

Well Integrity Report - Form 19 Summary

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840

Well File No. **90329**
UIC No. **W0437S0919D**

Test Date:	3/31/2020 10:58:29 AM	Contractor Performing Pressure Test:	Castle		
Operator:	OASIS PETROLEUM NORTH AMERICA LLC			Telephone :	2814049500
Address:	1001 FANNIN STE 1500	City:	HOUSTON	State:	TX Zip Code: 77002
Well Name:	CARSON SWD 5301 12-24			Field:	BAKER
Location:	Qtr-Qtr: NENW	Section: 24	Township: 153	Range: 101	Cnty: MCKENZIE

WELL TEST DATA

Formation:	DAKOTA		Perforations:	5950-7080	Feet
Tool Type:	PKR		Depth:	5821	Feet
Tubing Size:	4.5	Inches	Packer Model:	Nickle plated Arrowset	
Well Type:	Disposal Well	Reason for Test:	UIC MIT	Test Type :	5 Year MIT
BEFORE TEST			START of TEST		END of TEST
Tubing Pressure:	1400	PSIG	Flowing	1400	PSIG Flowing
Annulus or Casing Pressure:	0	PSIG		1000	PSIG
Annulus or Casing Fluid :	Treated Salt Water			Test Fluid:	Salt Water
Amount of Fluid Needed to Fill Annulus or Casing:	0.25	Bbls			
Test Length:	15	Minutes	Was Annulus or Casing Bleed to Zero After Test?:	Yes	If No - Pressure Left: <input type="text"/>

INSPECTION COMMENTS

Test Result:	Acceptable	Report of Work Done Required:	No
MIT passed with no pressure loss over 15 min, MIT due for 5 year test.			

This Report is true and complete to the best of my knowledge.

Company Representative Witnessing Test:	Joe Brock	Title:	SWD Field Foreman
Commission Field Inspector Witnessing Test:	William Ryan		

NDIC Initials

RECEIVED
AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - Form 8 50209

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

APR - 8 2019

Well File No.

90329

NDIC CTB No.

650209

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND FOUR COPIES.

Well Name and Number CARSON SWD 5301 12-24	Qtr-Qtr NENW	Section 24	Township 153	Range 101	County Mckenzie
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Operator Oasis Petroleum North America LLC	Telephone Number (281) 404-9573	Field BAKER
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Address 1001 Fannin, Suite 1500	City Houston	State TX	Zip Code 77002
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Name of First Purchaser Oasis Petroleum Marketing LLC	Telephone Number (281) 404-9627	% Purchased 100%	Date Effective January 1, 2019
Principal Place of Business 1001 Fannin, Suite 1500	City Houston	State TX	Zip Code 77002
Field Address	City	State	Zip Code
Transporter Power Energy Logistics, LLC	Telephone Number (512) 363-5296	% Transported 100%	Date Effective January 1, 2019
Address 1927 Lohmans Crossing Suite 103	City Lakeway	State TX	Zip Code 78734

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
		January 1, 2019
Other Transporters Transporting From This Lease	% Transported	Date Effective
		January 1, 2019
Other Transporters Transporting From This Lease	% Transported	Date Effective
		January 1, 2019
Other Transporters Transporting From This Lease	% Transported	Date Effective
		January 1, 2019
Comments		

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Date April 3, 2019
Signature 	Printed Name Claudia Arguelles Title Contracts Administrator

Above Signature Witnessed By:	Printed Name Kenzie Buchanan	Title Scheduler
Signature 		

FOR STATE USE ONLY

Date Approved APR 11 2019
By
Title Oil & Gas Production Analyst



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/

90329

May 11, 2016

RE: Saltwater Disposal Well Reporting and Monitoring Requirements

Dear Saltwater Disposal Operator:

This letter is to outline and clarify the Commission's requirements for monthly reporting and monitoring of saltwater disposal wells which are outlined under North Dakota Administrative Code (NDAC) Section 43-02-05-12, and the type of wastes that can be injected pursuant to the EPA guidelines for Exempt and Non-Exempt Oil and Gas Exploration and Production Wastes.

All injection into a saltwater disposal well must be measured, either through a meter or by an approved method. Accurate gauges must be placed on the tubing and tubing-casing annulus of the well for pressure monitoring. Any noncompliance with regulations or permit conditions must be reported to the Commission orally within 24 hours followed by a written explanation within 5 days.

Monthly reporting of the following information is required to be submitted for a saltwater disposal well on a Saltwater Disposal Report (Form 16):

1. Beginning and end of month meter readings.
2. Total barrels injected for the month.
3. Average daily operating injection pressure (this means a typical pressure observed while the well is injecting, not a mathematical average).
4. Sources of received fluid (these sources need to be listed by well or facility name and number, NDIC well or facility file number, and the location of each source by quarter-quarter, section, township, and range).
5. Amount of fluid received from each source.
6. Nature of the received fluid (i.e. produced water, pit water, etc.).
7. Transportation method used to transport the injection fluid to the disposal well site (i.e. pipeline or truck).

Saltwater Disposal Reports (Form 16) are due on or before the fifth day of the second month succeeding the month in which the well is capable of disposal (i.e. January report due March 5th).

Pursuant to NDAC Section 43-02-05-13.1, all records from which to make and substantiate required reports shall be kept for a period of not less than six years.

May 11, 2016

Saltwater Disposal Well Reporting and Monitoring Requirements

Page 2 of 2

The NDIC abides by the Environmental Protection Agency guidelines for Exempt and Non-Exempt Oil and Gas Exploration and Production Wastes to determine what wastes can be accepted for disposal from oil and gas exploration and production operations. Attached is an example list of exempt and non-exempt oil and gas exploration and production wastes along with a flow chart for determining the status of a waste.

The operator is only authorized to inject Class II fluids into a saltwater disposal well. Class II fluids are generally defined as follows:

1. Produced water from oil and gas production.
2. Waste fluids from actual drilling operations.
3. Used workover, completion, and stimulation fluids recovered from production, injection, and exploratory wells.
4. Waste fluids from circulation during well cementing.
5. Pigging fluids from cleaning of collection and injection lines within the field.
6. Enhanced recovery waters including fresh water makeup and other waters containing chemicals for the purpose of enhanced recovery.
7. Gases used for enhanced recovery/pressure maintenance of production reservoirs.
8. Brine reject from water softeners associated with enhanced recovery.
9. Waste oil and fluids from clean up within the oil field.
10. Waste water from gas plants which are an integral part of production operations unless those waters are classified as hazardous waste at the time of injection.

The following fluids are non-exempt fluids and are not authorized to be injected into a Class II saltwater disposal well:

1. Unused fracturing fluids or acids.
2. Vacuum truck and drum rinsate from trucks and drums containing non-exempt waste.
3. Refined gasoline or diesel fuels.
4. Used equipment lubricating oils.
5. Refinery wastes.
6. Radioactive tracer wastes.
7. Car wash wastes.

Please distribute this letter and the attachment to the appropriate personnel responsible for reporting on and monitoring each saltwater disposal well your company operates. If you have any questions, do not hesitate to contact me.

Sincerely,

Ashleigh Day
Underground Injection Supervisor

Well Specific Stabilizations

Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units Barrels
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)			Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)			Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)			Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)			Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)			Maximum Treatment Rate (BBLS/Min)	
Details							

ADDITIONAL INFORMATION AND/OR LIST OF ATTACHMENTS

This report has been amended to correct the MD of the Dakota top.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Email Address jswenson@oasispetroleum.com	Date 09/23/2015
Signature 	Printed Name Jennifer Swenson	Title Regulatory Specialist



19510 Oil Center Blvd
Houston, TX 77073
Bus 281.443.1414
Fax 281.443.1676

Monday, April 27, 2015

State of North Dakota

Subject: **Surveys**

Re: **Oasis**
Carson SWD 5301 12-24
McKenzie, ND

Enclosed, please find the original and one copy of the survey performed on the above-referenced well by Ryan Directional Services, Inc.. Other information required by your office is as follows:

Surveyor Name	Surveyor Title	Borehole Number	Start Depth	End Depth	Start Date	End Date	Type of	TD Straight Line Projection
Daniel Ogden	MWD Operator	O.H.	2210'	7163'	04/15/15	04/18/15	MWD	7217'

If any other information is required please contact the undersigned at the letterhead address or phone number.

A handwritten signature in black ink that reads "Douglas Hudson".

Douglas Hudson
Well Planner



RYAN DIRECTIONAL SERVICES, INC.
A NABORS COMPANY

Ryan Directional Services, Inc.
19510 Oil Center Blvd.
Houston, Texas 77073
Bus: 281.443.1414
Fax: 281.443.1676

Saturday, April 18, 2015

State of North Dakota
County of McKenzie

Subject: **Survey Certification Letter**

Survey Company: **Ryan Directional Services, Inc.**

Job Number: **8858**

Surface: **404279.54 N, 1206936.03 E**

Survey Job Type: **Ryan MWD**

A.P.I. No: **33-053-90329**

Customer: **Oasis Petroleum**

Location: **McKenzie, North Dakota**

Well Name: **Carson SWD 5301 12-24**

RKB Height: **2109'**

Rig Name: **Nabors B27**

Distance to Bit: **54'**

<i>Surveyor Name</i>	<i>Surveyor Title</i>	<i>Borehole Number</i>	<i>Start Depth</i>	<i>End Depth</i>	<i>Start Date</i>	<i>End Date</i>	<i>Type of</i>	<i>TD Straight Line Projection</i>
Daniel Ogden	MWD Supervisor	OH	2273'	7163'	04/14/15	04/18/15	MWD	7217'

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Ryan Directional Services, Inc. I am authorized and qualified to review the data, calculations and these reports; the reports represents true and correct Directional Surveys of this well based on the original data, the minimum curvature method, corrected to True North and obtained at the well site.


Daniel Ogden
MWD Supervisor
Ryan Directional Services, Inc.



SURVEY REPORT

Customer: Oasis Petroleum
 Well Name: Carson SWD 5301 12-24
 Rig #: Nabors B27
 API #: 33-053-90329
 Calculation Method: Minimum Curvature Calculation

MWD Operator: D. Foley / D. Ogden
 Directional Drillers: RPM
 Survey Corrected To: True North
 Vertical Section Direction: 180
 Total Correction: 8.20
 Temperature Forecasting Model (Chart Only): Logarithmic

Survey #	MD	Inc	Azm	Temp	TVD	VS	N/S	E/W	DLS
61	5764	72.10	181.30	122.00	5485.04	621.16	-621.16	-28.77	1.36
62	5858	71.50	179.90	129.00	5514.40	710.45	-710.45	-29.71	1.55
63	5952	72.10	179.70	131.00	5543.76	799.75	-799.75	-29.40	0.67
64	6047	71.40	178.50	132.00	5573.51	889.96	-889.96	-27.98	1.41
65	6141	70.30	178.50	134.00	5604.35	978.72	-978.72	-25.66	1.17
66	6235	70.00	178.40	134.00	5636.27	1067.11	-1067.11	-23.26	0.33
67	6329	69.90	178.50	134.00	5668.50	1155.38	-1155.38	-20.88	0.15
68	6424	71.30	178.20	136.00	5700.05	1244.94	-1244.94	-18.29	1.50
69	6518	71.20	178.20	134.00	5730.26	1333.91	-1333.91	-15.50	0.11
70	6611	72.30	178.40	138.00	5759.39	1422.19	-1422.19	-12.88	1.20
71	6705	72.80	178.40	140.00	5787.58	1511.83	-1511.83	-10.38	0.53
72	6799	69.80	178.40	141.00	5817.71	1600.82	-1600.82	-7.89	3.19
73	6894	71.10	178.40	143.00	5849.50	1690.31	-1690.31	-5.39	1.37
74	6988	71.80	178.00	143.00	5879.40	1779.38	-1779.38	-2.59	0.85
75	7082	72.80	177.70	143.00	5907.98	1868.87	-1868.87	0.77	1.11
76	7163	69.10	178.30	145.00	5934.42	1945.37	-1945.37	3.45	4.62
Projection	7217	69.10	178.30	145.00	5953.68	1995.80	-1995.80	4.94	0.00

Well Specific Stimulation

Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units Barrels
Type Treatment	Sand Frac	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Sand Frac	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Sand Frac	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Sand Frac	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details							
Date Stimulated	Stimulated Formation		Top (Ft)	Bottom (Ft)	Stimulation Stages	Volume	Volume Units
Type Treatment	Sand Frac	Acid %	Lbs Proppant	Maximum Treatment Pressure (PSI)		Maximum Treatment Rate (BBLS/Min)	
Details							

ADDITIONAL INFORMATION AND/OR LIST OF ATTACHMENTS

This is a preliminary completion report. A supplemental report will be filed upon first production of the well.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.	Email Address jswenson@oasispetroleum.com	Date 06/25/2015
Signature 	Printed Name Jennifer Swenson	Title Regulatory Specialist



SUNDRY NOTICES AND REPORTS ON WELLS - FORM A

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.
90329



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 June 18, 2015	<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	Injection Start Date for SWD Well

Well Name and Number CARSON SWD 5301 12-24					
Footages	Qtr-Qtr	Section	Township	Range	
584 F N L	2477 F W L	NENW	24	153 N	101 W
Field	Pool		County		
Baker	Dakota		McKenzie		

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

Name of Contractor(s)			
Address		City	State
			Zip Code

DETAILS OF WORK

Oasis Petroleum North America, LLC respectfully informs the NDIC that first injection for the subject Salt Water Disposal Well occurred on June 18, 2015.

* Submit a Form 6 Well Completion Report (KCC)

Company Oasis Petroleum North America, LLC		Telephone Number (713) 770-6430
Address 1001 Fannin Suite 1500		
City Houston		State TX Zip Code 77002
Signature 	Printed Name David Copeland	
Title Regulatory Specialist	Date June 24, 2015	
Email Address dcopeland@oasispetroleum.com		

FOR STATE USE ONLY	
<input checked="" type="checkbox"/> Received *	<input type="checkbox"/> Approved
Date 6/26/15	
By 	
Title KEVIN CONNORS UNDERGROUND INJECTION SUPERVISOR	

Well Integrity Report - Form 19 Summary

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840

Well File No. **90329**
UIC No. **W0437S0919D**

Test Date:	5/5/2015 11:13:32 AM	Contractor Performing Pressure Test:	Castle Oilfield Service		
Operator:	OASIS PETROLEUM NORTH AMERICA LLC			Telephone :	2814049500
Address:	1001 FANNIN STE 1500	City:	HOUSTON	State:	TX Zip Code: 77002
Well Name:	CARSON SWD 5301 12-24			Field:	BAKER
Location:	Qtr-Qtr:	NENW	Section:	24	Township: 153 Range: 101 Cnty: MCKENZIE

WELL TEST DATA

Formation:	DAKOTA		Perforations:	5950 - 7080 Feet				
Tool Type:	PKR	Depth:	5821	Feet	Packer Model:	Nickle plated Arrowset		
Tubing Size:	4.5	Inches			Tubing Type:	11.6 # J-55 Polycore		
Well Type:	Disposal Well	Reason for Test:	UIC MIT		Test Type :	Initial MIT		
BEFORE TEST			START of TEST			END of TEST		
Tubing Pressure:	0 PSIG	Shut In	0 PSIG	Shut In	0 PSIG	Shut In		
Annulus or Casing Pressure:	0 PSIG		1000 PSIG		960 PSIG			
Annulus or Casing Fluid :	Treated Salt Water			Test Fluid:	Treated Salt Water			
Amount of Fluid Needed to Fill Annulus or Casing:	1.25		Bbls					
Test Length:	15	Minutes	Was Annulus or Casing Bleed to Zero After Test?:	Yes	If No - Pressure Left:			

INSPECTION COMMENTS

Test Result:	Acceptable	Report of Work Done Required:	Yes
MIT passed. Perfs, 7040-7010, 6970-7010, 6879-6894, 6820-6840, 6664-6679, 6597-6612, 6140-6170, 5950-5990. Pressure test three times.			
Submit Form 6 Completion Report. Due within 30 days after well completion (KCC) Submit Form 4 Sundry Notice date of first injection when applicable (KCC)			

This Report is true and complete to the best of my knowledge.

