTY MCKENZIE  
PRODUCER: Nance Petroleum Corporation    FIELD BAKER    POOL MADISON

ADDRESS CORRESPONDENCE TO: GARY L. EVERTZ, Nance Petroleum Corporation  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser	BOTT ENERGY OPERATING LIMITED PARTNERSHIP	% Purchased :	Date Effective
Principal Place of Business	P O BOX 4666, HOUSTON, TX 77210-4666	100	June 1, 1999
Field Address	P O BOX 4666, HOUSTON, TX 77210-4666		
Name of Transporter	BOTT ENERGY OPERATING LIMITED PARTNERSHIP	% Transported :	Date Effective
Address	P O BOX 4666, HOUSTON, TX 77210-4666	100	June 1, 1999
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			
Other Transporters Transporting From This Lease		% Transported :	Date Effective
Other First Purchasers Purchasing From This Lease		% Purchased	Date Effective

Remarks  
Name change Panterra Petroleum to NANCE PETROLEUM CORPORATION

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

Signature Gary L. Evertz Title Engineer Date June 30, 1999

State of Montana  
County of Yellowstone

On June 30, 1999, Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument, personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Notary Public

My Commission Expires AUGUST 21, 2000

APPROVED BY: Mark Bohm

Date: AUG 2 1999

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

11745

Lynn D. Helms  
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks  
ASSISTANT DIRECTOR

August 2, 1999

Jan Magstadt  
Nance Petroleum Corp.  
P.O. Box 7168  
Billings, MT 59103-7168

RE: PRINCIPAL NAME CHANGE FROM PANTERRA PETROLEUM TO  
NANCE PETROLEUM CORPORATION  
\$100,000 Bond; Bond No. B01936  
Underwriters Indemnity Co.

Dear Jan:

This office is in receipt of your request to change the principal name of Panterra Petroleum to Nance Petroleum Corporation.

This office is also in receipt of the rider for the above-captioned bond accepting liability of the five (5) wells covered by bond no. B01314.

This letter will verify the principal name change from Panterra Petroleum to Nance Petroleum Corporation, the transfer of the five (5) wells from bond no. B01314 to bond no. B01936 and termination of Nance Petroleum Corp. \$50,000 Bond; Bond No. B01314, Underwriters Indemnity Co. effective this date.

Please feel free to contact this office if you should have any questions.

Sincerely,

*Marge*

Marge Rixen  
Legal Assistant

/mr

cc: Underwriters Indemnity Co.  
8 Greenway Plaza, Ste. 400  
Houston, TX 77046



**PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE**

**INDUSTRIAL COMMISSION OF NORTH DAKOTA**

**OIL AND GAS DIVISION**

SFN 5698 (7-92)

**INSTRUCTIONS**

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E. Boulevard Avenue, Bismarck, ND 58505.



DEC 1998

RECEIVED

NO. 120862923

Well File Number

11745

NDIC CTB Number

111745

Well Name and Number <b>BASIC GAME &amp; FISH 34-3</b>	Qtr-Qtr	Section	Township	Range	County <b>MC KENZIE</b>
Company Name <b>PANTERRA PETROLEUM</b>	Field <b>BAKER</b>				
Address <b>P.O. BOX 7168</b>	City <b>BILLINGS</b>		State <b>MT</b>	Zip Code <b>59103</b>	

Name of First Purchaser <b>EOTT ENERGY OPERATING LIMITED PARTNERSHIP</b>	% Purchased <b>100%</b>	Date Effective <b>12/1/98</b>
Principal Place of Business <b>P O Box 4666</b>	City	State Zip Code <b>TX 77210-4666</b>
Field Address	<b>Houston</b>	City State Zip Code <b>TX 77210-4666</b>
Name of Transporter <b>EOTT ENERGY OPERATING LIMITED PARTNERSHIP</b>	% Transported <b>100.00</b>	Date Effective <b>12/01/98</b>
Address <b>P O BOX 4666</b>	City <b>HOUSTON</b>	State Zip Code <b>TX 77210-4666</b>
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.		
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other Transporters Transporting From This Lease	% Transported	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective

Remarks

Sale of certain oil marketing, transportation and pipeline gathering assets: Koch Oil Company to EOTT Energy Operating Limited Partnership.

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the \_\_\_\_\_.

Signature <i>Terry Holzwart</i>	Title <b>Engineer</b>	Date <b>DEC 11 1998</b>
------------------------------------	--------------------------	----------------------------

STATE OF Montana)  
COUNTY OF Yellowstone)  
ss

Notary  
Seal

On 12/11, 19 98, Terry S. Holzwart, known to me to be the person described in and who executed the foregoing instrument, personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

*Janet N. Hecht*  
Notary Public  
Billings, MT

My commission expires 8/21/00

**FOR OFFICE USE ONLY**

Approved By <i>Charles A. Koch</i>	Title <b>Aug. 1998</b>	Date <b>12/31/98</b>
---------------------------------------	---------------------------	-------------------------

NORTH D. KOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

11745

Wesley D. Norton  
DIRECTOR

P.E. Wilborn  
ASSISTANT DIRECTOR

February 6, 1998

Gary Evertz  
Panterra Petroleum  
P.O. Box 7168  
Billings, MT 59103-7168

RE: Workover Project Determination  
Basic Game & Fish #34-3  
SW SW Sec. 2-T153N-R101W  
Well File #11745

Dear Mr. Evertz:

On June 30, 1997, Panterra Petroleum filed a notice of intent to begin a workover project on the above listed well with the North Dakota Industrial Commission. The workover project was completed on September 16, 1997 and meets the requirements set forth in North Dakota Century Code Section 57-51.1-03.

The workover project was performed from September 9, 1997 to September 16, 1997. The total cost of the project was \$29,075. The average daily production prior to commencement of the workover project from December 1996 through May 1997 was 23.5 barrels of oil per day. The average daily production during the first sixty days after completion of the workover project was 38.7 barrels of oil per day.

Therefore, it is determined the above listed well qualifies as a workover project for tax exemption purposes. The Commission shall have continuing jurisdiction, and shall have the authority to review the matter. The determination may be amended or rescinded by the Commission for good cause.

Sincerely,



Kent Fetzer  
Petroleum Engineer

KF/dh

cc: Tax Dept.



**SUNDRY NOTIC AND REPORTS ON WELLS - FORM**  
**INDUSTRIAL COMMISSION OF NORTH DAKOTA**  
**OIL AND GAS DIVISION**  
**SFN 5749 (1-84)**

Well File Number

11745

800 East Boulevard  
Bismarck, ND 58505

PLEASE READ INSTRUCTIONS ON BACK OF FORM

Notice of Intent  
Approximate Start Date \_\_\_\_\_

Report of Work Done  
Date Work Completed \_\_\_\_\_

- |   |  |
|---|--|
| <input type="checkbox"/> Drilling Program FEB 1998                  | <input type="checkbox"/> Spill Report            |
| <input type="checkbox"/> Redrilling or Repair                       | <input type="checkbox"/> Shooting                |
| <input type="checkbox"/> Casing or Liner                            | <input type="checkbox"/> Acidizing               |
| <input type="checkbox"/> Plug Well                                  | <input type="checkbox"/> Fracture Treatment      |
| <input type="checkbox"/> Supplemental History                       | <input type="checkbox"/> Change Producing Method |
| <input type="checkbox"/> Temporarily Abandon                        | <input type="checkbox"/> Reclamation             |
| <input checked="" type="checkbox"/> Other <u>Workover Exemption</u> |  |

## Well Name and Number

Basic Game &amp; Fish 34-3

Footage	Qtr-Qtr	Section	Township	Range
Surface 392' FSL & 494' FWL	SWSW	2	153N	101W
Field Baker	Pool Madison	County McKenzie		

## 24 HOUR PRODUCTION RATE

BEFORE	AFTER
Oil	Oil
Water	Water
Gas	Gas

## Name of Contractor

Address	City	State	Zip Code

## DETAILS OF WORK

## APPLICATION FOR WORKOVER PROJECT DETERMINATION (43-02-09-04)

1. Enclosed: \$100.00
2. PANTERRA PETROLEUM, P. O. Box 7168, Billings, MT 59103-7168
3. Well name and legal - as above.
4. Dates workover project performed: 9/9/97 to 9/16/97.
5. AFE cost detail attached. Final cost: \$29,075.18.
6. Detail of all work done: see attached Sundry Notice - Form 4.
7. Average daily oil production first 60 days: 35.6 BOPD Before 23.7 BOPD.  
See average before and after attached.
8. Gauge tickets of oil produced during the first two months after completion of the workover and volume of oil stored on the well premises prior to workover (attached).

Company <b>PANTERRA PETROLEUM</b>			
Address <b>P. O. Box 7168</b>			
City <b>Billings</b>	State <b>MT</b>	Zip Code <b>59103-7168</b>	
By <i>Sam E. Evans</i>	Date <b>2/2/98</b>	Telephone Number <b>(406) 245-6248</b>	
Title <b>Operations Manager</b>			

## FOR OFFICE USE ONLY

<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date <b>2-6-98</b>	
By <i>Karen Ferrell</i>	
Title <i>Paralegal</i>	

Basic Game & Fish - Six months production

	1996	1997
December	722	17 61.62
1997		18 53.36
January	762	19 64.89
February	660	20 65.06
March	648	21 56.2
April	796	22 51.59
May	705	23 51.58
	4293 / . 181	24 47.64
	23.7	25 43.22
	11.9 +50%	26 46.66
	35.6	27 43.3

$$4293 / 365/2 = 23.5$$

$$704.04 + 999.83 / 44 = 38.7$$

$$38.7 / 23.5 = 1.647$$

$$64.7\%$$

	1997
	Sept.
1	61.62
2	53.36
3	64.89
4	65.06
5	56.2
6	51.59
7	51.58
8	47.64
9	43.22
10	46.66
11	43.3
12	40.67
13	31.71
14	46.58
15	38.27
16	33.46
17	37.04
18	38.47
19	34.91
20	36.57
21	36.7
22	36.97
23	33.32
24	36.6
25	34.95
26	29.92
27	32.73
28	28.44
29	36.59
30	29.91
31	33.33
	28.37
	28.62
	30.16
	30.02
	24.82
	28.26
	36.87
	31.37
	31.71
	29.99
	51.63
1	39.22
2	29.1
3	31.62
4	29.94
5	28.35
6	25.95
7	30.05
8	24.94
9	26.59
10	29.97
11	28.4
12	24.94
13	33.96
14	21.78
15	26.8
	2135.52

$$704.04$$

$$999.83$$

$$44.28$$

First 2 Mo Prod

$$2135.52 / 60$$

$$= 35.6$$

REQUESTED BY: 韩国图书馆 (韩国)

ACTIVIZE MISSION COMPOX PERIOD

CDN 7 P  
F.C. # 130  
TITL R M 617 BASIC NAME & HIGH 34 3  
OCTOPUS PAUL

MAJOR	MINOR	DESCRIPTION	DATE	B7/B8 BKG CHARGES	ORIGINAL BUDGET	SUPPLEMENTAL BUDGET	ACTUAL VARIANCE	PERCENT VARIANCE
1660 0100	0100	LOCATION, ROADS, PERMITS		.00	500.00	.00	500.00	.0
1660 0200	0200	AFC 135 - REINFORCE REINFOR	9/7/09/16	9,407.84	VENDOR NAME	H & E WELL SERVICE	INDOT GROUP/DON 0-00	
1660 0200	0200	COMPLETION UNIT		9,487.84	16,000.00	.00	6,512.56	39.2
1660 0300	0300	AFC 135	9/7/09/09	362.00	VENDOR NAME	TRI WELL SERVICING	INDOT GROUP/DON 0-00	
1660 0300	0300	AFC 135 - PT TBC	9/7/09/13	103.35	VENDOR NAME	H B & R INC.	INDOT GROUP/DON 0-00	
1660 0300	0300	AFC 135 - TREAT OIL	9/7/09/13	583.85	VENDOR NAME	H B & R INC.	INDOT GROUP/DON 0-00	
1660 0300	0300	AFC 135	9/7/09/26	1,253.61	VENDOR NAME	BLACK HILLS TRUCKING	INDOT GROUP/DON 0-00	
1660 0300	0300	WATER SOURCE, HAULING		2,304.81	2,500.00	.00	195.19	7.8
1660 0450	0450	AFC 135 - PICKLE TBC	9/7/09/10	2,743.72	VENDOR NAME	HALLIBURTON SERVICES	INDOT GROUP/DON 0-00	
1660 0450	0450	AFC 135	9/7/09/11	5,917.08	VENDOR NAME	HALLIBURTON SERVICES	INDOT GROUP/DON 0-00	
1660 0450	0450	STABILIZATION FRAC/ACID		8,660.00	9,000.00	.00	339.99	3.8
1660 0500	0500	AFC 135 - HOLD TANKS	9/7/09/09	194.40	VENDOR NAME	H B & R INC.	INDOT GROUP/DON 0-00	
1660 0500	0500	AFC 135 - TANKS	9/7/09/10	168.00	VENDOR NAME	H B & R INC.	INDOT GROUP/DON 0-00	
1660 0500	0500	AFC 135 - PGR	9/7/09/10	1,853.40	VENDOR NAME	HALLIBURTON SERVICES	INDOT GROUP/DON 0-00	
1660 0500	0500	AFC 135 - REDRESS TBC	9/7/09/11	204.33	VENDOR NAME	HALLIBURTON SERVICES	INDOT GROUP/DON 0-00	
1660 0500	0500	AFC 135 - PGR & ACIDS	9/7/09/13	781.00	VENDOR NAME	WISCO CORPORATION	INDOT GROUP/DON 0-00	
1660 0500	0500	RENTAL EQUIPMENT		3,022.01	4,000.00	.00	757.99	19.0
1660 0510	0510	LABOR - CONTRACT		.00	500.00	.00	500.00	.0
1660 0650	0650	AFC 135	9/7/09/29	2,391.25	VENDOR NAME	STEELE CONSULTING,	INDOT GROUP/DON 0-00	
1660 0650	0650	SUPERVISION - CONTRACT		2,391.25	3,200.00	.00	808.75	24.7
1660 0700	0700	AFC 135 - REP. PPG	9/7/09/32	753.87	VENDOR NAME	WILSON INDUSTRIES	INDOT GROUP/DON 0-00	
1660 0700	0700	OTHER COSTS		753.87	1,000.00	.00	3,246.13	32.0
1660 0800	0800	AFC 135-WORKOVER D/W	9/7/09/30	1,651.92	VENDOR NAME		INDOT GROUP/DON 0-00	
1660 0800	0800	ADMINISTRATIVE OVERHEAD		1,651.92	2,050.00	.00	398.08	19.5
MAJOR ACCOUNT TOTALS				29,492.50	43,750.00	.00	13,257.50	60.3
1700 0960	0960	AFC 135 - SN	9/7/09/32	307.91	VENDOR NAME	WILSON INDUSTRIES	INDOT GROUP/DON 0-00	
1700 0960	0960	AFC 135 - ROD CPGG	9/7/09/14	274.77	VENDOR NAME	WILSON INDUSTRIES	INDOT GROUP/DON 0-00	
1700 0960	0960	SUBDIVISION EQUIPMENT		302.60	2,500.00	.00	1,917.32	73.3
MAJOR ACCOUNT TOTALS				582.68	2,500.00	.00	1,917.32	73.3
TOTALS FOR MRS A.F.C.				29,075.18	44,930.00	.00	15,874.82	65.7

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

1. LEASE DESIGNATION AND SERIAL NO.

2. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NDM82193

8. FARM OR LEASE NAME

Basic Game & Fish

9. WELL NO.

34-3

10. FIELD AND POOL, OR WILDCAT

Baker

11. SEC. T., R., M., OR FILE, AND  
SURVEY OR AREA

3-T153N-R101W

12. COUNTY OR PARISH, 13. STATE

McKenzie ND

14. PERMIT NO.

15. ELEVATIONS (Show whether SP, ST, OR ETC.)

11745

GR 1850

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SEQUENCING REPORT ON:

TEST WATER SHUT-OFF


PULL OR ALTER CASING


WATER SHUT-OFF


REPAIRING WELL


FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other)

(Note: Report results of multiple completion on Well Completion or Decompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

9/9/97 PULL RODS. FISH ROD PART. FOUND 3/4" PART @ 3075. PULL TBG. TIH W/ PKR. PICKLE TBG W/ 900 GAL 15% HCL CIRC OUT CSG. ACIDIZE NESSION W/ 2000 GAL 15% SWIC. AVG PSI 2150 @ 5 BPM. SWAB 11.7 BPH, 95% OIL. RUN 1 1/4" PMP. SN @ 9156; AC @ 9221 & PINNED COLLAR @ 9347. START PUMPING 9/13/97. TEN DAY AVG 54 BO, 12 BW.

18. I hereby certify that the foregoing is true and correct

SIGNED

Operations Manager

DATE 9/29/97

(This space for Federal or State office use)

ORIGINAL SIGNED BY

TITLE

DATE OCT 7 1997

APPROVED BY

WEBORN

TITLE

DATE

Assistant Director

\*See Instructions on Reverse Side

PANTERRA PETROLEUM

					WELL: BASIC GAME & FISH 34-3	FIELD: BAKER	
					LOCATION: SURF:SWSW SEC 2 153N 101W, MCKENZIE CO, ND 392' FSL & 494' FWL		
2960'				9 5/8"	BH @ TD:SESE SEC 3 153N 101W	STATUS: PUMPING OIL WELL 543' FSL & 655' FWL	
3450'				TOP OF CMT	ELEVATION: GL - 1850' KB - 1872' ACCTG NO. 617 SPUD DATE: 10/16/85	ST FILE NO: 11745 AP# 33-053-02102 COMP DATE: 2/3/86	
4034'				KICK-OFF PT.	ROTARY TD: 9596' TVD, 9716' TMD SURF CSG: 9 5/8" 38# K-55 SET @ 2960'. CMT W/ 1100 SX. PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702'. CMT 122 SX.	PBTM: 9561' MD	
					TUBING & BHA	RODS & PUMP	
					291 JTS 2 7/8" L-80 TBG MECH SN - 9156"	22" X 1 1/4" POLISH ROD	
					2 JTS 2 7/8" L-80 TBG BASIN AC - 929221'	124 7/8" GRAD D RODS (3100')	
					4 JTS 2 7/8" L-80 TBG PINNED COLLAR - 9347"	34 - 3/4" GRADE D RODS (850') 182 - 3/4 GR D RODS W/ PADDLES(4550') 24 - 7/8" GR D W/ PADDLES(600') 1" X 4' PADDLE PONY ROD 2 1/2" X 1 1/4" X 24' RHM, BRASS NICARB PUMP	
				SN	SPM - 6 SL - 120"		
8092'				DV COLLAR	5 1/2" SET @		
8392'				MAX ANGLE 16 DEG.	SALT	DEPTH	23# TC80H 46
					DUNHAM	6844-8712	17# L-80 L1 6624
					PINE	7035-7100	23# TC80H 6803
					CHARLES	8275-9004	20# L-80 L1 7013
							23# TC80H 7188
							20# L-80 L1 8281
							23# TC80H 9099
9158'	<> o <			MECH SN	WELLHEAD: CSGHD 9 5/8" X 11" 3000 C22.	20# L-80 L1 9702	
9221'	<<<	>>>		BASIN AC	PUMP UNIT: LUFKIN C456D-365-120, W/ E-42 AJAX MOTOR.		
9234-54'	*		*	NESSON PERFS 12 DEG DEV.	PERFS:	NESSON 9234-54' 4 SPF	
9346'				PINNED COLLAR			
9529'				PBTM	PRODUCTION:		
9702'	*****			5 1/2"	PREPARED BY: GARY L EVERETZ	DATE:	09/13/97

DIRECTIONAL WELL TMD - 9716', TVD - 9596'

MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.

BASIC GAME & FISH 34-3  
Panterra Petroleum  
SWSW 3 - T153N, R101W  
Baker Field  
McKenzie County, ND

AFE #135 Acidize Mission Canyon Perfs

09/13/97 TIH w/ tbg. Set AC w/ 20,000# tension & ND BOP. Flange up well. RU to run pump & rods as follows:

	<u>Tbg &amp; BHA</u>	<u>Pump &amp; Rod Detail</u>
	291 jts 2 7/8" L-80 Tbg	1 1/4" x 22' Polish Rod
	Mech SN	124 - 7/8" Rods (3100')
	2 jts 2 7/8" L-80 Tbg	34 - 3/4" Rods (850')
	AC	182 - 3/4" Rods w/ paddles (4550')
	4 jts 2 7/8" L-80 Tbg	24 - 7/8" rods w/ paddles (600')
	2 7/8" Pinned Collar	1" Pony rod w/ paddles
		2 1/2"x 1 1/4"x 20'x 24'x 24 1/2' RHBM Pump
		#W1103 w/ brass Nicarb bbl

Seat & hang pump. Fill tbg & test to 500 psi - OK. Start pump & PT to 500 psi - OK. 6 SPM, 122"SL. Leave rig up. SDFD. DC \$2224 CC \$26058

09/14/97 Pumped 15 BO, 67 BW.

09/15/97 Pumped 7 BO, 53 BW. Well not pumping @ gauge time (lots of gas). Took 55 min to test to 500 psi. Lower pump to light tag w/ seat. Too windy to RD. DC \$943 CC \$27001

09/16/97 Pumped 42 BO, 20 BW in 24 hrs. Producing a lot of gas. With flow line valve shut, built up 40 psi in 10 min. DC \$1144 CC \$27145

09/17/97 Pumped 62 BO, 22 BW in 24 hrs.  
09/18/97 Pumped 53 BO, 27 BW in 24 hrs.  
09/19/97 Pumped 65 BO, 5 BW in 23 hrs.  
09/20/97 Pumped 65 BO, 8 BW in 24 hrs.  
09/21/97 Pumped 58 BO, 12 BW in 24 hrs.  
09/22/97 Pumped 48 BO, 10 BW in 24 hrs.  
09/23/97 Pumped 52 BO, 7 BW in 24 hrs.  
09/24/97 Pumped 47 BO, 3 BW in 24 hrs.  
09/25/97 Pumped 43 BO, 3 BW in 24 hrs.  
09/26/97 Pumped 47 BO, 25 BW in 24 1/2 hrs.

10 day Avg 54 BO, 12 BW.

## Daily Gauges and Pipe Line Runs for Month of September

## Lease/Well: BASIC GAME &amp; FISH 34-3

Date	400			400												Total Stock In Tank	Water Prod		Ticket Number	Tank Number	Run Date	Measured On		Measured Off		BS&W	Obsv Tmp	Temp On	Gravity	Total Run to Pl Co Barrels	Total Daily Prod BBLS
	Feet	Inch	Stock	Feet	Inch	Stock	Feet	Inch	Stock	Feet	Inch	Stock	Fresh Water	Salt Water	Run Date	Ft	In	Ft	In												
9/02/97	7	2.00	149.54	6	6.00	134.37	0	0.00	0.00	0	0.00	0.00	283.91	0	0	05423-3661	247413	9/05/97	9/06/97	14	6.00	4	8.00	0.0030000	90	96	36.20	196.82	0.00		
9/03/97	10	2.00	209.45	6	6.00	134.37	0	0.00	0.00	0	0.00	0.00	343.82	0	18	05423-3669	247414	9/08/97	9/09/97	12	1.50	2	2.00	0.0000000	82	0	34.60	199.24	59.91		
9/04/97	14	6.00	296.38	6	6.00	134.37	0	0.00	0.00	0	0.00	0.00	430.75	0	2	05423-3690	247413	9/15/97	9/17/97	16	5.50	6	4.00	0.0005000	128	156	37.50	202.73	86.93		
9/05/97	14	6.00	296.38	7	8.00	157.64	0	0.00	0.00	0	0.00	0.00	454.02	0	0	09950-3139	247413	9/20/97	9/21/97	14	0.50	3	7.00	0.0045000	100	102	37.00	209.45	23.27		
9/06/97	4	8.00	99.56	9	4.00	190.92	0	0.00	0.00	0	0.00	0.00	290.48	0	0	05423-3695	247414	9/22/97	9/23/97	15	8.00	5	9.00	0.0020000	130	167	39.00	198.22	33.28		
9/07/97	4	8.00	99.56	12	1.50	246.77	0	0.00	0.00	0	0.00	0.00	346.33	0	3	09950-3140	247413	9/25/97	9/26/97	13	0.50	2	6.00	0.0045000	104	106	37.30	211.52	55.85		
9/08/97	7	10.00	162.85	12	1.50	246.77	0	0.00	0.00	0	0.00	0.00	409.62	0	0													63.29			
9/09/97	11	4.00	232.72	2	2.00	47.53	0	0.00	0.00	0	0.00	0.00	280.25	0	0													69.87			
9/10/97	9	9.00	201.13	2	2.00	47.53	0	0.00	0.00	0	0.00	0.00	248.56	0	0													-31.59			
9/11/97	9	9.00	201.13	2	2.00	47.53	0	0.00	0.00	0	0.00	0.00	248.56	0	0													0.00			
9/12/97	9	9.00	201.13	2	2.00	47.53	0	0.00	0.00	0	0.00	0.00	248.66	0	0													0.00			
9/13/97	9	9.00	201.13	2	2.00	47.53	0	0.00	0.00	0	0.00	0.00	248.66	0	0													0.00			
9/14/97	18	7.00	378.29	7	6.00	154.32	0	0.00	0.00	0	0.00	0.00	532.61	0	0													283.95			
9/15/97	18	7.00	378.29	7	10.00	160.97	0	0.00	0.00	0	0.00	0.00	539.26	0	32													6.65			
9/16/97	16	5.50	335.64	10	3.00	209.29	0	0.00	0.00	0	0.00	0.00	544.93	0	22													5.67			
9/17/97	6	4.00	132.91	13	4.00	270.91	0	0.00	0.00	0	0.00	0.00	403.82	0	22													61.62			
9/18/97	6	4.00	132.91	16	0.00	324.27	0	0.00	0.00	0	0.00	0.00	457.18	0	27													53.36			
9/19/97	9	7.00	197.80	16	0.00	324.27	0	0.00	0.00	0	0.00	0.00	522.07	0	5													64.89			
9/20/97	12	10.00	262.86	16	0.00	324.27	0	0.00	0.00	0	0.00	0.00	587.13	0	8													65.06			
9/21/97	5	2.00	109.61	16	0.00	324.27	0	0.00	0.00	0	0.00	0.00	433.88	0	12													56.20			
9/22/97	8	1.00	167.84	15	8.00	317.63	0	0.00	0.00	0	0.00	0.00	485.47	0	10													51.59			
9/23/97	10	8.00	219.42	5	9.00	119.41	0	0.00	0.00	0	0.00	0.00	338.83	0	7													51.58			
9/24/97	13	0.50	267.06	5	9.00	119.41	0	0.00	0.00	0	0.00	0.00	386.47	0	3													47.64			
9/25/97	13	0.50	267.06	7	11.00	162.63	0	0.00	0.00	0	0.00	0.00	429.69	0	3													43.22			
9/26/97	2	6.00	55.54	10	3.00	209.29	0	0.00	0.00	0	0.00	0.00	264.83	0	2													46.66			
9/27/97	2	6.00	55.54	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	308.13	0	2													43.30			
9/28/97	4	6.00	96.21	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	348.80	0	2													40.67			
9/29/97	6	1.00	127.92	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	380.51	0	2													31.71			
9/30/97	8	5.00	174.50	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	427.09	0	5													46.58			
10/01/97	10	4.00	212.77	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	465.36	0	7													38.27			

## Computation of Production

Total Days produced in month =

26

0 194 Computer Version By: Travis Bauer

Stock End of Month 465.36

Add Pipeline Runs 1,217.98

1181.29

Stock First of Month 283.91

Production for Month 1,399.43

Total Formation Water: 194

Dan's Production Service  
Williston, ND

Approved by: (Pumper):

Approved by: (Supervisor):

- 9/02/97 Down 24 hrs. Started unit at 7:00 this am.
- 9/03/97 Put 55.11 bbls hot oil down casing & 15.03 bbls hot oil thru flowline.
- 9/05/97 Down approx 14 hrs, changed spark plug & restarted.

A handwritten signature in black ink that reads "Rhonda J. Holte". The signature is cursive and appears to be a personal or professional name.