Company Representative Witnessing Test:	Josh Trowbridge	Title:	Rig Supervisor
Commission Field Inspector Witnessing Test:	Richard Ryan		

NDIC Initials

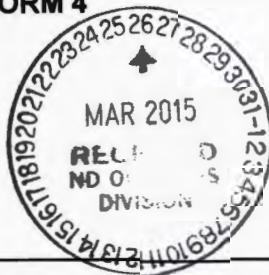
KCC



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.
90329



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date April 15, 2015	<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	Change to Original APD

Well Name and Number
Carson SWD 5301 12-24

Footages	584 F N L	2477 F W L	Qtr-Qtr NENW	Section 24	Township 153 N	Range 101 W
Field	Baker	Pool	Dakota		County	McKenzie

24-HOUR PRODUCTION RATE

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

Name of Contractor(s)

Address

City

State

Zip Code

DETAILS OF WORK

Oasis Petroleum respectfully requests approval to make the following changes to the above permit:

Surface casing design:

Intermediate Casing of 7" with weight of 32# (previously weight 26#)

Company Oasis Petroleum North America LLC	Telephone Number (281) 404-9500	
Address 1001 Fannin Suite 1500		
City Houston	State TX	Zip Code 77002
Signature 	Printed Name Victoria Siemieniewski	
Title Regulatory Specialist	Date March 23, 2015	
Email Address vsiemieniewski@oasispetroleum.com		

FOR STATE USE ONLY

<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 3/30/2015	
By 	
Title KEVIN CONNORS	
UNDERGROUND INJECTION SUPERVISOR	



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/

PERMIT FOR FLUID INJECTION

OPERATOR: Oasis Petroleum North America, LLC

ADDRESS: 1001 Fannin, Suite 1500 Houston, TX 77002

WELL NAME & NO.: Carson SWD 5301 12-24

LOCATION: NENW Section 24, T153N, R101W McKenzie County, ND

AUTHORIZED INJECTION ZONE: Dakota Group

UNDERGROUND INJECTION CONTROL (UIC) NO.: W0437S0919D

WELL FILE NO.: 90329

PERMIT DATE: March 20, 2015

The operator shall notify the North Dakota Industrial Commission (“Commission”) at least 24 hours prior to plugging back and converting said well to a saltwater disposal well. This permit is conditioned upon the operator complying with the provisions set forth in Chapter 43-02-05, Chapter 43-02-03, any other applicable rules or orders of the Commission, and the following stipulations:

- (1) Effective June 1, 2014, all operators of disposal wells in North Dakota will be required to maintain an on-site container to store filters until they can be properly disposed of in an authorized facility. Such containers must be:
 - Leak-proof to prevent any fluids from escaping
 - Covered to prevent precipitation from entering the container
 - Labeled to indicate only filters are to be placed in the container
- (2) The operator shall obtain approval on plug-back procedure prior to converting said well to a saltwater disposal well.
- (3) The injection interval shall be isolated by cement and verified by a cement bond log prior to injecting fluids.
- (4) Injection shall be through tubing and packer set within 100 feet of the top perforation.
- (5) A Commission Field Inspector must witness a satisfactory mechanical integrity test on the tubing-casing annulus prior to injecting fluids.
- (6) Accurate pressure gauges shall be placed on the tubing and on the tubing-casing annulus.

Permit For Fluid Injection

Oasis Petroleum North America, LLC

Carson SWD 5301 12-24

Page 2 of 3

(7) Written notice must be given of the date of first injection immediately and of any discontinuance within ten days. Written notice must also be given of the date injection recommences.

(8) All fluids injected shall be metered or measured using an approved method.

(9) The operator is only authorized to inject Class II fluids into said well. Class II fluids are generally defined as follows:

- a. Produced water from oil and gas production;
- b. Waste fluids from actual drilling operations;
- c. Used workover, completion, and stimulation fluids recovered from production, injection and exploratory wells;
- d. Waste fluids from circulation during well cementing;
- e. Pigging fluids from cleaning of collection and injection lines within the field;
- f. Enhanced recovery waters including fresh water makeup and other waters containing chemicals for the purpose of enhanced recovery;
- g. Gases used for enhanced recovery/pressure maintenance of production reservoirs;
- h. Brine reject from water softeners associated with enhanced recovery;
- i. Waste oil and fluids from clean up within the oil field;
- j. Waste water from gas plants which are an integral part of production operations unless those waters are classified as hazardous waste at the time of injection.

(10) Copies of all logs run hereinafter and a Sundry Notice (Form 4) detailing the conversion of this well must be submitted to the Commission within 30 days after the completion of the conversion. All logs run must be submitted free of charge, as one digital TIFF (tagged image file format) copy and one digital LAS (log ASCII) formatted copy. The Sundry Notice shall include, but not be limited to, the following information: work completed and depths to plug back well, plug back depth, details of any isolation squeezes, perforated interval, packer type and depth, tubing size and type, and any other remedial work done as well as the dates the work was performed

(11) The operator shall report any noncompliance with regulations or permit conditions within 24 hours followed by a written explanation within five days.

(12) Approval shall be obtained prior to attempting any remedial work to the casing strings.

(13) Following any remedial work done to this well over the life of this well, a Sundry Notice (Form 4) must be submitted detailing the work done. This report shall include the reason for the workover, the work done, dates, size and type of tubing, type and location of packer, result of pressure test, and any other pertinent data.

(14) Following the completion of any remedial work, the Director is authorized to order further mechanical integrity tests or other remedial work as deemed necessary to insure the mechanical integrity of the well and to prevent the movement of injected fluids into an underground source of drinking water or a zone other than authorized herein.

(15) The operator shall report monthly, regardless of the status of the operations, the amount of any fluid injected, the sources thereof, and the average injection pressure. The reports (Forms 16 and 16A) shall be filed with the Director on or before the fifth day of the second month following that in which injection occurred or could have occurred.

(16) If oil is recovered from the disposal operations, the operator shall report monthly, regardless of the status of the operations, the amount of oil recovered and sold, and the purchaser of said oil. The reports (Form 5 SWD) shall be filed with the Director on or before the 1st day of the second succeeding month.

Permit For Fluid Injection
Oasis Petroleum North America, LLC
Carson SWD 5301 12-24
Page 3 of 3

- (17) The well and injection system shall be kept under continuing surveillance.
- (18) Operations shall cease immediately if so directed by the Director or one of his representatives.
- (19) The operator shall conduct tests and install monitoring equipment as prescribed by the Director to verify the integrity of the surface facility, gathering system and injection well and to insure that the surface and subsurface potable waters will be protected.
- (20) All fires, breaks, leaks, spills, or other accidents of this nature shall be reported to the Oil and Gas Division pursuant to North Dakota Administrative Code (NDAC) Section 43-02-03-30.
- (21) The Director is hereby authorized to issue administrative orders to include such other terms and conditions as may be necessary to insure proper compliance with the provisions of North Dakota Century Code Chapter 38-08 of the and NDAC Chapter 43-02-05 and 43-02-03. The Director is further authorized to immediately order the well shut-in if mechanical failure or downhole problems indicate that injected fluids are, or may be, moving into a zone other than authorized herein, or if the operator of the well fails to comply with the statutes, rules, orders of the Commission or written or oral directives of the Commission or its staff.
- (22) Unless the well is converted to a saltwater disposal well by March 20, 2016, this permit shall expire and be of no further force and effect.
- (23) If the authorized injection zone is plugged and abandoned, this permit shall expire and be of no further force and effect.

This permit is effective the date set forth below and is transferable only upon approval of the Commission.

Dated this 20th day of March, 2015.

North Dakota Industrial Commission
Oil and Gas Division
Lynn D. Helms
Director

By: 
Kevin C. Connors
UIC Supervisor

UIC PERMIT CHECKLIST

Well File No. 90329

Operator Oasis Petroleum				Well Name Carson SWD 5301 12-24			Date Received December 12, 2014															
Location of Well 584 F N L		Qtr-Qtr 2477 F W L	NENW	Section 24	Township 153 N	Range 101 W	County McKenzie															
Field Baker				Current Pool Dakota			Current Status Proposed															
Logs on File none		Top of Cement 2159		TOC Determined By and Date Feet <input checked="" type="checkbox"/> CBL <input type="checkbox"/> Temp <input type="checkbox"/> Calc																		
Injection Zone Dakota (Inyan Kara)	Top 5421	Feet	Confining Zone Mowry			Thickness 153	Feet															
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 1. Operator and well on bond as listed. <input checked="" type="checkbox"/> 2. Completed Form 14. <table style="margin-left: 20px;"> <tr> <td>Estimated frac pressure of confining zone.</td> <td>4337</td> <td>psi, gradient</td> <td>0.8</td> <td>psi/ft.</td> </tr> <tr> <td>Maximum injection rate and pressure.</td> <td>15000</td> <td>bpd @</td> <td>1450</td> <td>psi.</td> </tr> <tr> <td>K_{FH}base</td> <td>1987</td> <td>Feet.</td> <td colspan="2"></td> </tr> </table> <input checked="" type="checkbox"/> 3. Lithology of proposed injection zone and confining zones.* <input checked="" type="checkbox"/> 4. Map of area of review. <input checked="" type="checkbox"/> 5. Name and location of wells in area of review. <input checked="" type="checkbox"/> 6. Corrective action on wells in area of review. <input checked="" type="checkbox"/> 7. Injection program.* <input checked="" type="checkbox"/> 8. <input checked="" type="checkbox"/> a. Analysis from state certified lab of two nearest fresh water wells.* <input type="checkbox"/> b. For units listed below: name and location of two nearest fresh water wells. <input type="checkbox"/> c. For units listed below: analysis from state certified lab of any new fresh water wells. <input checked="" type="checkbox"/> 9. Analysis from state certified lab of injection fluid.* <input checked="" type="checkbox"/> 10. List of source wells.* <input checked="" type="checkbox"/> 11. Landowner description within area of review.* <input checked="" type="checkbox"/> 12. Certification of notification of landowners and letter sent.* <input checked="" type="checkbox"/> na 13. Logs and test data if not previously submitted. <input checked="" type="checkbox"/> 14. Drawing of current* and proposed well bore and surface construction.* <input checked="" type="checkbox"/> 15. Dike Schematic <input checked="" type="checkbox"/> 16. Traffic Flow Diagram <input checked="" type="checkbox"/> 17. Sundry detailing conversion procedure. <input checked="" type="checkbox"/> 18. Form 1 <input checked="" type="checkbox"/> 19. Shallow aquifer check. <input checked="" type="checkbox"/> 20. Legal Street Address Requested 								Estimated frac pressure of confining zone.	4337	psi, gradient	0.8	psi/ft.	Maximum injection rate and pressure.	15000	bpd @	1450	psi.	K _{FH} base	1987	Feet.		
Estimated frac pressure of confining zone.	4337	psi, gradient	0.8	psi/ft.																		
Maximum injection rate and pressure.	15000	bpd @	1450	psi.																		
K _{FH} base	1987	Feet.																				

Date Landowner Notified December 2, 2014
--

Note: "*" indicates that the item is not required for EOR wells in the Cedar Creek, Cedar Hills North, Medicine Pole Hills South, Mohall, and Wiley units.
--

Hearing

Hearing Date January 21, 2015	Case No. 23553	Order No. 25893	Permit Date March 20, 2015	UIC Number W0437S0919D
---	--------------------------	---------------------------	--------------------------------------	----------------------------------

Administrative

Order No. Allowing Injection na	Permit Date na	UIC Number na
---	--------------------------	-------------------------

Permit Approved By Kevin Connors	(Initials) KCC
--	--------------------------

AREA OF REVIEW DATA SHEET

(WELLS WITHIN 1/4 MILE RADIUS PENETRATING INJECTION ZONE)
(05-2000)

Well File No.
90329

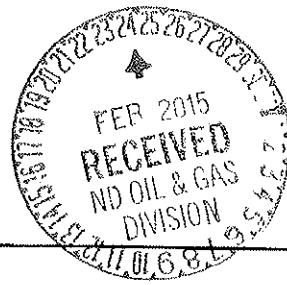
Well Name and Number Carson SWD 5301 12-24	Number of Wells in AOR 4
Footages 584 F N L 2477 F W L	County McKenzie
Field Baker	Injection Zone Top 5421 Feet

AREA OF REVIEW WELLS

Well Name and Number Bray #5301 43-12H								Status A	Status Date 1/13/2012	Well File No. 20864				
Footages				Qtr-Qtr	Section	Township	Range	County						
250	F	S	L	1927	F	E	L	SWSE	12	153	N	101	W	McKenzie
Surface Casing 9 5/8 "	Surface Casing Depth 2089 Feet			Cement Volume 605 Sacks	Top of Cement 0		Top of Cement Determined By Visual							
Production Casing 7 "	Production Casing Depth 11071 Feet			Cement Volume 785 Sacks	Top of Cement 3165 Feet		Top of Cement Determined By <input checked="" type="checkbox"/> CBL <input type="checkbox"/> Temp <input type="checkbox"/> Calc							
Injection Zone Bakken		Injection Zone Top 10719 Feet		Pierre Shale Top 1990 Feet	Logs on File CBL, DTSM, HDL, HRL, HSL									
Comments Middle Bakken Lateral leg in AOR - Geological isolation from injection zone														

Well Name and Number						Status	Status Date	Well File No.
Footages				Qtr-Qtr	Section	Township	Range	County
F	L	F	L			N	W	
Surface Casing "	Surface Casing Depth Feet	Cement Volume Sacks	Top of Cement		Top of Cement Determined By			
Production Casing "	Production Casing Depth Feet	Cement Volume Sacks	Top of Cement Feet		Top of Cement Determined By			
Injection Zone		Injection Zone Top Feet	Pierre Shale Top Feet	Logs on File				
Comments								

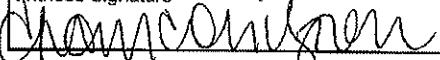
Well Name and Number						Status	Status Date	Well File No.	
Footages				Qtr-Qtr	Section	Township	Range	County	
F	L	F	L			N	W		
Surface Casing "	Surface Casing Depth Feet	Cement Volume Sacks	Top of Cement		Top of Cement Determined By				
Production Casing "	Production Casing Depth Feet	Cement Volume Sacks	Top of Cement Feet		Top of Cement Determined By <input checked="" type="checkbox"/> CBL <input type="checkbox"/> Temp <input type="checkbox"/> Calc				
Injection Zone		Injection Zone Top Feet	Pierre Shale Top Feet	Logs on File					
Comments									



COMMENTS

--	--	--

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date
		February 24, 2015

Above Signature Witnessed By		
	Witness Printed Name Chelsea Covington	Witness Title Regulatory Assistant

Instructions

1. Attach a list identifying all attachments.
2. The operator, well name and number, field or unit, well location, and any other pertinent data shall coincide with the official records on file with the Commission. If it does not, an explanation shall be given.
3. If an injection well is to be drilled, an Application for Permit to Drill - Form 1 (SFN 4615) shall also be completed and accompanied by a plat prepared by a registered surveyor and a drilling fee.
4. Attach a lithologic description of the proposed injection zone and the top and bottom confining zones.
5. Attach a plat depicting the area of review (1/4-mile radius) and detailing the location, well name, and operator of all wells in the area of review. Include: injection wells, producing wells, plugged wells, abandoned wells, drilling wells, dry holes, and water wells. The plat shall also depict faults, if known or suspected.
6. Attach a description of the needed corrective action on wells penetrating the injection zone in the area of review.
7. Attach a brief description of the proposed injection program.
8. Attach a quantitative analysis from a state-certified laboratory of fresh water from the two nearest fresh water wells. Include legal descriptions.
9. Attach a quantitative analysis from a state-certified laboratory of a representative sample of water to be injected.
10. Attach a list identifying all source wells, including location.
11. Attach a legal description of land ownership within the area of review. List ownership by tract or submit in plat form.
12. Attach an affidavit of mailing certifying that all landowners within the area of review have been notified of the proposed injection well. This notice shall inform the landowners that comments or objections may be submitted to the Commission within 30 days, or that a hearing will be held at which comments or objections may be submitted, whichever is applicable. Include copies of letters sent.
13. Attach all available logging and test data on the well which has not been previously submitted.
14. Attach schematic drawings of the injection system including current well bore construction and proposed well bore and surface facility construction.
15. Attach a Sundry Notice - Form 4 (SFN 5749) detailing the proposed procedure.
16. Attach a diagram representing the traffic flow and the maximum number of trucks staged on site.
17. Attach a printout of a map obtained at <http://www.nd.gov/gis/apps/HubExplorer/> with surficial aquifers (under hydrography) active, and proposed location plotted on printout.
18. Read Section 43-02-05-04 of the North Dakota Administrative Code to ensure that this application is complete.
19. The original and two copies of this application and attachments shall be filed with the Industrial Commission of North Dakota, Oil and Gas Division, 600 East Boulevard, Dept. 405, Bismarck, ND 58505-0840.