## Daily Gauges and Pipe Line Runs for Month of November

Lease/Well: BASIC GAME &amp; FISH 34-3

Size	247413			247414									Total Stock In Tank	Water Prod		Ticket Number	Tank Number	Date	Run Date	Measured On		Measured Off		BS&W	Obsv Tmp	Temp On	Gravity	Total Run to Pl Co Barrels	Total Daily Prod BBLS
	400			400										Fresh Water	Salt Water					Run Ft	In	Measured Ft	In						
Date	Feet	Inch	Stock	Feet	Inch	Stock	Feet	Inch	Stock	Feet	Inch	Stock																	
11/02/97	7	10.00	162.85	2	7.50	56.76	0	0.00	0.00	0	0.00	0.00	219.61	0	0	72570-3495	247414	11/01/97	11/02/97	13	9.50	2	7.50	0.0010000	90	94	36.00	223.34	29.10
11/03/97	9	5.00	194.47	2	7.50	56.76	0	0.00	0.00	0	0.00	0.00	251.23	0	0	24033-3562	247413	11/05/97	11/06/97	12	4.00	1	4.50	0.0025000	74	89	33.90	220.67	31.62
11/04/97	10	11.00	224.41	2	7.50	56.76	0	0.00	0.00	0	0.00	0.00	281.17	0	0	01014-3203	247414	11/15/97	11/16/97	12	2.00	1	8.25	0.0005000	48	48	33.50	209.78	29.94
11/05/97	12	4.00	252.76	2	7.50	56.76	0	0.00	0.00	0	0.00	0.00	309.52	0	3	25480-3245	247413	11/20/97	11/21/97	12	7.25	1	4.00	0.0030000	80	82	35.80	227.01	28.35
11/06/97	1	4.50	32.09	3	11.00	82.71	0	0.00	0.00	0	0.00	0.00	114.80	0	3	72570-3534	247414	11/30/97	12/01/97	13	3.00	2	4.50	0.0020000	65	69	35.00	217.51	25.95
11/07/97	1	4.50	32.09	5	5.00	112.76	0	0.00	0.00	0	0.00	0.00	144.85	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	30.05
11/08/97	1	4.50	32.09	6	8.00	137.70	0	0.00	0.00	0	0.00	0.00	169.79	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	24.94
11/09/97	1	4.50	32.09	8	0.00	164.29	0	0.00	0.00	0	0.00	0.00	196.38	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	26.59
11/10/97	1	4.50	32.09	9	6.00	194.26	0	0.00	0.00	0	0.00	0.00	226.35	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	29.97
11/11/97	1	4.50	32.09	10	11.00	222.66	0	0.00	0.00	0	0.00	0.00	254.75	0	10					11	11	0	0.00	0.0000000	0	0	0.00	0.00	28.40
11/12/97	1	4.50	32.09	12	2.00	247.50	0	0.00	0.00	0	0.00	0.00	279.69	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	24.94
11/13/97	3	0.00	66.05	12	2.00	247.50	0	0.00	0.00	0	0.00	0.00	313.65	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	33.96
11/14/97	4	1.00	87.83	12	2.00	247.50	0	0.00	0.00	0	0.00	0.00	335.43	0	3					11	11	0	0.00	0.0000000	0	0	0.00	0.00	21.78
11/15/97	5	5.00	114.63	12	2.00	247.50	0	0.00	0.00	0	0.00	0.00	362.23	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	26.80
11/16/97	7	1.00	147.88	1	8.25	37.82	0	0.00	0.00	0	0.00	0.00	185.70	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	21.62
11/17/97	8	2.00	169.50	1	8.25	37.82	0	0.00	0.00	0	0.00	0.00	207.32	0	7					11	11	0	0.00	0.0000000	0	0	0.00	0.00	28.30
11/18/97	9	7.00	197.80	1	8.25	37.82	0	0.00	0.00	0	0.00	0.00	235.62	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	22.61
11/19/97	12	7.25	258.23	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	258.23	0	2					11	11	0	0.00	0.0000000	0	0	0.00	0.00	28.92
11/20/97	12	7.25	258.23	1	3.00	28.92	0	0.00	0.00	0	0.00	0.00	287.15	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	27.00
11/21/97	1	4.00	31.22	2	7.00	55.92	0	0.00	0.00	0	0.00	0.00	87.14	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	26.79
11/22/97	1	4.00	31.22	3	11.00	82.71	0	0.00	0.00	0	0.00	0.00	113.93	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	25.07
11/23/97	1	4.00	31.22	5	2.00	107.78	0	0.00	0.00	0	0.00	0.00	139.00	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	28.25
11/24/97	1	4.00	31.22	6	7.00	136.03	0	0.00	0.00	0	0.00	0.00	167.25	0	7					11	11	0	0.00	0.0000000	0	0	0.00	0.00	24.94
11/25/97	1	4.00	31.22	7	10.00	160.97	0	0.00	0.00	0	0.00	0.00	192.19	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	-9.98
11/26/97	1	4.00	31.22	7	4.00	150.99	0	0.00	0.00	0	0.00	0.00	182.21	0	7					11	11	0	0.00	0.0000000	0	0	0.00	0.00	53.29
11/27/97	1	4.00	31.22	10	0.00	204.28	0	0.00	0.00	0	0.00	0.00	235.50	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	35.01
11/28/97	1	4.00	31.22	11	9.00	239.29	0	0.00	0.00	0	0.00	0.00	270.51	0	3					11	11	0	0.00	0.0000000	0	0	0.00	0.00	29.95
11/29/97	1	4.00	31.22	13	3.00	269.24	0	0.00	0.00	0	0.00	0.00	300.46	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	27.80
11/30/97	2	8.00	59.02	13	3.00	269.24	0	0.00	0.00	0	0.00	0.00	328.26	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	28.81
12/01/97	4	1.00	87.83	2	4.50	51.73	0	0.00	0.00	0	0.00	0.00	139.56	0	0					11	11	0	0.00	0.0000000	0	0	0.00	0.00	

## Computation of Production

Total Days produced in month = 30

Stock End of Month	139.56
Add Pipeline Runs	1,098.31
Stock First of Month	413.85
Production for Month	824.02

*1089.64*

0 45 Computer Version By: Travis Bauer

Total Formation Water: 45  
Dan's Production Service  
Williston, ND

Approved by: (Pumper):

Approved by: (Supervisor):

*Rhonda J. Bartlette*

11/19/97 Recycled on Tank 14 from 1'8-1/4" to 0" into Tank 13.

11/26/97 Put 70.14 bbls hot oil down casing.

## Daily Gauges and Pipe Line Runs for Month of October

Lease/Well: BASIC GAME &amp; FISH 34-3

	247413			247414									Total Stock In Tank	Water Prod		Ticket Number	Tank Number	Run Date	Measured On	Measured Off	BS&W	Obsv	Temp On	Gravity	Total Run to Pl Co Barrels	Total Daily Prod BBLS			
	400	400	400	400	400	400	400	400	400	400	400	400		Fresh Water	Salt Water	Date	Run Date	Ft	In	Run Date	Ft	In	Tmp						
10/02/97	10	6.00	216.10	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	468.69	0	3	09950-3152	247414-	10/03/97	10/04/97	12	1.00	1	3.75	0.0035000	88	90	35.50	215.75	3.33
10/03/97	13	5.00	274.63	12	5.00	252.59	0	0.00	0.00	0	0.00	0.00	527.22	0	2	09950-3158	247413-	10/04/97	10/05/97	15	5.75	4	11.00	0.0040000	108	108	37.70	211.41	58.53
10/04/97	15	5.00	314.74	1	3.75	30.19	0	0.00	0.00	0	0.00	0.00	344.83	0	3	09950-3172	247414-	10/11/97	10/12/97	12	2.00	1	9.50	0.0020000	84	86	35.90	207.66	33.46
10/05/97	4	11.00	104.58	3	1.00	65.98	0	0.00	0.00	0	0.00	0.00	170.56	0	3	05423-3736	247413-	10/16/97	10/17/97	11	8.00	1	9.50	0.0020000	87	89	36.90	198.59	37.04
10/06/97	4	11.00	104.58	5	0.00	104.45	0	0.00	0.00	0	0.00	0.00	209.03	0	2	09950-3208	247413-	10/27/97	10/28/97	14	8.75	4	4.50	0.0040000	114	116	38.00	207.27	38.47
10/07/97	4	11.00	104.58	6	9.00	139.36	0	0.00	0.00	0	0.00	0.00	243.94	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	34.91
10/08/97	4	11.00	104.58	8	7.00	175.93	0	0.00	0.00	0	0.00	0.00	280.51	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	35.57
10/09/97	4	11.00	104.58	10	5.00	212.63	0	0.00	0.00	0	0.00	0.00	317.21	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	36.70
10/10/97	4	11.00	104.58	12	2.00	247.60	0	0.00	0.00	0	0.00	0.00	352.18	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	34.97
10/11/97	6	7.00	137.90	12	2.00	247.60	0	0.00	0.00	0	0.00	0.00	385.50	0	7					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	33.32
10/12/97	8	5.00	174.50	1	9.50	39.94	0	0.00	0.00	0	0.00	0.00	214.44	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	36.60
10/13/97	10	2.00	209.45	1	9.50	39.94	0	0.00	0.00	0	0.00	0.00	249.39	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	34.95
10/14/97	11	8.00	239.37	1	9.50	39.94	0	0.00	0.00	0	0.00	0.00	279.31	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	29.92
10/15/97	11	8.00	239.37	3	5.00	72.67	0	0.00	0.00	0	0.00	0.00	312.04	0	3					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	32.73
10/16/97	11	8.00	239.37	4	10.00	101.11	0	0.00	0.00	0	0.00	0.00	340.48	0	3					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	28.44
10/17/97	1	9.50	40.78	6	8.00	137.70	0	0.00	0.00	0	0.00	0.00	178.48	0	2					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	36.59
10/18/97	1	9.50	40.78	8	2.00	167.61	0	0.00	0.00	0	0.00	0.00	208.39	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	29.91
10/19/97	1	9.50	40.78	9	10.00	200.94	0	0.00	0.00	0	0.00	0.00	241.72	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	33.33
10/20/97	1	9.50	40.78	11	3.00	229.31	0	0.00	0.00	0	0.00	0.00	270.09	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	28.37
10/21/97	3	2.00	69.40	11	3.00	229.31	0	0.00	0.00	0	0.00	0.00	298.71	0	2					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	28.62
10/22/97	4	8.00	99.56	11	3.00	229.31	0	0.00	0.00	0	0.00	0.00	328.87	0	2					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	30.16
10/23/97	6	2.00	129.58	11	3.00	229.31	0	0.00	0.00	0	0.00	0.00	358.69	0	7					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	24.82
10/24/97	9	11.00	204.46	8	9.00	179.25	0	0.00	0.00	0	0.00	0.00	383.71	0	10					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	28.26
10/25/97	11	4.00	232.72	8	9.00	179.25	0	0.00	0.00	0	0.00	0.00	411.97	0	3					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	36.87
10/26/97	13	2.00	269.59	8	9.00	179.25	0	0.00	0.00	0	0.00	0.00	448.84	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	31.37
10/27/97	14	8.75	300.96	8	9.00	179.25	0	0.00	0.00	0	0.00	0.00	480.21	0	2					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	31.71
10/28/97	4	4.50	93.69	10	4.00	210.96	0	0.00	0.00	0	0.00	0.00	304.65	0	7					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	29.99
10/29/97	4	4.50	93.69	11	10.00	240.95	0	0.00	0.00	0	0.00	0.00	334.64	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	-11.64
10/30/97	4	4.50	93.69	11	3.00	229.31	0	0.00	0.00	0	0.00	0.00	323.00	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	51.63
10/31/97	4	4.50	93.69	13	10.00	280.94	0	0.00	0.00	0	0.00	0.00	374.63	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	39.22
11/01/97	6	4.00	132.91	13	10.00	280.94	0	0.00	0.00	0	0.00	0.00	413.85	0	0					0	0.00	0	0.00	0.0000000	0	0	0.00	0.00	

## Computation of Production

Total Days produced in month = 31

Stock End of Month 413.85

Add Pipeline Runs 1,040.68

Stock First of Month 465.36

Production for Month 989.17

1019.19

0 61 Computer Version By: Travis Bauer

Total Formation Water: 61

Dan's Production Service  
Williston, ND

Approved by: (Pumper):

Approved by: (Supervisor):

Rhonda J. Bartlette

10/02/97 Put 70.14 bbls hot oil down casing.

10/24/97 Recycled on Tank 14 from 113° to 89° into Tank 13.

Form 3160-5  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATES  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

11745

SUNDY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

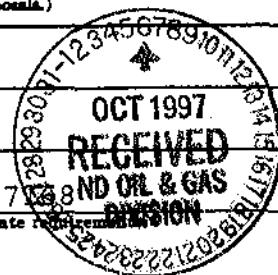
PANTERRA PETROLEUM

3. ADDRESS OF OPERATOR

P. O. Box 7168, Billings, MT 59103-7168

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

Surface 392' FSL & 494' FWL SWSW



14. PERMIT NO.

11745

15. ELEVATIONS (Show whether DP, ST, GR, etc.)

GR 1850

16. COUNTY OR PARISH: 17. STATE

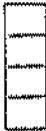
McKenzie

ND

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF  
FRACTURE TREAT  
SHOOT OR ACIDIZE  
REPAIR WELL  
(Other)



PULL OR ALTER CASING  
MULTIPLE COMPLETION  
ABANDON\*  
CHANGE PLANS



WATER SHUT-OFF  
FRACTURE TREATMENT  
SHOOTING OR ACIDIZING  
(Other)



REPAIRING WELL  
ALTERING CASING  
ABANDONMENT\*



(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

19. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

9/9/97 PULL RODS. FISH ROD PART. FOUND 3/4" PART @ 3075'. PULL TBG. TIH W/ PKR. PICKLE TBG W/ 900 GAL 15% HCL CIRC OUT CSG. ACIDIZE NESSION W/ 2000 GAL 15% SWIC. AVG PSI 2150 @ 5 BPM. SWAB 11.7 BPH, 95% OIL. RUN 1 1/4"PMP. SN @ 9156' AC @ 9221' & PINNED COLLAR @ 9347'. START PUMPING 9/13/97. TEN DAY AVG 54 BO, 12 BW.

19. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Operations Manager

DATE 9/29/97

(This space for Federal or State office use)

Rec'd.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Assistant Director

DATE OCT 7 1997

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

PANTERRA PETROLEUM

					WELL: BASIC GAME & FISH 34-3	FIELD: BAKER
					LOCATION: SURF:SW/SW SEC 2 153N 101W, MCKENZIE CO, ND 392' FSL & 494' FWL	
2960'				9 5/8"	BH @ TD:SE/SE SEC 3 153N 101W	STATUS: PUMPING OIL WELL 543' FSL & 655' FEL
3450'				TOP OF CMT	ELEVATION: GL - 1650' KB - 1872'	ST FILE NO: 11745
					ACCTG NO: 817	API# 33-053-02102
					SPUD DATE: 10/16/85	COMP DATE: 2/3/88
					ROTARY TD: 9598' TVD, 9716' TMD	PBTD: 9561' MD
4034'				KICK-OFF PT.	SURF CSG: 9 5/8" 36# K-55 SET @ 2960'. CMT W/ 1100 SX.	
					PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702'. CMT 122 SX.	
					TUBING & BHA	RODS & PUMP
					-----	-----
					291 JTS 2 7/8" L-80 TBG	22" X 1 1/4" POLISH ROD
					MECH SN - 9156'	124 7/8" GRAD D RODS (3100')
					2 JTS 2 7/8" L80 TBG	34 - 3/4" GRADE D RODS (650')
					BASIN AC - 929221'	182 - 3/4 GR D RODS W/ PADDLES(4550')
					4 JTS 2 7/8" L80 TBG	24 - 7/8" GR D W/ PADDLES(600')
					PINNED COLLAR - 9347'	1" X 4' PADDLE PONY ROD
						2 1/2" X 1 1/4" X 24" RHBM, BRASS NICARB PUMP
					SN	
					SPM - 6 SL - 120"	
8092'				DV COLLAR		5 1/2" SET @
					SALT DEPTH	
					-----	-----
8392'				MAX ANGLE	23# TC80H	45
				16 DEG.	17# L-80 L1	6624
					23# TC80H	6803
					20# L-80 L1	7013
					23# TC80H	7188
					20# L-80 L1	8251
					23# TC80H	9099
9156'	><	<>		MECH SN	WELLHEAD: CSGHD 9 5/8" X 11" 3000 C22.	20# L-80 L1
						9702
8221'	<<<	>>>		BASIN AC	PUMP UNIT: LUPKIN C456D-365-120, W/ E-42 AJAX MOTOR.	
8234-54'	=	=	=	NESSON PERFS		
				12 DEG DEV.	PERFS: NESSON 9234-54' 4 SPP	
9346'	-	-	-	PINNED COLLAR		
9529'				PBTD	PRODUCTION:	
9702'	*****	*****	*****	5 1/2"	PREPARED BY: GARY L EVERETZ	DATE: 09/13/97

DIRECTIONAL WELL, TMD - 9716', TVD - 8596'

MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.

BASIC GAME & FISH 34-3

Pantera Petroleum

SWSW 3 - T153N, R101W

Baker Field

McKenzie County, ND

AFE #135 Acidize Mission Canyon Perfs

09/13/97 TIH w/ tbg. Set AC w/ 20,000# tension & ND BOP. Flange up well. RU to run pump & rods as follows:

	<u>Tbg &amp; BHA</u>	<u>Pump &amp; Rod Detail</u>
	291 jts 2 7/8" L-80 Tbg	1 1/4" x 22' Polish Rod
	Mech SN 9156'	124 - 7/8" Rods (3100')
	2 jts 2 7/8" L-80 Tbg	34 - 3/4" Rods (850')
	AC 9221'	182 - 3/4" Rods w/ paddles (4550')
	4 jts 2 7/8" L-80 Tbg	24 - 7/8" rods w/ paddles (600')
	2 7/8" Pinned Collar 9347'	1" Pony rod w/ paddles 2 1/2"x 1 1/4"x 20'x 24'x 24 1/2' RHBM Pump #W1103 w/ brass Nicarb bbl

Seat & hang pump. Fill tbg & test to 500 psi - OK. Start pump & PT to 500 psi - OK. 6 SPM, 122' SL. Leave rig up. SDFD. DC \$2224 CC \$26058

09/14/97 Pumped 15 BO, 67 BW.

09/15/97 Pumped 7 BO, 53 BW. Well not pumping @ gauge time (lots of gas). Took 55 min to test to 500 psi. Lower pump to light tag w/ seat. Too windy to RD. DC \$943 CC \$27001

09/16/97 Pumped 42 BO, 20 BW in 24 hrs. Producing a lot of gas. With flow line valve shut, built up 40 psi in 10 min. DC \$1144 CC \$27145

09/17/97 Pumped 62 BO, 22 BW in 24 hrs.

09/18/97 Pumped 53 BO, 27 BW in 24 hrs.

09/19/97 Pumped 65 BO, 5 BW in 23 hrs.

09/20/97 Pumped 65 BO, 8 BW in 24 hrs.

09/21/97 Pumped 56 BO, 12 BW in 24 hrs.

09/22/97 Pumped 48 BO, 10 BW in 24 hrs.

09/23/97 Pumped 52 BO, 7 BW in 24 hrs.

09/24/97 Pumped 47 BO, 3 BW in 24 hrs.

09/25/97 Pumped 43 BO, 3 BW in 24 hrs.

09/26/97 Pumped 47 BO, 25 BW in 24 1/2 hrs.

10 day Avg 54 BO, 12 BW.

Form 3160-5  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on reverse side)

11745  
Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. DUE AGREEMENT NAME  
NDM82193

8. FARM OR LEASE NAME  
Basic Game & Fish

9. WELL NO.  
34-3

10. FIELD AND POOL, OR WILDCAT  
Baker - Madison

11. SEC., T., R., M., OR SECTION  
SURVEY OR AREA  
2  
3-T153N-R101W

12. COUNTY OR PARISH 13. STATE  
McKenzie ND

1. OIL  GAS  WELL  OTHER

2. NAME OF OPERATOR

PANTERRA PETROLEUM

3. ADDRESS OF OPERATOR

P. O. Box 7168, Billings, MT 59103-7168

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

Surface 392' FSL & 494' FWL SWSW

14. PERMIT NO.

11745

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

GR 1850

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF  
FRACTURE TREAT  
SHOOT OR ACIDIZE  
REPAIR WELL  
(Other)


FOLD OR ALTER CASING  
MULTIPLE COMPLETION  
ABANDON\*  
CHANGE PLANS


SUBSEQUENT REPORT OF:

WATER SHUT-OFF  
FRACTURE TREATMENT  
SHOOTING OR ACIDIZING  
(Other) SPILL


REPAIRING WELL  
ALTERING CASING  
ABANDONMENT\*

X

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

See attached Spill History



18. I hereby certify that the foregoing is true and correct

SIGNED

*Barry Evert*

TITLE Operations Manager

DATE 9/16/97

(This space for Federal or State office use)

Recd

*Mark Bohm*

TITLE PETROLEUM ENGINEER

DATE September 19, 1997

APPROVED BY

CONDITIONS OF APPROVAL IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SPCC PLAN, ATTACHMENT #1  
SPILL HISTORY

Complete this form for any reportable spill (s).

Well Name: Basic Game & Fish 34-3 Location: SWSW Sec 3, T153N, R101W  
Operator: Panterra Petroleum McKenzie County, ND

1. Date of Occurrence: 09/15/97 Reported by: Shawn Nesvig  
Surface Ownership: Corps of Engineers  
Agencies & Dates Notified:  
BLM - 9/16/97, NDIC - 9/16/97, Corps of Engineers - 9/16/97  
Via fax of this document

Volume & Type of Fluid Spilled: 8 gal corrosion chemical

Volume Recovered: None  
Cause of Event: Bleeder valve was left open after workover  
rig moved off location.

Corrective Action Taken, Damage Description: Close valve. Clean  
up all contaminated soil & haul to approved disposal site.

Plans for Preventing Recurrence: Check to be sure valve is closed.

Signature: Shawn Nesvig

2. Date of Occurrence: \_\_\_\_\_ Reported by: \_\_\_\_\_  
Surface Ownership: \_\_\_\_\_  
Agencies & Dates Notified: \_\_\_\_\_

Volume & Type of Fluid Spilled: \_\_\_\_\_

Volume Recovered: \_\_\_\_\_  
Cause of Event: \_\_\_\_\_

Corrective Action Taken, Damage Description: \_\_\_\_\_

Plans for Preventing Recurrence: \_\_\_\_\_

Signature: \_\_\_\_\_

(Attachment #1, SPCC Plan)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLE SPACE  
(Other instructions on reverse side)

11745  
Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NDM82193

8. FARM OR LEASE NAME

Basic Game & Fish

9. WELL NO.

34-3

10. FIELD AND POOL, OR WILDCAT

Baker

11. SEC., T., R. M., OR BLK. AND SURVEY OR AREA

3-T153N-R101W

12. COUNTY OR PARISH 13. STATE

McKenzie ND

1. OIL  GAS  OTHER

2. NAME OF OPERATOR

PANTERRA PETROLEUM

3. ADDRESS OF OPERATOR

P. O. Box 7168, Billings, MT 59103-7168 DIVISION

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
See also space 17 below.  
At surface

14. PERMIT NO.

11745

15. ELEVATIONS (Show whether DEP, RT, OR SEA.)

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

SELL OR ALTER CASING   
MULTIPLE COMPLETION   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

09/02/97 Returned to production after flooding.

18. I hereby certify that the foregoing is true and correct

SIGNED

*Barry S. Bentz*

TITLE Operations Manager

DATE 9/3/97

(This space for Federal or State office use)

APPROVED BY

*J.C.W.*

TITLE Assistant Director

DATE

SEP 6 1997

\*See Instructions on Reverse Side



PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 5698 (2-92)



Well File Number :  
111745  
NDIC CTB Number :  
111745

INSTRUCTIONS

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E.  
Boulevard Avenue, Bismarck, ND 58505

34-3  
WELL BASIC GAME & FISH (Q/Q) SWSW (SEC.) 3 (TWP.) 153N (RGE.) 101W COUNTY MCKENZIE  
PRODUCER: PANTERRA PETROLEUM FIELD BAKER POOL MADISON

ADDRESS CORRESPONDENCE TO: GARY L. EVERTZ, PANTERRA PETROLEUM  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser KOCH OIL COMPANY : % Purchased : Date Effective  
Principal Place of Business 1625 Broadway, Ste 1570, Denver, CO 80202 : 100 : 08/01/97  
Field Address Box 92B, Williston, ND 58801 : :  
Name of Transporter KOCH OIL COMPANY P/L : % Transported : Date Effective  
Address Box 92B, Williston, ND 58801 : 100 : 08/01/97

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other Transporters Transporting From This Lease : % Transported : Date Effective  
Other First Purchasers Purchasing From This Lease : % Purchased : Date Effective

Remarks

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

Signature Terry Holzwarth Title Engineer Date 07/11/97

State of Montana  
County of Yellowstone

On 07/11/97, Terry S. Holzwarth, known to me to be the person described in and who executed the foregoing instrument personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Jeanette Mayfield  
Notary Public

My Commission Expires AUGUST 21, 2000

APPROVED BY:

Charles A. Koch

Date: 7/14/97



**SUNDY NOTICE AND REPORTS ON WELLS - FORM 4**  
**INDUSTRIAL COMMISSION OF NORTH DAKOTA**  
**OIL AND GAS DIVISION**  
**SPN 5749 (1-94)**

Well File Number

11745

600 East Boulevard  
Bismarck, ND 58505

PLEASE READ INSTRUCTIONS ON BACK OF FORM

 Notice of IntentApproximate Start Date When Flood  
Waters Allow. Report of Work Done

Date Work Completed \_\_\_\_\_

- Drilling Program JUN 1997  
 Redrilling or Repair  
 Casing or Liner  
 Plug Well  
 Supplemental History  
 Temporarily Abandon

- Spill Report  
 Shooting  
 Acidizing  
 Fracture Treatment  
 Change Producing Method  
 Reclamation  
 Other Workover Tax Exemption

Well Name and Number

Basic Game &amp; Fish 34-3

Footage	Oil-Qtr	Section	Township	Range
Surface 392' FSL & 494' FWL	SWSW	2	153N	101W
Field Baker	Pool Madison	County McKenzie		

24 HOUR PRODUCTION RATE	
BEFORE	AFTER
Oil 24.4	Oil
Water 1	Water
Gas 10.3	Gas

Name of Contractor

Address

City

State

Zip Code

**DETAILS OF WORK**

Panterra Plans to acidize the Mission Canyon perfs.

See attached procedure.

PANTERRA PETROLEUM hereby applies for workover exemption - notice of intention to begin a workover project, which may be exempt from taxation pursuant to subsection (4) of North Dakota century Code section 57-51.1-03, for work outlined above. Approximate cost: \$44,250.

Company

PANTERRA PETROLEUM

Address

P. O. Box 7168

City

Billings

State

MT

Zip Code

59103-7168

By

*Dan Eney*

Date

6/23/97

Title

Operations Manager

Telephone Number

(406) 245-6248

**FOR OFFICE USE ONLY** Received Approved

Date

6-30-97

By

*Mark Hart*

Title

*PET Eng.*

# PANTERRA PETROLEUM

**BASIC GAME & FISH 34-3**  
SWSW SEC 2 T153N R101W  
BAKER FIELD - MCKENZIE CO, ND  
ACCOUNTING CODE # 617

## PROCEDURE TO ACIDIZE PERFS - AFE # 135

### Current Status

Mission Canyon well, pumping 27 BOPD and 1 BWPD with a steep decline.

### Procedure

- 1.) MIRU workover rig. Unseat pump and hot oil down tubing to remove paraffin. POOH with rods and pump. Unflange wellhead and NU BOP. Release AC and POOH.
- 2.) TIH with treating packer, RC valve and tubing. Set packer at 9200' ±. Pickle tubing with 900 gal 15% HCl.
- 3.) Acidize Mission Canyon perfs 9234-54' with 2000 gal 15% SWIC HCl using 100(1.1 Sp. Gr.) balls for diversion. Pump at 3-5 BPM. Flush to perfs with oil. Swab back until return fluid is cleaned up. POOH with tubing and packer.
- 4.) TIH pinned collar 4 jts tbg, AC, 2 jts tbg, Mech SN, rest of tbg. Set end of tubing at approximately 9347'. ND BOP and NU wellhead.
- 5.) Run 1 1/4" RHBM pump and rods.

GLE  
4/24/97  
617.WO

PANTERRA PETROLEUM

				WELL: BASIC GAME & FISH 34-3	FIELD: BAKER	
				LOCATION: SURF SWNW SEC 2 153N 101W, MCKENZIE CO, ND		
				392' FSL & 494' FWL		
2960'	I	I	I	BH @ TD:SESE SEC 3 153N 101W STATUS: PUMPING OIL WELL		
	I	I	I	543' FSL & 555' FWL		
3450'	I	I	I	EL ELEVATION: GL - 1850' KB - 1872'	ST FILE NO: 11745	
	I	I	I	SPUD DATE: 10/16/85	API# 33-053-02102	
	I	I	I		COMP DATE: 2/3/96	
4034'	I	I	I	ROTARY TD: 9596' TVD, 9718' THD	PBTOD: 9561' MD	
	I	I	I	SURF CSG: 9 5/8" 36# K-55 SET @ 2960', CMT W/ 1100 SX,		
	I	I	I	PROD CSG: 5 1/2" 17,20,23# L-80, RS-90 SET @ 9702', CMT 122 SX.		
				TUBING & BHA		
					RODS & PUMP	
	I	I	I	291 JTS 2 7/8" L-80 TBG	32" X 1 1/4" POLISH ROD	
	I	I	I	MECH SN W/ DIP TUBE	110 7/8" GRADE D RODS (2750')	
	I	I	I	2 JTS 2 7/8" L80 TBG	47 - 3/4" GRADE D RODS (1175')	
	I	I	I	BASIN AC - 9214'	182 - 3/4 GR D RODS W/ PADDLES(4550)	
	I	I	I	2 JTS 2 7/8" L80 TBG	24 - 7/8" GR D W/ PADDLES(600')	
	I	I	I	PINNED COLLAR - 9287'	1" X 4" PADDLE PONY ROD	
	I	I	I		-2 1/2" X 1 1/2" X 24" RHBM, BRASS NICARB PUMP	
	I	I	I	SN		
	I	I	I	SPM - 7 SL - 120"		
8092'	I	I	I	DV COLLAR	5 1/2" SET 2	
	I	I	I			
8392'	I	I	I	MAX ANGLE	SALT DEPTH	
	I	I	I	16 DEG.	DUNHAM	23# TC80H 45
	I	I	I		PINE	17# L-80 6624
	I	I	I		CHARLES	23# TC80H 6803
	I	I	I			20# L-80 7013
	I	I	I			23# TC80H 7188
	I	I	I			20# L-80 8251
	I	I	I			23# TC80H 9099
9150'	I	I	I	MECH SN	WELLHEAD: CSGHD 9 5/8" X 11" 3000 C22.	20# L-80 9702
9194'	I	I	I			
	I	I	I			
9214'	I	I	I	<<<I>>>I	BASIN AC	PUMP UNIT: LUFKIN C456D-345-120, W/ E-42 AJAX MOTOR.
	I	I	I			
9234-54'	=	I	I	=	NESSON PERFS	
	I	I	I		12 DEG DEV.	PERFS: NESSON 9234-54' 4 SPF
9287'	I	---	I		PINNED COLLAR	
	I	I	I			
9529'	I	I	I	PBTOD	PRODUCTION: 43 BO, 18 MCF 2 BWPD	
	I	I	I			
9702'	*****	*****	*****	5 1/2"	PREPARED BY: GARY L EVERTZ	DATE: 8/6/94
	*****	*****	*****			
	DIRECTIONAL WELL THD - 9716', TVD - 9596'					
	MAXIMUM ANGLE 16 DEG. @ 8392', 12 DEG. @ NESSON.					



PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE - FORM 8  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 5698 (2-92)



Well File Number :  
11745 :  
-----:  
NDIC CTB Number :  
11745 :  
-----:

INSTRUCTIONS

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E.  
Boulevard Avenue, Bismarck, ND 58505

34-3

WELL	BASIC GAME & FISH (Q/Q) SWSW	(SEC.)	3 (TWP.) 153N	(RGE.)	101W	COUNTY	MCKENZIE
PRODUCER:	PANTERRA PETROLEUM	FIELD BAKER		POOL	MAQISON		

ADDRESS CORRESPONDENCE TO: GARY L. EVERTZ, PANTERRA PETROLEUM  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser	AMOCO PRODUCTION COMPANY	: % Purchased	: Date Effective
Principal Place of Business	1670 Broadway, Ste 715, Denver CO 80201	: 100	06/01/97
Field Address	1670 Broadway, Ste 715, Denver CO 80201		
Name of Transporter	AMOCO PRODUCTION COMPANY Truck	: Transported	: Date Effective
Address	1670 Broadway, Ste 715 Denver, CO 80201	: 100	06/01/97
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.			
Other Transporters Transporting From This Lease		: % Transported	: Date Effective
Other First Purchasers Purchasing From This Lease		: % Purchased	: Date Effective

Remarks

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

Signature

Title  
Engineer

Date

05/28/97

State of Montana

County of Yellowstone

On 05/28/97, Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

My Commission Expires

AUGUST 21, 2000

APPROVED BY:

Date:

6/3/97

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

11/13  
Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

3. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NDM82193

8. FARM OR LEASE NAME

Basic Game & Fish

9. WELL NO.

34-3

10. FIELD AND POOL, OR WILDCAT,

Baker

11. SEC. T. R. M. OR BLOCK AND

SECTION OR AREA

3-T153N-R101W

12. COUNTY OR PARISH | 13. STATE

McKenzie | ND

1. OIL  GAS  OTHER

2. NAME OF OPERATOR

PANTERRA PETROLEUM

3. ADDRESS OF OPERATOR

P. O. Box 7168, Billings, MT 59103-7168

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface



14. PERMIT NO.

11745

15. ELEVATIONS (Show whether SP, RT, GR, etc.)

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SEQUENTIALLY REPORT ON:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give permit dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Well was returned to production September 8, 1995, after flood waters receded from Lake Sakakawea

18. I hereby certify that the foregoing is true and correct.

SIGNED: *Janette Tugend* TITLE: *Operations Asst*

DATE: *9-11-95*

(This space for Federal or State office use)

Assistant Director

APPROVED BY: *FEW* TITLE: \_\_\_\_\_

DATE: *9-14-95*

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLEX  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

11745

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

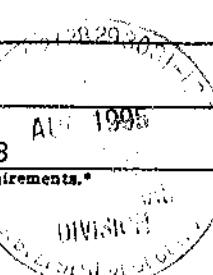
PANTERRA PETROLEUM

3. ADDRESS OF OPERATOR

P. O. BOX 7168, Billings, MT 59103-7168

Aug 1995

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface



14. PERMIT NO.

11745

15. ELEVATIONS (Show whether DEP, RT, GA, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUCCESIVE REPORT OR:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

SHOOT OR ACIDIZE

MULTIPLE COMPLETE  
ABANDON\*

WATER SHUT-OFF  
FRACTURE TREATMENT  
SHOOTING OR ACIDIZING  
(Other)

REPAIRING WELL  
ALTERING CASING  
ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Well was temporarily shut-in July 15, 1995, due to flood waters in Lake Sakakawea.

18. I hereby certify that the foregoing is true and correct

SIGNED Benj. Evert TITLE Operations Manager DATE 8/24/95

(This space for Federal or State office use)

APPROVED BY Deb O'Leary TITLE Oil Prod. Auditor DATE 8-28-95  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

11745

SPCC PLAN, ATTACHMENT #1  
SPILL HISTORY



Complete this form for any reportable spill (s).

Well Name: Basic Game & Fish 34-3 Location: SWSW Sec 3 T153N, R101W  
Operator: Panterra Petroleum

1. Date of Occurrence: 07/04/95 Reported by: Kevin Grindeland  
Surface Ownership:  
Agencies & Dates Notified: NDIC - Ellis Hakke 7/4/95  
Corps of Engineers - Keith Gordon 7/4/95  
Williams County Disaster - Al Mellot 7/4/95

Volume & Type of Fluid Spilled: 7 bbls oil

Volume Recovered: 6 1/2 bbls oil recovered with truck. Remaining  
soaked up with straw.

Cause of Event: Polish rod liner was loose & leaking.

Corrective Action Taken, Damage Description: Sucked up oil, put  
straw bales around the outside of the spill to help soak up remaining  
oil film.

Plans for Preventing Recurrence: Repaired polish rod packing.

Signature: 

2. Date of Occurrence: \_\_\_\_\_ Reported by: \_\_\_\_\_  
Surface Ownership: \_\_\_\_\_  
Agencies & Dates Notified: \_\_\_\_\_

Volume & Type of Fluid Spilled: \_\_\_\_\_

Volume Recovered: \_\_\_\_\_

Cause of Event: \_\_\_\_\_

Corrective Action Taken, Damage Description: \_\_\_\_\_

Plans for Preventing Recurrence: \_\_\_\_\_

Signature: \_\_\_\_\_

(Attachment #1, SPCC Plan)

REC'D 7-14-95  
BY Mervin E. Ryff  
NDIC



**PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION**

: Well File Number :  
11745  
-----  
: NDIC CTB Number :  
: 111745 :  
-----

**INSTRUCTIONS**

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E. Boulevard Avenue, Bismarck, ND 58505

34-3  
WELL BASIC GAME & FISH (Q/Q) SWSW (SEC.) 3 (TWP.)153N (RGE.) 101W COUNTY MCKENZIE  
PRODUCER: PANTERRA PETROLEUM FIELD BAKER POOL MADISON

ADDRESS CORRESPONDENCE TO: GARY L. EVERZ, PANTERRA PETROLEUM  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser : AMOCO PRODUCTION COMPANY : % Purchased : 100 : Date Effective 08/01/95

**Principal Place of Business** 1670 Broadway, Ste 715, Denver CO 80201

**Field Address** 1670 Broadway, Ste 715, Denver CO 80201

Name of Transporter : SCURLOCK PERMIAN CORP. - TRUCK : % Transported : Date Effective  
Address : P. O. BOX 2358, WILLISTON, ND 58801 : 100 : 08/01/95

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

**Other Transporters Transporting From This Lease : % Transported : Date Effective**

**Other First Purchasers Purchasing From This Lease** : % Purchased Date Effective

**Remarks**

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

**Signature**

**Title**  
Engineer

Date

07/14/95

State of Montana  
County of Yellow

On 07/14/95, Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Jeanette Maystadt My Commission Expires AUGUST 21, 1996  
Notary Public

APPROVED BY:

Charles A. Koch

Date:

7/17/95

## NORTH DAKOTA OIL AND GAS COMMISSION

11945

## REPORT OF

## SPILLS

N.D.C.C. #43-02-03-30

DATE: 7-5-95



COMPANY: PANIERKA PETROLEUM

COMPANY REPRESENTATIVE: DAK REDKA

LEASE NAME: BASIC GAME &amp; FISH #4-3 COUNTY OF: MCKENZIE

LOCATION: SE SE SECTION: 3 T. 153 N., R. 101 W.

DATE OF OCCURRENCE: 7-4-95 10:30 A.M.

LANDOWNER NOTIFIED: YES - CORPS OF ENGINEERS

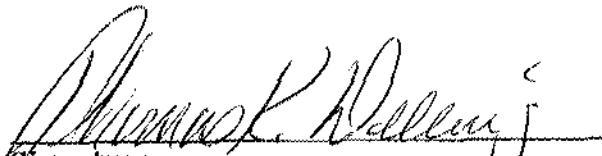
AMOUNT OF SPILL: 5-10 RECOVERED: ?

FIELD INSPECTOR: TOM DELLING

FORM 4 REQUESTED: NOT YET - WILL REQUEST ONE BE SUBMITTED

CAUSE OF SPILL: POLISH ROD LINER LEAKED SPILLING

5-10 BBLS OIL (+SW?) AT WELLHEAD ON LOCATION

TO WEST OF WELLHEAD - THEY ARE WAITING FOR  
CONTACT FROM CORPS OF ENGINEERS PRIOR TO CLEAN-UP.  
SignatureFIELD INSPECTOR  
Title



PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE - FORM 8  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 5698 (2-92)

: Well File Number :  
: 11745 :  
: ----- :  
: NDIC CTB Number :  
: 111745 :  
: ----- :

INSTRUCTIONS

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E.  
Boulevard Avenue, Bismarck, ND 58505

34-3  
WELL BASIC GAME & FISH (Q/Q) SWSW (SEC.) 3 (TWP.) 153N (RGE.) 101W COUNTY MCKENZIE  
PRODUCER: PANTERRA PETROLEUM FIELD BAKER POOL MADISON

ADDRESS CORRESPONDENCE TO: GARY L. EVERTZ, PANTERRA PETROLEUM  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser SCURLOCK PERMIAN CORP. : % Purchased : Date Effective  
Principal Place of Business P. O. BOX 4648, HOUSTON, TX 77210-4648 : 100 : 1/1/95  
Field Address P. O. BOX 2358, WILLISTON, ND 58801 : :  
Name of Transporter SCURLOCK PERMIAN CORP. - TRUCK : % Transported : Date Effective  
Address P. O. BOX 2358, WILLISTON, ND 58801 : 100 : 1/1/95  
The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.  
Other Transporters Transporting From This Lease : % Transported : Date Effective  
Other First Purchasers Purchasing From This Lease : % Purchased Date Effective  
Remarks

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

Signature Gary L. Evertz Title Engineer Date 12/9/94  
State of Montana  
County of Yellowstone

On 12/9/94 Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Pamela Maylett My Commission Expires AUGUST 21, 1996

APPROVED BY: Charles A. Zoch Date: 12/13/94



PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 5898 (2-92)

Well File Number :  
11745 :  
- - - - - :  
NDIC CTB Number :  
111745 :

## INSTRUCTIONS

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E. Boulevard Avenue, Bismarck, ND 58505

34-3  
WELL BASIC GAME & FISH (Q/Q) SWSW (SEC.) 3 (TWP.) 153N (RGE.) 101W COUNTY MCKENZIE  
PRODUCER: PANTERRA PETROLEUM FIELD BAKER POOL MADISON

ADDRESS CORRESPONDENCE TO: GARY L. EVERETZ, PANTERRA PETROLEUM  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser : AMOCO PRODUCTION COMPANY : % Purchased : 100 : Date Effective 6/194

**Principal Place of Business** 1670 BROADWAY STE. 715 DENVER CO 80201

1670 BROADWAY STE 215 DENVER CO 80201

**Name of Transporter** SCURLICK PERMIAN CORP. - TRUCK

Name of Transporter : SCARLOCK PERMIT CO. - TRUCK : # Transported : Date Effective  
Address : 650 S. CHERRY ST., STE 210, DENVER, CO : 100 : 6/1/94

-----  
Other Transporters Transporting From This Lease : % Transported : Date Effective

**Other Transporters Transporting From This Lease**      **X Transported**      **Date Effective**

**Other Transporters Transporting From This Lease**      **X Transported**      **Date Effective**

**Other First Purchasers Purchasing From This Lease** : % Purchased      Date Effective  
: : :

### Remarks

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

**Signature**

Title  
Engineer

Date

6/8/94

State of Montana

County of Yellowstone

On 6/8/94, Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Jeanette M. Nagelkirk My Commission Expires AUGUST 21, 1996  
Notary Public

APPROVED BY:

Date: 6/13/94

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

11745

Wesley D. Norton  
DIRECTOR

F. E. Wilborn  
ASSISTANT DIRECTOR

Clarence G. Carlson  
GEOLOGIST

Charles Koch  
ENGINEERING DEPT.

Doren Dannewitz  
FIELD SUPERVISOR

Glenn Wollan  
RECLAMATION SUP.

February 8, 1994

Jan Magstadt  
Panterra Petroleum  
P.O. Box 7168  
Billings, MT 59103-7168

**RE: CHANGE OF OPERATOR FROM JOHN L. COX TO  
PANTERRA PETROLEUM  
7 WELLS**

Dear Ms. Magstadt:

Please find enclosed a copy of the approved Form 15, Notice of Transfer of Oil and Gas Wells, in regard to the above-referenced matter. These transfers have now been approved and subject wells are now covered by Panterra Petroleum Bond No. B01936, Underwriters Indemnity Co., as Surety.

If you should have any questions, please feel free to contact this office.

Sincerely,

*F. E. Wilborn / MR.*

F. E. Wilborn  
Assistant Director

FEW/mr

Enclosure

cc: John L. Cox  
PO Box 2217  
Midland, TX 79702



NOTICE OF TRANSFER OF OIL AND GAS WELLS - FORM 15  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 6762 (3-92)

BOND NO. B01936

The original and one copy of this form must be submitted to the Industrial Commission of North Dakota, Oil and Gas Division, 800 E. Boulevard Avenue, Bismarck, North Dakota 58505-0840.

TRANSFERRING COMPANY

Name and Address of Representative

JOHN L. COX BOX 2217 MIDLAND, TX 79702

Name of Company Transferring Oil and/or Gas Wells

JOHN L. COX

I, the above named representative, acknowledge the transfer of the oil and/or gas wells named below for the purpose of ownership and/or operation to the company named below.

Signature

January 31, 1994

Date

OPERATOR

Title

(Must be an officer or power of attorney must be attached)

File Number	Requested Official Well Name and Number	Location (Qtr-Qtr, Sec, Twp, Rge)
	Please see attached.	

RECEIVING COMPANY

Name and Address of Representative

Robert L. Nance Panterra Petroleum  
P. O. Box 7168 Billings, MT 59103-7168

Name of Company Transferring Oil and/or Gas Wells

I, the above named representative, have read the foregoing statement and accept such transfer, also the responsibility of ownership and/or operation of said well or wells, under the said company bond, said bond being tendered to or on file with the Industrial Commission.

Panterra Petroleum, a Montana General Partnership, Nance Petroleum Corporation, Managing Partner

January 31, 1994

Date

President

Partner

Title

(Must be an officer or power of attorney must be attached)

Principal	Amount of Bond
	\$100,000.00

Name and Address of Surety

Underwriters Indemnity Company 8 Greenway Plaza, Suite 400, Houston, TX 77046

We, the above named PRINCIPAL and SURETY, agree that such bond shall extend to compliance with Chapter 38-08 of North Dakota Century Code and amendments and the rules and regulations of the Industrial Commission of the State of North Dakota prescribed to govern the production of oil and gas on government and private lands within the State of North Dakota, in relation to the above stated transfer; it being further agreed and understood that the bond sum or amount is not to be considered increased because of such extension.

February 3, 1994

Date

Roy C. Die, Attorney-in-Fact

Title

(Must be an officer or power of attorney must be attached)

FOR OFFICE USE ONLY

Approved By

R. L. Nance

Title

Date  
FEB 6 1994

ASSISTANT DIRECTOR

ATTACHED TO AND MADE A PART OF THAT CERTAIN FORM 15

RECEIVING COMPANY: PANTERRA PETROLEUM, A MONTANA GENERAL PARTNERSHIP  
WANCE PETROLEUM CORPORATION, MANAGING PARTNER

LEASE/WELL	DESCRIPTION	FIELD NAME	COUNTY	STATE	FILE #
Basic Game & Fish 34-3	SWSW 3-153-101W	BAKER	McKENZIE	ND	11745
CORPS OF ENGINEERS 31-10	NWNE 10-153N-101W	BAKER	McKENZIE	ND	11920
FRENCH PINNEY 24-3	SESW 3-153N-101W	BAKER	McKENZIE	ND	12129
ROSEBUD 22-11	SENW 11-153N-101W	BAKER	McKENZIE	ND	11549
M & G 14-2	SWSW 2-153N-101W	BAKER	McKENZIE	ND	11751
USA 2-12	SWSE 12-141N-101W	TR	BILLINGS	ND	9262
USA 3-12	NWNE 12-141N-101W	TR	BILLINGS	ND	7014



PRODUCERS CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL FROM LEASE - FORM 8  
INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
SFN 5698 (2-92)

: Well File Number :  
: 11745 :  
: -----:  
: NDIC CTB Number :  
: 111745 :  
: -----:

INSTRUCTIONS

The original and four copies of this form must be submitted to the OIL AND GAS DIVISION, 600 E.  
Boulevard Avenue, Bismarck, ND 58505

34-3

WELL	BASIC GAME & FISH (Q/Q) SWSW	(SEC.)	3 (TWP.)153N	(RGE.)	101W	COUNTY	MCKENZIE
------	------------------------------	--------	--------------	--------	------	--------	----------

PRODUCER: PANTERRA PETROLEUM FIELD BAKER POOL MADISON

ADDRESS CORRESPONDENCE TO: GARY L. EVERTZ, PANTERRA PETROLEUM  
550 N. 31ST STREET, SUITE 500, P. O. BOX 7168, BILLINGS, MT 59103

Name of First Purchaser	SCURLOCK PERMIAN CORP.	% Purchased	Date Effective
Principal Place of Business	650 S. CHERRY ST., STE 210, DENVER, CO 80222-1804	:	100 2/1/94
Field Address	650 S. CHERRY ST., STE 210, DENVER, CO 80222-1804	:	
Name of Transporter	SCURLOCK PERMIAN CORP. - TRUCK	% Transported	Date Effective
Address	650 S. CHERRY ST., STE 210, DENVER, CO	:	100 2/1/94

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other Transporters Transporting From This Lease	% Transported	Date Effective
	:	:
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective
	:	:

Remarks

WELLS PURCHASED FROM JOHN L. COX. OPERATORSHIP EFFECTIVE 2-1-94

I certify that the above information is a true and correct report of the transporters and purchasers of oil produced from the above described property. This authorization will be valid until further notice to the transporters and purchasers named until cancelled by the OPERATOR.

Signature

Title  
Engineer

Date

2/1/94

State of Montana  
County of Yellowstone

On 2/1/94, Gary L. Evertz, known to me to be the person described in and who executed the foregoing instrument personally appeared before me and acknowledged that (s)he executed the same as a free act and deed.

Notary Public

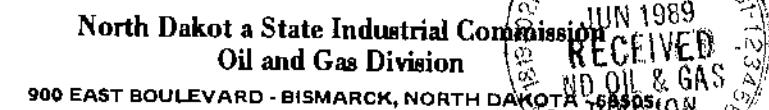
My Commission Expires

AUGUST 21, 1996

APPROVED BY:

Date: 2/23/94

FORM 4



Well File No. 11745

## SUNDRY NOTICES AND REPORTS ON WELLS

- |  |       |                                   |                   |
|--|-------|-----------------------------------|-------------------|
| 1. Notice of Intention to Drill or Redrill | _____ | 7. Report of Casing               | _____             |
| 2. Notice of Intention to Change Plans     | _____ | 8. Report of Redrilling or Repair | _____             |
| 3. Notice of Intention to Pull Casing      | _____ | 9. Supplementary History          | _____             |
| 4. Notice of Intention to Abandon Well     | _____ | 10. Well Potential Test           | _____             |
| 5. Report of Water Shut-Off                | _____ | 11. Drilling Prognosis            | _____             |
| 6. Report of Shooting or Acidizing         | _____ | 12.                               | Put well on pump. |

NAME OF LEASE Basic Game and Fish Date 6/20/89  
 WELL NO. 34-3 Is located 392 (Surface) ft. from (N) (S) line and 494 ft. from the (E) (W) line  
 of Section 3 Township 153-N Range 101-W in McKenzie  
 County, Baker Field Madison Pool. The elevation of the Ground  
 is 1850 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

Sun Well Service, P. O. Box 2356, Williston, North Dakota 58801

## (DETAILS OF WORK)

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing, indicate mud weights, cementing points, and all other details of work)

5-3-89: Kill well with 20 bbls. wtr. Unseat Seal Assembly "J" Latch Otis Packer. Pull out of hole with tubing, subs, nipple, Seal Assembly. Packer @9186'. Run new Seal Assembly, per. subs, seating nipple, 2-7/8" tubing. Sting into packer, latch up "J" latch, pull 20,000# tension. Ran Harbison-Fisher pump (2-1/2" x 1-1/2" x 24'), rods (3/4" to 7/8"). Seating Nipple @7950'.

5-4-89: Well to pump @ noon. Move off location.

Company JOHN L. COX  
 Address P.O. Box 2217, Midland, TX 79702  
 By Martha Wittenbach  
 Title Martha Wittenbach, Production Mgr.

Do not write in this space JUN 26 1989  
 Approved \_\_\_\_\_ 19 \_\_\_\_\_  
 By Kelli Cleary  
 Title Deputy Enforcement Officer

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

11745

WESLEY D. NORTON  
Chief Enforcement Officer

F. E. WILBORN  
Deputy Enforcement Officer

CLARENCE G. CARLSON  
Geologist

CHARLES KOCH  
Engineering Dept.

DOREN DANNEWITZ  
Field Supervisor

KEN KALLESTAD  
Reclamation Sup.

February 12, 1987

Ms. Martha Wittenbach  
Production Accounting Manager  
John L. Cox  
P. O. Box 2217  
Midland, TX 79702

RE: Change of Operators  
#11549 - Rosebud 22-11  
#11745 - Basic Game & Fish 34-3  
#11920 - Basic Corps of Eng. 31-10

Dear Ms. Wittenbach:

Enclosed are approved copies of the Form 2, 8, and 15 for the Change of Operator, for the above captioned wells, located in McKenzie County, North Dakota.

The former operator of the wells was Basic Earth Science Systems, Inc.

If you have any questions, please do not hesitate to contact this office.

Sincerely yours,



Donna R. Bauer  
Permit/Bond Secretary

/drb

Enclosures

cc: Basic Earth Science Systems, Inc.  
P. O. Box 3088  
Englewood, CO 80155

North Dakota State Industrial Commission  
Oil and Gas Division  
900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA - 58505



## NOTICE OF TRANSFER OF OIL &amp; GAS WELLS

I, Jeffery E. Jones, of Basic Earth Science Systems, Inc. (Company)  
do hereby acknowledge the transfer for the purpose of ownership and/or operation of the following oil and/or gas wells to  
John L. Cox (Company)

## OFFICIAL WELL NAME

## LOCATION

BASIC GAME &amp; FISH #34-3

11745

Surface: 392'FSL &amp; 494'FWL

Section 2, T153N, R101W

BHL: 1200'FEL & 660'FSL  
Section 3, T153N, R101W  
McKenzie County, North Dakota

By

Jeffery E. Jones  
Its Vice President

I, Martha Wittenbach, of John L. Cox (Company)  
have read the foregoing statement and accept such transfer, also, the responsibility of ownership and/or operation of said well or wells.

By

Martha Wittenbach  
Martha Wittenbach  
Its Production Acctg. Mgr.

John L. Cox, as Principal, and National Surety Corporation as Surety, on a drilling bond in the penalty of \$50,000.00, (amount of bond) executed on November 4, 1985 in favor of the State of North Dakota, hereby agree that such bond shall extend to compliance with Chapter 38-08 of N.D. Century Code and amendments thereto and the rules and regulation of the Industrial Commission of the State of North Dakota prescribed to govern the production of oil and gas on state and private lands within the State of North Dakota, in relation to the above stated transfer; it being further agreed and understood that the bond sum or amount is not to be considered increased because of such extension.

John L. Cox

By: Martha Wittenbach (Principal)  
Martha Wittenbach, Prod. Acctg. Mgr.  
National Surety Corporation (Surety)

By: Linda F. Hughes

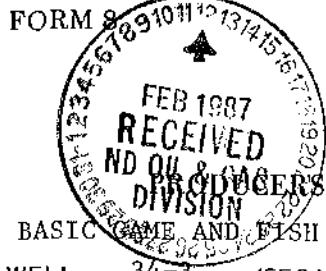
Do not write in this space. Linda F. Hughes, Attorney-in-Fact  
2-10-87

Approved FEB 12 1987 19

By

Title

Deputy Enforcement Officer



North Dakota State Industrial Commission  
Oil and Gas Division

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA - 58505

Well File No. 1111

PRODUCER'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO  
TRANSPORT OIL FROM LEASE

WELL 34-3 (SEC.) 3 (TWP.) 153N (RGE.) 101W COUNTY McKenzie

PRODUCER JOHN L. COX FIELD Baker POOL Madison

ADDRESS CORRESPONDENCE TO JOHN L. COX  
400 West Wall

STREET Box 2217 CITY Midland STATE Texas 79702

THE ABOVE NAMED PRODUCER HEREBY AUTHORIZES THE PERMIAN CORPORATION  
(Name of Purchaser)

WHOSE PRINCIPAL PLACE OF BUSINESS IS Box 1183 Houston, Tx 77251-1183  
(Street) (City) (State)

AND WHOSE FIELD ADDRESS IS Williston, North Dakota

TO TRANSPORT 100 % OF THE OIL PRODUCED FROM THE LEASE DESIGNATED ABOVE UNTIL  
FURTHER NOTICE

THE OIL WILL BE TRANSPORTED BY THE PERMIAN CORPORATION - TRUCKS  
(Name of Transporter)

OTHER PURCHASERS TRANSPORTING OIL FROM THIS LEASE ARE:

<u>N/A</u>	<u>%</u>	<u>N/A</u>	<u>%</u>
(Name of Purchasers)		(Name of Purchasers)	

REMARKS: JOHN L. COX ASSUME OPERATION OF THIS PROPERTY February 1, 1987

The undersigned certifies that the rules and regulations of the State Industrial Commission have been complied with except as noted above and that the purchaser is authorized to transport the above percentage of oil produced from the above described property and that this authorization will be valid until further notice to the purchaser named herein until canceled by the OPERATOR.

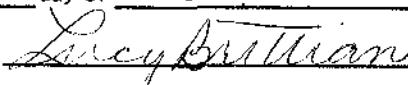
Executed this 5th day of February, 1987 JOHN L. COX  
(Company or Operator)

STATE OF Texas)  
COUNTY OF Midland)  
ss

  
(Signature) Martha Wittenbach (Title) Prodn. Acctng. Mgr.

Before me the undersigned authority, on this day personally appeared MARTHA WITTENBACH known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 5th day of November, 1987.

  
(Signature) Lucy Brittan

My Commission expires 7-16-88 Notary Public in and for Midland County, Texas

Approved by: J. E. Williams FEB 12 1987  
(Deputy Enforcement Officer) (Date)

1/11/85



# DATADRIL

Division of Smith International, Inc.

**REPORT  
of  
DIRECTIONAL WELL  
SURVEY**



BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.  
OCTOBER 23, 1985

MSS  
13 DEGREES EAST

File Name: BESSSURNTD

**\*\*\* RECORD OF SURVEY \*\*\***  
Calculated by Sii DATADRIL's C.A.D.B.S. System

Radius of Curvature Method  
All Angles are Decimal  
Vertical Section Plane: N 76.05 W

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
3000.00	1.00	N 51.89 W	0.00	2999.43	21.02 N 19.47 W	23.95	28.65	N 42.81 W	0.00
3258.00	1.00	S 85.00 W	298.00	3297.38	22.47 N 24.34 W	29.03	33.12	N 47.29 W	.25
3577.00	1.50	S 83.00 W	279.00	3576.32	21.83 N 30.39 W	34.75	37.42	N 54.31 W	.18
3978.00	.50	N 72.00 W	401.00	3977.25	22.50 N 37.30 W	41.62	43.56	N 56.91 W	.27
4034.00	1.75	N 87.00 W	56.00	4033.24	22.68 N 38.38 W	42.71	44.58	N 59.42 W	2.29
4074.00	3.50	S 73.00 W	40.00	4073.20	22.42 N 40.19 W	44.40	46.02	N 60.84 W	4.78
4167.00	6.00	S 81.00 W	93.00	4165.87	20.69 N 47.69 W	51.26	51.98	N 66.54 W	2.77
4260.00	8.00	S 79.00 W	93.00	4258.17	18.72 N 58.06 W	61.62	61.75	N 72.35 W	2.17
4353.00	9.00	S 80.00 W	93.00	4350.15	16.22 N 72.36 W	74.14	74.16	N 77.37 W	1.69
4445.00	10.25	S 80.00 W	92.00	4440.83	13.55 N 87.51 W	88.29	88.55	N 81.20 W	1.36
4538.00	10.00	S 83.00 W	93.00	4532.40	11.13 N 103.68 W	103.31	104.27	N 83.87 W	.63
4631.00	10.50	S 85.00 W	93.00	4623.92	9.40 N 120.14 W	118.87	120.50	N 85.52 W	.66
4787.00	11.50	N 85.00 W	156.00	4777.03	9.40 N 149.86 W	147.72	150.16	N 86.41 W	1.38
4880.00	11.50	N 85.00 W	93.00	4868.18	11.02 N 148.33 W	166.04	168.69	N 86.28 W	0.00
4963.00	12.00	N 79.00 W	93.00	4949.44	13.37 N 185.06 W	182.85	185.55	N 85.87 W	1.59
5057.00	13.75	N 67.00 W	94.00	5041.98	19.48 N 205.06 W	203.72	205.98	N 84.57 W	3.39
5164.00	14.00	N 63.00 W	107.00	5144.95	30.32 N 228.31 W	228.90	230.31	N 82.43 W	.93
5256.00	13.00	N 62.00 W	92.00	5234.41	40.24 N 247.56 W	249.77	250.61	N 80.76 W	1.12
5349.00	13.00	N 61.00 W	93.00	5325.03	50.22 N 265.74 W	270.02	270.45	N 79.30 W	.24
5440.00	13.00	N 59.00 W	91.00	5413.70	60.46 N 283.47 W	289.69	289.85	N 77.96 W	.49
5486.00	13.00	N 59.00 W	26.00	5439.03	63.47 N 288.48 W	295.28	295.38	N 77.59 W	0.00

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2

SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
5528.00	13.00	N 74.00 W	62.00	5499.44	69.02 N 301.24 W	308.99	309.04	N 77.10 W	.543
5630.00	12.25	N 85.00 W	102.00	5598.97	72.49 N 323.20 W	331.15	331.23	N 77.36 W	.308
5691.00	11.50	N 90.00 W	61.00	5658.67	72.71 N 335.75 W	343.38	343.53	N 77.78 W	1.40
5753.00	12.00	S 85.00 W	62.00	5719.37	72.16 N 349.36 W	355.49	355.76	N 78.30 W	1.83
5875.00	11.25	S 86.00 W	122.00	5838.86	70.23 N 372.87 W	378.81	379.43	N 79.33 W	.64
5936.00	11.50	N 90.00 W	61.00	5898.67	69.81 N 384.89 W	390.38	391.17	N 79.72 W	1.36
6031.00	11.75	N 88.00 W	93.00	5981.72	70.15 N 404.03 W	409.04	410.07	N 80.15 W	.50
6124.00	12.00	N 83.00 W	93.00	6082.73	71.65 N 423.10 W	427.91	429.12	N 80.39 W	1.14
6217.00	11.25	N 82.00 W	93.00	6173.82	74.10 N 441.68 W	446.53	447.85	N 80.48 W	.84
6311.00	11.25	N 80.00 W	94.00	6266.01	76.96 N 459.79 W	464.80	466.19	N 80.50 W	.42
6403.00	11.00	N 79.00 W	92.00	6356.29	80.20 N 477.25 W	482.52	483.94	N 80.46 W	.34
6498.00	10.75	N 79.00 W	93.00	6447.61	83.55 N 494.47 W	500.05	501.48	N 80.41 W	.27
6590.00	10.75	N 79.00 W	94.00	6539.96	86.89 N 511.68 W	517.56	519.01	N 80.36 W	0.00
6683.00	11.00	N 77.00 W	93.00	6631.29	90.54 N 528.84 W	535.09	536.54	N 80.28 W	.49
6775.00	11.00	N 76.00 W	92.00	6721.60	94.64 N 545.91 W	552.65	554.05	N 80.17 W	.21
6869.00	11.25	N 75.00 W	94.00	6813.84	99.18 N 563.47 W	570.78	572.13	N 80.02 W	.34
6932.00	11.25	N 75.00 W	63.00	6825.63	102.36 N 575.34 W	583.07	584.38	N 79.91 W	0.00
7148.00	11.25	N 75.00 W	216.00	7087.48	113.27 N 616.05 W	625.20	626.37	N 79.58 W	0.00
7240.00	10.50	N 74.00 W	92.00	7177.82	117.91 N 632.77 W	642.55	643.66	N 79.45 W	.84
7333.00	9.25	N 73.00 W	93.00	7269.44	122.44 N 648.06 W	658.49	659.53	N 79.30 W	1.36
7395.00	9.25	N 74.00 W	62.00	7330.64	125.27 N 657.62 W	668.44	669.44	N 79.22 W	.26
7457.00	9.25	N 74.00 W	62.00	7391.83	128.01 N 667.20 W	678.40	679.37	N 79.14 W	0.00
7520.00	9.25	N 74.00 W	63.00	7454.01	130.80 N 676.93 W	688.52	689.46	N 79.06 W	0.00
7582.00	9.00	N 74.00 W	62.00	7515.23	133.51 N 686.39 W	698.35	699.25	N 78.99 W	.40
7680.00	9.50	N 78.00 W	98.00	7611.95	137.32 N 701.67 W	714.10	714.98	N 79.93 W	.83
7742.00	10.00	N 80.00 W	62.00	7673.04	139.33 N 711.97 W	724.58	725.48	N 78.93 W	.97
7804.00	10.00	N 83.00 W	62.00	7734.12	140.92 N 722.62 W	735.30	736.23	N 78.97 W	.84
7866.00	10.00	N 85.00 W	62.00	7795.17	141.95 N 733.34 W	745.95	746.95	N 79.04 W	.84
7928.00	10.75	N 87.00 W	62.00	7854.16	142.63 N 744.48 W	756.93	758.02	N 79.15 W	1.24
7991.00	11.25	N 87.00 W	63.00	7918.00	143.26 N 756.48 W	768.73	769.93	N 79.28 W	.79
8084.00	12.00	N 90.00 W	93.00	8009.09	143.75 N 775.22 W	787.03	788.43	N 79.49 W	1.04
8176.00	13.00	S 89.00 W	92.00	8098.91	143.58 N 795.13 W	806.32	807.99	N 79.76 W	1.11
8238.00	13.50	S 88.00 W	62.00	8159.26	143.21 N 809.33 W	820.02	821.90	N 79.97 W	.89

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2

SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
8330.00	15.00	S 88.00 W	92.00	8248.43	142.42 N 831.96 W	841.79	844.07	N 80.29 W	.63
8392.00	16.00	S 88.00 W	62.00	8308.17	141.84 N 848.52 W	857.73	860.30	N 80.51 W	.61
8461.00	16.00	S 88.00 W	89.00	8393.72	140.98 N 873.04 W	881.32	884.35	N 80.83 W	0.00
8573.00	16.00	S 89.00 W	92.00	8482.16	140.32 N 898.39 W	905.76	909.28	N 81.12 W	.30
8667.00	15.25	S 89.00 W	94.00	8572.69	139.88 N 923.70 W	930.23	934.23	N 81.39 W	.80
8729.00	15.25	N 90.00 W	62.00	8632.50	139.73 N 940.01 W	946.02	950.34	N 81.54 W	.42

SMITH DRILLING SYSTEMS DRILLER RELEASED

8916.00	14.00	N 90.00 W	187.00	8813.44	139.73 N 987.23 W	991.85	997.07	N 81.94 W	.67
9010.00	13.00	N 88.00 W	94.00	8904.84	140.12 N 1009.16 W	1013.24	1016.85	N 82.10 W	1.17
9072.00	13.00	N 86.00 W	62.00	8955.25	140.85 N 1023.09 W	1026.93	1032.74	N 82.16 W	.73
9160.00	12.25	N 87.00 W	88.00	9051.12	142.02 N 1042.29 W	1045.85	1051.92	N 82.24 W	.89
9224.00	12.00	N 85.00 W	64.00	9113.70	142.98 N 1055.70 W	1059.09	1065.33	N 82.29 W	.76
9271.00	12.00	N 86.00 W	47.00	9159.67	143.72 N 1065.44 W	1068.73	1075.07	N 82.32 W	.44
9323.00	11.50	N 86.00 W	52.00	9210.58	144.46 N 1076.00 W	1079.16	1085.66	N 82.35 W	.76
9384.00	11.75	N 85.00 W	61.00	9270.33	145.43 N 1088.26 W	1091.28	1097.93	N 82.36 W	.53
9447.00	11.75	N 85.00 W	63.00	9332.01	146.55 N 1101.04 W	1103.96	1110.75	N 82.42 W	0.00
9503.00	11.75	N 86.00 W	56.00	9386.83	147.44 N 1112.41 W	1115.21	1122.14	N 82.45 W	.36
9545.00	11.50	N 84.00 W	42.00	9427.47	148.18 N 1120.84 W	1123.57	1130.59	N 82.47 W	1.13
9614.00	11.50	N 83.00 W	69.00	9495.59	149.74 N 1134.51 W	1137.21	1144.34	N 82.48 W	.29
9686.00	12.25	N 83.00 W	72.00	9566.05	151.54 N 1149.21 W	1151.92	1159.16	N 82.49 W	1.04

BOTTOM HOLE CLOSURE: 1159.16 Feet at N 82 Degrees 29 Minutes 16 Seconds W

BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

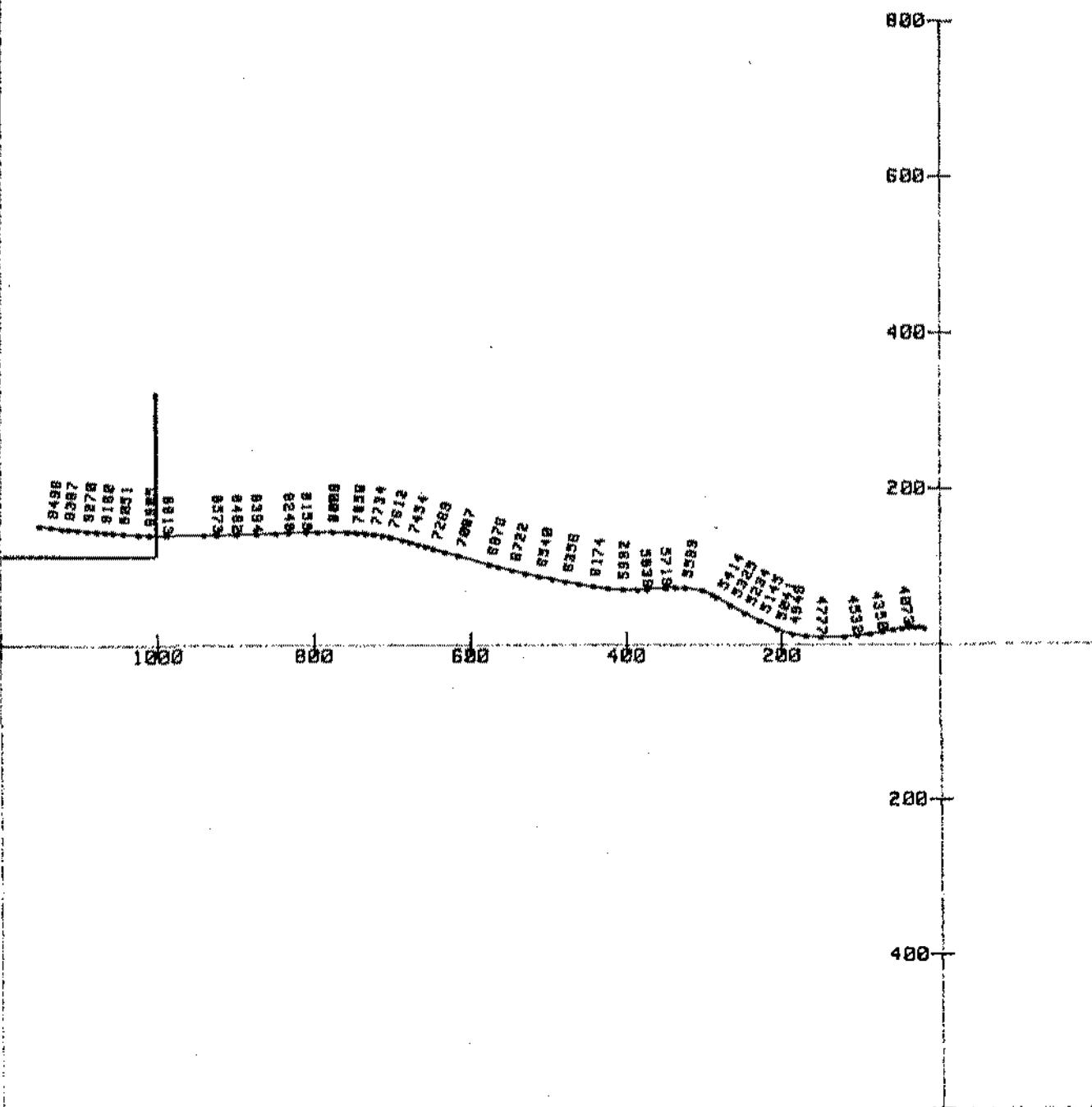
SMITH **i**DATADRIL  
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 200 FEET/INCH

BHL: 1159 FEET  
@ N 82.49 W  
TVD: 9566 FEET  
MD: 9686 FEET

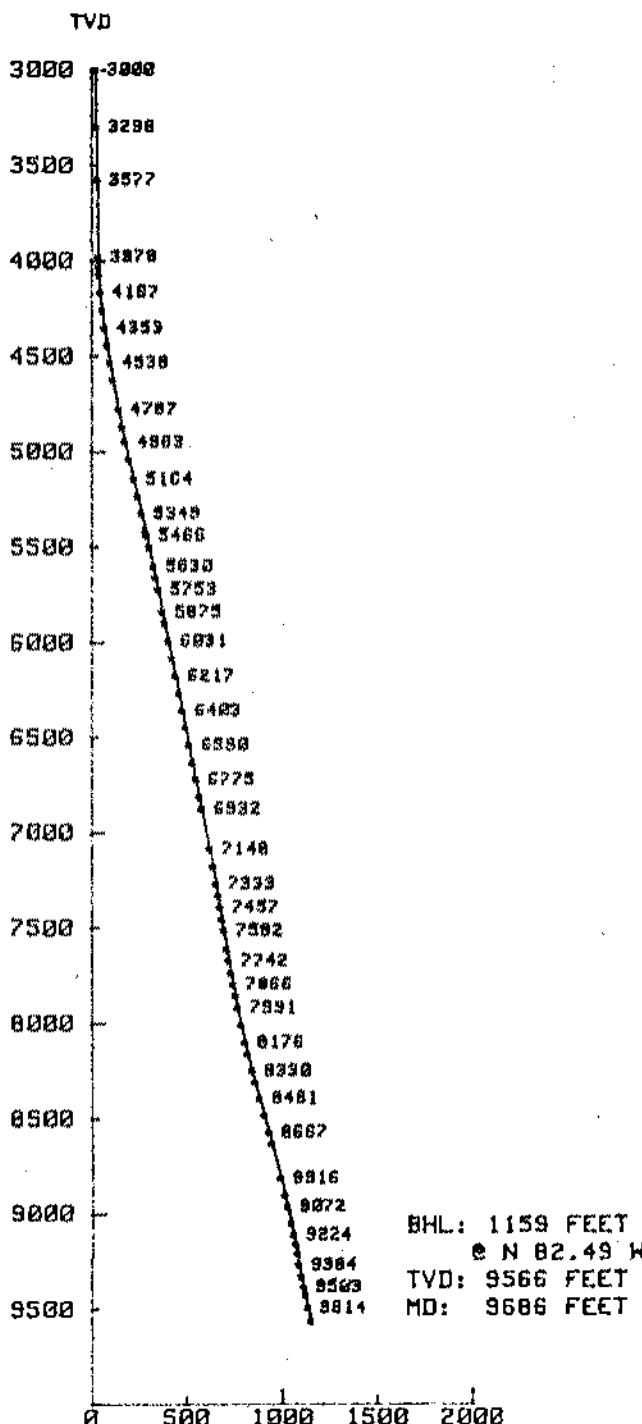


BASIC EARTH SCIENCE SYSTEMS  
BASIC GAME & FISH 14-2  
SEC 2-T153N-R101W  
WILLIAMS COUNTY, N. DAK.

**SMITH** DATA DRILL  
Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 1000 FEET/INCH



VERTICAL SECTION  
SECTION PLANE: N 76.08 W

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
GAME AND FISH 34-3  
WILLIAMS COUNTY, NORTH DAKOTA  
SKUNK HOLLOW FIELD  
OCTOBER 30, 1985

GYROSCOPIC MULTI-SHOT SURVEY  
0 - 3000'

FILE NAME: BESSGYRSUR

**\*\*\* RECORD OF SURVEY \*\*\***  
Calculated by Sii DATADRIL's C.A.D.D.S. System

Radius of Curvature Method  
All Angles are Decimal  
Vertical Section Plane: N 76.02 W

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOUGLES SEVERITY (DEG/100')
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
100.00	0.00	N 0.00 E	100.00	100.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
200.00	0.00	N 0.00 E	100.00	200.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
300.00	.25	S 33.00 E	100.00	300.00	.18 S .12 E	-.16	.22	S 33.00 E	.25
400.00	0.00	N 0.00 E	100.00	400.00	.37 S .24 E	-.32	.44	S 33.00 E	.25
500.00	0.00	N 0.00 E	100.00	500.00	.37 S .24 E	-.32	.44	S 33.00 E	0.00
600.00	0.00	N 0.00 E	100.00	600.00	.37 S .24 E	-.32	.44	S 33.00 E	0.00
700.00	.75	S 49.49 E	100.00	700.00	.79 S .74 E	-.90	1.08	S 42.90 E	.75
800.00	.75	S 79.54 E	100.00	799.99	1.35 S 1.90 E	-2.17	2.33	S 54.70 E	.39
900.00	.75	S 86.82 E	100.00	899.98	1.51 S 3.20 E	-3.47	3.54	S 64.82 E	.09
1000.00	.50	S 84.00 E	100.00	999.97	1.59 S 4.29 E	-4.55	4.57	S 69.71 E	.25
1100.00	1.00	S 79.97 E	100.00	1099.96	1.76 S 5.59 E	-5.85	5.86	S 72.53 E	.50
1200.00	1.00	N 30.98 E	100.00	1199.95	1.08 S 7.08 E	-7.13	7.16	S 21.34 E	1.13
1300.00	1.00	N 29.94 E	100.00	1299.93	.43 N 7.97 E	-7.63	7.98	N 86.94 E	.02
1400.00	1.00	N 35.89 E	100.00	1399.92	1.88 N 8.93 E	-8.21	9.12	N 78.09 E	.12
1500.00	1.00	N 16.15 W	100.00	1499.90	3.54 N 9.23 E	-8.11	9.88	N 69.02 E	.89
1600.00	.75	N 39.14 W	100.00	1599.89	4.88 N 8.53 E	-7.10	9.82	N 60.20 E	.43
1700.00	.75	N 27.97 W	100.00	1699.88	5.97 N 7.80 E	-6.14	9.83	N 52.58 E	.15
1800.00	.75	N .09 E	100.00	1799.87	7.23 N 7.49 E	-5.53	10.41	N 46.02 E	.36
1900.00	1.00	N 53.85 W	100.00	1899.86	8.54 N 6.83 E	-4.57	10.93	N 38.63 E	.82
2000.00	1.25	N 59.79 W	100.00	1999.84	9.62 N 5.18 E	-2.72	10.92	N 28.33 E	.28

**Sii DATADRIL**  
Division of Smith International, Inc.

BASIC EARTH SCIENCE SYSTEMS  
GAME AND FISH 34-3

WILLIAMS COUNTY, NORTH DAKOTA  
SKUNK HOLLOW FIELD

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	C L O S U R E DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
2100.00	1.50	N 56.73 W	100.00	2099.81	10.88 N	3.14 E	.43	11.32	N 16.11 E	.28
2200.00	2.00	N 52.39 W	100.00	2199.77	12.65 N	.65 E	2.41	12.66	N 2.96 E	.52
2300.00	2.25	N 57.33 W	100.00	2299.70	14.78 N	2.38 W	5.86	14.97	N 9.13 W	.31
2400.00	2.25	N 70.27 W	100.00	2399.62	16.51 N	5.89 W	9.69	17.53	N 19.64 W	.51
2500.00	2.00	N 64.22 W	100.00	2499.55	17.94 N	9.31 W	13.35	20.22	N 27.42 W	.34
2600.00	1.50	N 89.17 W	100.00	2599.51	18.64 N	12.26 W	16.38	22.31	N 33.33 W	.90
2700.00	1.00	N 84.06 W	100.00	2699.48	18.77 N	14.43 W	18.53	23.68	N 37.56 W	.51
2800.00	1.25	N 79.00 W	100.00	2799.46	19.06 N	16.38 W	20.48	25.13	N 40.67 W	.27
2900.00	1.00	N 48.95 W	100.00	2899.44	19.91 N	18.12 W	22.38	26.92	N 42.30 W	.53
3000.00	1.00	N 51.89 W	100.00	2999.43	21.02 N	19.47 W	23.95	29.65	N 42.80 W	.05

BOTTOM HOLE CLOSURE: 28.65 Feet at N 42 Degrees 47 Minutes 49 Seconds W

BASIC EARTH SCIENCE SYSTEMS  
GAME AND FISH 34-3  
WILLIAMS COUNTY, NORTH DAKOTA  
SKUNK HOLLOW FIELD

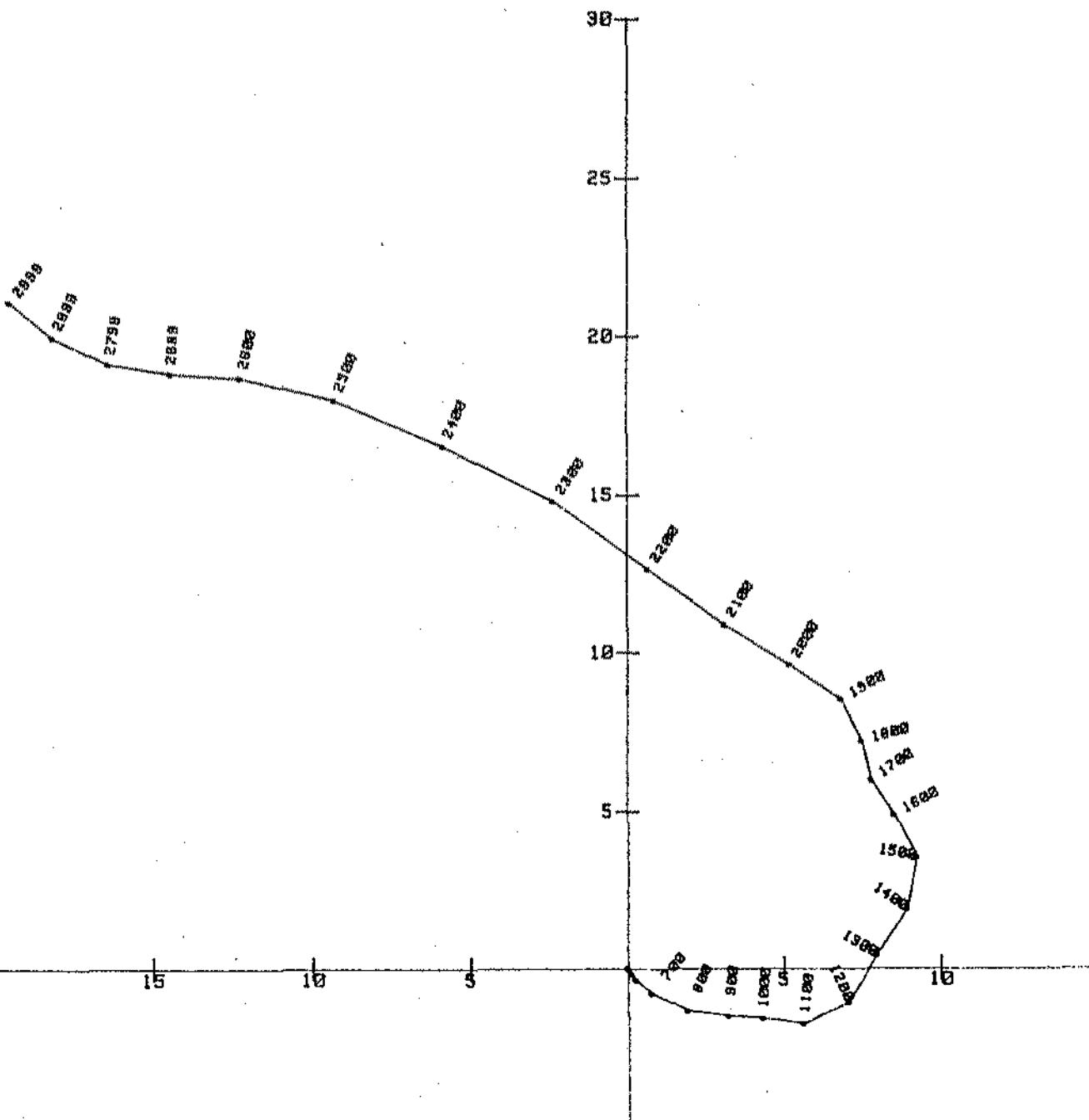
SMITH DATADRIL  
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 5 FEET/INCH

BHL: 29 FEET  
@ N 42.80 W  
TVD: 2999 FEET  
MD: 3000 FEET





Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

January 9, 1987

North Dakota Industrial Commission  
Oil and Gas Division  
900 East Boulevard  
Bismarck, ND 58505

Attn: Ms. Lyn Entzi



Re: Basic Game & Fish #34-3  
SW SE Sec. 3, T153N, R101W  
McKenzie County, ND  
Well File #11745

Dear Ms. Entzi:

Enclosed please find three copies of the Directional Survey Report for the above referenced well.

My apologies for the inconvenience, please do not hesitate to contact me if you need anything further.

Sincerely,

Basic Earth Science Systems, Inc.

*April Kreis*  
April Kreis  
Production Technician

ak

Enclosures

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

11745

WESLEY D. NORTON  
Chief Enforcement Officer

F. E. WILBORN  
Deputy Enforcement Officer

CLARENCE G. CARLSON  
Geologist

CHARLES KOCH  
Engineering Dept.

DOREN DANNEWITZ  
Field Supervisor

KEN KALLESTAD  
Reclamation Sup.

January 5, 1987

BASIC EARTH SCIENCE SYSTEMS INC  
ATTN MS JUDITH C BURKE  
P O BOX 3088  
ENGLEWOOD CO 80155

RE: Returning Information

Dear Ms. Burke:

Enclosed are the forms for a permit to drill, which are being returned to you since our office has been holding these forms since October of 1986. There is no room on your present bond, therefore we can not issue a permit until a new bond is issued.

If you have any questions, please do not hesitate to contact us.

Sincerely yours,



Donna R. Bauer  
Permit/Bond Secretary

drb

Enclosures

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

**WESLEY D. NORTON**  
Chief Enforcement Officer

**F. E. WILBORN**  
Deputy Enforcement Officer

**CLARENCE G. CARLSON**  
Geologist

**CHARLES KOCH**  
Engineering Dept.

**DOREN DANNEWITZ**  
Field Supervisor

**KEN KALLESTAD**  
Reclamation Sup.

December 29, 1986

Basic Earth Science Systems, Inc.  
Mr. Jeffrey Jones  
P.O. Box 3088  
Englewood, CO 80155

RE: #11745 - BASIC GAME & FISH  
#34-3 - SW SE 03-153-101

Dear Mr. Jones:

In reviewing our files, I have noted that the Directional Survey Reports in regard to the above-captioned file are missing. Please send them at your earliest convenience, in triplicate. Thank you.

Sincerely,

*Lyn Entzi*  
Lyn Entzi

lse

**basic**

Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

November 26, 1986



Mr. Tim Kolke  
Real Estate Division  
Department of the Army  
Omaha District, Corps of Engineers  
1612 U.S. Post Office and Courthouse  
Omaha, NE 68102-4978

Re: Basic Game & Fish #24-3  
Township 153 North-Range 101 West  
Section 3: SW $\frac{1}{4}$ SE $\frac{1}{4}$   
McKenzie County, ND      11745

Dear Mr. Kolke:

Enclosed you will find an executed copy of Letter Grant No. DACW45-9-87-6027. Basic Earth Science Systems, Inc. has recently decided to postpone the drilling of the Basic Game & Fish #24-3 until the next fiscal year. Therefore, we request that the Corps of Engineers hold this approved Application to Drill in suspense. We will advise you of our desire to reactivate this well as soon as we have firmed up the spud date.

Thank you for your cooperation and feel free to contact me if you have any questions about our request for suspension.

Sincerely,

Basic Earth Science Systems, Inc.

A handwritten signature in black ink, appearing to read 'Jeffery E. Jones'.

Jeffery E. Jones  
Vice President

JEJ:jb

encl.

cc: North Dakota Industrial Commission w/o encl.  
North Dakota Game and Fish Department w/o encl.

*Multi-point*  
basic

Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

November 12, 1986

11745

Chief, Operations Division  
Corps of Engineers  
6014 U.S. Post Office & Courthouse  
Omaha, NE 68102

Project Manager  
Garrison Project Office  
Administration Building  
Riverdale, ND 58565

North Dakota Industrial Commission  
Oil and Gas Division  
900 E. Boulevard  
Bismarck, ND 58505

Re: Basic Game & Fish #24-3  
Township 153 North-Range 101 West  
Section 3: SE $\frac{1}{4}$ SW $\frac{1}{4}$   
McKenzie County, ND

Gentlemen:

Enclosed please find a copy of the Surface Damage Agreement (Exhibit 12) which was inadvertently omitted as an enclosure to our letter of October 31st, and is to be included with the Multi-point Surface Use and Operations Plan for the above referenced well.

Our apologies for any inconvenience this may have caused. Please do not hesitate to contact me if you have any questions.

Sincerely,

Basic Earth Science Systems, Inc.

*Jeffrey E. Jones*  
Jeffrey E. Jones *ak*  
Vice President

JEJ:ak

Enclosure

**basic**

Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

October 31, 1986

Mr. Bruce Renhowe  
Wildlife Resource Management Biologist  
North Dakota Game and Fish Department  
214 Rose Lane  
Williston, ND 58801

Re: Surface Damage Agreement  
Basic Game & Fish #24-3  
Township 153 North-R Range 101 West  
Section 3: SE $\frac{1}{4}$ SW $\frac{1}{4}$   
McKenzie County, North Dakota

Dear Mr. Renhowe:

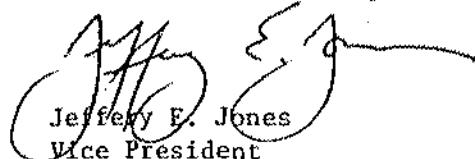
Basic Earth Science Systems, Inc. hereby agrees to a surface damage amount equivalent to \$1,250.00 per acre to be contributed in the form of work for North Dakota Game and Fish projects. Once the actual location is built, our representative will meet with you at your convenience to measure the actual size of the damaged area.

*It is also understood that the access roads will be upgraded and maintained in accordance with the multi-point and surface use and operations plan. It is further understood that should we obtain a productive well, that we will be responsible for maintaining the access roads with whatever assistance we can obtain from the township.*

If you have any questions regarding the above settlement, please contact me immediately.

Sincerely,

Basic Earth Science Systems, Inc.

  
Jeffrey E. Jones  
Vice President

JEJ:jb

11745

**NORTH DAKOTA INDUSTRIAL COMMISSION**

**OIL AND GAS DIVISION**

**WESLEY D. NORTON**  
Chief Enforcement Officer

**F. E. WILBORN**  
Deputy Enforcement Officer

**CLARENCE G. CARLSON**  
Geologist

**CHARLES KOCH**  
Engineering Dept.

**DOREN DANNEWITZ**  
Field Supervisor

**KEN KALLESTAD**  
Reclamation Sup.

September 15, 1986

Mr. Jeffery E. Jones  
Basic Earth Science Systems  
P.O. Box 3088  
Englewood, Colorado 80155

RE: Basic Game & Fish #34-3  
SW SE Section 3-T153N-R101W  
Well File No. 11745

Basic Corps of Engineers #31-10  
NW NE Section 10-T153N-R101W  
Well File No. 11920

Rosebud #22-11  
SE NW Section 11-T153N-R101W  
Well File No. 11549

Dear Mr. Jones:

Upon a recent inspection of the above captioned wells, I noted the following problems;

Basic Game & Fish #34-3 - reclamation of the drilling pit must be completed immediately. The ignitor is not working and must be repaired as soon as possible. Additionally, there is an area around the production equipment that is very weedy and is a potential fire hazard.

Rosebud #22-11 - ignitor was not working. Also weeds on the location that need to be removed.

Basic Corps of Engineers #31-10 - the drilling pit mud cuttings must be hauled out to an approved disposal pit and the drilling pit on location reclaimed immediately.

Please take care of these problems as soon as possible. If you have any questions, feel free to contact our office.

Sincerely,

*Tom Delling kb*  
Tom Delling  
Field Inspector

TD/rls

North Dakota State Industrial Commission  
Oil and Gas Division  
900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA 58505

RECEIVED  
JULY 1 1986  
1986  
1986

PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO  
TRANSPORT OIL FROM LEASE

Basic Game & Fish #34-3

WELL \_\_\_\_\_ (SEC.) 3 (TWP.) 153N (RGE.) 101W COUNTY McKenzie

PRODUCER Basic Earth Science Systems, Inc. FIELD Baker POOL Madison

ADDRESS CORRESPONDENCE TO Jeffery E. Jones, Basic Earth Science Systems, Inc.