12/8/2014



Oasis Petroleum
1001 Fannin St.
Suite 1500
Houston, TX 77002

Kevin Connors
UIC/CCS Supervisor
North Dakota Industrial Commission
600 East Boulevard Avenue Dept. 405
Bismarck, ND 58505-0840

RE: Carson SWD 5301 12-24

Dear Mr. Connors:

Pursuant to NDCC 43-02-03-16, Oasis respectfully submits the **Carson 5301 SWD 12-24** well APD for your consideration. Included with the application are all necessary attachments; an itemized list is included on the following page.

This well is located in Section 24 of Township 153 N, Range 101 W. This location is part of Indian Hills, Baker field and is in a generally rural area. A regional map has been provided with this application. Additionally, there are no federal minerals associated with this well. The landowners, Wesley and Barbara Lindvig, have been fully apprised of Oasis' development plans. The drill cuttings and solids will be disposed of in an onsite pit. Liquids from the drilling process will be taken to an authorized disposal facility.

Please do not hesitate to contact me should you have any additional questions or concerns regarding this well. Thank you for your consideration.

Respectfully,

A handwritten signature in black ink that appears to read "Michael Kukuk".

Michael Kukuk
Regulatory Supervisor
281.404.9575
Oasis Petroleum

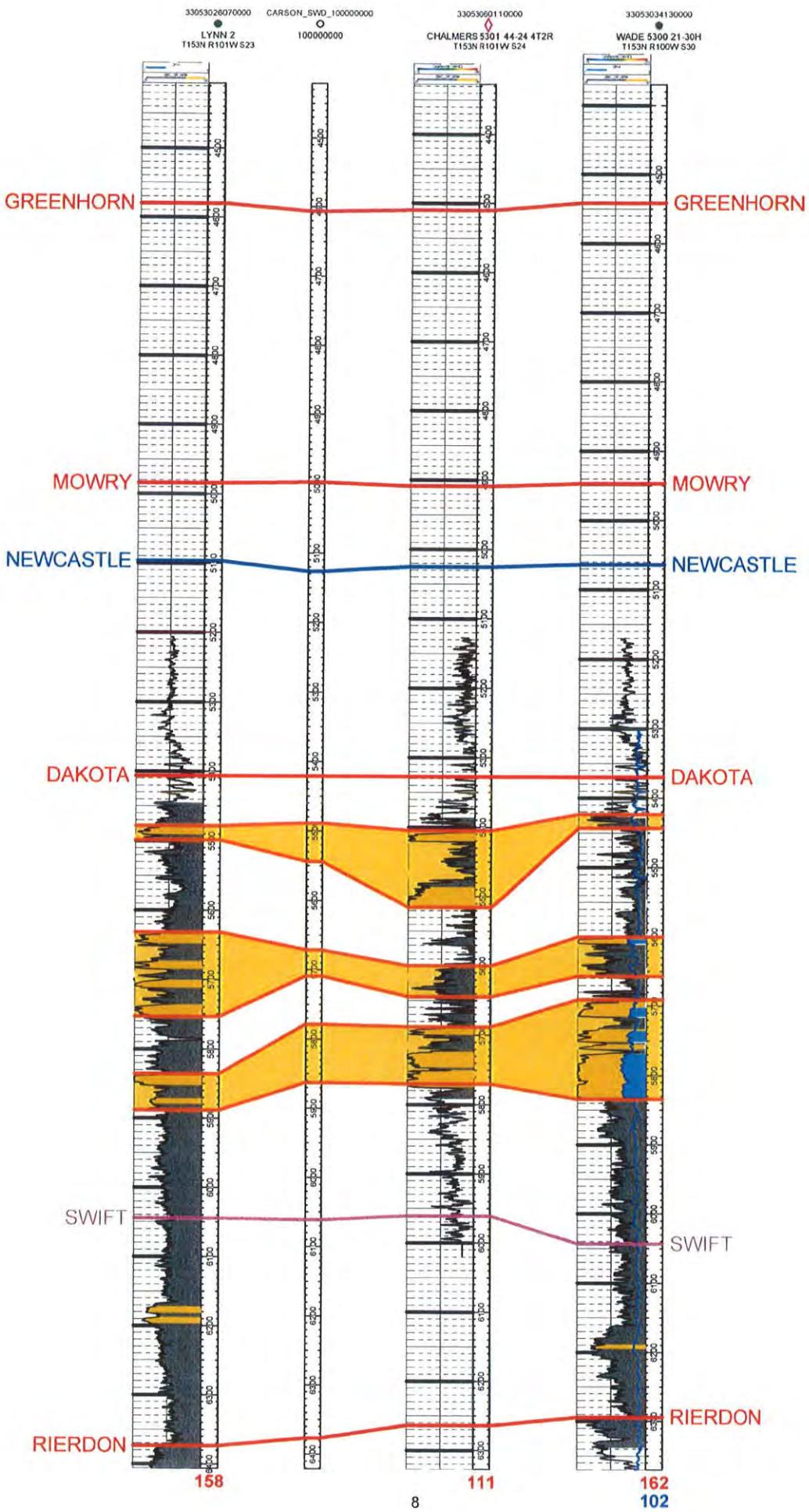
Lithologic Description

Well:
Carson SWD 5301 12-24
Salt Water Disposal Well
McKenzie County, North Dakota
24-153N-101W

Injection Zone: The Cretaceous Inyan Kara within the Dakota is roughly 440' in this area based on the Oasis Petroleum Wade 5300 21-30H. The section consists of a sequence of alternating sand, silt and shale. Several potential injection zones occur between 5,501' and 5,943' based on the Oasis Petroleum Wade 5300 21-30H. These zones vary in thickness between 10' to 80'.

Upper Unit: Shales of the Skull Creek and Newcastle units confine the upper boundary of the Inyan Kara Formation. Individual shale units over 60' thick are inter-bedded with thinner siltstones.

Lower Unit: The Swift Shale consists of fine siltstones in the upper portion that grade into shales in the lower half of the unit. This formation spans 350' based on the Oasis Petroleum Wade 5300 21-30H.



Proposed Injection Program

November 25, 2014

**Carson SWD 5301 12-24
Oasis Petroleum North America, LLC
Section 24, T153N R101W
McKenzie County, North Dakota**

Application for Fluid Injection

PROPOSED INJECTION PROGRAM

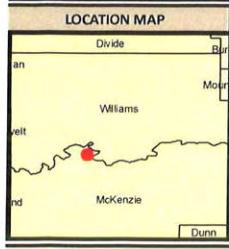
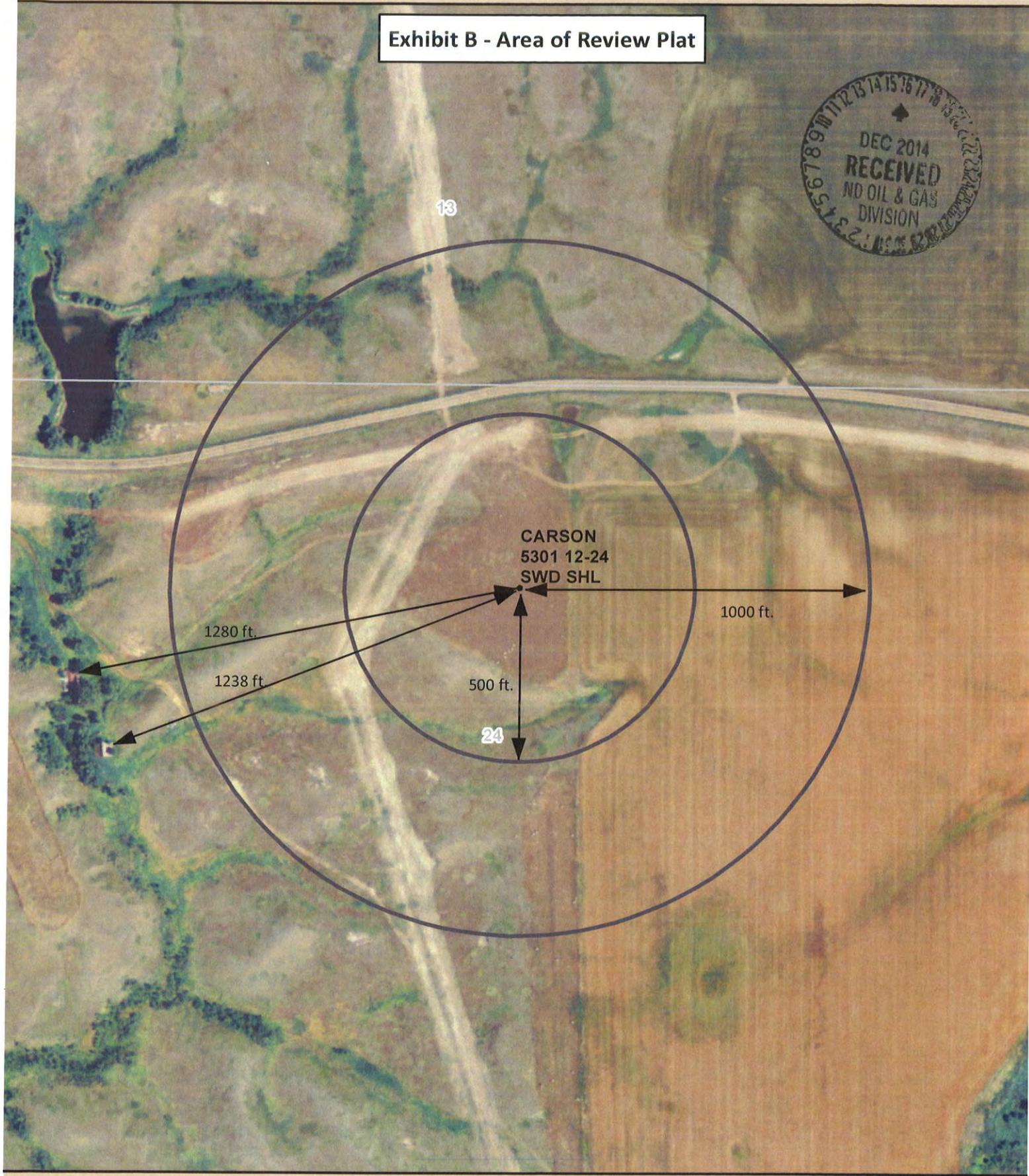
The Carson SWD 5301 12-24 well will be used to inject produced water from wells in the Baker Field-Oasis Bakken and Three Forks wells- already on production, in the process of completion, and those soon to be drilled in the four township area of 152-153N and 100-101W into the Dakota formation. Injection depths will be determined after the well is drilled and logged.

The source wells for the produced water are listed on Exhibit 6 but will also include additional Bakken and Three Forks wells yet to be drilled and completed. Water from these wells will be shipped via pipeline to the Carson SWD 5301 12-24 disposal site; trucking will only be done for emergency and/or unplanned circumstances. The amount of water injected into the Dakota is pressure dependent, but not to exceed 1,550 psig at surface.

1450

The proposed Carson SWD 5301 12-24 is needed to provide a more local disposal facility in the area to reduce costs and ease the burden on regional disposal wells. The anticipated initial injection rate of the well will be 10,000 bwpd at 1,000 psig pressure. However, this rate may increase with additional drilling in the area, subject to the maximum pressure ceiling and maximum daily injection rate.
The maximum daily injection rate is based on diking dimensions around tanks.
Pursuant to NDAC section 43-02-03-53 (3)(b).

Exhibit B - Area of Review Plat

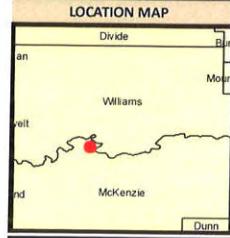


**CARSON SWD 5301 43-21 12-24
153N - 101W, Section 24**

McKenzie County, ND

OASIS
PETROLEUM

Exhibit B - Area of Review Plat



**CARSON SWD 5301 43-21 12-24
153N - 101W, Section 24**

McKenzie County, ND

OASIS
PETROLEUM

Connors, Kevin C.

From: Michael Kukuk <mkukuk@oasispetroleum.com>
Sent: Tuesday, December 16, 2014 12:52 PM
To: Connors, Kevin C.
Subject: FW: carson
Attachments: ESB_AerialOverview_CarsonSWD5301.pdf; ATT00001.txt

Hi Kevin –

Please see the attached aerial overview. Please let me know if you have any questions/concerns.

Thanks,
Michael

From: Victoria Siemieniewski
Sent: Tuesday, December 16, 2014 12:06 PM
To: Michael Kukuk
Subject: FW: carson

Hello Michael,

Please see attached Aerial overview and below GIS snapshot. The nearest homes are over 1200 ft away from the well head.