STREET P. O. Box 3088 CITY Englewood STATE CO 80155

THE ABOVE NAMED PRODUCER HEREBY AUTHORIZES The Permian Corporation

(Name of Purchaser)

WHOSE PRINCIPAL PLACE OF BUSINESS IS P. O. Box 3119, Midland, TX 79702  
(Street) (City) (State)

AND WHOSE FIELD ADDRESS IS P. O. Box 2358, Williston, ND 58801

TO TRANSPORT 100 % OF THE OIL PRODUCED FROM THE LEASE DESIGNATED ABOVE UNTIL  
FURTHER NOTICE

THE OIL WILL BE TRANSPORTED BY The Permian Corporation  
(Name of Transporter)

OTHER PURCHASERS TRANSPORTING OIL FROM THIS LEASE ARE: None

(Name of Purchasers)	%	(Name of Purchasers)	%

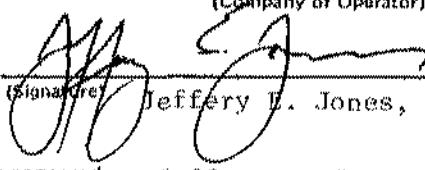
REMARKS:

The Permian Corporation is replacing Koch Oil Company as purchaser. Effective date is July 1, 1986.

The undersigned certifies that the rules and regulations of the State Industrial Commission have been complied with except as noted above and that the purchaser is authorized to transport the above percentage of oil produced from the above described property and that this authorization will be valid until further notice to the purchaser named herein until canceled by the Producer.

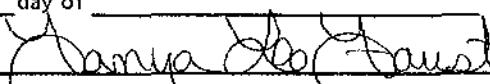
Executed this 25th day of June, 1986 at Basic Earth Science Systems, Inc.  
(Company or Operator)

STATE OF Colorado }  
COUNTY OF Arapahoe }

  
(Signature) Jeffery E. Jones, Vice President

Before me the undersigned authority, on this day personally appeared Jeffery E. Jones known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 25th day of June, 1986.

  
(Signature)

My Commission expires 10-18-88, Notary Public in and for Arapahoe County, Colorado

JUN 5 1986

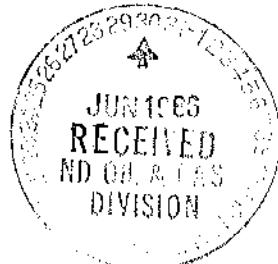
Approved by: Bruce Hulseffer (Deputy Enforcement Officer) (Date)



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado  
80155-3088  
(303) 792-5230

June 26, 1986



North Dakota State Industrial Commission  
Oil and Gas Division  
900 East Boulevard  
Bismarck, ND 58505

Re: Basic Game & Fish #34-3  
Sec. 3, T153N, R101W  
Rosebud #22-11  
Sec. 11, T153N, R101W  
McKenzie County, ND

Gentlemen:

Enclosed you will find four copies of Producers Certificate of Compliance and Authorization to Transport Oil from Lease, Form 8, for each of the wells referenced above.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Basic Earth Science Systems, Inc.

*Judy Burke*  
Judy Burke  
Lease Analyst/Permit Coordinator

encl.

11745

**NORTH DAKOTA INDUSTRIAL COMMISSION**  
**OIL AND GAS DIVISION**

---

**WESLEY D. NORTON**  
Chief Enforcement Officer

**F. E. WILBORN**  
Deputy Enforcement Officer

**CLARENCE G. CARLSON**  
Geologist

**CHARLES KOCH**  
Engineering Dept.

**DOREN DANNEWITZ**  
Field Supervisor

**KEN KALLESTAD**  
Reclamation Sup.

June 6, 1986

Mr. Jeffery E. Jones  
Basic Earth Science Systems Inc.  
Box 3088  
Englewood, Colorado 80155

RE: Basic Game & Fish 34-3  
SW SW Section 2-T153N-R101W  
Well File No. 11745

Dear Mr. Jones:

Our office has received the Sundry Notice (Form 4) for the above captioned well. Restoration of this site should be completed as soon as possible and the drilling fluids within the pit should be removed immediately. As noted on the enclosed sheet, after the well is plugged or completed, reclamation of the drill site should start within one month.

If you have any questions, feel free to call our office. Thank you.

Sincerely,

*Kenneth Kallestad*

Kenneth Kallestad  
Reclamation Supervisor

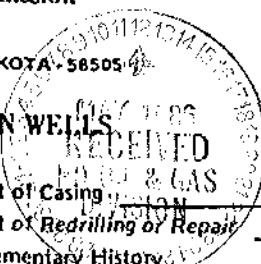
rls  
Enclosure

**North Dakota State Industrial Commission  
Oil and Gas Division**

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA 58505

**SUNDRY NOTICES AND REPORTS ON WELLS**

- |  |                                   |
|--|-----------------------------------|
| 1. Notice of Intention to Drill or Redrill | 7. Report of Casing               |
| 2. Notice of Intention to Change Plans     | 8. Report of Redrilling or Repair |
| 3. Notice of Intention to Pull Casing      | 9. Supplementary History          |
| 4. Notice of Intention to Abandon Well     | 10. Well Potential Test           |
| 5. Report of Water Shut-Off                | 11. Drilling Prognosis            |
| 6. Report of Shooting or Acidizing         | 12. Rehabilitation Notice         |



NAME OF LEASE Basic Game & Fish Date May 1, 1986  
 WELL NO. #34-3 is located 392 ft. from (N) (S) line and 494 ft. from the (E) (W) line  
 of Section 2 Township 153N Range 101W in McKenzie  
 County, Wildcat Field Red River Pool. The elevation of the ground  
 is 1850 feet above sea level.

Name and Address of Contractor, or Company which will do work is: Hexom Earth Construction  
 Rt. 3, Box 238  
 Williston, ND 58801

**(DETAILS OF WORK)**

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing,  
 indicate mud weights, cementing points, and all other details of work)

- A. Salt water hauled to Great Plains Petroleum disposal well, Great Plains #21-16.
  - B. All drill cuttings, drilling fluids, pit liner and nonflammable waste will be removed and disposed of. Due to the low location, the area outside of the pit will be channeled to divert local water from pit to prevent refilling and aid in drying.
  - C. Drill site will be leveled and contoured, redistribution of the topsoil will be delayed one year to allow for settling of the location.
  - D. Dirt contractor is Hexom Earth Construction, Rt. 3, Box 238, Williston, ND 58801.
  - E. Restoration to begin approximately August 1, 1986, and completed by September 1, 1986, except for topsoil redistribution and reseeding.
  - F. Basic Earth Science Systems, Inc. will reseed the location with approved mixture.
- We would like to know where the drill cuttings and drilling mud is going  
 who is the surface owner?*

Company Basic Earth Science Systems, Inc.

Do not write in this space

Address P.O. Box 3088, Englewood, CO 80155 Approved 5-12 1986

By

*Jeffery E. Jones*  
 Jeffery E. Jones  
 Vice President

By

*Kenneth Kallstadt*  
 Kenneth Kallstadt  
 Reclamation Supervisor

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

11745

**WESLEY D. NORTON**  
Chief Enforcement Officer

**F. E. WILBORN**  
Deputy Enforcement Officer

**CLARENCE G. CARLSON**  
Geologist

**CHARLES KOCH**  
Engineering Dept.

**DOREN DANNEWITZ**  
Field Supervisor

**KEN KALLESTAD**  
Reclamation Sup.

April 24, 1986

Mr. Jeffery E. Jones  
Basic Earth Science System, Inc.  
P.O. Box 3088  
Englewood, Colorado 80155

RE: Basic Game & Fish #34-3  
SW SE Section 3-T153N-R101W  
Well File No. 11745

Dear Mr. Jones:

Reclamation of the above referenced drilling pit is needed. Please submit your reclamation procedures on a Sundry Notice (Form 4) prior to beginning restoration. If you have any questions, feel free to contact our office. Thank you.

Sincerely,

*Tom Delling* /RLS  
Tom Delling  
Field Inspector

TD/rls



Earth Science Systems, Inc.

11745

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

February 27, 1986

North Dakota Industrial Commission  
Oil & Gas Division  
900 East Boulevard  
Bismarck, ND 58505

Re: Basic Game & Fish #34-3  
BHL SW SE Sec. 3-T153N-R101W  
McKenzie County, ND  
Well File #11745

Gentlemen:

Enclosed please find three copies of the Cyberlook, Perforating Log and DST #1 for the above referenced well as requested in your letter of February 11, 1986.

Please do not hesitate to contact me if you need anything further.

Sincerely,

Basic Earth Science Systems, Inc.

*April Kreis*  
April Kreis  
Production Technician

ak

Enclosures

TECHNICAL SERVICES, Security Life Bldg. • Suite 1350 • 1616 Glenarm • Denver, Colorado 80202 • Phone. (303) 573-8027

11745

Contractor McKay Drilling  
Rig No. 59  
Spot --  
Sec. 3  
Twp. 154N  
Rng. 101W  
Field Skunk Hollow  
County McKenzie  
State North Dakota  
Elevation 1868.6 ft.  
Formation Mission Canyon

Top Choke 1"  
Bottom Choke 3/4"  
Size Hole 8 3/4"  
Size Rat Hole --  
Size & Wt. D. P. 4 1/2" XH 16.60#  
Size Wt. Pipe --  
I. D. of D. C. 2 1/4"  
Length of D. C. 608 ft.  
Total Depth 9259 ft.  
Interval Tested 9229-9259 ft.  
Type of Test Bottom Hole  
Conventional

Flow No. 1 10 Min.  
Shut-in No. 1 60 Min.  
Flow No. 2 90 Min.  
Shut-in No. 2 180 Min.  
Flow No. 3 -- Min.  
Shut-in No. 3 -- Min.  
  
Bottom Hole Temp. 247° F  
Mud Weight 10.5#  
Gravity --  
Viscosity 3.7

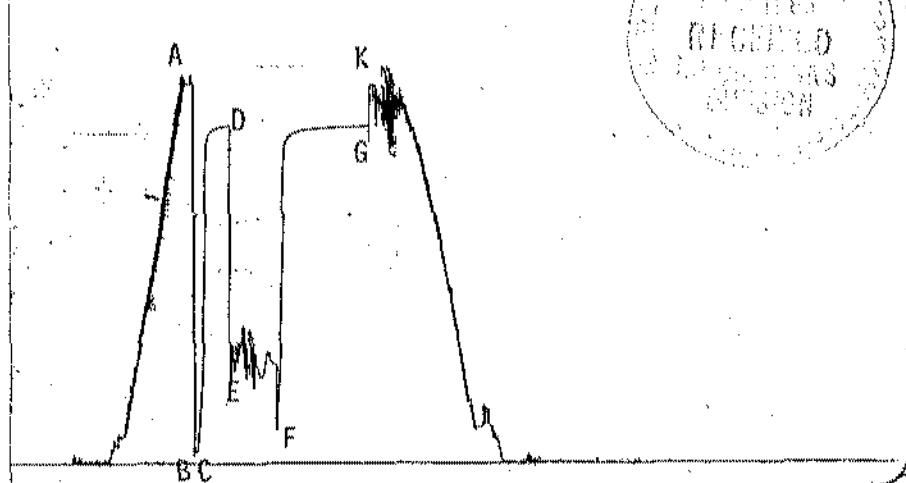
Tool opened @ 11:00 a.m.

**Inside Recorder**

PPD Make Kuster K-3  
No. 16815 Cap. 6100 @ 9206'

Press	Corrected
Initial Hydrostatic	A <u>4993</u>
Final Hydrostatic	K <u>4983</u>
Initial Flow	B <u>134</u>
Final Initial Flow	C <u>139</u>
Initial Shut-in	D <u>4442</u>
Second Initial Flow	E <u>1025</u>
Second Final Flow	F <u>426</u>
Second Shut-in	G <u>4442</u>
Third Initial Flow	H <u>--</u>
Third Final Flow	I <u>--</u>
Third Shut-in	J <u>--</u>

Lynes Dist. Dickinson, ND  
Our Tester Terry Tucker  
Witnessed By Tom Hopkin



Did Well Flow - Gas Yes oil No water No  
RECOVERY IN PIPE:

Ran 5 gallons ammonia inhibitor  
Test was reverse circulated

910.5 ft. Gas-cut oil = 7.28 Bbls

**Blow Description:**

1st Flow: Tool opened with a surface blow, increasing to 2 psi at the end of the flow.

2nd Flow: Tool opened with a 5" blow, increasing to 11 psi in 45 minutes with gas and condensate to surface (see gas report).

Comments: The test results indicate a mechanically successful test. Reservoir calculations are enclosed. Plugging action during the 2nd flow.

"TIGHT HOLE"

Operator Basic Earth Science Systems Inc.  
P.O. Box 3088  
Englewood, CO 80150

Well Name and No. Game & Fish #34-3  
Ticket No. 21965

Date 11-16-85

DST No. 1  
No. Final Copies 17

# LYNES, INC.

Basic Earth Science Systems, Inc.

Operator

Game & Fish #34-3

Well Name and No.

1

DST No.

Comments relative to DST #1 run on Game & Fish #34-3 in McKenzie County, North Dakota, Sec. 3-157N-101W for Basic Earth Science Systems Inc.

The calculations here-in performed were accomplished by plotting the time and pressure data on semi-log scale and using the resulting slope and extrapolated pressures from the Horner plot.

The initial formation pressure extrapolated to 4490 psi with a slope of 243 psi/cycle creating a sub-surface pressure gradient of .488 psi/ft. at the recorder depth of 9206 feet.

The average effective permeability for this zone calculated to 2.32 md. This was based on 911 feet of 40 API gravity oil being recovered in 100 minutes flowing time. The entire second flow was restricted, making the fluid recovery and reported gas flow rate low. With the information available, it is impossible to pinpoint the true flow rate, permeability, or gas-oil ratio. It is quite possible that this test could have flowed to surface. The skin factor and damage ratio numbers are high due to tool restriction and do not suggest any significant well-bore damage was present at the time of this test.

If you should have any questions concerning this test, please do not hesitate to call. We appreciate your work and look forward to serving you again.

  
R.C. Butler  
Regional Engineer

RCB/bss

Operator.....: BASIC EARTH SCIENCE SYSTEMS INC.  
Well ID.....: GAME & FISH #34-3  
Location.....: SEC. 3 T154N R101W  
DST Number....: 1  
Formation.....: MISSION CANYON  
Type of test....: BOTTOM HOLE CONVENTIONAL  
Test interval...: 9229 - 9259ft.  
Recorder number : 16815  
Recorder depth : 9206

RESERVOIR CALCULATIONS: Fluid calculations based on 2nd shut-in  
\*\*\*\*\*

RESERVOIR PARAMETERS USED:

\*\*\*\*\*

Net Pay.....	14.00 ft
Porosity.....	10.00 %
Bottom Hole Temp.....	247.00 F
Specific Gravity.....	.825
API Gravity.....	40.00
Compressibility.....	.1540E-004 /psi
Viscosity.....	.29 cp
Total Recovery.....	910.00 ft
Total flowing time....	100.00 minutes
Flow rate.....	105.00 bbl/d
Final flowing pressure:	426.00 psi
Slope.....	242.844 psi/cycle
Extrapolation.....	4490.11 psi
Formation vol. factor :	1.57 Reservoir/Surface
Wellbore radius.....	4.38 in

RESULTS:

\*\*\*\*\*

Effective Permeability..(k)....	2.32 MD
Transmissibility....(kh/u)....	110.38 MD.ft/cp
Flow capacity.....(kh)....	32.50 MD.ft
Skin.....(s)....	13.99
Pressure drop across skin....	2952.54 psi
Radius of investigation.....	84.71 ft
Damage ratio.....	3.65
Productivity index.....	.026 bbl/psi.d
Productivity index W/O damage :	.094 bbl/psi.d

BASIC EARTH SCIENCE SYSTEMS INC.  
DST# 1  
GAME & FISH #34-3  
9229 - 9259ft.

Page 2

Location: SEC. 3 T154N R101W                    Recorder Number: 16815  
Test Type: BOTTOM HOLE CONVENTIONAL            Recorder Depth: 9206 ft.  
Formation: MISSION CANYON

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE (T+dt)/dt psi	PRESSURE ABSCISSA	PRESSURE SQUARED psi <sup>2</sup> /10 <sup>6</sup>
		15.00	3657.0	4083.0	7.6667	
		20.00	3824.0	4250.0	6.0000	
		25.00	3872.0	4298.0	5.0000	
		30.00	3897.0	4323.0	4.3333	
		35.00	3915.0	4341.0	3.8571	
		40.00	3930.0	4356.0	3.5000	
		45.00	3940.0	4366.0	3.2222	
		50.00	3950.0	4376.0	3.0000	
		55.00	3955.0	4381.0	2.8102	
		60.00	3963.0	4389.0	2.6667	
		65.00	3968.0	4394.0	2.5385	
		70.00	3973.0	4399.0	2.4286	
		75.00	3976.0	4402.0	2.3333	
		80.00	3981.0	4407.0	2.2500	
		85.00	3983.0	4409.0	2.1765	
		90.00	3986.0	4412.0	2.1111*	
		95.00	3988.0	4414.0	2.0526*	
		100.00	3991.0	4417.0	2.0000*	
		105.00	3993.0	4419.0	1.9524*	
		110.00	3996.0	4422.0	1.9091*	
		115.00	3998.0	4424.0	1.8696*	
		120.00	4001.0	4427.0	1.8333*	
		130.00	4003.0	4429.0	1.7692*	
		140.00	4008.0	4434.0	1.7143*	
		150.00	4011.0	4437.0	1.6667*	
		160.00	4013.0	4439.0	1.6250*	
		170.00	4016.0	4442.0	1.5882*	
G END OF 2nd SHUT-IN		180.00	4016.0	4442.0	1.5556*	
Q FINAL HYDROSTATIC		0.00		4983.0		

\* VALUES USED FOR EXTRAPOLATIONS

1st SHUT-IN:

HORNER EXTRAPOLATION 4486.38 PSI  
HORNER SLOPE 658.93 psi/cycle

2nd SHUT-IN

HORNER EXTRAPOLATION 4490.11 PSI

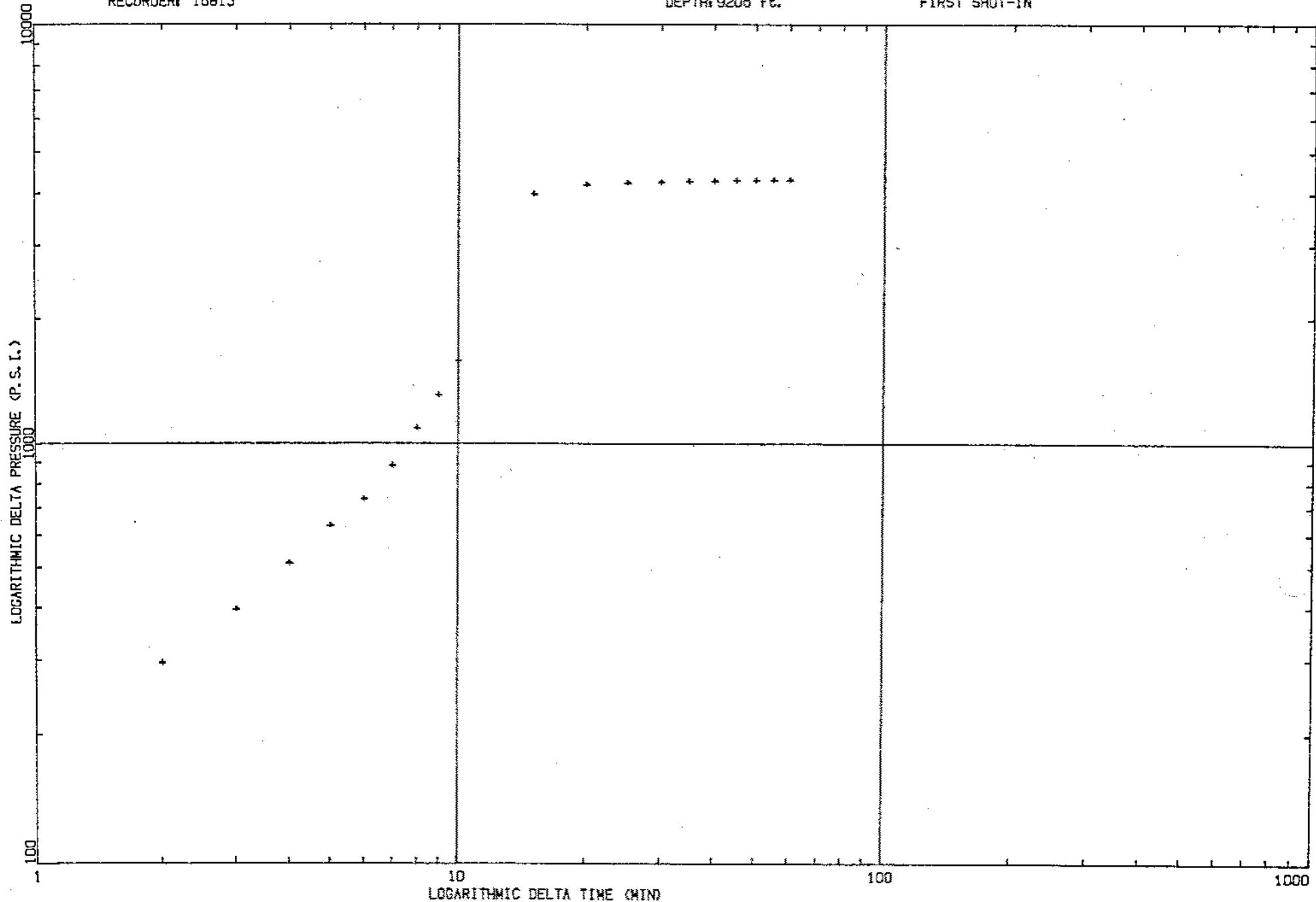
HORNER SLOPE

242.84 psi/cycle

OPERATOR: BASIC EARTH SCIENCE SYSTEMS INC.  
LOCATION: SEC. 3 T154N R101W  
RECORDER: 16B15

WELL NAME: GAME & FISH #94-3  
DST #: 1  
DEPTH: 9206 ft.

FIRST SHUT-IN



OPERATOR: BASIC EARTH SCIENCE SYSTEMS INC.

WELL NAME: GAME & FISH #34-3

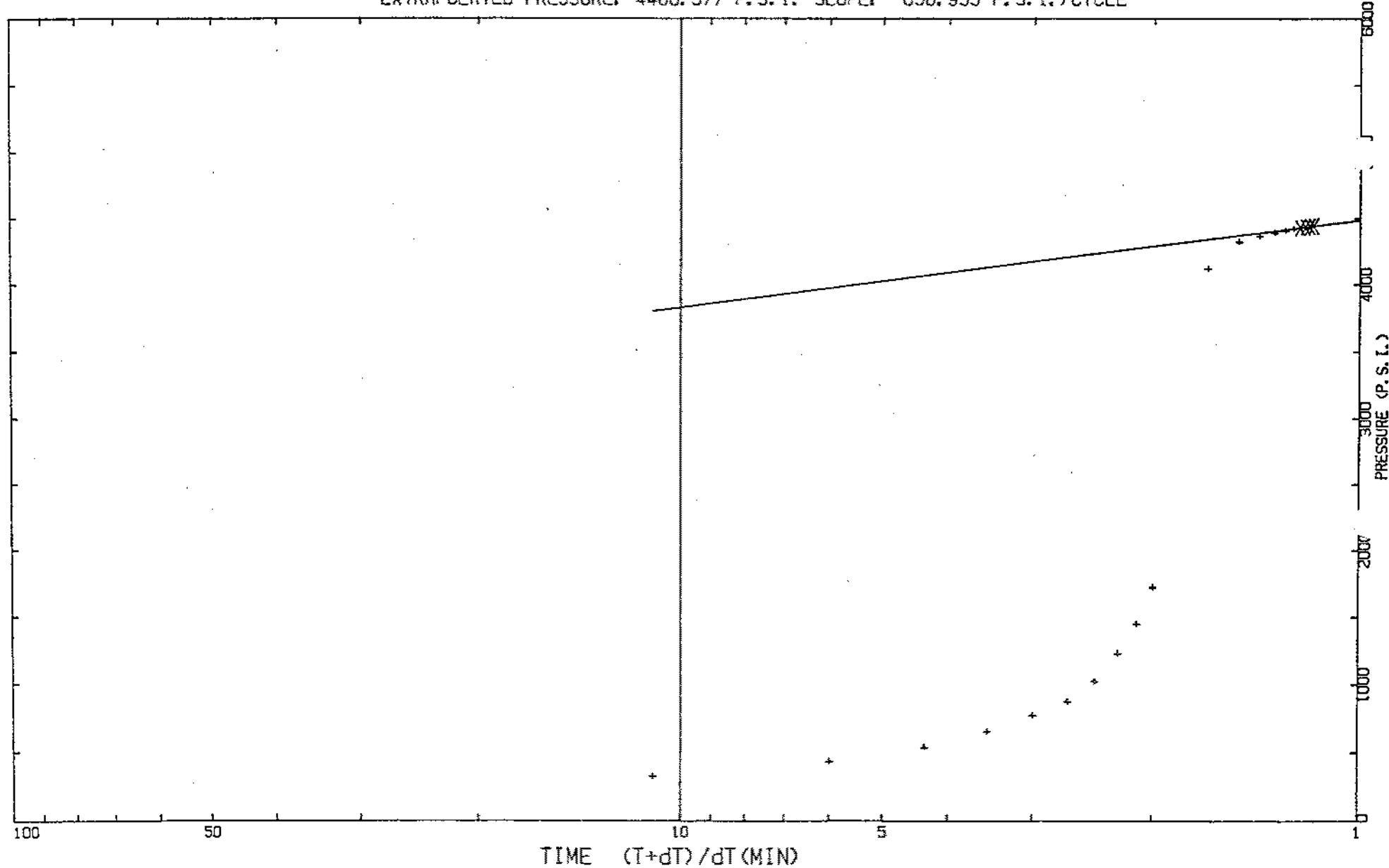
LOCATION: SEC. 3 T154N R101W DST #: 1

FIRST SHUT-IN

RECORDER: 16815

DEPTH: 9206 ft.

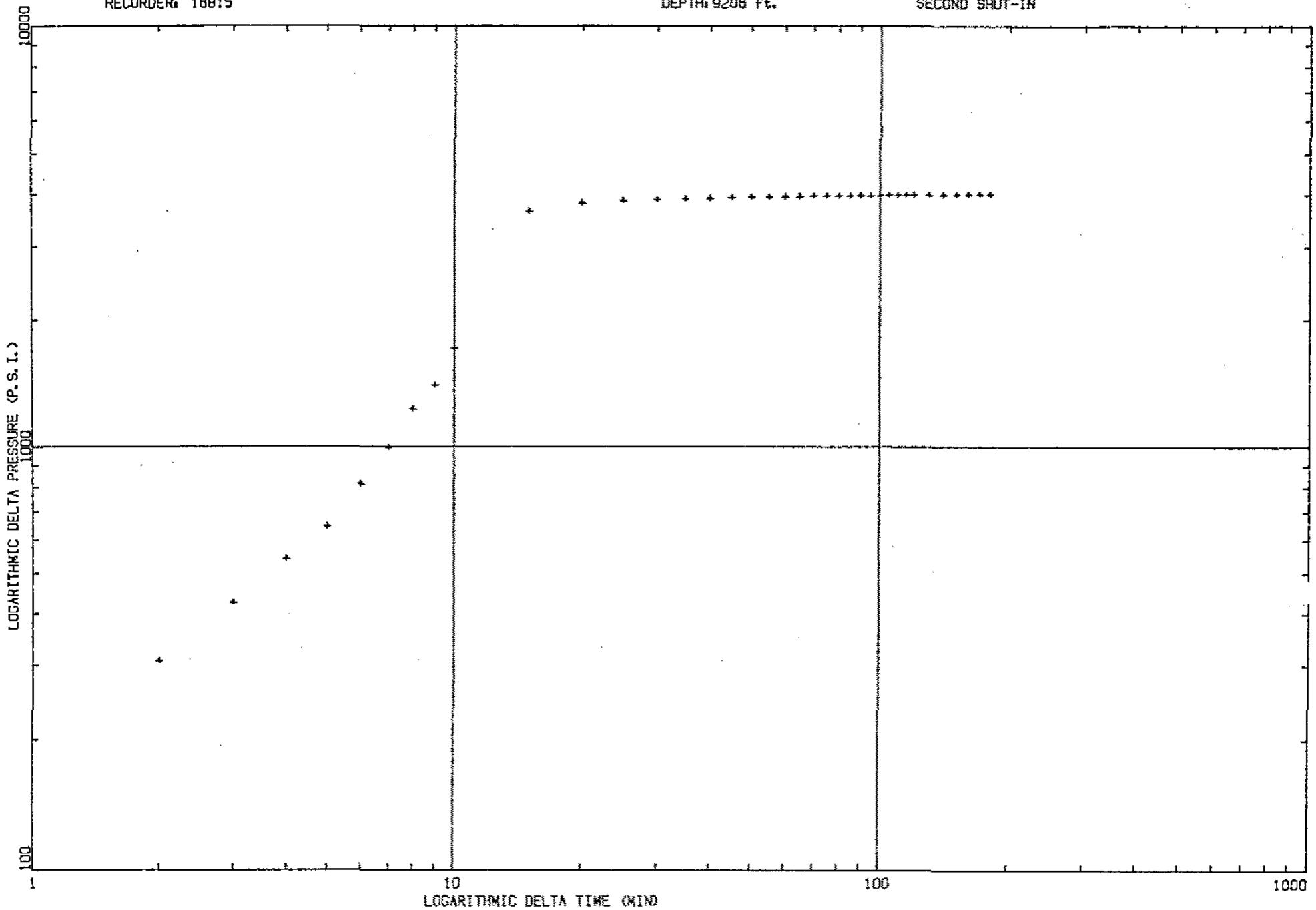
EXTRAPOLATED PRESSURE: 4486.377 P.S.I. SLOPE: 658.933 P.S.I./CYCLE



OPERATOR: BASIC EARTH SCIENCE SYSTEMS INC.  
LOCATION: SEC. 9 T154N R101W  
RECORDER: 16815

WELL NAME: GAME & FISH #34-3  
DST #: 1  
DEPTH: 9208 ft.

SECOND SHUT-IN



OPERATOR: BASIC EARTH SCIENCE SYSTEMS INC.

WELL NAME: GAME & FISH #34-3

LOCATION: SEC. 3 T154N R101W

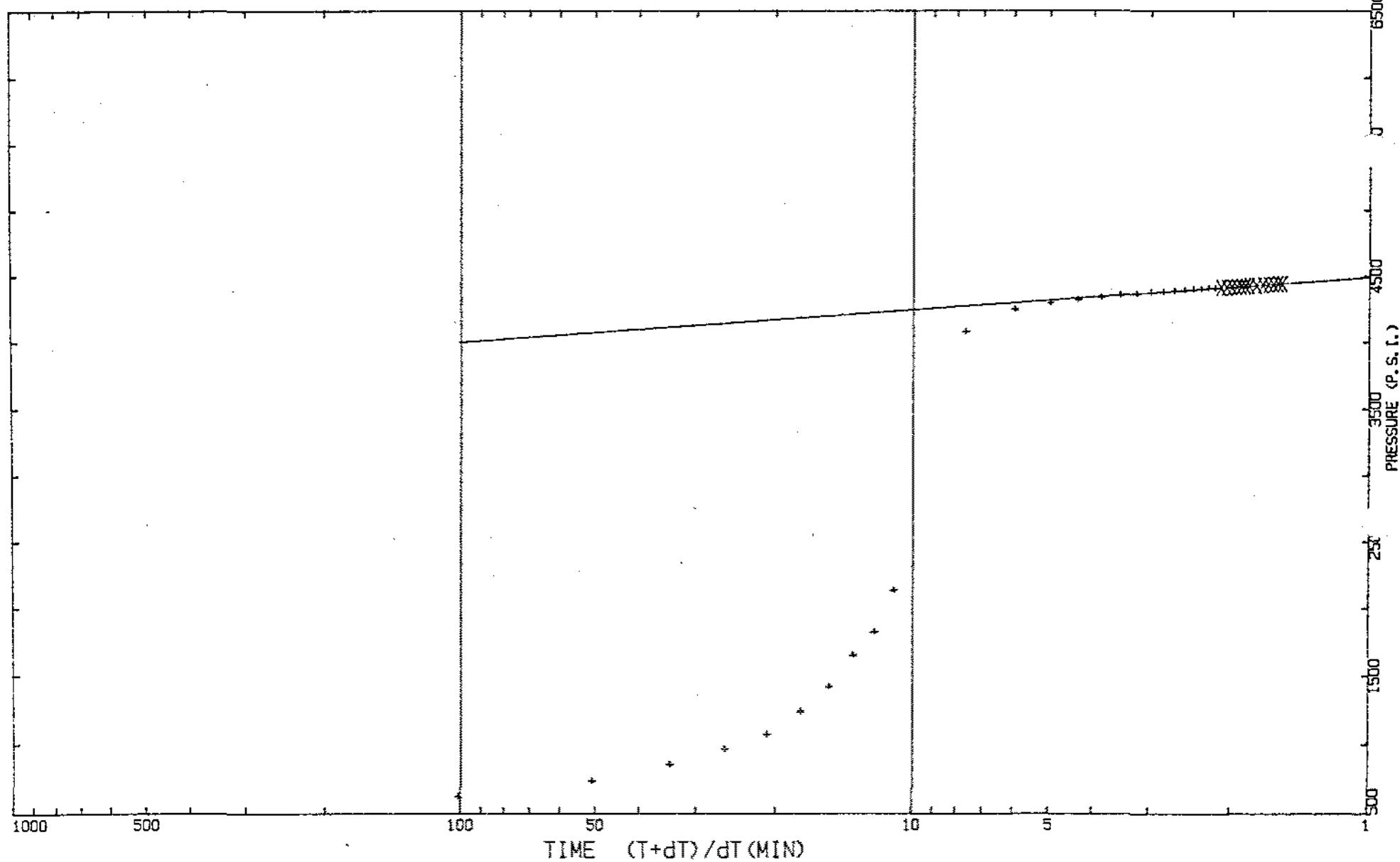
DST #: 1

SECOND SHUT-IN

RECORDER: 16815

DEPTH: 9206 ft.

EXTRAPOLATED PRESSURE: 4490.114 P.S.I. SLOPE: 242.844 P.S.I./CYCLE



BASIC EARTH SCIENCE SYSTEMS INC.  
DST#: 1  
GAME & FISH #34-3  
9229 - 9259ft.

Page 1

Location: SEC. 3 T154N R101W  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: MISSION CANYON

Recorder Number: 16815  
Recorder Depth: 9206

SAMPLE DATA  
\*\*\*\*\*

SAMPLE CHAMBER:

\*\*\*\*\*

Capacity of sample chamber 2300 cc  
Volume of sample..... 500 cc  
Pressure in sampler..... 2100 psig  
Where sampler was drained... on location

Sampler contained:

Oil 500 cc 41 @ 70 Degrees F  
Gas 11.1 cu-ft  
Other trace of paraffin  
GOR 850

RESISTIVITY DATA:

\*\*\*\*\*

Top.....	OIL
Middle.....	OIL
Bottom.....	OIL
Sampler.....	OIL
Mud pit.....	200 000+ PPM NACL
Make-up Water..	200 000+ PPM NACL

GRIND-OUT:

\*\*\*\*\*

Top Rev. #1 - 90% oil  
9% paraffin  
1% basic solids

Rev. #5. - 93% oil  
6% paraffin  
1% basic solids

Sampler - 94% oil  
5% paraffin  
1% basic solids

BASIC EARTH SCIENCE SYSTEMS INC.

Page 1

DST #: 1  
GAME & FISH #34-3  
9229 - 9259ft.

GAS MEASUREMENTS  
\*\*\*\*\*

Device: FLOOR MANIFOLD

Riser: 0.0 in.

Bomb #:  
Sent to:

FLOW #	TIME (min)	READING(psi)	CHOKE (in)	McF/d
2	45	11.0	.250	38.2
2	50	12.0	.250	39.8
2	60	14.5	.250	43.4
2	70	16.0	.250	45.7
2	80	17.0	.250	47.1
2	90	23.0	.250	55.9

BIC EARTH SCIENCE SYSTEMS INC.  
DST #: 1  
GAME & FISH #34-3  
9229 - 9259ft.

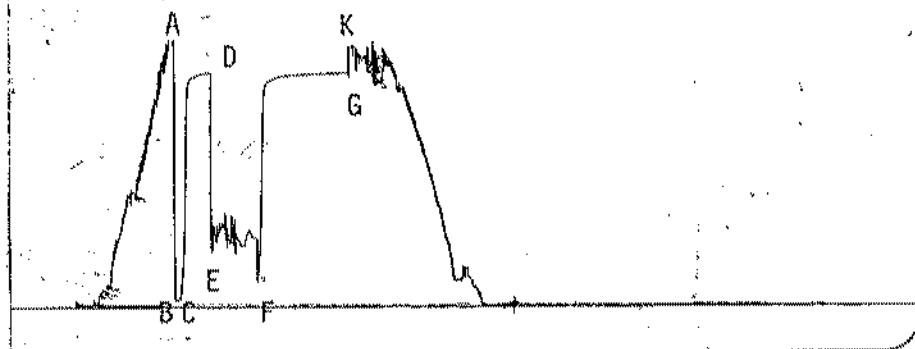
Page 1

PRESSURE RECORDER NUMBER : 20791

DEPTH : 9252.00ft. LOCATION : OUTSIDE  
TYPE : K-3 CAPACITY : 8850.00psi

PRESSURE  
psi

A)Initial Hydro : 5001.0  
B)1st Flow Start: 4458.0  
C)1st Flow End : 1054.0  
D)END 1st Shutin: 458.0  
E)2nd Flow Start: 4458.0  
F)Final Hydro. : 4964.0



TEST TIMES(MIN)

1st FLOW : 10  
SHUTIN: 60  
2nd FLOW : 90  
SHUTIN: 180



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

February 5, 1986



Mr. F. E. Wilborn  
Deputy Enforcement Officer  
North Dakota Industrial Commission  
Oil and Gas Division  
900 East Boulevard  
Bismarck, ND 58505

Re: Basic Game & Fish #34-3  
SW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 2, T153N, R101W  
McKenzie County, ND

Dear Mr. Wilborn:

Please find three copies each of the Well Completion Report, DST Report, Geologist Description and Logs for the above captioned well.

Please do not hesitate to contact me if you have any questions or need additional information.

Sincerely,

Basic Earth Science Systems, Inc.

*Jeffery E. Jones /JB*  
Jeffery E. Jones  
Vice President

JEJ:sg

encl.

cc: Corps of Engineers, Riverdale, ND  
#34-3 Distribution

11745

BASIC EARTH SCIENCE SYSTEMS, INC.

Game and Fish #48-3  
Sec. 2 and 3, T. 153 N., R. 101 W.  
McKenzie Co., North Dakota

John H. Rathbone CPGS 571  
Consulting Geologist  
444 Petroleum Building  
110 - 16th Street  
Denver, CO 80202

DATA SHEET

OPEATOR: Basic Earth Science Systems, Inc.  
44 Inverness Drive East, Building E  
Englewood, CO  
(P.O. Box 3088, Englewood, CO 80155)

WELL: Game & Fish #34-3

LOCATION: SE, SE Sec. 2, T. 153 N., R. 101 W  
McKenzie County, North Dakota  
Surface: 392 feet FSL, and 494 feet FWL Section 2,  
TD SW SW Sec. 3, T. 153N., R. 101 W., McKenzie County

ELEVATION: 1850' ground  
1872' kb (22 feet grd to kb)

SPUD: October 16, 1985, 7:30 AM

FINISH DRILLING: November 19, 1985

TD: 9720' board, 9717' logger, 9713' strap

TESTS: DST #1. 9229-9259' Nessin Mbr., Charles Formation

CASING: 9-5/8" at 2955'  
5-1/2 at 9702'

RIG: McKay Drilling Co., Rig #59  
National 80 B  
2 D-398 Cat engines  
Pumps:  
1. National G 1000 duplex  
2. Orlwall 22 P

Derrick:  
129' Lee C. Moore

PUSHER: Dick Rosendahl

MUD: Davis Mud Co., Wally Hapip.

MUDLOG: Greig Steiner and Eldon Troftgruben  
1 man unit

GEOLOGIST: John H. Rathbone  
Consulting Geologist, CPGS #571  
444 Petroleum Building  
110 - 16th Street  
Denver, CO 80202

## FORMATION TOPS (LOG)

Elevation 1872 ft

Greenhorn	4353
Muddy	4746
Dakota	5161
Piper	6246
Dunham	6562
Minnekahta	7036
Opeche	7094
Minnelusa	7369
Amsden	7656
Kibby L.S.	8136
Charles	8284
BLS	8998
Ratcliff	9022
Nesson	9236
Mission Canyon	9263

Note: As this was a directionally drilled hole, the formation tops are not at true vertical depth.

SAMPLE DESCRIPTION

8700 - 8710	Limestone: Brown, buff, micrite to chalky; occasionally finely pelletal, finely vuggy.	40
	Anhydrite: White, crystalline.	40
	Shale: Brown, red.	20
8710 - 8720	Limestone: Brown, occasionally buff, micrite, occasional pelmicrite to oolmicrite, varies to porous pelmicrite.	70
	Anhydrite: As above.	30
8720 - 8730	Limestone: As above.	60
	Anhydrite: White, very fine crystalline, to light buff.	40
8730 - 8740	Limestone: Brown, as above, to chalky, light buff, occasional vuggy streak.	70
	Anhydrite:	30
8740 - 8750		
8750 - 8760	Limestone: Brown, micrite to very fine pelmicrite. Latter porous. Anhydrite: White to buff, very fine crystalline to silky.	80
		20
8760 - 8770	After Trip. Limestone: Brown, micrite.	70
	Anhydrite: Light gray.	30
	Much cave, shale.	
8770 - 8780	Limestone: As above.	20
	Anhydrite:	80
8780 - 8790	Limestone: Brown, micrite, and porous oolitic.	30
	Anhydrite:	35
	Salt: In red shale.	15
	Much shale cave.	
8790 - 8800	Limestone: Light buff, chalky to brown, micrite. Some vuggy.	35
	Anhydrite: White crystalline, to buff, intermingled with limestone.	65
	Much cave.	

8800 - 8810	Limestone: Brown micrite; buff, light chalky; pelletal, porous in part. Anhydrite: White crystalline, brown and white, to brown. Some limey streaks. Much variegated shale, gray shale.	40 60
8810 - 8820	Limestone, brown, micrite, with lesser amounts of gray, granular to pelletal, latter with occasionally fine vuggy porosity. Anhydrite: As above.	60 40
8820 - 8830	Limestone: Brown to buff, micrite and pelmicrite, latter occasionally porous. Anhydrite: White, light buff, very fine crystalline to satin texture.	40 60
8830 - 8840	Limestone: As above. Anhydrite: As above. Salt. Shale: Variegated, red yellow.	10 50 10 30
8840 - 8850	Limestone: As above. Anhydrite: White, light brown, translucent, to soft white gummy. Shale: Variegated.	25 50 25
8850 - 8860	Limestone: Brown to buff to light chalky. Micrite mixed with anhydrite, rare pelletal. Anhydrite: As above. Shale: Variegated.	20 60 20
8860 - 8870	Limestone: As above. Anhydrite: As above.	40 60
8870 - 8880	Limestone: Brown, micrite, often streaked with anhydrite; occasionally oolitic. Anhydrite: White crystalline, to light buff. Shale: Variegated, cave, (and some off bottom?)	40 60
8880 - 8890	Limestone: As above. Anhydrite:	70 30
8890 - 8900	Limestone: Dark brown micrite, to light, chalky. Anhydrite: As above. (streak 8894-96 drilled as salt)	80 20

8900 - 8910	Limestone: Dark brown micrite, light gray, chalky, and occasional very pelletal. Anhydrite: White crystalline, to light gray, and buff. Shale: Soft, light gray, very limey to soft shaly limestone.	60 30 10
8910 - 8920	Limestone: As above. Anhydrite: White crystalline, and light gray.	40 60
8920 - 8930	Limestone: Brown micrite, to light gray chalky. Anhydrite: Light gray to white, translucent to crystalline.	60 40
8930 - 8940	Limestone: As above. Anhydrite:	50 50
8940 - 8950	As above.	
8950 - 8960	Limestone: As above. Anhydrite: As above.	40 60
8960 - 8970	Limestone: As above. Anhydrite: As above. Much cave. Some Salt. Drilled as salt.	
8970 - 8980	Anhydrite and salt.	
8980 - 8990	Salt, some anhydrite.	
8990 - 9000	As above.	
9000 - 9010	Dolomite: Brown, very fine crystalline. Anhydrite: Light gray, translucent, light buff. Limestone:	Tr 90 10
9010 - 9020	Dolomite: Buff, very fine crystalline, light gray brown, to micritic, anhydritic in part. Anhydrite: As above to soft, chalky.	30 70
9020 - 9030	Dolomite: Light buff, very fine crystalline to crypto-crystalline Anhydrite: As above.	30 70

9030 - 9040	Dolomite: Light buff, very fine crystalline, crypto-crystalline, to shaly. Anhydrite: Light buff, light gray, light brown, translucent, to white crystalline.	15 85
9040 - 9050	Limestone: Brown, pelletal. Anhydrite: As above.	15 85
9050 - 9060.	Limestone: brown, pelmicrite. Anhydrite:	5 95
9060 - 9070	Limestone: Brown, micritic, to some pelletal. Anhydrite:	70 95
9070 - 9080	Dolomite: Light gray brown, very fine crystalline, limey, tight. Limestone: Brown micrite to dark brown, mottled and pelletal. Anhydrite:	10 70 20
9080 - 9090	Limestone: Dark brown, very mottled, and micrite cut with calcite. Much pelletal. Much mineral fluorescence, no cut.	
9090 - 9100	Limestone: Brown, pelletal to irregular clasts, to oolitic; clear calcite infilling; very mottled, varies to chalky. Some mottled brown and chalky. Anhydrite: Some mineral fluorescence, no cut.	95 5
	Caught after trip, and reaming.	
9100 - 9110	Limestone: Brown, light brown, mottled, to chalky. Some pelletal, some dolomite crystals included. Fair cut after crushing a pinch of dry sample. Faint cut without crushing.	
9110 - 9117	Very fine fragments. Limestone: Dark brown, to light buff, to chalky. Micrite to very mottled. No visible porosity. Anhydrite: No cut.	95 5

9117 - 9130	Limestone: Brown and white mottled, clasts, and calcite, also some dolspar (traces). Some limy dolomite infilling. Scattered oolites. Anhydrite:	99+
9130 - 9140	Limestone: Brown and white, mottled, with anhydrite inclusions. Anhydrite: Find no cut.	70 30
9140 - 9145	Limestone: Brown and white, to buff, often anhydrite inclusions. Limestone: Buff and light buff, rather chalky, pelletal. Anhydrite: White crystalline. Find no cut.	20 50 30
9145 - 9150	Dolomite/Limestone: Dark brown, anhydrite infilling. Limestone: Brown, micritic, occasionally oolitic, much spar infilling, to chalky. Anhydrite: White, soft to crystalline. Faint cut (crushed, when wet)	10 70 20
9150 - 9155	Dolomite/Limestone: Dark brown, mix of crystalline dolomite, limestone clasts. Limestone: Brown to brown, micrite to clasts in spar, varies to light buff chalky. Anhydrite infilling. Anhydrite: Faint residual cut (wet pinch crushed).	10 75 15
9155 - 9160	Limestone: Buff, slightly chalky, pelletal to clasts, some anhydrite, tight, faint cut, crushed. Gas down to 10u at 9154.	
9160 - 9165	Dolomite/Limestone: Dark brown, very limy but crystalline in part. Anhydrite infilling. Limestone: Buff, as above. Some anhydrite. Anhydrite: No cut.	5 90 5
9165 - 9170	Dolomite/Limestone: Brown, dark brown, very fine crystalline, limestone fragments, clasts. No sucrosic. Some anhydrite. Limestone: Buff, mottled, finely pelletal. Anhydrite inclusions. Varies to chalky. Anhydrite:	5 5 5
9170 - 9175	Limestone: Very mottled, as above. Anhydrite: Dolomite/Limestone: Dark brown, as above.	80 15 5

## (Circulated at 9174)

9175 - 9180	Limestone: Brown to buff, very mottled, clasts, pellets, chalky in part. occasionally anhydrite infilling.	95
	Anhydrite: Light gray.	5
9180 - 9190	Limestone: As above, clasts in chalky matrix.	97
	Anhydrite:	3
9190 - 9200	Limestone: Brown, buff, to chalky, medium light gray, very mottled. Some anhydrite infilling.	
9200 - 9210	Limestone: Brown, dark brown, mottled, clasts pellets, as above, to darker. Very junky.	
9210 - 9220	Limestone: As above, very mottled.	
9220 - 9230	Limestone: As above.	99+
	Limestone: Dolomite, brown, gray, filled with very fine dolomite crystis. Tr	
9230 - 9240	Limestone: Brown, dark gray brown, dolomite, appearance of very fine crystalline, with clasts.	30
	Limestone: Brown, to buff, highly mottled, chalky zones. Faint residual cut.	70
9240 - 9245	Limestone: dolomite and argillaceous, dark brown, with many finely pyritic brown clasts.	45
	Limestone: Brown, to buff, very mottled, to white. Tight. Very faint cut.	55
9245 - 9250	Limestone: Dark gray brown, argillaceous in part, very mottled, varies to white, no visible porosity. Occasional nacaeous material.	
9250 - 9255	Limestone: Dark gray brown, argillaceous, etched shows limestone clasts, fragments, spicules. Faint residual cut from pinch of sample.	
9255 - 9260	Limestone: Dark gray brown, brown and white mottled, argillaceous in part, dolomitic in part.	
	Dry, shows occasional good vuggy porosity, with good cut. Pinch cut with dry sample gives good cut.	

30u/4u

DST #1

Trip gas 4000u

9260 - 9270 Limestone: Dark gray brown, mottled, dolomitic in part. Calcite fragments and clasts in argillaceous dolomite matrix.

Pinch of sample gives good cut.

9270 - 9280 Limestone: Dolomitic, dark gray brown, mottled, argillaceous in part. 20  
Limestone: Brown, brown and white, mottled, to micritic, to partly chalky. 80

Pinch of dry sample cuts freely. (Slow streaming cut.)

9280 - 9290 Limestone: Brown, buff, to chalky, mottled, clasts, no obvious porosity.

Pinch gives slow cut.

9290 - 9300 Limestone: Brown, buff, micritic to clasts in micrite.  
Varies to chalky.  
One fragment limestone with vuggy porosity.

9300 - 9310 Limestone: Buff, micrite, to chalky; also some clasts in chalky micrite.

9310 - 9320 Limestone: Medium gray brown, micritic to chalky.  
Some biomicrite, some pelletal.  
Don't find any cut (wet)

9320 - 9330 Much darker sample.  
Limestone: Very gray brown, micritic and argillaceous 45  
Limestone: Brown, buff, to chalky, to very mottled, clasts and pellets.  
Some oolspas. 55

9330 - 9340 Limestone: Dark brown to light buff, very mottled, rather soft, chalky  
with stylitic material. 80  
Limestone: Light gray, argillaceous, soft. 20

9340 - 9350 Limestone: Very dark brown, blotchy, clasts. 35  
Limestone: Medium to light buff, swirled, speckled, with inclusions of  
calcite. 65

9350 - 9360	Limestone: Very dark gray brown, argillaceous. Limestone: Medium to light buff, mottled, dark and medium clasts and fragments with chalky material.	50 50
9360 - 9370	Limestone: Dark gray brown, argillaceous, mottled. Limestone: Medium gray brown to light buff, very mottled, speckled, soft.	30 70
9370 - 9380	As above.	
9380 - 9390	As above, very mottled to speckled, with clasts, fragments, biodebris, in chalky to micritic matrix.	
9390 - 9400	Limestone: Gray brown to buff, very speckled, mottled; rather chalky matrix with clasts, fragments, lumps, biodebris.	
9400 - 9410	As above.	
9410 - 9420	Limestone: Medium dark gray brown, to light buff, very mottled. Micrite to soft, chalky, blotchy; fragments, pellets, clasts, with some biodebris.	
9420 - 9430	Limestone: Dark gray brown, to buff micrite. Limestone: Gray brown to very light, chalky, very mottled; clasts, fragments, pellets.	20 80
9430 - 9440	Limestone: Light gray brown to medium gray brown, chalky with dark micritic fragments. Mottled and chalky.	
9440 - 9450	As above.	
9450 - 9460	Limestone: Light to very light gray brown, chalky, mottled, blotchy, with fragments, biodebris; some dark fragments, some stylitic material (or possible dead oil).	
9460 - 9470	As above.	
9470 - 9480	As above, chalky, pelletal.	
9480 - 9490	As above.	
9490 - 9500	As above.	

9500 - 9510	Limestone: Light buff, chalky, pelletal, clasts, mottled and splotchy.	
9510 - 9520	Limestone: Light buff to light, medium gray brown, chalky, pelletal.	
9520 - 9530	Limestone: Light buff, to dark gray brown, chalky mottled with pellets, clasts, lumps, irregular fragments. Much stylitic material. Chert: Milky white.	99+ Tr
9530 - 9540	Limestone: Light buff to brown, chalky, very mottled, pelletal. Some white calcite. Some appears to be siliceous. Trace of anhydrite.	
9540 - 9550	Limestone: As above, chalky.	
9550 - 9560	Limestone: Light buff to brown, chalky, very mottled, pelletal, clasts.	
9560 - 9570	Limestone: As above.	
9570 - 9580	Limestone: As above. Some biodebris.	
9580 - 9590	Limestone: As above. Chert: Light gray, mottled, occasionally pyritic.	99+ Tr
9590 - 9600	Limestone: As above. Chert: Dirty gray brown.	99+ Tr
9600 - 9610	Limestone: Light to medium gray brown, mottled, as above.	
9610 - 9620	Limestone: As above, very pelletal. Slow cut, sample crushed.	
9620 - 9630	Limestone: As above, pelletal, and biodebris.	
9630 - 9640	Limestone: Medium dark brown, very pelletal, and mottled. Limestone: Very light mottled, chalky. Some biodebris. Occasionally siliceous. Dry pinch gives fair cut.	30 70
9640 - 9650	Limestone: Medium dark to light to white, mottled. Chalky to hard clasts, biodebris. Hard fragments appear to be siliceous. Pinch gives fair cut.	

9650 - 9660	Limestone: As above. Varies to dark gray brown, occasionally black (dead oil?) stain. Pinch gives a slow cut.	
9660 - 9670	Dolomite: Dark gray brown to light gray, limey, fine crystalline. Tight. 10 Limestone: As above. Pinch gives faint cut.	90
9670 - 9680	Dolomite: Medium dark gray brown to very light gray brown, limey in part. Appears tight. Very fine crystalline. Limestone: Light buff, to medium gray brown, very mottled to mottled fragments in chalk.	50
9680 - 9690	Dolomite: Limey, dark gray brown, very fine crystalline, very mottled. Limestone: Light buff, to off-white, very mottled, fragmental, to calcite, to chalky; also dark micrite fragments. Some biodebris. Slow to moderate cut from pinch.	20 80
9690 - 9700	Limestone: As above, occasionally dolomitic. Slow to moderate cut from pinch.	
9700 - 9710	Limestone: Very light to off-white, dolomitic in part, buff lumps and clasts, pellets in calcite to chalk. No visible porosity. Fair to good pinch cut.	
9710 - 9720	Limestone: As above, very mottled, dolomitic. Fair to good cut - dry pinch.	

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

WESLEY D. NORTON  
Chief Enforcement Officer

F. E. WILBORN  
Deputy Enforcement Officer

CLARENCE G. CARLSON  
Geologist

11745

CHARLES KOCH  
Engineering Dept.

DOREN DANNEWITZ  
Field Supervisor

KEN KALLESTAD  
Reclamation Sup.

February 11, 1986

Mr. Jeffery E. Jones  
Basci Earth Science Systems, Inc.  
P. O. Box 3088  
Englewood, Colorado 80155

RE: Basic Game & Fish #34-3  
BHL-SW SE Section 3-T153N-R101W  
McKenzie County, North Dakota  
Well File #11745

Dear Mr. Jones:

Please submit to this office in triplicate the Cyberlook, and Casing Collar Log & Perforating Record logs run on the above captioned location. Also, submit in triplicate the entire drill stem test report & charts, our office has received the front page of the drill stem test report #1. Thank you.

Sincerely,

*Connie M. Juenker*  
Connie M. Juenker  
Clerk II

cj

NORTH DAKOTA STATE INDUSTRIAL COMMISSION Oil and Gas Division 900 East Boulevard, Bismarck, ND 58505								Well File No. 11745 Date Issued 9/30/85
WELL COMPLETION OR RECOMPLETION REPORT (Submit in Triplicate)								Well Name & No. Basic Game & Fish #34-3
Designate type of completion OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SAME RESVR <input type="checkbox"/>								Spacing (Unit Description) 160 acres SE <sup>1</sup> Sec. 3, T153N, R101W
NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OTHER <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/>								Field Baker Pool Madison Wildcat Development Development County McKenzie
OPERATOR Basic Earth Science Systems, Inc.								<i>T16H</i>
ADDRESS P. O. Box 3088, Englewood, CO 80155								<i>HOL</i>
LOCATIONS (Show quarter-quarter, footages, and section, township and range.) At surface SW <sup>1</sup> , SW <sup>1</sup> , 392' FSD, 494' FWL, Sec. 2, T153N, R101W								
At top prod. interval, reported below SE <sup>1</sup> , SE <sup>1</sup> , 563' FEL, 535' FSL, Sec. 3, T153N, R101W								
At total depth SE <sup>1</sup> , 655' FEL, 543' FSL, Sec. 3, T153N, R101W								
Date Spudded 10/16/85	Date TD Reached 11/20/85	Date Comp.(ready to prod) 2/3/86	Elevation (KB,DF,GR) GR 1850	Total Depth (MD & TVD) 9596 TVD 9716' MD	Plug Back (TD,MD,TVD) 9561' MD			
PRODUCING INTERVAL(S), THIS COMPLETION, TOP, BOTTOM, NAME (MD & TVD) 9,234' - 9,254' 9,126' - 9,146 TVD Nesson				No. of DST's Run (see back) 1	Date Directional Survey Submitted N/A			
TYPE ELECTRIC AND OTHER LOGS RUN (See Instructions) DIL, FDC-CNL, CBL, BHC								Was Well Cored No
CASING RECORD (Report all strings set in well)								
Casing Size 9-5/8"	Depth Set (MD) 2,960'	Hole Size 12-1/4"	Weight Lbs./Ft. 36#	Sacks Cement 1,100 SX	Amount Pulled None			
5-1/2"	9,702'	8-3/4"	17#, 20#, 23#	122 SX	None			
LINER RECORD								TUBING RECORD
Size	Top (MD)	Bottom (MD)	Sacks Cement	Screen (MD)	Size	Depth Set (MD)	Packer Set (MD)	
					2-7/8"	9,225'	9,194'	
PERFORATION RECORD					ACID, SHOT, FBAC., CEMENT SQUEEZE, Etc.			
Depth Interval (MD) 9,234-9,254	Holes per ft. 4 JSPP	Size and Type .45 EHD	Purpose Production	Amt. & Kind of Material Used 71 bbl 15% HCL	Depth Interval (MD) 9,234-9,254'			
PRODUCTION								
Date First Production 1-19-86	Producing Method (Flowing, gas, lift, pumping.-size & type of pump) Flowing					Well Status (Prod. or shut-in) Producing		
Date of Test 2-3-86	Hours Tested 24	Choke Size 20/64	Production For Test 98	Oil, Bbls. 98	Gas, Mcf. 64	Water, Bbls. 0	Oil Gravity - API (Corr.) 31.4	
Flow, Tubing Press. 200	Casing Pressure 0	Calculated 24-Hour Rate	Gas, Mcf. 98	Water, Bbls. 0			Gas-Oil Ratio 653	
DISPOSITION OF OIL & GAS (Purchaser and Transporter) Oil - Koch Oil Company Gas - Flared Transporter - Matador								
Test Witnessed By Steve Poeckes								
LIST OF ATTACHMENTS								
DST Report, Geologist Description and Logs								
Over to Complete Form								

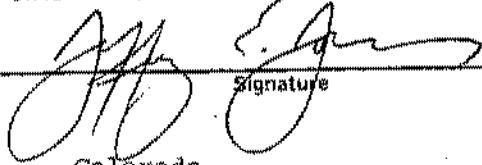
GEOLOGIC MARKERS

Name	Measured Depth of Formation	True Vertical Depth
Greenhorn	4353	4350
Muddy	4746	4736
Dakota	5161	5141
Minnelusa	7369	7305
Charles	8284	8202
BLS	8998	8792
Nesson	9236	9126

DRILL STEM TEST DATA

See attached report

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.