Sincerely,

Victoria

From: Eric Branton
Sent: Tuesday, December 16, 2014 11:20 AM
To: Victoria Siemieniewski
Subject: carson

Eric Branton
GIS Lead
Oasis Petroleum
1001 Fannin, Suite 1500
Houston, Texas 77002
281-404-9448
ebranton@oasispetroleum.com





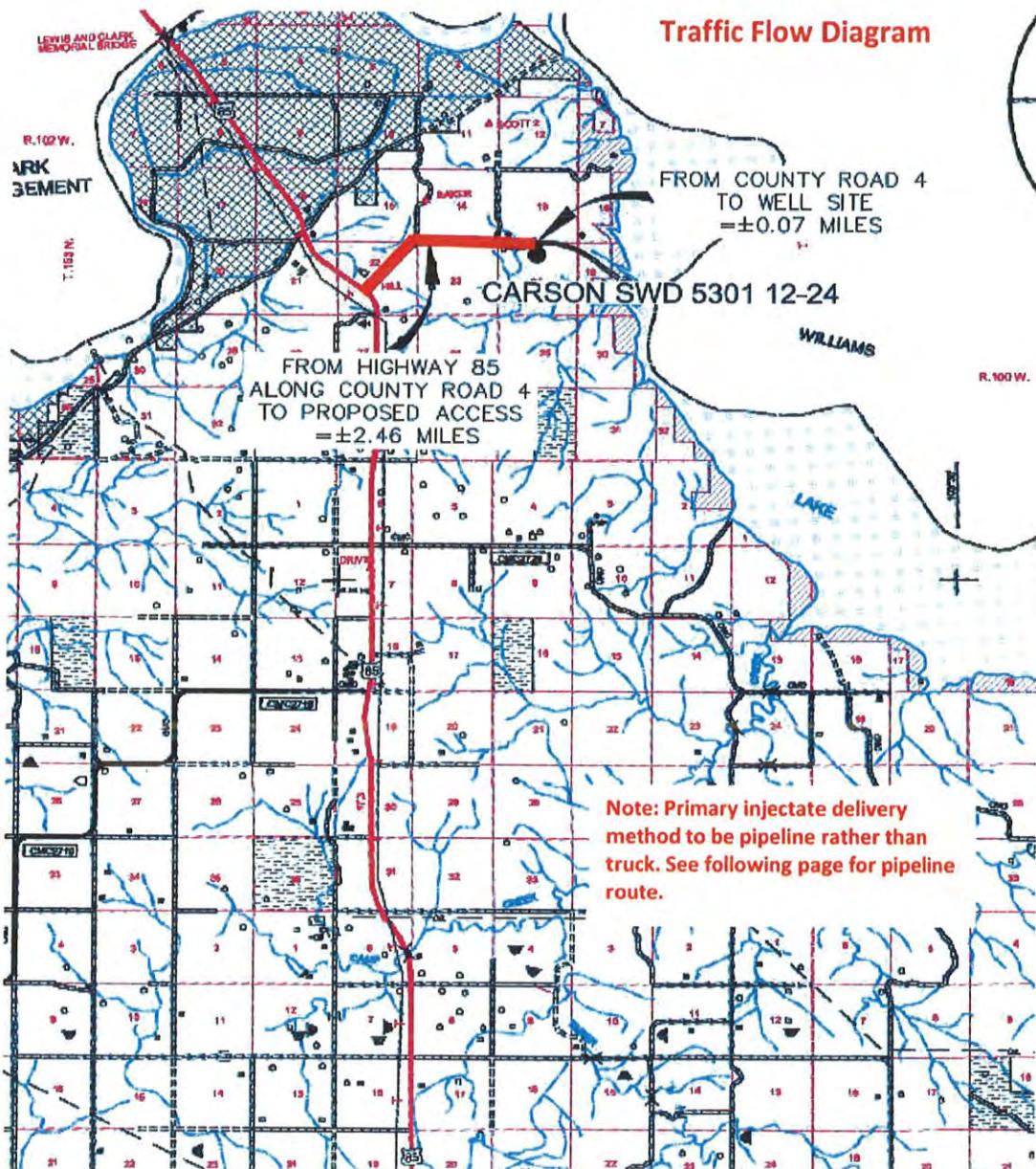
Here's approximate distances to all the structures...you just want the one to the northwest or the northeast too?


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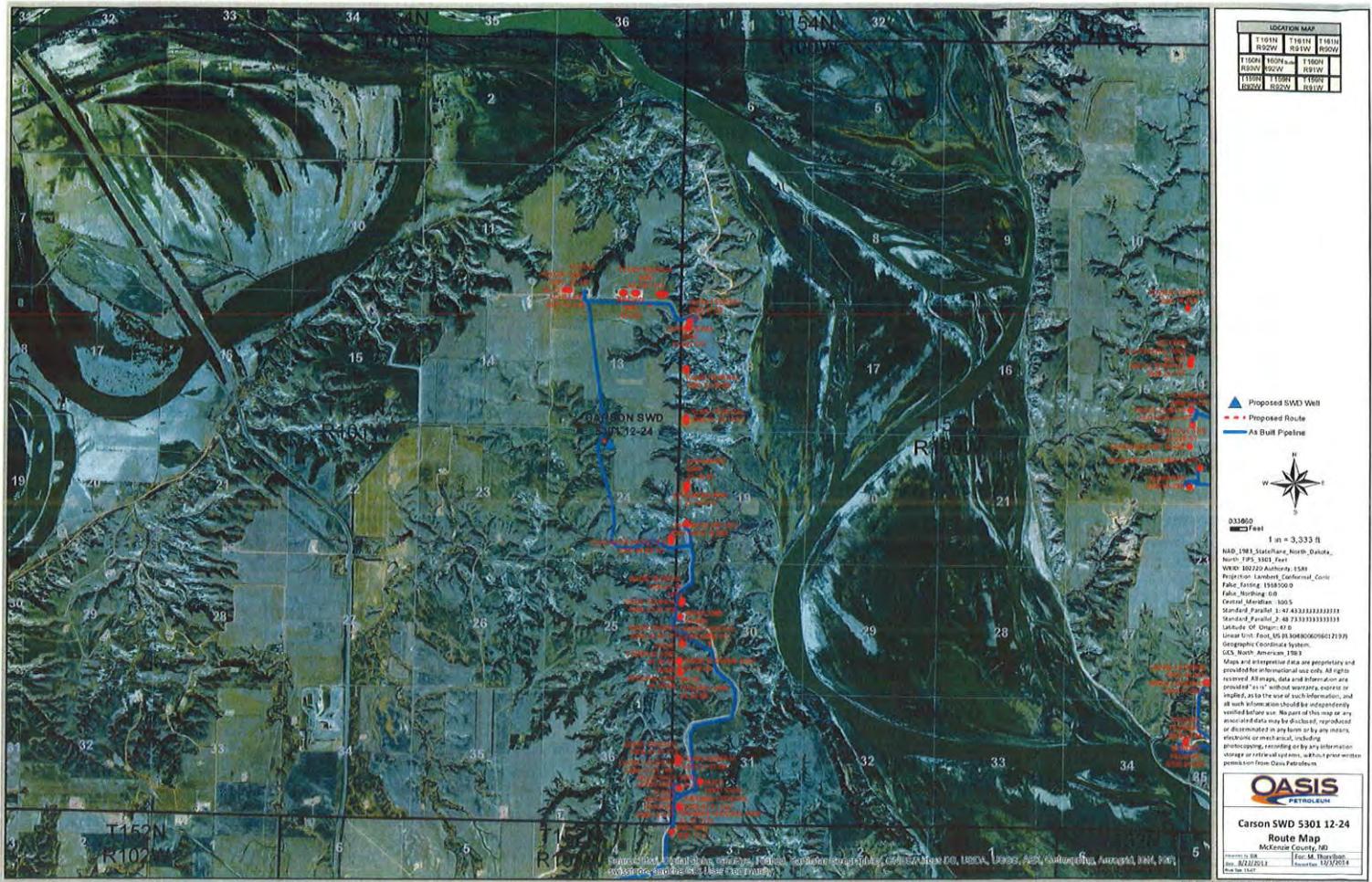
COUNTY ROAD MAP
OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002

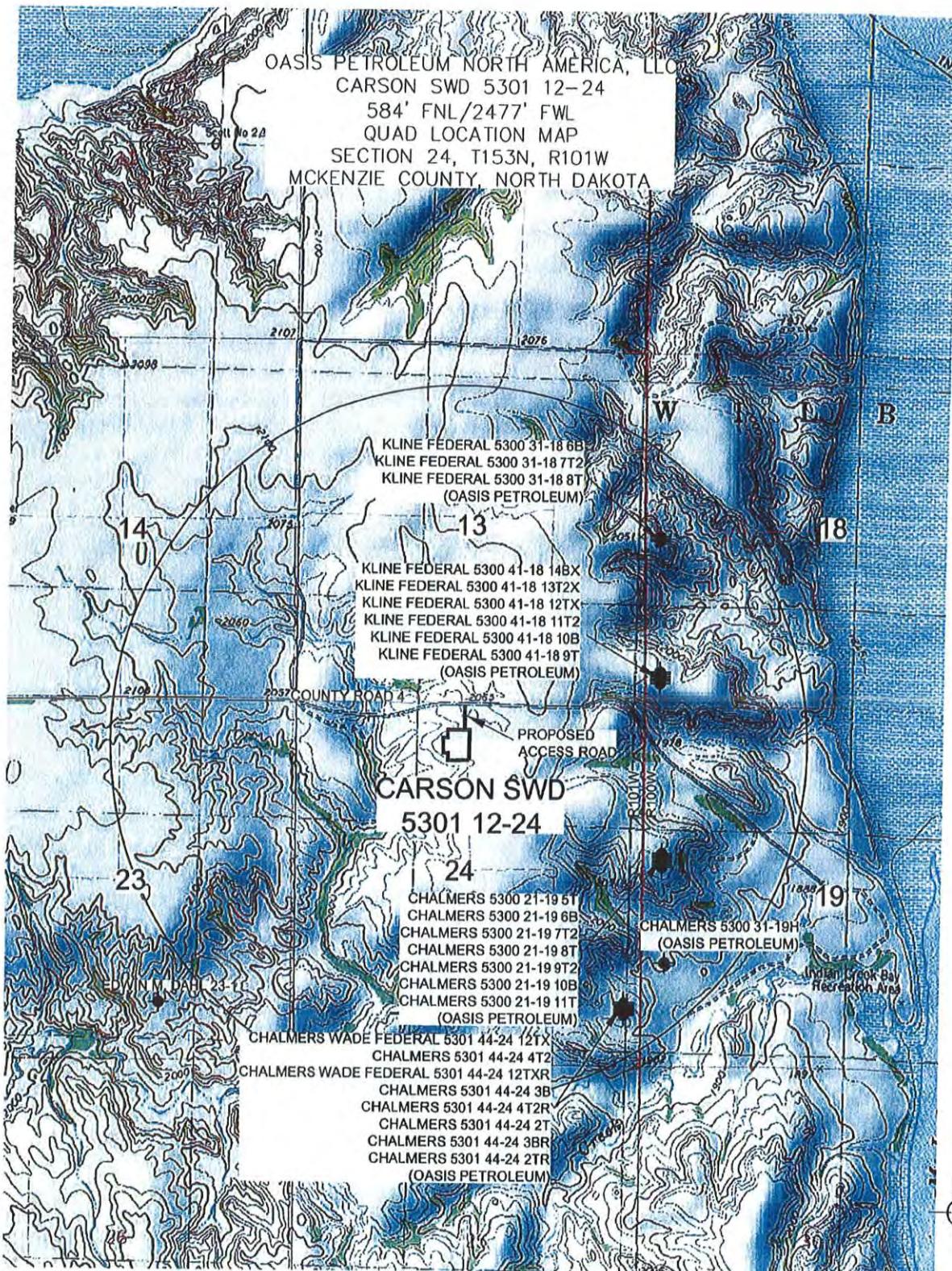
"CARSON SWD 5301 12-24"
584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



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GREETING	 INTERSTATE ENGINEERING Professional you need, sensible you keep.	Interstate Engineering, Inc. P.O. Box 640 425 E. Main Street Smyrna, Michigan 48270 Ph: (406) 432-5617 Fax: (406) 432-6510 www.interstateeng.com www.interstateeng.com	OASIS PETROLEUM NORTH AMERICA, LLC COUNTY ROAD MAP SECTION 24, T153N, R101W MCKENZIE COUNTY, NORTH DAKOTA Drawn By: S.D.H. Project No.: 51446054 Checked By: S.D.H. Date: May 2014	File No.: Date: By: Description:
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Offices in Minnesota, North Dakota and South Dakota

OASIS PETROLEUM NORTH AMERICA, LLC
QUAD LOCATION MAP
SECTION 24, T153N, R101W
MCKENZIE COUNTY, NORTH DAKOTA

Drawn By:	B.H.H.	Project No.:	S14-09-254
Checked By:	D.D.K.	Date:	NOV. 2014

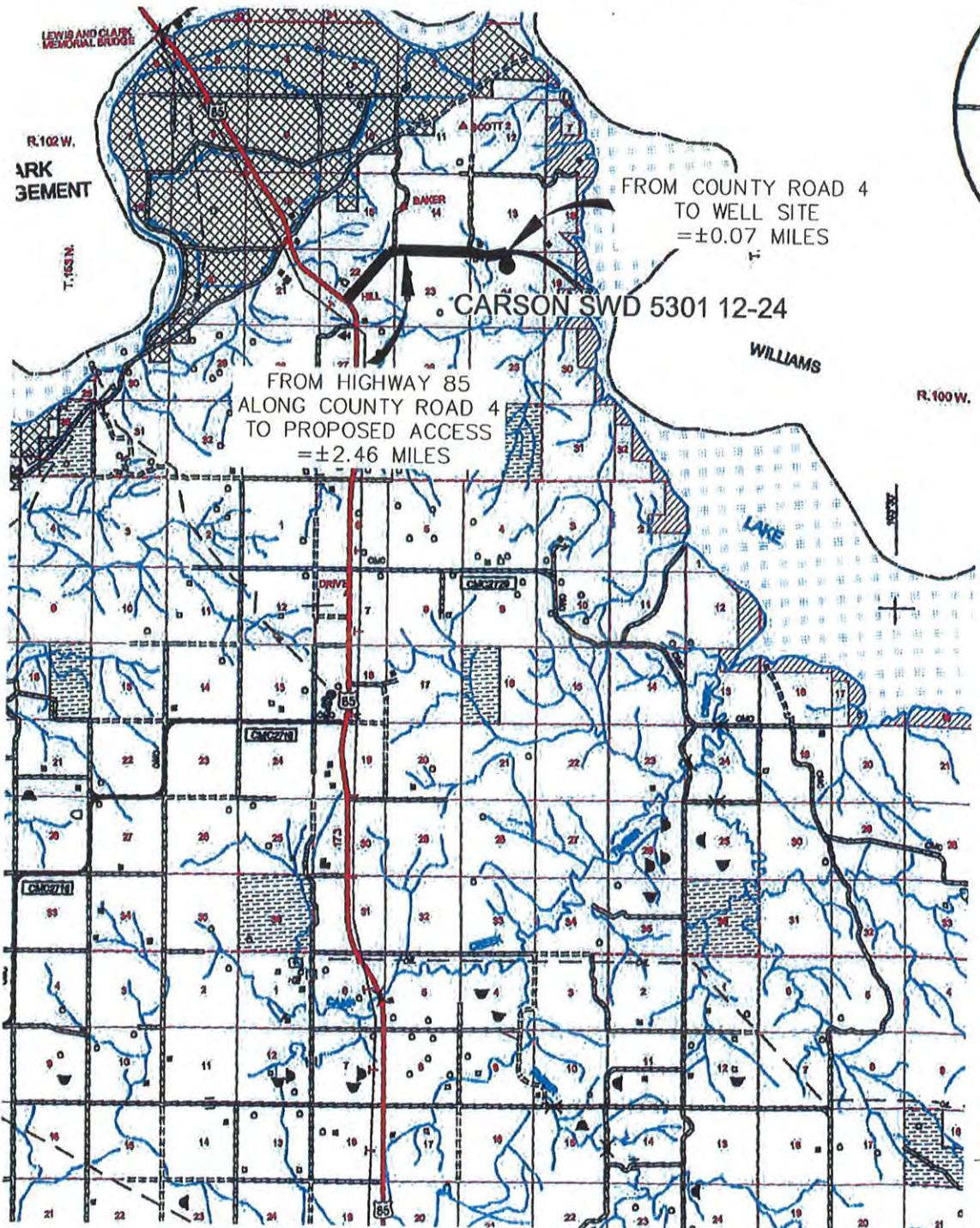
Revision No.	Date	By	Description

COUNTY ROAD MAP

OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002

"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



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SCALE: 1" = 2 MILE



SHEET NO.

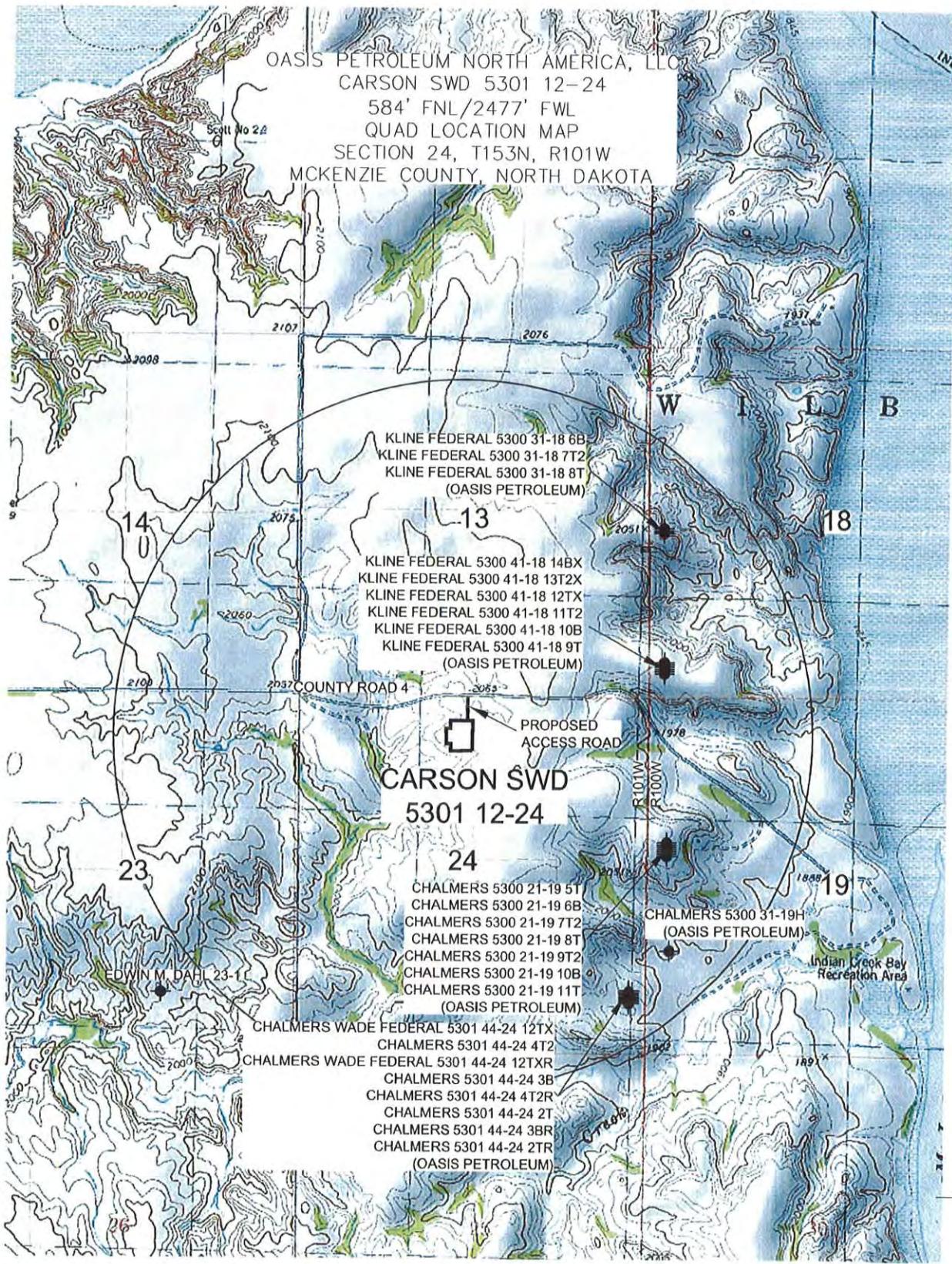
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P.O. Box 648
425 East Main Street
Sidney, Montana 59270
Ph: (406) 433-5617
Fax: (406) 433-5618
www.interstateeng.com

Other offices in Minnesota, North Dakota and South Dakota

OASIS PETROLEUM NORTH AMERICA, LLC
COUNTY ROAD MAP
SECTION 24, T153N, R101W
MCKENZIE COUNTY, NORTH DAKOTA

Revision No.	Date	By	Description

Drawn By: B.J.H. Project No: S1409-254
Checked By: D.D.K. Date: NOV. 2014



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P.O. Box 648
425 East Main Street
Sidney, Montana 59270
Ph (406) 433-5617
Fax (406) 433-5618
www.Interstateeng.com

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Drawn By: B.H.H. Project No.: S14-09-254
Checked By: D.D.K. Date: NOV. 2014

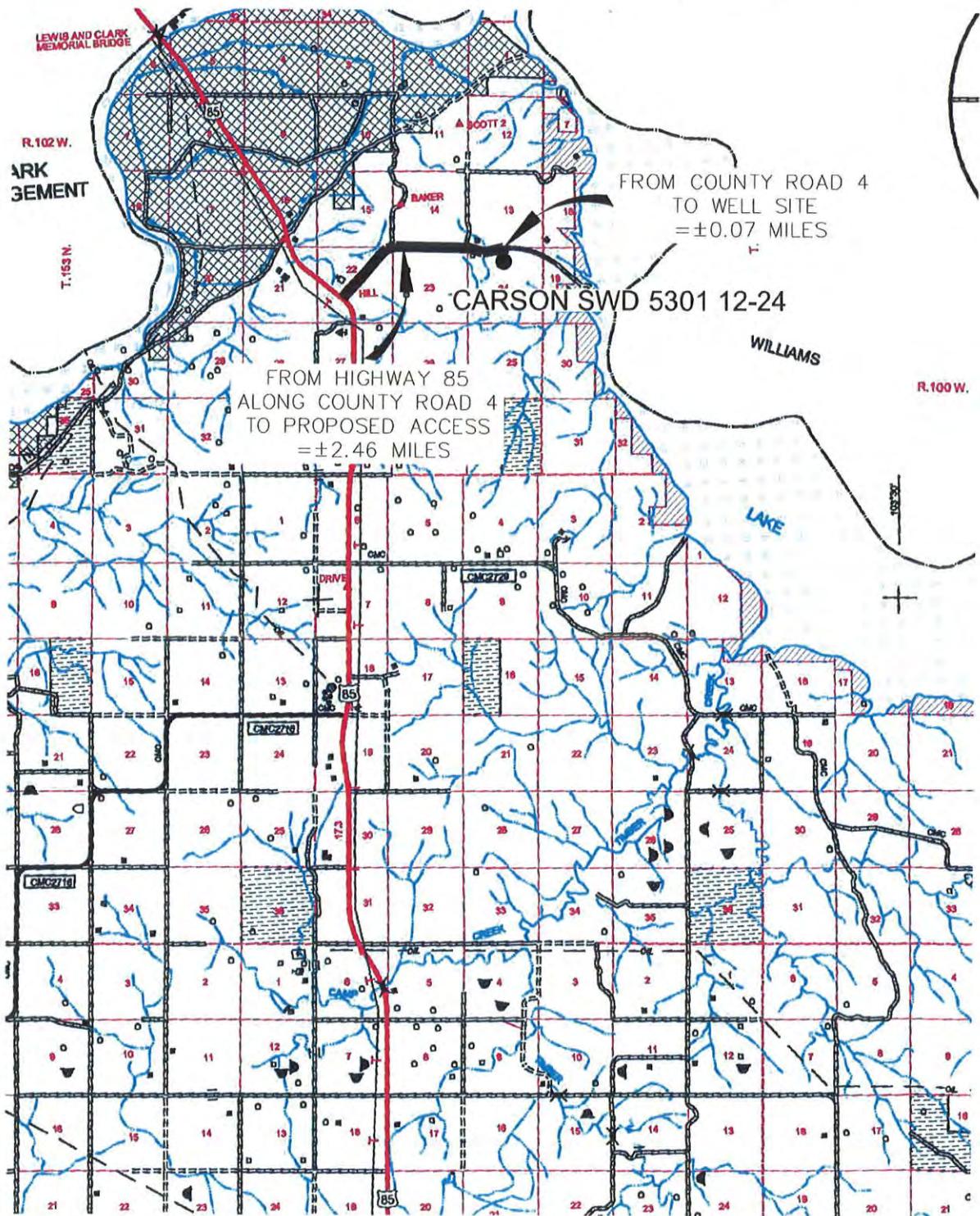
Revision No.	Date	By	Description

COUNTY ROAD MAP

OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002

"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



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SCALE: 1" = 2 MILE



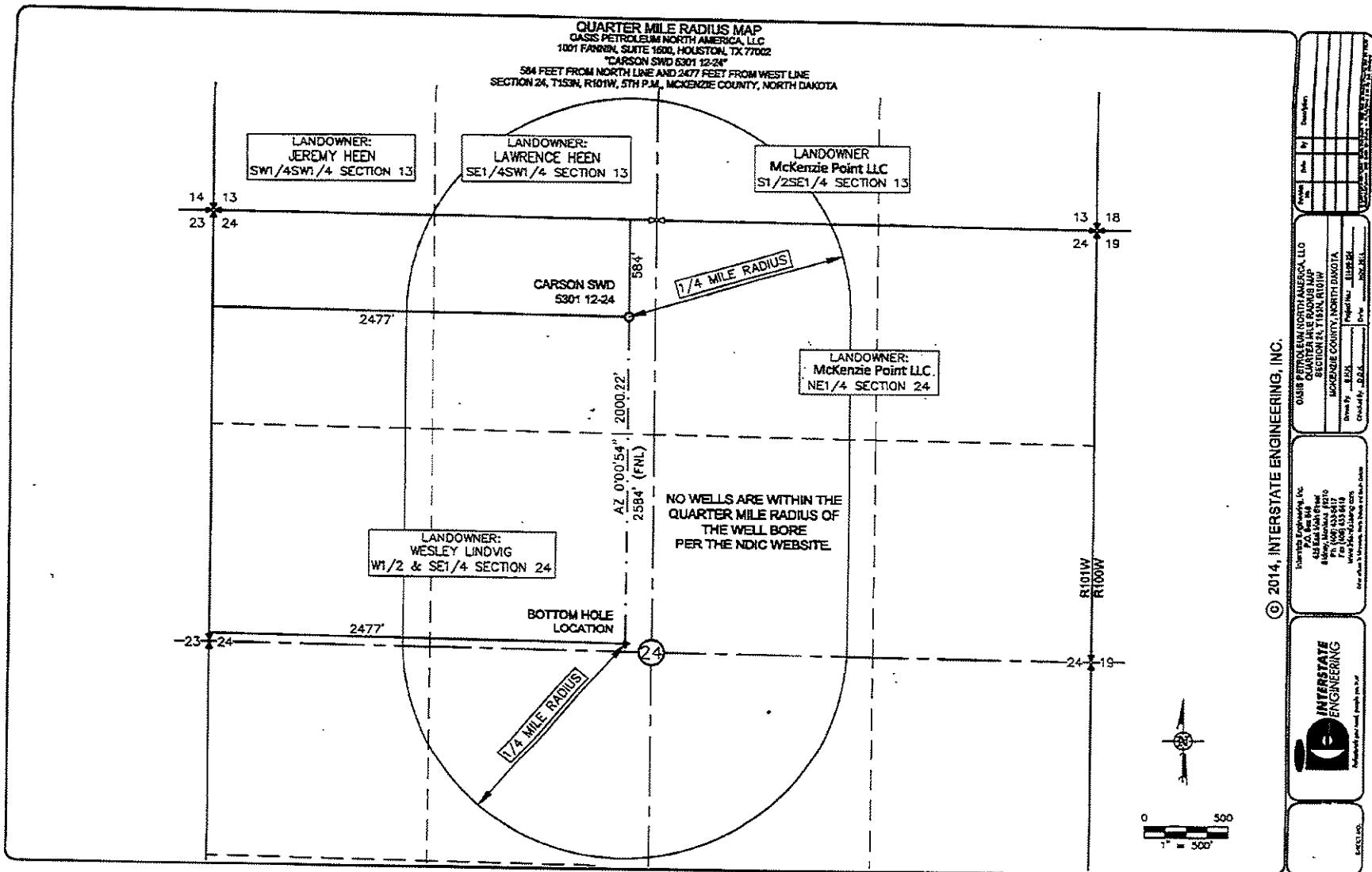
SHEET NO.

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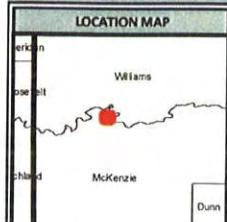
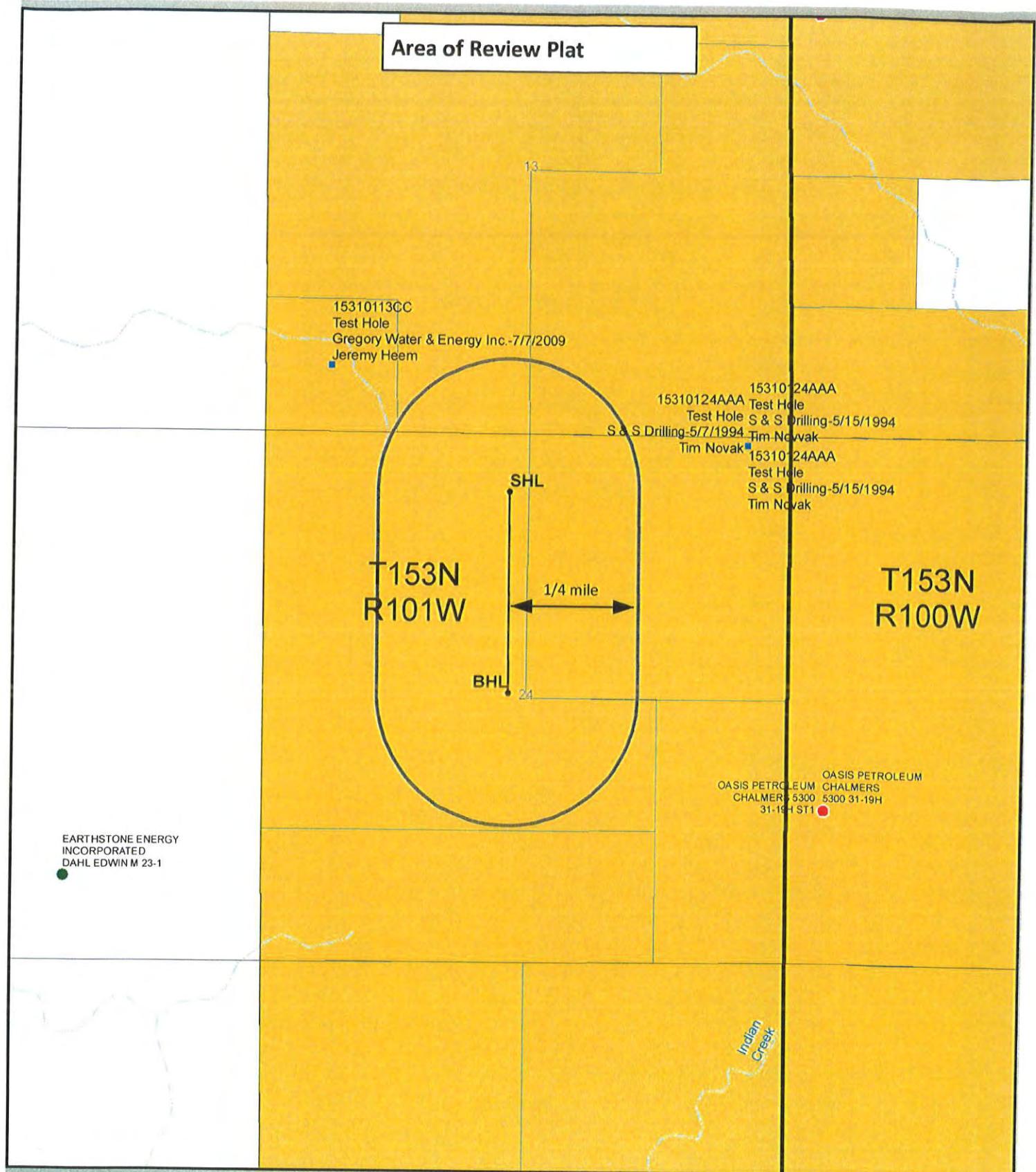
OASIS PETROLEUM NORTH AMERICA, LLC
COUNTY ROAD MAP
SECTION 24, T153N, R101W
MCKENZIE COUNTY, NORTH DAKOTA

Drawn By: B.H.H. Project No.: S14-09-254
Checked By: D.D.K. Date: NOV, 2014

Revision No.	Date	By	Description



Area of Review Plat



CARSON SWD 5301 12-24
153N - 101W, Section 24
McKenzie County, North Dakota

Carson SWD 5301 12-24
Oasis Petroleum North America, LLC
Section 24, T153N R101W
McKenzie County, North Dakota

Application for Fluid Injection

CORRECTIVE ACTIONS

A search of the NDIC ArcIMS system yielded no wells within a $\frac{1}{4}$ mile area of the proposed Carson SWD 5301 12-24. No corrective action is required.