Signature

Vice President

2/5/86

Title

Date

State of Colorado )

) ss

County of Arapahoe )On this 5th day of February, 1986, before me personally appearedJeffery E. Jones to me known as the person described in and who executed the foregoing instrument

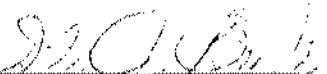
and acknowledged that (s)he executed the same as his/her free act and deed.

Notary  
Seal

Notary Public

State of Colorado County of ArapahoeMy Commission expires 10-21-88

Ila J. Beale


**INSTRUCTIONS**

1. Within thirty (30) days after the completion of a well, or recompletion of a well in a different pool, the original and three copies of this report must be filed with the North Dakota Industrial Commission, Oil and Gas Division.
2. Immediately after the completion or recompletion of a well in a pool or reservoir not then covered by an order of the commission, the original and three copies of this report must be filed with the North Dakota Industrial Commission, Oil and Gas Division.
3. The owner or operator shall file with the Oil and Gas Division three copies of the following: all logs run, drill stem test reports and charts, formation water analysis and noninterpretive lithologic logs or sample descriptions if compiled.



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

Basic Game & Fish #34-3  
SWSW Sec. 2, T153N, R101W  
T153N, R101W, McKenzie Co., ND

DST #1      Times:      10-60-90-180  
Interval:      9229-59'  
Formation:      Nesson  
Chokes:      1", downhole 3/4"

Opened @ 9:58 w/surface blow, 2" in 2 min., 6 min. 1#, 10 min. 2#. SI 60 min., died in 55 min. Reopen w/5" blow, 2 min. bottom of bucket, 10 min. 3#, 15 min. 5#, 30 min. 8#, 45 min. 11#, GTS 38.2 mcf, 50 min 12# 39.8 mcf, 60 min. intermittent condensate 14½# 43.4 mcf, 70 min. 16# 45.7 mcf, 80 min. 17# 47.1 mcf, 85 min. 20#, 90 min. 23# 55.9 mcf.

	TOP	LOWER
IHP	5000	5055
IF	126-133	130-156
ISIP	4447	4430
FF	378	390
FSIP	4459	4435
FHP	4988	5048

BHT 247°F

Recovery: 910' @ 6.5 bbls gas cut oil

Sampler: 2100 psi, 500 cc oil, 11.1 cf gas, GOR 3529:1, 1200 ppm H<sub>2</sub>S in sampler. Grind out of top sample - 90% oil, 9% paraffin, 1% BS; bottom sample - 93% oil, 6% paraffin, 1% BS, Sampler - 94% oil, 5 % paraffin, 1% BS.

## North Dakota State Industrial Commission

Oil and Gas Division

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA 58505

PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO  
TRANSPORT OIL FROM LEASE

Basic Game &amp; Fish

WELL #34-3 (SEC.) 2 (TWP.) 153N (RGE.) 101W COUNTY McKenzie

PRODUCER Basic Earth Science Systems, FIELD Wildcat POOL Madison  
Inc.

ADDRESS CORRESPONDENCE TO Jeffery E. Jones

STREET P.O. Box 3088 CITY Englewood STATE CO 80155

THE ABOVE NAMED PRODUCER HEREBY AUTHORIZES Koch Oil Co.

(Name of Purchaser)

WHOSE PRINCIPAL PLACE OF BUSINESS IS 1625 Broadway, Suite 1570, Denver, CO 80202  
(Street) (City) (State)

AND WHOSE FIELD ADDRESS IS Same

TO TRANSPORT 100 % OF THE OIL PRODUCED FROM THE LEASE DESIGNATED ABOVE UNTIL  
FURTHER NOTICETHE OIL WILL BE TRANSPORTED BY Matador Pipelines, Inc.  
(Name of Transporter)

OTHER PURCHASERS TRANSPORTING OIL FROM THIS LEASE ARE: None

(Name of Purchasers)	%	(Name of Purchasers)	%

REMARKS:

The undersigned certifies that the rules and regulations of the State Industrial Commission have been complied with except as noted above and that the purchaser is authorized to transport the above percentage of oil produced from the above described property and that this authorization will be valid until further notice to the purchaser named herein until canceled by the operator

Executed this 30th day of January, 19 86. Basic Earth Science Systems, Inc.  
(Company or Operator)

STATE OF COLORADO ) COUNTY OF ARAPAHOE )	ss	Signature	Title
		Jeffery E. Jones	Vice President

Before me the undersigned authority, on this day personally appeared Jeffery E. Jones, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 30th day of January, 19 86.

My Commission expires 10/21/88	Signature	Notary Public in and for the state of Colorado.
	Ila J. Beale	Notary Public in and for the state of Colorado.
Approved by: FELLMAN		FEB 3 1986
(Deputy Enforcement Officer)		(Date)

(Instructions Over)

North Dakota State Industrial Commission  
Oil and Gas Division

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA - 58505

**SUNDRY NOTICES AND REPORTS ON WELLS**

- |  |                                   |
|--|-----------------------------------|
| 1. Notice of Intention to Drill or Redrill | 7. Report of Casing               |
| 2. Notice of Intention to Change Plans     | 8. Report of Redrilling or Repair |
| 3. Notice of Intention to Pull Casing      | 9. Supplementary History          |
| 4. Notice of Intention to Abandon Well     | 10. Well Potential Test           |
| 5. Report of Water Shut-Off                | 11. Drilling Prognosis            |
| 6. Report of Shooting or Acidizing         | 12. Perforating & Prod. Casing    |

NAME OF LEASE Basic Game & Fish Date January 30, 1986  
 WELL NO. #34-3 Surface 392 ft. from (N) (S) line and 494 ft. from the (E) (W) line  
 of Section 2 Township 153N Range 101W in McKenzie  
 County, Wildcat Field Madison Pool. The elevation of the ground  
 is 1850 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

**(DETAILS OF WORK)**

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing,  
 indicate mud weights, cementing points, and all other details of work)

**"Tight Hole"**

Production Casing: Ran 238 jts. 17#, 20# and 23# casing. Cemented first stage w/  
 40 bbls. salt water followed by 24 bbls. N.W. flush ahead of 122  
 bbls. class G w/35% silica flour, .8% FL2, .2% R5, 10% salt &  
 1/2#/sx celloflake. Displaced w/188 bbls clean salt water. Bumped  
 plug to 3100 psi, held OK.

Perforating: Perf. 9,234'-9,254' w/4" csg. gun 4JSPF, set packer @ 9,194' w/  
 1 jt. 2-7/8" L-80 tbg. 31/74" long for tail-pipe. Acidize w/  
 71 bbl. 15% HCl followed by 53bbls. LW. Recovered 70 bbls LW &  
 acid w/54 bbls LW & acid LTR.

Company Basic Earth Science Systems, Inc.

Do not write in this space

Address P.O. Box 3088, Englewood, CO 80155

FEB 3 1986

19

By Jeffery E. Jones

By Jeffrey E. Jones

Title Vice President

Title Vice President

TECHNICAL SERVICES, Security Life Bldg. • Suite 1250 • 1818 Glenarm • Denver, Colorado 80202 • Phone. (303) 573-8027

11-15

Contractor, McKay Drilling  
Rig No. 59  
Spot --  
Sec. 9  
Twp. 158N  
Rng. 101W  
Field Skunk Hollow  
County McKenzie  
State North Dakota  
Elevation 1868.6 ft.  
Formation Mission Canyon

Top Choke 1"  
Bottom Choke 3/4"  
Size Hole 8 3/4"  
Size Rat Hole --  
Size & Wt. D. P. 4 1/2" XH 16,601  
Size WL Pipe --  
L.D. of D. C. 2 1/2"  
Length of D. C. 608 ft.  
Total Depth 9259 ft  
Interval Tested 9229-9259 ft  
Type of Test Bottom Hole  
Conventional

Flow No. 1 10 Min.  
Shut-in No. 1 60 Min.  
Flow No. 2 90 Min.  
Shut-in No. 2 180 Min.  
Flow No. 3 -- Min.  
Shut-in No. 3 -- Min.  
  
Bottom Hole Temp. 247°F  
Mud Weight 10.5#  
Gravity --  
Viscosity 37

Tool opened @ 11:00 a.m.

### Inside Recorder

PRD Make Kuster K-3  
No. 16815 Cap. 6100 P 9206

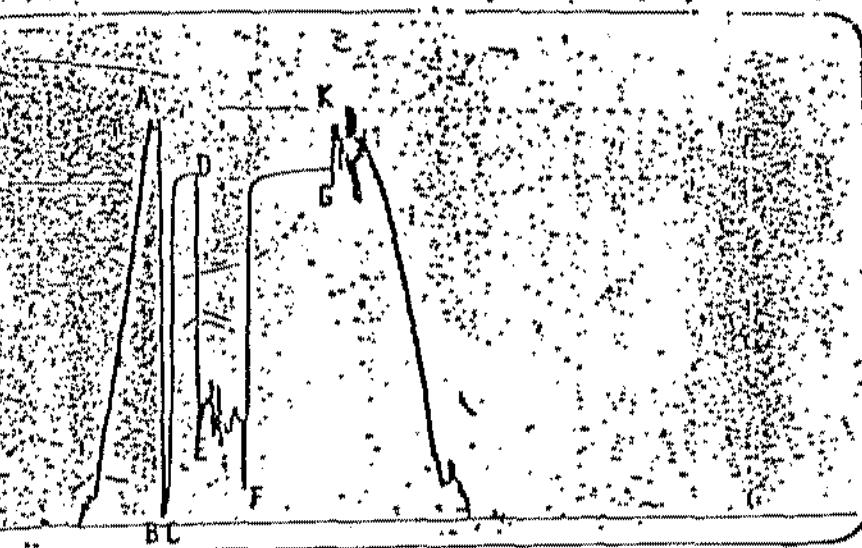
Prst	Corrected
Initial Hydrostatic A	4993
Final Hydrostatic K	4983
Initial Flow B	134
Final Initial Flow C	139
Initial Shut-in D	4442
Second Initial Flow E	1025
Second Final Flow F	426
Second Shut-in G	4442
Third Initial Flow H	--
Third Final Flow I	--
Third Shut-in J	--

Ticket No. 21965

Lynes Dist. Dickinson, ND  
Our Tester: Terry Tucker  
Witnessed By Tom Hopkin

Date 11-16-85

DST No. 1  
No. First Copies 17



Did Well Flow - Gas Yes on No Water No  
RECOVERY IN PIPE:

Ran 5 gallons ammonia inhibitor  
Test was reverse circulated

910.5 ft. Gas-cut oil = 7.28 Bbls

Blow Description:  
1st Flow Tool opened with a surface blow, increasing to 2 psi at the end of the flow.

2nd Flow: Tool opened with a 5" blow, increasing to 11 psi in 45 minutes with gas and condensate to surface (see gas report).

Comments: The test results indicate a mechanically successful test. Reservoir calculations are enclosed. Plugging action during the 2nd flow.

"TIGHT HOLE"



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

January 30, 1986



North Dakota Industrial Commission  
Oil & Gas Division  
600 East Boulevard  
Bismarck, ND 58505

Re: Basic Game & Fish #34-3  
Sec. 2, T153N, R101W  
McKenzie County, ND

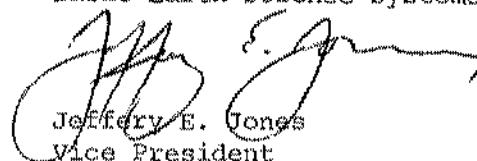
Gentlemen:

Enclosed please find a Sundry Notice detailing the setting of the Production Casing and Perforating and the Authorization to Transport Oil from Lease for the above referenced well.

Please do not hesitate to contact me if you need further information.

Sincerely,

Basic Earth Science Systems, Inc.



Jeffery E. Jones  
Vice President

JEJ:ak

Enclosures

cc: #34-3 Distribution

North Dakota State Industrial Commission  
Oil and Gas Division  
900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA 58505

**SUNDRY NOTICES AND REPORTS ON WELLS**

- |  |                                   |
|--|-----------------------------------|
| 1. Notice of Intention to Drill or Redrill | 7. Report of Casing               |
| 2. Notice of Intention to Change Plans     | 8. Report of Redrilling or Repair |
| 3. Notice of Intention to Pull Casing      | 9. Supplementary History          |
| 4. Notice of Intention to Abandon Well     | 10. Well Potential Test           |
| 5. Report of Water Shut-Off                | 11. Drilling Prognosis            |
| 6. Report of Shooting or Acidizing         | 12. Plugged Back                  |

NAME OF LEASE Basic Game & Fish Date October 28, 19 85

WELL NO. #34-3 is located 392 ft. from (N) (S) line and 494 ft. from the (E) (W) line  
of Section 2 Township 153N Range 101W in McKenzie  
County, Wildcat Field Red River Pool. The elevation of the ground  
is 1850 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

**(DETAILS OF WORK)**

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing,  
indicate mud weights, cementing points, and all other details of work)

**"Tight Hole"**

Drilled to 6307', TOH, last 3 cones from bit in hole.  
Plugged back well to 5450' to avoid time associated  
with fishing cones and to eliminate 30° of direction  
change that would have been required. Plug back well  
with 100 sacks class G dense cement with 1.25% D-65  
mixed to 17#/gal.

Company Basic Earth Science Systems, Inc.

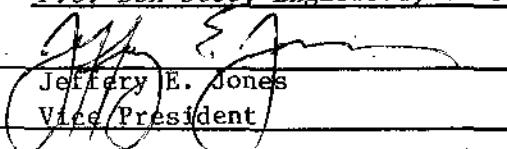
Do not write in this space

Address P.O. Box 3088, Englewood, CO 80155

Approved

NOV 1 1985

By

  
Jeffrey E. Jones  
Vice President

By

  
F. Ellsworth

Title



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

October 29, 1985

North Dakota Industrial Commission  
Oil & Gas Division  
900 East Boulevard  
Bismarck, North Dakota 58505

Re: Basic Game & Fish #34-3  
Sec. 3, T153N, R101W  
McKenzie County, ND  
Well File #11745

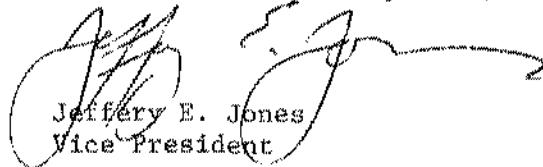
Gentlemen:

Enclosed please find a Sundry Notice submitted in triplicate detailing the plugging back of the above referenced well.

Please do not hesitate to contact me if you need any further information or have any questions.

Sincerely,

Basic Earth Science Systems, Inc.



Jeffery E. Jones  
Vice President

JEJ:sg  
encl.

TIGHT HOLEWell File No. 11745North Dakota State Industrial Commission  
Oil and Gas Division

900 EAST BOULEVARD • BISMARCK, NORTH DAKOTA • 58505

## SUNDRY NOTICES AND REPORTS ON WELLS

- |  |                                   |
|--|-----------------------------------|
| 1. Notice of Intention to Drill or Redrill | 7. Report of Casing               |
| 2. Notice of Intention to Change Plans     | 8. Report of Redrilling or Repair |
| 3. Notice of Intention to Pull Casing      | 9. Supplementary History          |
| 4. Notice of Intention to Abandon Well     | 10. Well Potential Test           |
| 5. Report of Water Shut-Off                | 11. Drilling Prognosis            |
| 6. Report of Shooting or Acidizing         | 12. Spud & Set & Cement Casing    |
- 

NAME OF LEASE Basic Game & Fish Date October 24, 1985WELL NO. #34-3 is located 392 ft. from (N) (S) line and 494 ft. from the (E) (W) line  
of Section 2 Township 153N Range 101W in McKenzieCounty, Wildcat Field Red River Pool, The elevation of the ground  
is 1850 feet above sea level.Name and Address of Contractor, or Company which will do work is: McKay Drilling Company, Inc.  
1675 Broadway, Suite 2340  
Denver, CO 80202

## (DETAILS OF WORK)

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing,  
indicate mud weights, cementing points, and all other details of work)

Spud well at 7:00 a.m. on 10/16/85, McKay Drilling Co., Rig #59.

Surface Casing: 78 jts. 36# K55 9-5/8", cemented w/850 sx light, 6% gall, 2% CaCl,  
1/4#/sx floccel. Tail in w/250 sx class G, 2% CaCl, 1/4#/sx celloseal.  
Displace w/227 bbls mud, good returns. Bump plug to 2000 psi, float  
held.Company Basic Earth Science Systems, Inc.

Do not write in this space

Address P.O. Box 3088, Englewood, CO 80155

Approved

OCT 29 1985

19

By

Jeffery E. Jones  
Jeffery E. Jones  
Vice President

By

F.E. Wilkinson

Title



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

October 25, 1985



North Dakota Industrial Commission  
Oil & Gas Division  
900 East Boulevard  
Bismarck, ND 58505

Re: Basic Game & Fish #34-3  
Sec. 3, T153N, R101W  
McKenzie County, ND  
Well File # 11745

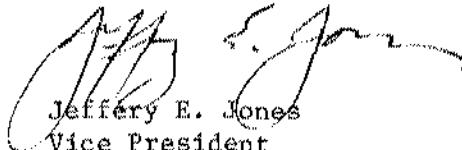
Gentlemen:

Enclosed please find a Sundry Notice submitted in triplicate detailing the spudding and setting of surface casing on the above referenced well. Please note that we have designated this well as a "Tight Hole" and request information on the Basic Game & Fish #34-3 be held in a confidential status.

Please do not hesitate to contact me if you need any further information or have any questions.

Sincerely,

Basic Earth Science Systems, Inc.



Jeffery E. Jones  
Vice President

JEJ:ak

Enclosure:

## North Dakota State Industrial Commission

Oil and Gas Division

900 EAST BOULEVARD • BISMARCK, NORTH DAKOTA 58505

## SUNDRY NOTICES AND REPORTS ON WELLS

- |  |                                   |
|--|-----------------------------------|
| 1. Notice of Intention to Drill or Redrill | 7. Report of Casing               |
| 2. Notice of Intention to Change Plans     | 8. Report of Redrilling or Repair |
| 3. Notice of Intention to Pull Casing      | 9. Supplementary History          |
| 4. Notice of Intention to Abandon Well     | 10. Well Potential Test           |
| 5. Report of Water Shut-Off                | 11. Drilling Prognosis            |
| 6. Report of Shooting or Acidizing         | 12. Well File Replacement         |
- 

NAME OF LEASE Basic Game & Fish Date October 23, 1985WELL NO. #34-3 is located 392 ft. from (N) (S) line and 494 ft. from the (E) (W) lineof Section 2 Township 153N Range 101W in McKenzieCounty, Wildcat Field Red River Pool. The elevation of the groundis 1850 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

## (DETAILS OF WORK)

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing.  
indicate mud weights, cementing points, and all other details of work)The Basic Game & Fish #14-2 well file #11751 is replaced by the Basic Game & Fish  
#34-3 well file #11745.

*CANCEL PERMIT #11751  
Per tele conversation  
w/Judy Burke 10/25/85*

Company Basic Earth Science Systems, Inc. Do not write in this spaceAddress P.O. Box 3088, Englewood, CO 80155 Approved OCT 25 1985 19       By Jeff E. Jones By F. WilliamsonTitle Jeffery E. Jones Title Vice President

NORTH DAKOTA INDUSTRIAL COMMISSION

11745

OIL AND GAS DIVISION

WESLEY D. NORTON  
Chief Enforcement Officer

F. E. WILBORN  
Deputy Enforcement Officer

CLARENCE G. CARLSON  
Geologist

CHARLES KOCH  
Engineering Dept.

DOREN DANNEWITZ  
Field Supervisor

KEN KALLESTAD  
Reclamation Sup.

October 25, 1985

Ms. Judy Burke  
Basic Earth Science Systems, Inc.  
P.O. Box 3088  
Englewood, Colorado 80155

Re: Confidential Well Status  
Basic Game & Fish #34-3  
SW SW 2-153N-101W, McKenzie Co.  
Permit #11745

Dear Ms. Burke:

Your request for confidential status of all information furnished to the Enforcement Officer, or his representatives, is hereby granted. Such information shall remain confidential for six months commencing on the date such information, except production data, is required by statute and rule to be filed.

If information obtained during the drilling of the well is to be confidential, the six months period begins on the date the well is spudded.

Confidential status notwithstanding, the Enforcement Officer and his representatives shall have access to all well records wherever located. Your company personnel, or any person performing work for your company, shall permit the Enforcement Officer and his representatives to come upon any lease, property, well, or drilling rig operated or controlled by them, complying with all safety rules, and to inspect the records and operation of such wells, and to have access at all times to any and all records of wells.

The Commission's field personnel periodically inspect producing and drilling wells. Any information regarding such wells shall be made available to them at any time upon request. The information so obtained by the field personnel shall be maintained in strict confidence, and shall be available only to the Commission, and its staff.

Sincerely yours,

*F. E. Wilborn*  
F. E. Wilborn  
Deputy Enforcement Officer

FEW:lb



Earth Science Systems, Inc.

11745

October 23, 1985

P.O. Box 3088  
Englewood, Colorado 80155  
(303) 792-5230

North Dakota Industrial Commission  
Oil and Gas Division  
900 East Boulevard  
Bismarck, ND 58505

Attention: Ms. Connie Junker



Re: Basic Game & Fish #34-3  
SW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 2, T153N, R101W  
McKenzie County, ND  
Well Permit No. 11745

Gentlemen:

Basic Earth Science Systems, Inc. requests that you place the above-referenced Basic Game & Fish #34-3 in a confidential status.

A Sundry Notice is enclosed indicating the replacement of the Basic Game & Fish #14-2 with the Basic Game & Fish #34-3. Please do not hesitate to contact me if you have any questions.

Sincerely,

Basic Earth Science Systems, Inc.

*Judy Burke*  
Judy Burke  
Production Secretary

JB

September 30, 1985

Ms. Judy Burke  
Basic Earth Science Systems, Inc.  
P.O. Box 3088  
Englewood, Colorado 80155

Dear Ms. Burke:

Check No. 2283 in the amount of \$100.00 was received.

Enclosed is Permit No. 11745, a Renewal, to drill the Basic Game & Fish #34-3 well, located in the SW SW of Section 2, T.153N., R.101W., McKenzie County, North Dakota.

It is requested that notification be given, immediately upon the spudding of the well. This information shall be relayed to the Oil and Gas Division, in Bismarck, via telephone. The following information should be included: well name, legal location, Permit Number, drilling contractor, company representative, and date and time of spudding. Office hours are 8:00 a.m. to 12:00 noon, and 1:00 p.m. to 5:00 p.m. Central Time. Our telephone number is Area Code 701, 224-2969.

Thank you for your cooperation.

Sincerely yours,

P. E. Wilborn  
Deputy Enforcement Officer

lb  
enc.

# NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

**WESLEY D. NORTON**  
Chief Enforcement Officer

**F. E. WILBORN**  
Deputy Enforcement Officer

**CLARENCE G. CARLSON**  
Geologist

**CHARLES KOCH**  
Engineering Dept.

**DOREN DANNEWITZ**  
Field Supervisor

**KEN KALLESTAD**  
Reclamation Sup.

September 30, 1985

Ms. Judy Burke  
Basic Earth Science Systems, Inc.  
P.O. Box 3088  
Englewood, Colorado 80155

Dear Ms. Burke:

Pursuant to Section 43-02-03-25 NDAC (as amended May 1, 1980), permission to deviate the wellbore of the Basic Game & Fish #34-3 well, Permit No. 11745, is hereby given.

The permission is granted on the condition that the wellbore of the well, having a surface location 392' from the south line and 494' from the west line of Section 2, T.153N., R.101W., McKenzie County, North Dakota, intersect all pay zones at a point that complies with the applicable spacing requirements. Also, a directional survey of the well showing the location of the wellbore shall be filed with the Industrial Commission within 30 days after completion of the well.

Sincerely yours,

*F.E. Wilborn*  
F. E. Wilborn  
Deputy Enforcement Officer

FEW:lb  
enc.

FORM 1

North Dakota State Industrial Commission  
Oil and Gas Division  
900 EAST BOULEVARD • BISMARCK, NORTH DAKOTA • 58505

APPLICATION FOR PERMIT TO DRILL

(File original and 3 copies with the Oil & Gas Division, 900 East Boulevard, Bismarck, North Dakota 58505)

Type of work: Drill new well \_\_\_\_\_, Reenter old well \_\_\_\_\_, Drill directional well  \_\_\_\_\_.

Type of well: Oil , gas \_\_\_\_\_, disposal \_\_\_\_\_, injection \_\_\_\_\_, others \_\_\_\_\_.

NAME OF OPERATOR: Basic Earth Science Systems, Inc.

ADDRESS: P. O. Box 3088, Englewood, CO 80155

NAME AND ADDRESS OF SURFACE OWNER OR TENNANT: North Dakota Game & Fish

WELL NAME AND NO.: Basic Game & Fish #34-3

LOCATION OF WELL: Qtr.-Qtr., SW<sub>1/4</sub> Sec., 12 Twp., 153N Rge., 101W COUNTY: McKenzie

Surface location is 392 feet from NW (S) section line and 494 feet and from NE (W) section line.

If directional, top of pay is 900 feet from NW (S) section line and 1350 feet and from (E) (W) section line. (Sec. 3)

Distance from proposed location to nearest spacing (drilling) unit line 900 ft.

Distance from proposed location to nearest permitted or completed well in the same pool is 4163 ft.

Acres in spacing (drilling) unit 320 Description of spacing unit is S<sub>1/4</sub>

ELEVATION: 1850 (GROUND) -- (GRADED) ESTIMATED TOTAL DEPTH: 13,600' TVD

PROJECTED HORIZON (Pool Name): Red River APPROXIMATE DATE WORK WILL START: 10/10/85

REMARKS: All pay zones will be penetrated at a point that complies with applicable spacing requirements. A directional survey of the well showing the location of the wellbore will be filed with the Industrial Commission within 30 days after completion of the well.

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records

Judy Burke  
Signature

Production Secretary

September 20, 1985

Date

STATE OF Colorado  
COUNTY OF Arapahoe ) SS

On this 20th day of September, 1985, before me personally appeared

Judy Burke to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Ila J. Burke  
Notary Public

October 21, 1988

My Commission expires

FOR STATE USE ONLY  
API NO. 33-053-02102

PERMIT NO. & WELL FILE NO. 11745

APPROVAL DATE: SEP 30 1985

BY: F. ELLIOTT, CDR

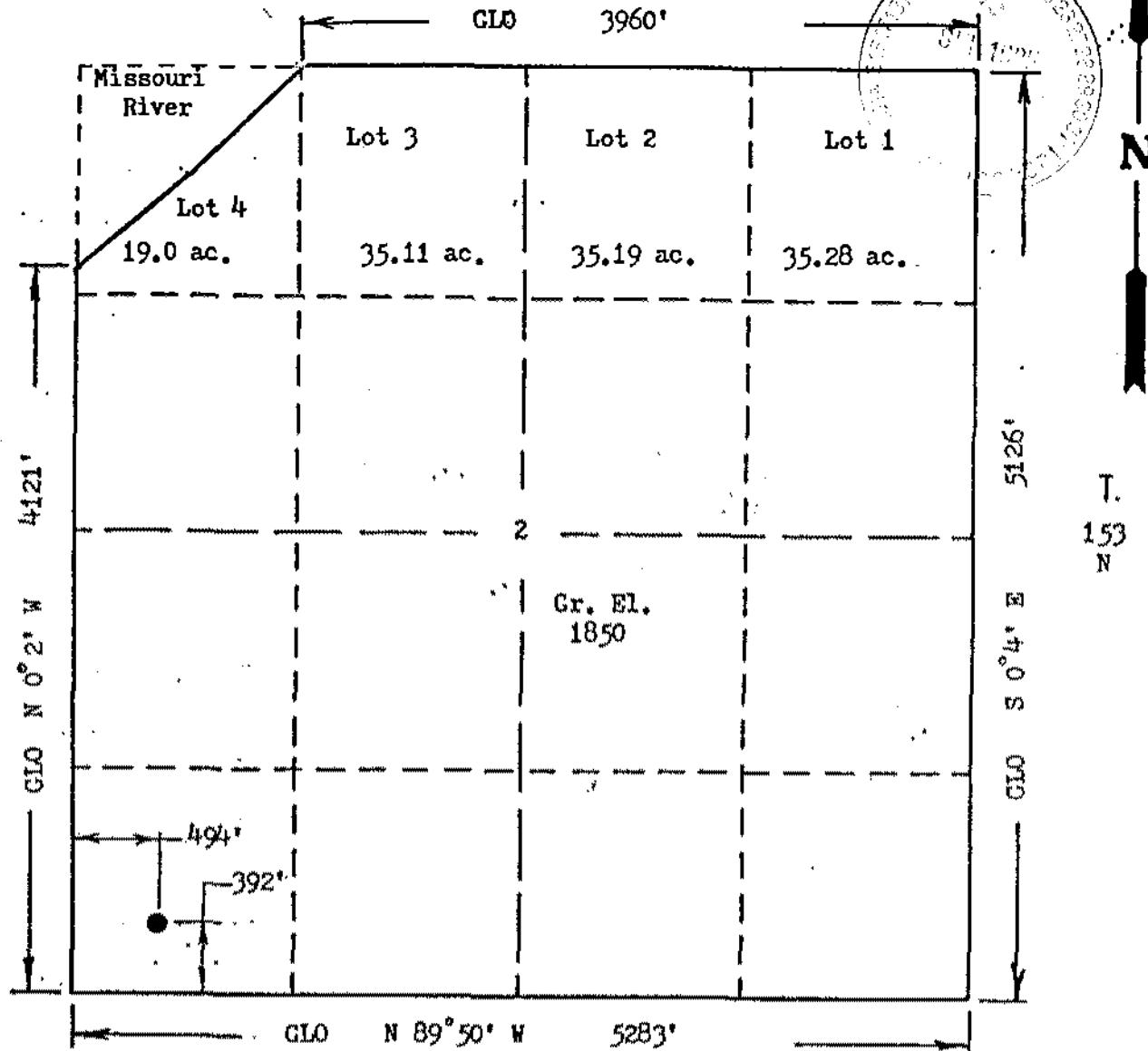
Notary  
Seal

(SEE INSTRUCTIONS ON REVERSE SIDE)

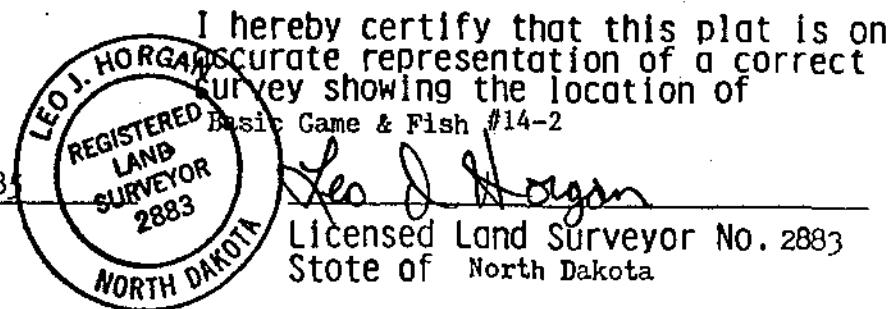


Form

R. 101 W



Powers Elevation of Denver, Colorado has in accordance with a request  
from Tom Hopkins for Basic Earth Science Systems Inc.  
determined the location of Basic Game & Fish #14-2  
to be 392' FS & 494' FW Section 2 , Township 153 N  
Range 101 West of the Fifth Principal Meridion,  
McKenzie County, North Dakota



## DRILLING PROGNOSIS

Basic Game & Fish #34-3  
SW $\frac{1}{4}$ SE $\frac{1}{4}$  Section 3-T153N-R101W  
Surface Location: 392'FSL & 494'FWL  
Top of Pay: 900'FSL & 1350'FEL  
McKenzie County, ND

### 1. Estimated Tops of Geological Markers

<u>Formation</u>	<u>True Vertical Depth</u>	<u>Subsea Depth</u>
Pierre Shale	1,580	+ 291
Niobrara	4,107	-2,236
Greenhorn	4,563	-2,692
Belle Fourche	4,607	-2,736
Mowry	4,777	-2,906
Muddy	4,954	-3,083
Dakota	5,357	-3,486
Morrison	5,832	-3,961
Swift	6,100	-4,229
Reardon	6,305	-4,434
Piper	6,487	-4,616
Spearfish	6,787	-4,916
Pine Salt	6,822	-4,951
Minnekahta	7,202	-5,331
Opeche	7,257	-5,386
Minnelusa	7,542	-5,671
Amsden	7,834	-5,963
Tyler	8,020	-6,149
T/Miss. Otter	8,142	-6,271
Kibbey	8,303	-6,432
Charles	8,452	-6,581
BLS	8,933	-7,061
Lodgepole	9,649	-7,777
Bakken	10,423	-8,551
Three Forks	10,496	-8,624
Nisku	10,685	-8,813
Duperow	10,784	-8,912
Souris River	11,243	-9,371
Dawson Bay	11,480	-9,608
Prairie Evap.	11,593	-9,721
Winnepegosis	11,788	-9,916
Ashern	11,987	-10,115
Interlake	12,102	-10,230
Stonewall	12,950	-11,078
Gunton	13,029	-11,157
Stoney Mt.	13,134	-11,262
Red River	13,190	-11,318
TD	13,600	

**DRILLING PROGNOSIS**  
Basic Game & Fish #34-3

**2. Proposed Casing Program**

<u>Size</u>	<u>Grade</u>	<u>Weight/Ft</u>	<u>Thread</u>	<u>Setting Depth</u>
9-5/8"	K-55	36#	ST&C	0-3000'
5-1/2"	L-80	23#	LT&C	0-2550'
5-1/2"	L-80	20#	LT&C	2550-6550'
5-1/2"	RS-90	23#	LT&C	6550-6750'
5-1/2"	L-80	20#	LT&C	6750-8200'
5-1/2"	RS-90	23#	LT&C	8200-8985'
5-1/2"	L-80	20#	LT&C	8985-11550'
5-1/2"	RS-90	26.4#	LT&C	11550-11850'
5-1/2"	L-80	23#	LT&C	11850-13600'

**5. Proposed Circulating Medium**

The type and characteristics of the proposed circulating mud system will be gel chemical/inverted with adequate stocks of sorptive agents and other materials on-site to handle any anticipated down hole problem, as well as possible spills of fuel and oil on surface.