AFFIDAVIT OF MAILING

STATE OF NORTH DAKOTA §
 §
COUNTY OF MCKENZIE §

The undersigned, Patrick McCauley, of lawful age, first duly sworn on his oath states that he is a duly authorized agent of Oasis Petroleum North America LLC, do hereby certify that I have sent (via certified mail) a Notice of Application for Fluid Injection to each surface owner within a radius of $\frac{1}{4}$ mile from the location of the proposed injection well (Carson SWD 5301 12-24), T153N-R101W, Section 24: NW4, N2SW4, McKenzie County, ND.

The following contains the names and addresses of all landowners and legal description of the land ownership:

Surface Owners

Lawrence P. Heen
4412 Highway 85 North
Williston, ND 58801

Jeremy A. Heen
4412 Highway 85 North
Williston, ND 58801

McKenzie Point, LLC
5009 139th Ave. NW
Williston, ND 58801

Wesley Lindvig and Barbara Lindvig
Tenants in Common
14075 41st Street NW
Alexander, ND 58831

Legal Description

Township 153 North, Range 101 West
Section 13: SE4SW4

Township 153 North, Range 101 West
Section 13: SW4SW4

Township 153 North, Range 101 West
Section 13: E2SE4, SW4SE4
Section 24: NE4

Township 153 North, Range 101 West
Section 24: NW4, N2SW4, NW4SE4

IN WITNESS WHEREOF, the undersigned has hereunto set his hand this 2nd day of December, 2014.

Oasis Petroleum North America LLC

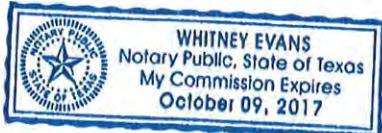
By: *Patrick McCauley*
Patrick McCauley, Landman

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BE IT REMEMBERED, that on this 2nd day of December, 2014, before me, a Notary Public, in and for said County and State, personally appeared Patrick McCauley, to me known to be the identical person described in and who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereto set my official signature and affixed my notarial seal, the day and year first above written.



Whitney Evans
Notary Public
My Commission Expires: 10.09.2017



IN WITNESS WHEREOF, the undersigned has hereunto set his hand this 7th day of January, 2015.

Oasis Petroleum North America LLC

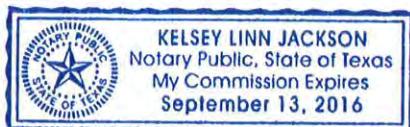
By: Patrick McCauley
Patrick McCauley, Landman

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BE IT REMEMBERED, that on this 7th day of January, 2015, before me, a Notary Public, in and for said County and State, personally appeared Patrick McCauley, to me known to be the identical person described in and who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereto set my official signature and affixed my notarial seal, the day and year first above written.



Kelsey Linn Jackson
Notary Public
My Commission Expires: 9-13-2016



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <i>X Jeremy Heen</i></p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>	
1. Article Addressed to:		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>Jeremy A. Heen 4502 139th Ave. NW Alexander, ND 58831</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
2. Article Number (Transfer from service label)		7013 2250 0001 3657 6080	

PS Form 3811, July 2013 | Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <i>X</i></p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>	
1. Article Addressed to:		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>Lawrence P. Heen 14033 45th St. NW Alexander, ND 58831</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
2. Article Number (Transfer from service label)		7013 2250 0001 3657 6073	

PS Form 3811, July 2013 | Domestic Return Receipt

AFFIDAVIT OF MAILING



STATE OF NORTH DAKOTA

§
§

COUNTY OF MCKENZIE

§

The undersigned, Patrick McCauley, of lawful age, first duly sworn on his oath states that he is a duly authorized agent of Oasis Petroleum North America LLC, do hereby certify that I have sent (via certified mail) a Notice of Application for Fluid Injection to each surface owner within a radius of $\frac{1}{4}$ mile from the location of the proposed injection well (Carson SWD 5301 12-24), T153N-R101W, Section 24: NW4, N2SW4, McKenzie County, ND.

The following contains the names and addresses of all landowners and legal description of the land ownership:

Surface Owners

Lawrence P. Heen
14033 45th St NW
Alexander, ND 58831

Legal Description

Township 153 North, Range 101 West
Section 13: SE4SW4

Jeremy A. Heen
4502 139th Ave. NW
Alexander, ND 58831

Township 153 North, Range 101 West
Section 13: SW4SW4

McKenzie Point, LLC
5009 139th Ave. NW
Williston, ND 58801

Township 153 North, Range 101 West
Section 13: E2SE4, SW4SE4
Section 24: NE4

Wesley Lindvig and Barbara Lindvig
Tenants in Common
14075 41st Street NW
Alexander, ND 58831

Township 153 North, Range 101 West
Section 24: NW4, N2SW4, NW4SE4



January 7, 2015

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Lawrence P. Heen
14033 45th St NW
Alexander, ND 58831

RE: Proposed Saltwater Disposal Well
Carson SWD 5301 12-24
T153N-R101W Section 24: NW4, N2SW4
McKenzie County, North Dakota

Dear Mr. Heen,

This letter is to advise you that Oasis Petroleum North America LLC is planning a saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced location.

In accordance with the rules and regulations of the North Dakota Industrial Commission ("NDIC"), Oasis is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. At a date yet to be determined, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room located at 1000 East Calgary Avenue, Bismarck, ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

Written comments or objections may be submitted prior to the hearing to the following address:

North Dakota Industrial Commission
600 E. Boulevard Avenue, Dept. 405
Bismarck, ND 58505

If you have any questions, concerns, or to determine the hearing date, please contact Kevin Connors, UIC/CCS Supervisor for the NDIC Oil & Gas Division at 701-328-8020.

Sincerely,

Patrick McCauley
Landman
(281) 404-9547
pmccauley@oasispetroleum.com



January 7, 2015

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Jeremy A. Heen
4502 139th Ave. NW
Alexander, ND 58831

RE: Proposed Saltwater Disposal Well
Carson SWD 5301 12-24
T153N-R101W Section 24: NW4, N2SW4
McKenzie County, North Dakota

Dear Mr. Heen,

This letter is to advise you that Oasis Petroleum North America LLC is planning a saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced location.

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Bismarck, ND 58505

If you have any questions, concerns, or to determine the hearing date, please contact Kevin Connors, UIC/CCS Supervisor for the NDIC Oil & Gas Division at 701-328-8020.

Sincerely,

Patrick McCauley
Landman
(281) 404-9547
pmccauley@oasispetroleum.com



December 2nd, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Lawrence P. Heen
4412 Highway 85 North
Williston, ND 58801

RE: Proposed Saltwater Disposal Well
Carson SWD 5301 12-24
T153N-R101W Section 24: NW4, N2SW4
McKenzie County, North Dakota

Dear Mr. Heen,

This letter is to advise you that Oasis Petroleum North America LLC is planning a saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced location.

In accordance with the rules and regulations of the North Dakota Industrial Commission ("NDIC"), Oasis is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. At a date yet to be determined, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room located at 1000 East Calgary Avenue, Bismarck, ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

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Bismarck, ND 58505

If you have any questions, concerns, or to determine the hearing date, please contact Kevin Connors, UIC/CCS Supervisor for the NDIC Oil & Gas Division at 701-328-8020.

Sincerely,

A handwritten signature in blue ink that appears to read "Patrick McCauley".

Patrick McCauley
Landman
(281) 404-9547
pmccauley@oasispetroleum.com



December 2nd, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Jeremy A. Heen
4412 Highway 85 North
Williston, ND 58801

RE: Proposed Saltwater Disposal Well
Carson SWD 5301 12-24
T153N-R101W Section 24: NW4, N2SW4
McKenzie County, North Dakota

Dear Mr. Heen,

This letter is to advise you that Oasis Petroleum North America LLC is planning a saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced location.

In accordance with the rules and regulations of the North Dakota Industrial Commission ("NDIC"), Oasis is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. At a date yet to be determined, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room located at 1000 East Calgary Avenue, Bismarck, ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

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North Dakota Industrial Commission
600 E. Boulevard Avenue, Dept. 405
Bismarck, ND 58505

If you have any questions, concerns, or to determine the hearing date, please contact Kevin Connors, UIC/CCS Supervisor for the NDIC Oil & Gas Division at 701-328-8020.

Sincerely,

A handwritten signature in black ink that reads "Patrick McCauley".

Patrick McCauley
Landman
(281) 404-9547
pmccauley@oasispetroleum.com



December 2nd, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

McKenzie Point, LLC
5009 139th Ave. NW
Williston, ND 58801

RE: Proposed Saltwater Disposal Well
Carson SWD 5301 12-24
T153N-R101W Section 24: NW4, N2SW4
McKenzie County, North Dakota

Dear McKenzie Point, LLC,

This letter is to advise you that Oasis Petroleum North America LLC is planning a saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced location.

In accordance with the rules and regulations of the North Dakota Industrial Commission ("NDIC"), Oasis is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. At a date yet to be determined, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room located at 1000 East Calgary Avenue, Bismarck, ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

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North Dakota Industrial Commission
600 E. Boulevard Avenue, Dept. 405
Bismarck, ND 58505

If you have any questions, concerns, or to determine the hearing date, please contact Kevin Connors, UIC/CCS Supervisor for the NDIC Oil & Gas Division at 701-328-8020.

Sincerely,

A handwritten signature in black ink that appears to read "Patrick McCauley".

Patrick McCauley
Landman
(281) 404-9547
pmccauley@oasispetroleum.com



December 2nd, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Wesley Lindvig and Barbara Lindvig
Tenants in Common
14075 41st Street NW
Alexander, ND 58831

RE: Proposed Saltwater Disposal Well
Carson SWD 5301 12-24
T153N-R101W Section 24: NW4, N2SW4
McKenzie County, North Dakota

Dear Mr. and Mrs. Lindvig,

This letter is to advise you that Oasis Petroleum North America LLC is planning a saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced location.

In accordance with the rules and regulations of the North Dakota Industrial Commission ("NDIC"), Oasis is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. At a date yet to be determined, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room located at 1000 East Calgary Avenue, Bismarck, ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

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Bismarck, ND 58505

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Sincerely,

A handwritten signature in black ink, appearing to read "Patrick McCauley".

Patrick McCauley
Landman
(281) 404-9547
pmccauley@oasispetroleum.com

AFFIDAVIT

STATE OF NORTH DAKOTA §
 §
COUNTY OF MCKENZIE §
 §

The undersigned, Thomas Osen, of lawful age, first duly sworn on his oath states that he is a duly authorized agent of Oasis Petroleum North America LLC, do hereby certify that I have attempted to obtain water samples from the two nearest freshwater wells within a one-mile radius of the proposed location of the Carson SWD 5301 12-24, located in T153N-R101W, Section 24: NW4, N2SW4 in McKenzie County, ND.

I have obtained a water sample from a house spigot at a nearby residence that has been analyzed and will be submitted with the permit. I have diligently attempted to locate water wells within the area of review and have not been able to locate one. The one we have located does not have electricity and we are still attempting to acquire a sample from it.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand this 3rd day of December, 2014.

Oasis Petroleum North America LLC

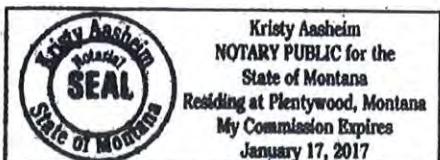
By: Thomas Osen
Thomas Osen

ACKNOWLEDGMENT

STATE OF North Dakota §
 §
COUNTY OF Williams §

BE IT REMEMBERED, that on this 3rd day of December, 2014, before me, a Notary Public, in and for said County and State, personally appeared **Thomas Osen**, to me known to be the identical person described in and who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereto set my official signature and affixed my notarial seal, the day and year first above written.



Kristy Aasheim
Notary Public
My Commission Expires: 1/17/17

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972
P.O Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

Sample Number: W-14-9192

Date of Analysis: 11/05/2014

Company: Oasis Petroleum

City: Williston

State: ND

Well Number: Lindvig S.W.D.

Date Received: 10/30/2014

DST Number:

Sample Source: Brandon Turcotte Residence (House Spigot)

Location: SWSE	Section: 22	Township: 153	Range: 101	County:
Formation:	Depth:			
Distribution: Thomas Osen				

Resistivity @ 77 °F 3.540 Ohm-Meters pH 8.35

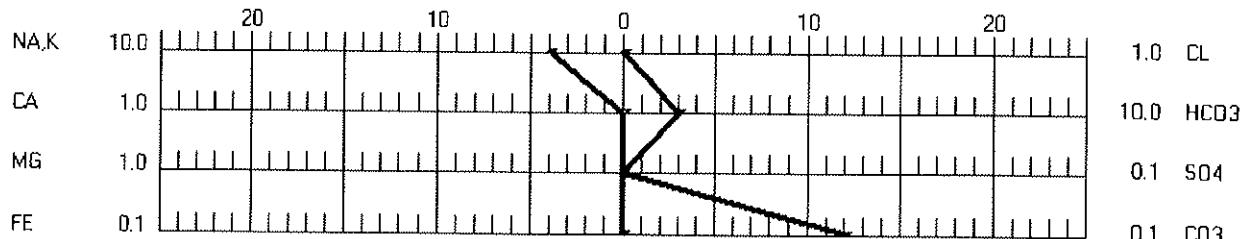
Specific Gravity @ 77 °F 1.000 H2S Negative

Total Dissolved Solids (Calculated) 2914 mg/L (2914 ppm)

Sodium Chloride (Calculated) 11 mg/L (11 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	0.2	4	CHLORIDE	0.2	7
MAGNESIUM	0.2	2	CARBONATE	1.2	36
SODIUM	37.4	860	BICARBONATE	32.8	2001
IRON	0.0	0.0	SULFATE	0.0	0
CHROMIUM	0.0	0.0	NITRATE-N	0.0	0
BARIUM	0.0	0.0			
POTASSIUM	0.1	4			

WATER ANALYSIS PATTERN



Remarks: Conductivity = 2822 µmhos/cm / Sampled 10-28-14
Lat 48-03-12.4 / Long 103-29-25.18

Analyzed By: C. Jungels

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972
P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-12-2853

DATE OF ANALYSIS 4-25-12

COMPANY Oasis Petroleum

CITY Williston

STATE ND

WELL NAME AND/OR NUMBER Chalmers 5300-31-19H

DATE RECEIVED 4-11-12

DBT NUMBER

SAMPLE SOURCE

LOCATION Lot 3 OF SEC. 19 TWN. 153N RANGE 100W COUNTY McKenzie

FORMATION

DEPTH

DISTRIBUTION Distribution List

RESISTIVITY @ 77°F = 0.038 Ohm-Meters pH = 5.47

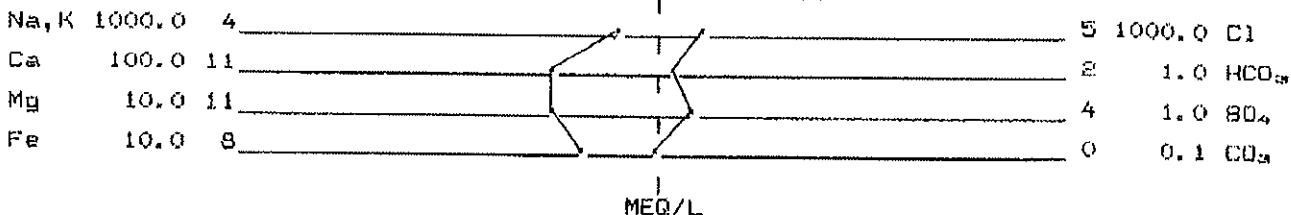
SPECIFIC GRAVITY @ 77°F = 1.215 HgS = Negative

TOTAL DISSOLVED SOLIDS (CALCULATED) = 313035 mg/L (257642 ppm)

SODIUM CHLORIDE (CALCULATED) = 309798 mg/L (254978 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	1070.0	21229	CHLORIDE	5299.2	107873
MAGNESIUM	110.0	1222	CARBONATE	0.0	0
SODIUM	4045.3	93000	BICARBONATE	2.4	146
IRON	81.7	1520.0	SULFATE	3.8	182
CHROMIUM	0.1	1.0	NITRATE	0.0	0
BARIUM	0.6	41.7			
POTASSIUM	200.0	7820			

WATER ANALYSIS PATTERN



REMARKS Sampled 4-11-12

ANALYZED BY: C. Jungels

Preliminary List of Source Wells

Oasis Petroleum North America LLC
Application for Salt Water Disposal
Sec 24-153N-101W, McKenzie County, ND
Carson SWD 5301 12-24

Preliminary List of Source Wells*

Well Name:	Chalmers 5300 31-19H
Operator:	Oasis Petroleum North America LLC
Location:	NWSW 19-153-100
API Number:	3305303472
NDIC Well File:	20407
Well Name:	Chalmers 5300 21-19 10B
Operator:	Oasis Petroleum North America LLC
Location:	SWNW 19-153-100
API Number:	3305306022
NDIC Well File:	28637
Well Name:	Kline Federal 5300 11-18 4T2
Operator:	Oasis Petroleum North America LLC
Location:	NWNW 18-153-100
API Number:	3305306224
NDIC Well File:	29243
Well Name:	Kline Federal 5300 11-18 5B
Operator:	Oasis Petroleum North America LLC
Location:	NWNW 18-153-100
API Number:	3305306223
NDIC Well File:	29242
Well Name:	Kline Federal 5300 11-18 6B
Operator:	Oasis Petroleum North America LLC
Location:	NWSW 18-153-100
API Number:	3305306057
NDIC Well File:	28756

*Subject to addition of operated and non-operated source wells.

Surface Facilities Diagram

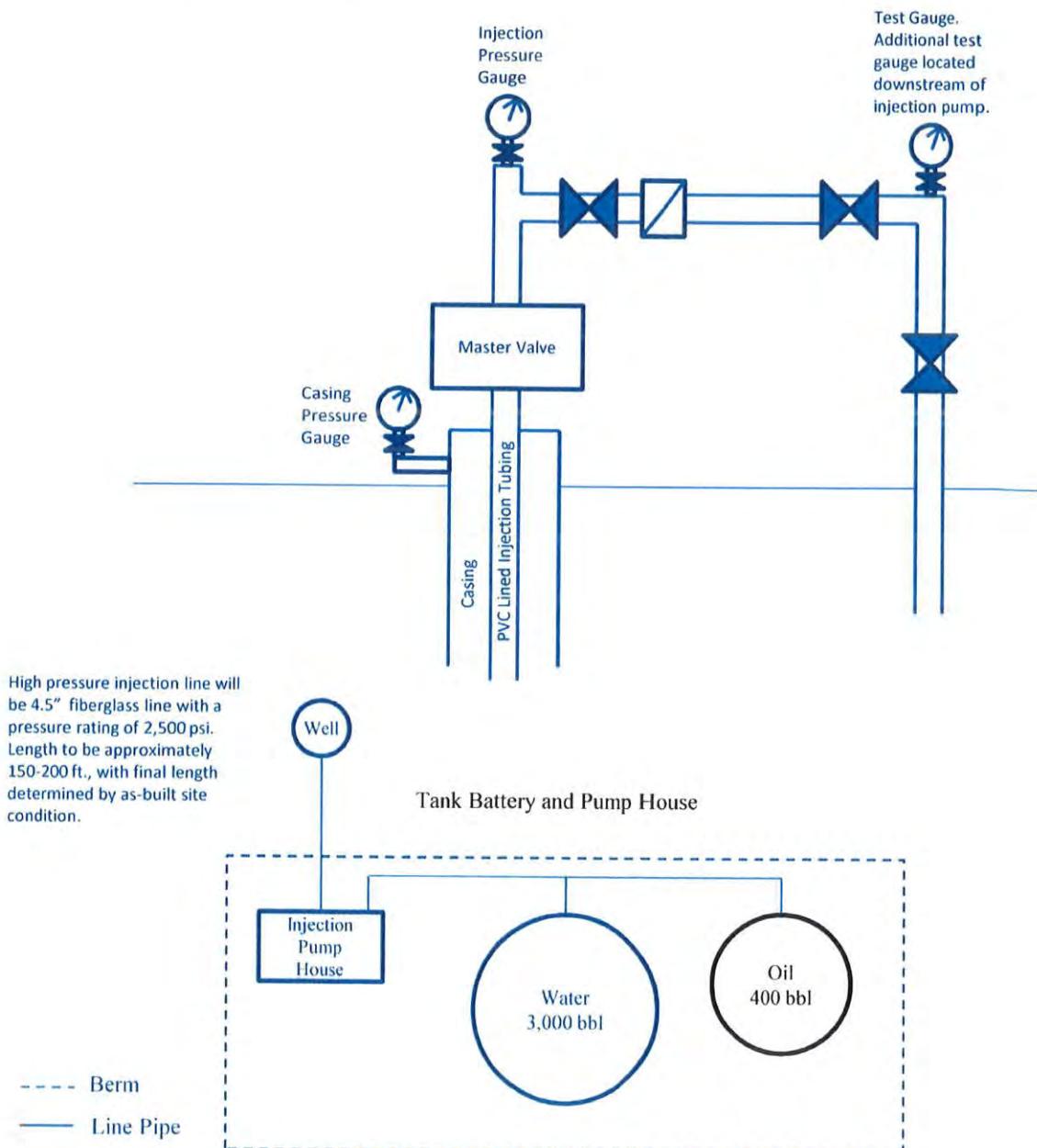
Surface Facilities Schematics

Carson SWD 5301 12-24

Oasis Petroleum

Section 24, T153N R101W

McKenzie County, North Dakota

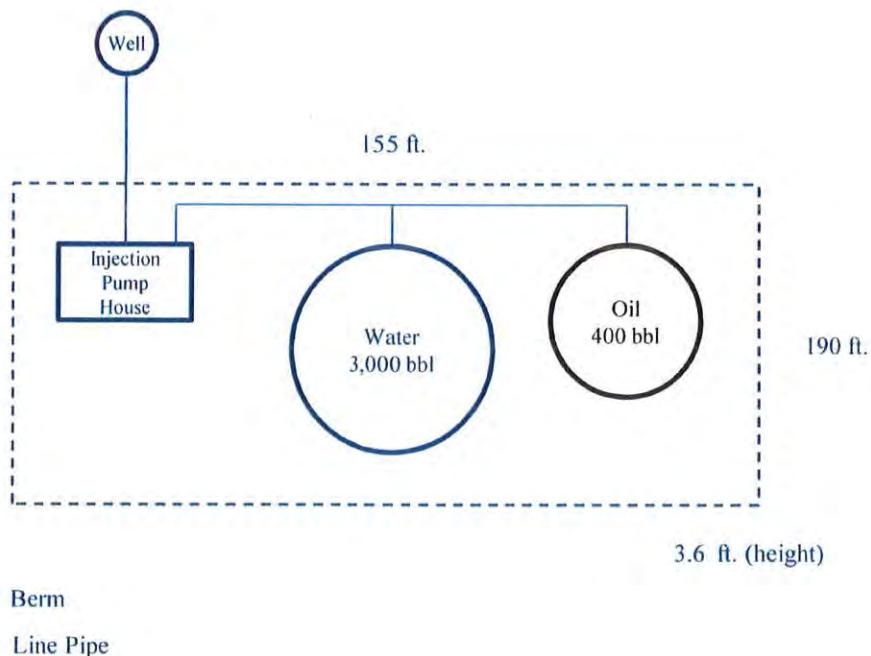


Surface Facilities Diagram

SWD Dike Schematics

Carson SWD 5301 12-24

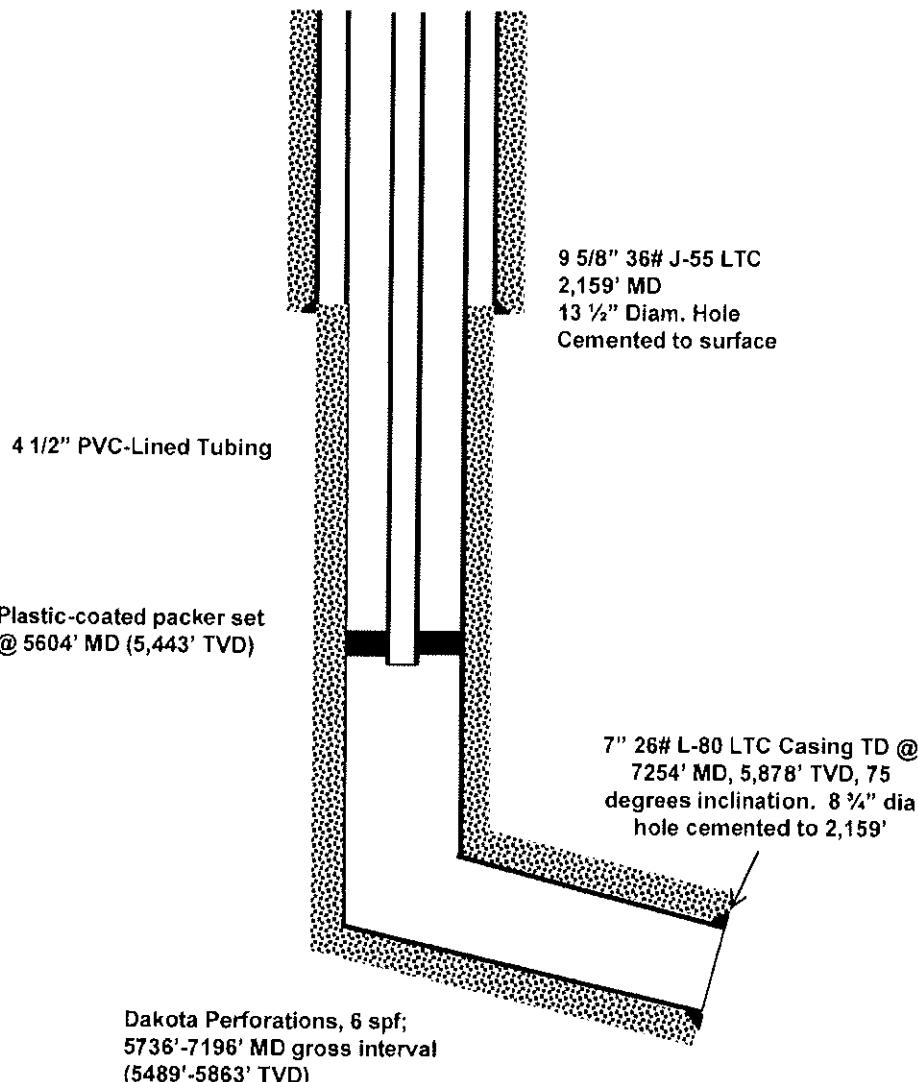
Oasis Petroleum
Section 24, T153N R101W
McKenzie County, North Dakota



Dike Containment = 19,231 bbls
Pump House & Tanks Volume = 402 bbls
Effective Dike Containment = 18,829 bbls

**CARSON SWD 5301 12-24
WELLBORE SCHEMATIC**

API #:
FORMATION: Dakota
FIELD: Camp



OASIS PETROLEUM INC.

CARSON SWD 5301 12-24
T153N-R101W Sec. 24
584' FNL & 2477' FWL

Status: Planned
McKenzie County, North Dakota
Updated: 11/25/2014



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.

90329

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

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date February 1, 2015	<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	Proposed Procedure

Well Name and Number Carson SWD 5301 12-14 24					
Footages	Qlr-Qtr	Section	Township	Range	
584 F N L	2477 F W L	NENW	24	153 N	101 W
Field Baker	Pool Dakota	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

Drill Procedure:

1. Notify state inspector prior to spud
2. Drill 13 1/2" hole to 2159'
3. TOOH and run 9 5/8" casing
3. Drill 8.75" hole to 4797'
4. Kickoff due South with BR's of 8deg/100'
4. Hold @ 75.15 deg inc to TD
6. TOOH and run 7" casing to bottom

Completion Procedure:

1. Rig up pump truck and test wellbore to 1,500 psi.
2. MIRU wireline and mast truck.
3. RIH with perf assembly and perforate Dakota at 6 spf.
4. RU pump truck and perform injectivity test. If necessary, acidize perforations and add additional perfs.
5. PU plastic lined packer and new 4.5" plastic coated tubing. TIH and set packer 50' above top perforation.
6. Pressure test backside to 1,000 psi and record – MIT must be witnessed by a NDIC field inspector.
7. RD workover rig and install SWD facilities

Company Oasis Petroleum North America LLC	Telephone Number 281-404-9652	
Address 1001 Fannin Suite 1500		
City Houston	State TX	Zip Code 77002
Signature 	Printed Name Victoria Siemieniewski	
Title Regulatory Specialist	Date December 8, 2014	
Email Address vsiemieniewski@oasispetroleum.com		

FOR STATE USE ONLY

<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 3/20/2015	
By 	
Title KEVIN CONNORS UNDERGROUND INJECTION SUPERVISOR	



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

March 20, 2015

Victoria Siemieniewski
Regulatory Specialist
OASIS PETROLEUM NORTH AMERICA LLC
1001 Fannin, Suite 1500
Houston, TX 77002

**RE: DIRECTIONAL WELL
CARSON SWD 5301 12-24
NENW Section 24-153N-101W
McKenzie County
Well File # 90329**

Dear Victoria:

Pursuant to Commission Order No. 25893, approval to drill the above captioned well is hereby given.

PERMIT STIPULATIONS: OASIS PETROLEUM NORTH AMERICA must contact NDIC Field Inspector Richard Dunn at (701) 770-3554 prior to location construction.

Effective June 1, 2014, all operators of disposal wells in North Dakota are required to maintain an on-site container to store filters until they can be properly disposed of in an authorized facility. Such containers must be:

- **Leak-proof to prevent any fluids from escaping**
- **Covered to prevent precipitation from entering the container**
- **Labeled to indicate only filters are to be placed in the container**

Drilling pit

NDAC 43-02-03-19.4 states that "a pit may be utilized to bury drill cuttings and solids generated during well drilling and completion operations, providing the pit can be constructed, used and reclaimed in a manner that will prevent pollution of the land surface and freshwaters. Reserve and circulation of mud system through earthen pits are prohibited. All pits shall be inspected by an authorized representative of the director prior to lining and use. Drill cuttings and solids must be stabilized in a manner approved by the director prior to placement in a cuttings pit."

Form 1 Changes

Any changes, shortening of casing point or lengthening at Total Depth must have prior approval by the NDIC.

Permit Fee & Notification

Payment was received in the amount of \$100 via credit card .The permit fee has been received. It is requested that notification be given immediately upon the spudding 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 spudding. 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, leave a message if after hours or on the weekend.