<u>Depth</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Salinity</u>
0-2000	8.5-9.0	Sweeps	N/C	Fresh
2000-4950	8.7-9.5	Sweeps	N/C	Fresh
4950-5600	9.0-10.0	25-32	1/4 15	Fresh
5600-6600	9.5-10.2	25-35	1/4 30	Brine
6600-8450	9.5-10.6	32-50	1/4 30	Saturated
8450-9100	9.5-10.6	28-35	1/4 30	
9100-TD	9.5-10.6	28-50	1/4 12 for DST's	

The surface hole and first 3000' will be drilled with fresh water, using gel pills as needed to keep hole clean. The saturation of the mud will then be allowed to increase to saturated before drilling the Pine Salt at 6822'. The system will be kept salt saturated to TD.

**6. Testing, Logging and Coring Programs (Proposed, depending shows)**

- A. Drill Stem Tests will be made in any formation indicating commercial production.
- B. Logs run will be an Integrated Sonic Log from 2000' to total depth; a Dual Induction Log from surface to total depth; and a FDC/CNL Log from approximately 6000' to total depth.
- C. A two man mud logging unit will be on location from 8500' to TD.
- D. No cores are anticipated.
- E. We do not anticipate using fracture treatment.
- F. Directional surveys will be taken every 500' from surface to TD and the connection above any anticipated salts and the connection below the Pine and Charles salts.



Earth Science Systems, Inc.

P.O. Box 3088  
Englewood, Colorado 80155

September 20, 1985 (303) 792-5230



Mr. F. E. Wilborn  
Deputy Enforcement Officer  
North Dakota Industrial Commission  
Oil and Gas Division  
900 East Boulevard  
Bismarck, North Dakota 58505

Re: Basic Game & Fish #34-3  
SW $\frac{1}{4}$ SE $\frac{1}{4}$  Sec. 3, T153N, R101W  
McKenzie County, ND

Dear Mr. Wilborn:

Enclosed please find an original and three copies of an Application for Permit to Drill for the Basic Game & Fish #34-3 along with copies of the surveyor's plat and the drilling prognosis. This application for a directional well will replace the previously submitted application for the Basic Game & Fish #34-3. The permit fee of \$100 is attached to the application currently being held in your office.

Please do not hesitate to contact me if you need additional information or have any questions.

Sincerely,

Basic Earth Science Systems, Inc.

*Judy Burke*  
Judy Burke  
Production Secretary

JB

encl.

cc: Mr. Kemp Wilson, Crowley, Haughey, Hanson, Toole & Dietrich  
Mr. Harold Anderson, Pearce, Anderson, Durick



Well File No. 11745

North Dakota Industrial Commission  
Oil and Gas Division  
900 East Blvd., Bismarck, North Dakota 58505

## SUNDRY NOTICES AND REPORTS ON WELLS

- |  |   |
|--|---|
| 1. Notice of Intention to Drill or Redrill _____ | 7. Report of Casing _____                         |
| 2. Notice of Intention to Change Plans _____     | 8. Report of Redrilling or Repair _____           |
| 3. Notice of Intention to Pull Casing _____      | 9. Supplementary History _____                    |
| 4. Notice of Intention to Abandon Well _____     | 10. Well Potential Test _____                     |
| 5. Report of Water Shut-Off _____                | 11. Drilling Prognosis _____                      |
| 6. Report of Shooting or Acidizing _____         | 12. Rescind Application for Permit to Drill _____ |

NAME OF LEASEE Burk Date 9-26- , 19 85

WELL NO. 15-3 is located 250 ft. from the (S) line and 2171 ft. from the (E) (XX) line

of Section 3 Township 153 North Range 101 West in Mckenzie

County, \_\_\_\_\_ Field \_\_\_\_\_ Red River Pool. The elevation of the \_\_\_\_\_ KB

is \_\_\_\_\_ 1850 \_\_\_\_\_ feet above sea level.

Name and Address of Contractor, or Company which will do work is:

(DETAILS OF WORK)

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing, indicate mud weights, cementing points, and all other details of work)

NANCE PETROLEUM CORPORATION wishes to rescind its Application for Permit to Drill number 11745.

Company NANCE PETROLEUM CORPORATION

Do not write in this space

Address P. O. Box 2536, Billings, MT 59103

Approved 19

By *Dave George*

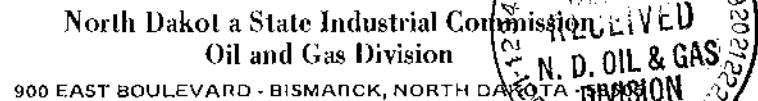
By 

Title Engineer

Title \_\_\_\_\_

(Instruction Over)

FORM 4



Well File No. 11111

## SUNDRY NOTICES AND REPORTS ON WELLS

- |  |       |                                   |       |
|--|-------|-----------------------------------|-------|
| 1. Notice of Intention to Drill or Redrill | _____ | 7. Report of Casing               | _____ |
| 2. Notice of Intention to Change Plans     | _____ | 8. Report of Redrilling or Repair | _____ |
| 3. Notice of Intention to Pull Casing      | _____ | 9. Supplementary History          | _____ |
| 4. Notice of Intention to Abandon Well     | _____ | 10. Well Potential Test           | _____ |
| 5. Report of Water Shut-Off                | _____ | 11. Drilling Prognosis            | _____ |
| 6. Report of Shooting or Acidizing         | _____ | 12. Well Name Change              | _____ |

NAME OF LEASE (Heen #15-3) Burk #15-3 Date September 10, 1985  
 WELL NO. #15-3 is located 250' ft. from the (E) (S) line and 2171 ft. from the (E) (W) line  
 of Section 3 Township 153 N Range 101 W in McKenzie  
 County,  Field Red River Pool. The elevation of the KB  
 is 1850 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

## (DETAILS OF WORK)

(State names of, and expected depth of objective sand; show sizes, weight, and lengths of proposed casing,  
 indicate mud weights, cementing points, and all other details of work)

The Application for Permit to Drill was submitted September 3, 1985 for the Heen #15-3, for directional 660 fsl and 1980 fel, placed on Heen Lease, at the request of the North Dakota State Industrial Commission due to spacing regulation, the revised APD submitted September 6, 1985, directional 1320 fsl and 1320 fel placed the well on the Burk Lease, therefore, this is to verify the name change from the Heen #15-3 to the Burk #15-3.

Company NANCE PETROLEUM CORPORATION  
 Address P. O. Box 2536 Billings, MT 59103  
 By Gary F. Evert  
 Title Engineer

Do not write in this space

Approved SEP 12 1985 19        
 By J.E. Williamson  
 Title

September 6, 1985

Mr. Gary L. Evertz  
Nance Petroleum Corporation  
P.O. Box 2536  
Billings, MT 59103

Dear Mr. Evertz:

Check No. 5496 in the amount of \$100.00 was received.

11745 B.R.K.  
Enclosed is Permit No. 11745 to drill the Bear #15-3 well, located in the SW SE of Section 3, T.153N., R.101W., McKenzie County, North Dakota.

It is requested that notification be given, immediately upon the spudding of the well. This information shall be relayed to the Oil and Gas Division, in Bismarck, via telephone. The following information should be included: well name, legal location, Permit Number, drilling contractor, company representative, and date and time of spudding. Office hours are 9:00 a.m. to 12:00 noon, and 1:00 p.m. to 5:00 p.m. Central Time. Our telephone number is Area Code 701, 224-2969.

Thank you for your cooperation.

Sincerely yours,

F. E. Wilborn  
Deputy Enforcement Officer

lb  
enc.

NORTH DAKOTA INDUSTRIAL COMMISSION  
OIL AND GAS DIVISION

WESLEY D. NORTON  
Chief Enforcement Officer

F. E. WILBORN  
Deputy Enforcement Officer

CLARENCE G. CARLSON  
Geologist

CHARLES KOCH  
Engineering Dept.

DOREN DANNEWITZ  
Field Supervisor

KEN KALLESTAD  
Reclamation Sup.

September 6, 1985

Mr. Gary L. Evertz  
Nance Petroleum Corporation  
P.O. Box 2536  
Billings, MT 59103

Re: Deviate Wellbore  
Heen #15-3

Dear Mr. Evertz:

Pursuant to Section 43-02-03-25 NDAC (as amended May 1, 1980), permission to deviate the wellbore of the Nance Petroleum #15-3-Heen well, Permit No. 11745, is hereby given. *BURK*

The permission is granted on the condition that the wellbore of the well, having a surface location 250' from the south line and 2171' from the east line of Section 3, T.153N., R.101W., McKenzie County, North Dakota, intersect all pay zones at a point that complies with applicable spacing requirements. Also, a directional survey of the well showing the location of the wellbore shall be filed with the Industrial Commission within 30 days after completion of the well.

Sincerely yours,

*F.E. Wilborn/H*  
F. E. Wilborn  
Deputy Enforcement Officer

FEW:lb  
enc.

NANCE PETROLEUM CORPORATION  
550 North 31st Street, Suite 500  
P.O. Box 2536  
Billings, Montana 59103  
406 / 245-6248



September 6, 1985

Mr. Jack Wilburn  
North Dakota State Industrial Commission  
Oil and Gas Division  
900 East Boulevard  
Bismarck, North Dakota 58505

Re: Application for Permit to Drill (Heen #15-3) Burk #15-3  
SWSE, Section 3, T153N, R101W  
McKenzie County, North Dakota

Dear Mr. Wilburn:

Enclosed is the revised APD for the reference location per our telephone conversation of this date.

Very truly yours,

NANCE PETROLEUM CORPORATION

*Gary L. Evertz*

Gary L. Evertz  
Engineer

jm

Enclosure

FORM 1

North Dakota State Industrial Commission  
Oil and Gas Division

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA - 58505



APPLICATION FOR PERMIT TO DRILL - REVISED

(File original and 3 copies with the Oil & Gas Division, 900 East Boulevard, Bismarck, North Dakota 58505)

Type of work: Drill new well \_\_\_\_\_, Reenter old well \_\_\_\_\_, Drill directional well  X \_\_\_\_\_.

Type of well: Oil  X, gas \_\_\_\_\_, disposal \_\_\_\_\_, injection \_\_\_\_\_, others \_\_\_\_\_.

NAME OF OPERATOR: NANCE PETROLEUM CORPORATION

ADDRESS: P. O. Box 2536, Billings, MT 59103

NAME AND ADDRESS OF SURFACE OWNER OR TENANT: North Dakota Fish and Game

WELL NAME AND NO.: Burk #15-3

LOCATION OF WELL: Qtr.-Qtr. SWSE Sec. 3 Twp. 153N Rge. 101W COUNTY: McKenzie

Surface location is 250 feet from (N) (S) section line and 2171 feet and from (E) (W) section line.

If directional, top of pay is 1320 feet from (N) (S) section line and 1320 feet and from (E) (W) section line.

Distance from proposed location to nearest spacing (drilling) unit line 250 ft.

Distance from proposed location to nearest permitted or completed well in the same pool is 4500 ft.

Acres in spacing (drilling) unit 320 Description of spacing unit is Section 3: E/2, T153N, R101W

ELEVATION: 1850 (GROUND) (GRADED) ESTIMATED TOTAL DEPTH: 13,500'

PROJECTED HORIZON (Pool Name): Red River APPROXIMATE DATE WORK WILL START: 12/1/85

REMARKS: Top of the pay at the Mission Canyon will be at least 500' fsl and 2140' fel.

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.

*Gary L. Evertz*  
Signature

Engineer

September 6, 1985

Date

STATE OF Montana }  
COUNTY OF Yellowstone } SS

On this 6th day of September, 1985, before me personally appeared Gary L. Evertz, to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

*Walter M. Daugherty*  
Notary Public

My Commission expires August 21, 1987

FOR STATE USE ONLY

API NO. 33-053-0102

PERMIT NO. & WELL FILE NO. 11793

Notary  
Seal

APPROVAL DATE: SEP 9 1985

BY: *Jeff Ohlman*

(SEE INSTRUCTIONS ON REVERSE SIDE)

FORM 1

North Dakota State Industrial Commission  
Oil and Gas Division

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA - 58505



APPLICATION FOR PERMIT TO DRILL

(File original and 3 copies with the Oil & Gas Division, 900 East Boulevard, Bismarck, North Dakota 58505)

Type of work: Drill new well \_\_\_\_\_, Reenter old well \_\_\_\_\_, Drill directional well  \_\_\_\_\_.

Type of well: Oil , gas \_\_\_\_\_, disposal \_\_\_\_\_, injection \_\_\_\_\_, others \_\_\_\_\_.

NAME OF OPERATOR: NANCE PETROLEUM CORPORATION

ADDRESS: P. O. Box 2536, Billings, MT 59103

NAME AND ADDRESS OF SURFACE OWNER OR TENANT: North Dakota Fish and Game

WELL NAME AND NO.: Horn #15-3

LOCATION OF WELL: Qtr.-Qtr., SWSE Sec., 3 Twp., 153N Rge., 101W COUNTY, McKenzie

Surface location is 250 feet from (N) (S) section line and 2171 feet and from (E) (W) section line.

If directional, top of pay is 660 feet from (N) (S) section line and 1980 feet and from (E) (W) section line.

Distance from proposed location to nearest spacing (drilling) unit line 250 ft.

Distance from proposed location to nearest permitted or completed well in the same pool is 4500 ft.

Acres in spacing (drilling) unit 320 Description of spacing unit is Section 3; E/2, T153N, R101W

ELEVATION: 1850 (GROUND) (GRADED) ESTIMATED TOTAL DEPTH:

PROJECTED HORIZON (Pool Name): Red River APPROXIMATE DATE WORK WILL START: 1 Dec 85

REMARKS:

I hereby swear or affirm that the information herein provided is true, complete and correct as determined from all available records.

Signature

Engineer

September 3, 1985

Date

STATE OF Montana)  
COUNTY OF Yellowstone)  
SS

On this 3rd day of September, 1985, before me personally appeared

Gary L. Evertz to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Notary Public

My Commission expires August 21, 1987

FOR STATE USE ONLY

API NO. 33-053-02102

PERMIT NO. & WELL FILE NO. 11745

Notary  
Seal

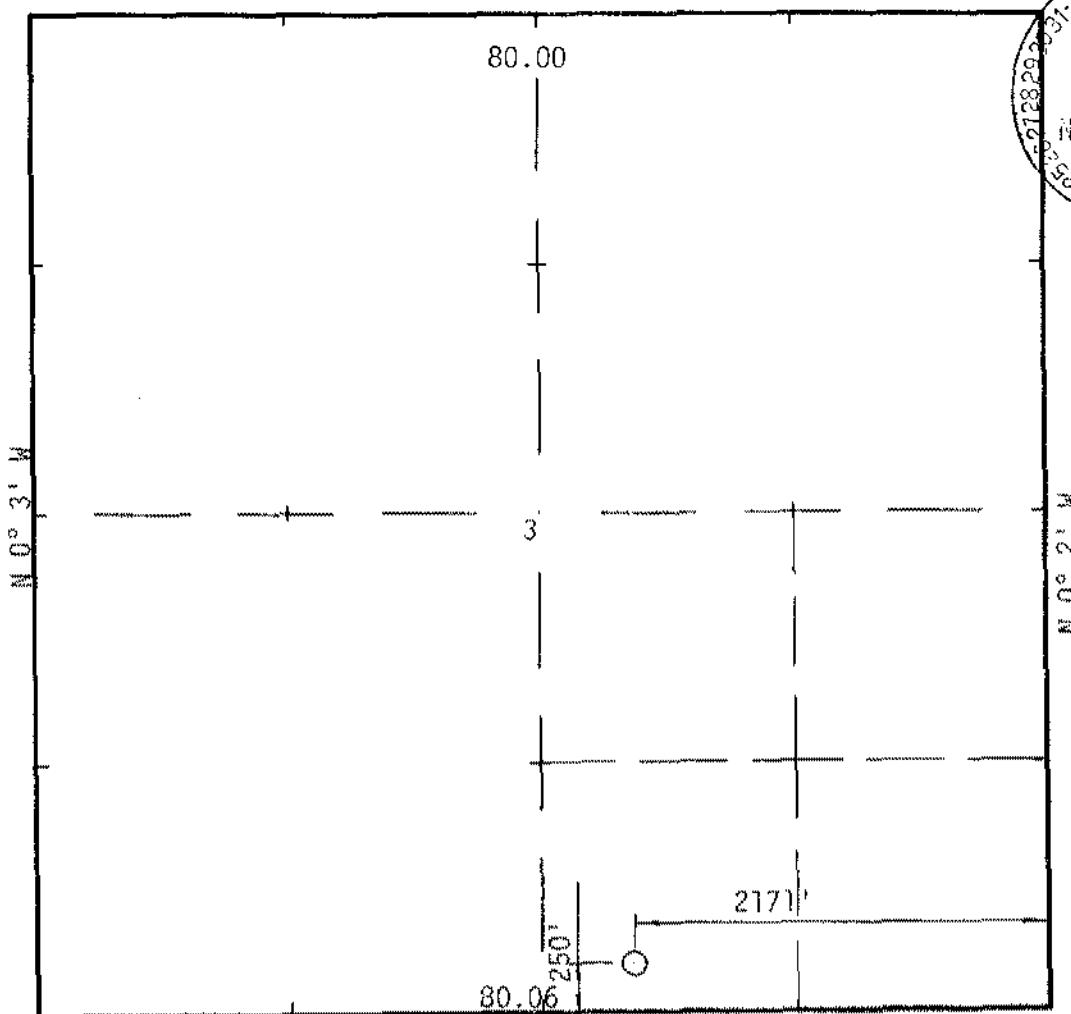
APPROVAL DATE: SEP 6 1985 6 1985

BY: PEL Olson

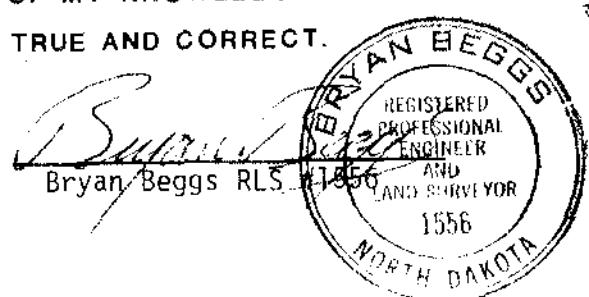
(SEE INSTRUCTIONS ON REVERSE SIDE)

UNGRADED GROUND ELEVATION: 1850'

DATE: August 20, 1985



I HEREBY CERTIFY THAT THIS PLAT  
WAS MADE FROM AN ACTUAL SURVEY  
DONE BY ME AND THAT TO THE BEST  
OF MY KNOWLEDGE SAID SURVEY IS  
TRUE AND CORRECT.



Bryan Beggs RLS #1556 AND LAND SURVEYOR 1556 NORTH DAKOTA

*Bork*  
WELL: Heen 15-3  
COMPANY: Nance Petroleum

QUARTER: SW<sub>1/4</sub> SECTION: 3  
TWP 153 N - R101 W  
COUNTY: McKenzie STATE: ND

- |  |  |
|--|--|
| <input type="radio"/> SET IRON PIN                         | <input checked="" type="radio"/> EXIST. IRON PIN |
| <input type="radio"/> BRASS CAP                            | <input type="checkbox"/> ORIGINAL STONE          |
| <input checked="" type="checkbox"/> ORIGINAL STONE & I. P. |  |

WEBSTER, FOSTER & WESTON  
CONSULTING ENGINEERS  
WILLISTON, NORTH DAKOTA

## DRILLING PROGNOSIS

OPERATOR: NANCE PETROLEUM CORPORATION  
 Lease & Well No.: ~~Lease #15-3~~  
 Location: (SWSE), 250<sup>4</sup> ft S1, 2171' fel. Section 3, T153N, R101E, McKenzie County,  
 North Dakota  
 Elev. Gr. 1850 Est. K.B. 1870 Est. Proposed TD: 13,500'

### ESTIMATED FORMATION TOPS

NAME	DEPTH	DATUM
Greenhorn	4345	-2475
Dunham Salt	6610	-4740
Pine Salt	7024	-5154
Millelusa	7370	-5500
Charles Salt	8295	-6425
Mission Canyon	9155	-7285
Bakken	10,425	-8555
Nisku	10,682	-8812
Dawson Bay	11,470	-9600
Inter Lake	12,070	-10,200
Red River	13,170	-11,300
Total Depth	13,500	

### CASING PROGRAM

SIZING	HOLE SIZE	AMOUNT	CASING	WEIGHT	GRADE	SEI AT	DEPTH	SACKS	CEMENT
Surface	12-1/4	3,000'	9-5/8"	36#	K-55	3000		1,000	
Production	8-3/4	13,500'	5-1/2"	17,20,23#	L/N-80	13,500		2,500	

REMARKS: Cmt 9-5/8" to surface. Cmt 5-1/2" across all productive zones and above  
 Dakota.

### MUD PROGRAM

DEPTH	TYPE	VIS.	WT.	W/L	SALINITY	ZOIL
0 -	3000' Fresh Wtr	30	8.4	No Control	--	--
3000 -	5100' Salt Wtr	28-30	9.2 - 9.7	" "	150,000	--
5100 -	8100' Salt Wtr	30-32	9.7 -10.2	20-25	250,000	--
8100 - 13,500'	Sat Slt Wtr	32-38	10.2 -10.4	20	320,000	--

### SAMPLE PROGRAM

Take 30' Samples from 7370 To 9000  
 And 10' Samples from 9000 To TD  
 Wash samples clean, tie with soft line and store in clean dry area.  
 Drill time to be recorded by Geograph from surface to total depth.

### LOGGING PROGRAM

COMPANY	TYPE	INTERVAL
DLL - GR		SC to TD
Sonic/GR		SC to TD
FIDC/CNL/GR		8900' to TD

(Or, as designated by wellsite geologist)

Deviation surveys: 1° Max on surface. Max 1°/1000' not to exceed 5° to TD

## CHECK SHEET

DATE: September 30, 1985

COMPANY: Basic Earth Science Systems, Inc.

WELL NAME: Basic Game & Fish #34-3

LOCATION: SW SW Sec. 2-153N-101W, McKenzie Co.

Permit Fee X

Application to Drill X

Organization Report X

\$100,000 Bond \_\_\_\_\_

\$50,000 Bond X

\$15,000 Bond \_\_\_\_\_

Certified Plat X

Notice of Intention to Drill X

Sundry Notice X

Completion Report X

Plugging Report \_\_\_\_\_

Authorization to Transport Oil X

DST Reports 1. enclosed. (2 pages)

Geological Reports ups. enclosed

Core Analysis Reports none

Logs Mud 11-29-85 CBL, FDL, DLL, PDC

PERMIT NO. 11745ISSUED: BTHC 2-7-86 Cypressbook 3-3-86  
RENEWAL Sept. 30, 1985

Status of Well: \_\_\_\_\_ Inspection Date: \_\_\_\_\_ Inspector: \_\_\_\_\_

Terrain: Tillable, Prairie, Badlands Type, other (circle one)

If Producer: Return check sheet promptly when reclamation is first noticed

If Plugged and Abandoned: Is drill site acceptable for bond release? Yes        No         
If no, please explain below.  
\_\_\_\_\_  
\_\_\_\_\_

Well file OK  
2-19-81  
JL

~~Missing~~  
~~Cyberlog~~  
~~Casper Well~~  
~~Casper Logs~~

~~Complete~~  
~~DST Report~~

## CHECK SHEET

DATE: September 30, 1985

COMPANY: Basic Earth Science Systems, Inc.

WELL NAME: Basic Game & Fish #34-3

LOCATION: SW SW Sec. 2-153N-101W, McKenzie Co.

Permit Fee X

Application to Drill X

Organization Report X

\$100,000 Bond \_\_\_\_\_

\$50,000 Bond X

\$15,000 Bond \_\_\_\_\_

Certified Plat X

Notice of Intention to Drill X

Sundry Notice \_\_\_\_\_

Completion Report \_\_\_\_\_

Plugging Report \_\_\_\_\_

Authorization to Transport Oil \_\_\_\_\_

DST Reports \_\_\_\_\_

Geological Reports \_\_\_\_\_

Core Analysis Reports \_\_\_\_\_

Logs \_\_\_\_\_

PERMIT NO. 11745 ISSUED: Sept. 30, 1985 RENEWAL

Status of Well: \_\_\_\_\_ Inspection Date: \_\_\_\_\_ Inspector: \_\_\_\_\_

Terrain: Tillable, Prairie, Badlands Type, other (circle one)

If Producer: Return check sheet promptly when reclamation is first noticed

If Plugged and Abandoned: Is drill site acceptable for bond release? Yes        No         
 If no, please explain below.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## CHECK SHEET

DATE:

September 6, 1985

FILE NO. 1174

COMPANY:

Nance Petroleum Corporation

WELL NAME:

PWRK  
Heen #15-3

LOCATION:

SW SE Sec. 3-153N-101W, McKenzie Co.

Permit Fee

Application to Drill

Amended

Organization Report

\$100,000 Bond

\$50,000 Bond

\$15,000 Bond

Certified Plat

Notice of Intention to Drill

Sundry Notice

XX

Completion Report

Plugging Report

Authorization to Transport Oil

DST Reports

Geological Reports

Core Analysis Reports

Logs

PERMIT NO. 1174

ISSUED: Sept. 6, 1985

Status of Well: \_\_\_\_\_ Inspection Date: \_\_\_\_\_ Inspector: \_\_\_\_\_

Terrain: Tillable, Prairie, Badlands Type, other (circle one)

If Producer: Return check sheet promptly when reclamation is first noticed

If Plugged and Abandoned: Is drill site acceptable for bond release? Yes \_\_\_\_\_ No \_\_\_\_\_  
If no, please explain below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Permit  
 Canceled  
 per Operator  
 Form 4 dated  
 9-26-85

## CHECK SHEET

DATE:	September 6, 1985	FILE NO. <u>11745</u>
COMPANY:	Nance Petroleum Corporation	
WELL NAME:	<u>BURK</u> <u>Horn #15-3</u>	
LOCATION:	SW SE Sec.3-153N-101W, McKenzie Co.	
Permit Fee	X	
Application to Drill	X	
Organization Report	X	
\$100,000 Bond		
\$50,000 Bond	X	
\$15,000 Bond		
Certified Plat	X	
Notice of Intention to Drill	X	
Sundry Notice		
Completion Report		
Plugging Report		
Authorization to Transport Oil		
DST Reports		
Geological Reports		
Core Analysis Reports		
Logs		

PERMIT NO. 11746 ISSUED: Sept. 6, 1985

Status of Well:                  Inspection Date:                  Inspector:

Terrain: Tillable, Prairie, Badlands Type, other (circle one)

If Producer: Return check sheet promptly when reclamation is first noticed

If Plugged and Abandoned: Is drill site acceptable for bond release? Yes \_\_\_\_\_

If no, please explain below.

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