Victoria Siemieniewski

March 20, 2015

Page 2

Survey Requirements for Horizontal, Horizontal Re-entry, and Directional Wells

NDAC Section 43-02-03-25 (Deviation Tests and Directional Surveys) states in part (that) the survey contractor shall file a certified copy of all surveys with the director free of charge within thirty days of completion. Surveys must be submitted as one electronic copy, or in a form approved by the director. However, the director may require the directional survey to be filed immediately after completion if the survey is needed to conduct the operation of the director's office in a timely manner. Certified surveys must be submitted via email in one adobe document, with a certification cover page to certsurvey@nd.gov. Survey points shall be of such frequency to accurately determine the entire location of the well bore. Specifically, the Horizontal and Directional well survey frequency is 100 feet in the vertical, 30 feet in the curve (or when sliding) and 90 feet in the lateral.

Conductors, Rat holes, and Mouse holes

To protect near surface groundwater any conductor, rat, or mouse hole drilled must be constructed with a string of casing and cemented to ground level. Any such string must be secured at the surface when not in use. In addition, all rat and mouse holes must be plugged with cement and cut off at least 4' below final grade within a reasonable timeframe after the rig completes drilling operations on the pad.

Surface casing cement

Tail cement utilized on surface casing must have a minimum compressive strength of 500 psi within 12 hours, and tail cement utilized on production casing must have a minimum compressive strength of 500 psi before drilling the plug or initiating tests.

Logs

NDAC Section 43-02-03-31 requires the running of (1) a suite of open hole logs from which formation tops and porosity zones can be determined, (2) a Gamma Ray Log run from total depth to ground level elevation of the well bore, and (3) a log from which the presence and quality of cement can be determined (Standard CBL or Ultrasonic cement evaluation log) in every well in which production or intermediate casing has been set, this log must be run prior to completing the well. All logs run must be submitted free of charge, as one digital TIFF (tagged image file format) copy and one digital LAS (log ASCII) formatted copy. Digital logs may be submitted on a standard CD, DVD, or attached to an email sent to digitallogs@nd.gov

Thank you for your cooperation.

Sincerely,

Kevin Connors
UIC\CCS Supervisor



APPLICATION FOR PERMIT TO DRILL - FORM 1

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 4615 (03-2006)

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.

PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

Type of Work New Location	Type of Well Salt Water Disposal			Approximate Date Work Will Start 1 / 1 / 2015			Confidential Status No	
Operator OASIS PETROLEUM NORTH AMERICA LLC							Telephone Number (281) 404-9500	
Address 1001 Fannin, Suite 1500				City Houston		State TX	Zip Code 77002	
Name of Surface Owner or Tenant Wesley and Barbara Lindvig								
Address 1407 41st ST NW				City Alexander		State ND	Zip Code 58831	
WELL INFORMATION				<input checked="" type="checkbox"/> Notice has been provided to the owner of any permanently occupied dwelling within 1,320 feet.		<input checked="" type="checkbox"/> This well is not located within five hundred feet of an occupied dwelling.		
Well Name CARSON SWD				Well Number 5301 12-24				
At Surface 584 F N L 2477 F W L			Qtr-Qtr NENW	Section 24	Township 153 N	Range 101 W	County McKenzie	
If Directional, Top of Pay 1117 F N L 2477 F W L			Qtr-Qtr NENW	Section 24	Township 153 N	Range 101 W	County McKenzie	
Proposed Bottom Hole Location 2584 F N L 2477 F W L			Qtr-Qtr SWSE	Section 24	Township 153 N	Range 101 W	County McKenzie	
Latitude of Well Head 48° 03' 57.89"	Longitude of Well Head -103° 36' 56.05"	NAD Reference NAD83		Description of (Subject to NDIC Approval) Spacing Unit: Section 24 T153N R101W				
Ground Elevation 2087 Feet Above S.L.	Acres in Spacing/Drilling Unit		Spacing/Drilling Unit Setback Requirement			Industrial Commission Order 25893		
Objective Horizons Dakota							Pierre Shale Top 2059	
Proposed Surface Casing	Size 9 - 5/8 "	Weight 36 Lb./Ft.	Depth 2159 Feet	Cement Volume 635 Sacks	NOTE: Surface hole must be drilled with fresh water and surface casing must be cemented back to surface.			
Proposed Longstring Casing	Size 7 - "	Weight(s) 26 Lb./Ft.	Longstring Total Depth 7254 Feet MD		5878 Feet TVD	Cement Volume 509 Sacks	Cement Top 2159 Feet	Top Dakota Sand 5421 Feet
Base Last Charles Salt (If Applicable) Feet	Estimated Total Depth (feet) 7254 Feet MD			Drilling Mud Type (Vertical Hole - Below Surface Casing) Invert				
Proposed Logs triple combo through mowry, GR/RES to BSC, GR to surf								

Comments							
----------	--	--	--	--	--	--	--

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.					Date 12 / 10 / 2014
ePermit		Printed Name Victoria Siemieniewski			Title Regulatory Specialist

FOR STATE USE ONLY	
Permit and File Number 90329	API Number 33 - 053 - 90329
Field BAKER	
Pool DAKOTA	Permit Type SALT WATER DISPOSAL

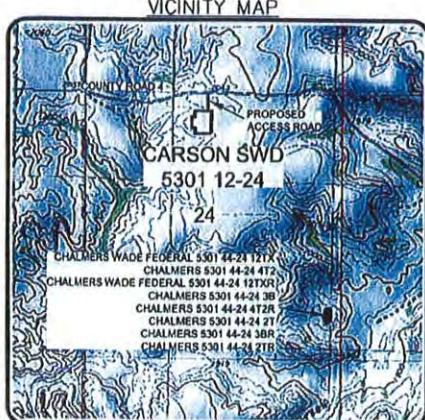
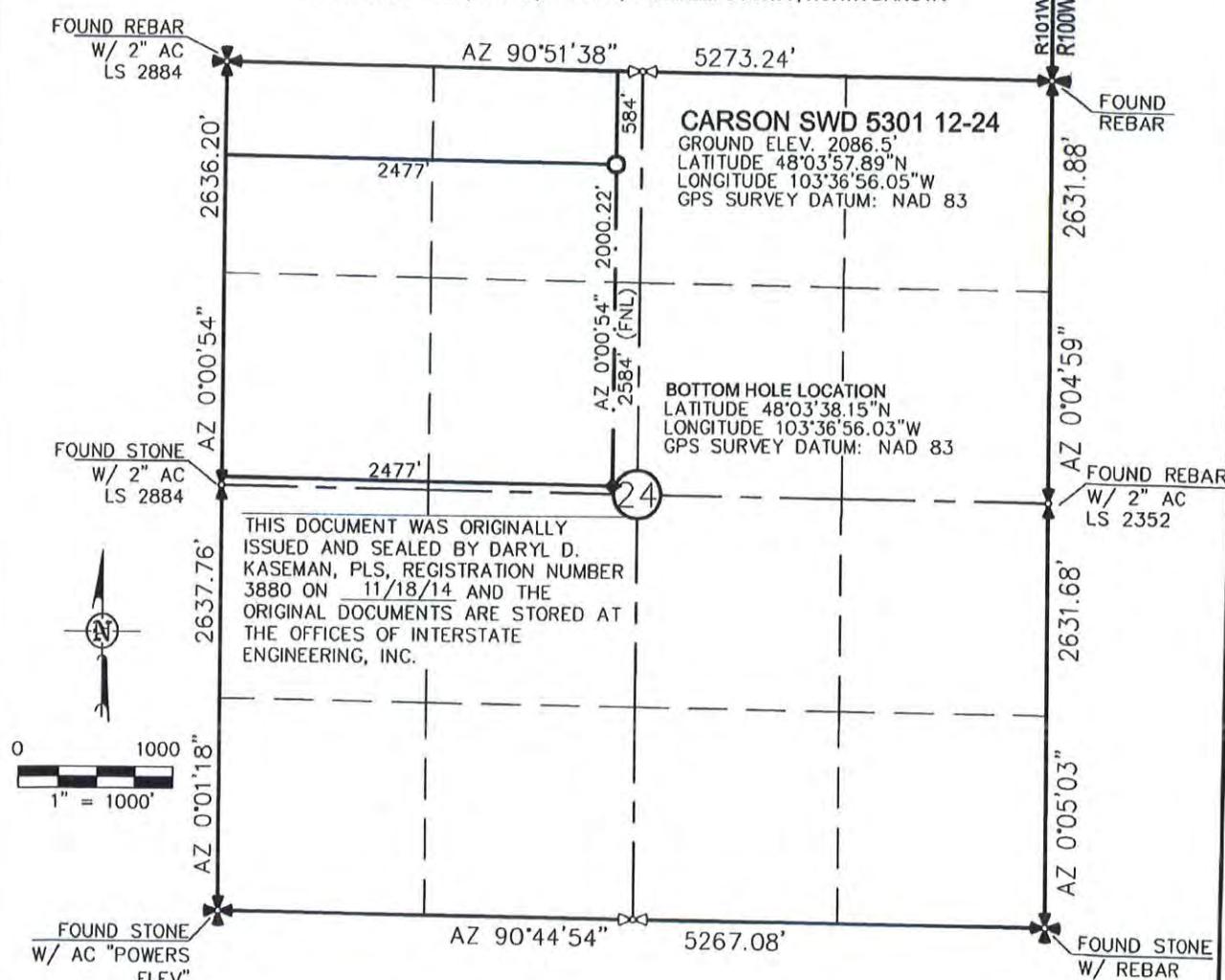
FOR STATE USE ONLY	
Date Approved 3 / 20 / 2015	
By Kevin Connors	
Title UICCCS Supervisor	

REQUIRED ATTACHMENTS: Certified surveyors plat, estimated geological tops, proposed mud/cementing plans, \$100 fee.

WELL LOCATION PLAT
OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002

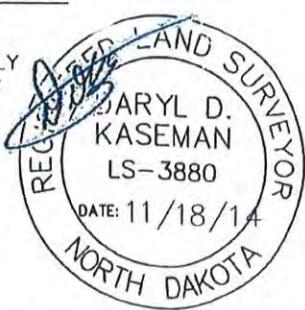
"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
 SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



STAKED ON 11/18/14
 VERTICAL CONTROL DATUM WAS BASED UPON
 CONTROL POINT 130856 WITH AN ELEVATION OF 2089.7'

THIS SURVEY AND PLAT IS BEING PROVIDED AT
 THE REQUEST OF ERIC BAYES OF OASIS
 PETROLEUM. I CERTIFY THAT THIS PLAT CORRECTLY
 REPRESENTS WORK PERFORMED BY ME OR UNDER
 MY SUPERVISION AND IS TRUE AND CORRECT TO
 THE BEST OF MY KNOWLEDGE AND BELIEF.



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 P.O. Box 648
 425 East Main Street
 Sidney, Montana 59270
 Ph (406) 433-5617
 Fax (406) 433-5618
www.Interstateeng.com
 Other offices in Minnesota, North Dakota and South Dakota

OASIS PETROLEUM NORTH AMERICA, LLC
 WELL LOCATION PLAT
 SECTION 24, T153N, R101W
 MCKENZIE COUNTY, NORTH DAKOTA

Drawn By: B.H.H. Project No.: S14-09-254
 Checked By: D.D.K. Date: NOV. 2014

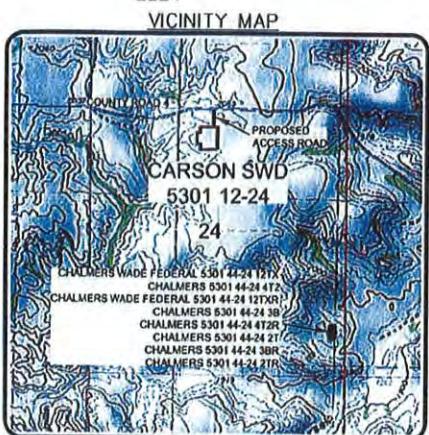
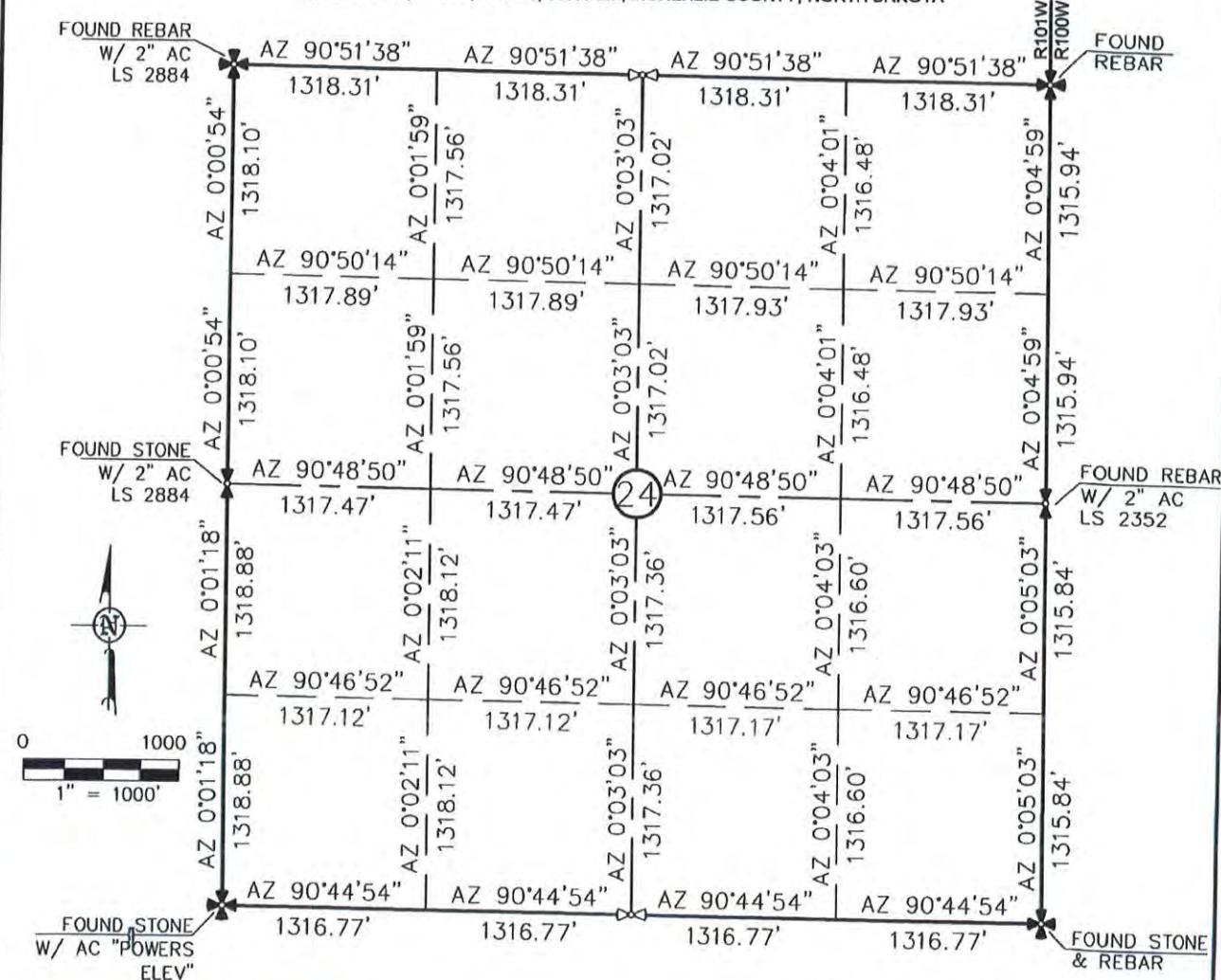
Revision No.	Date	By	Description

SHEET NO.

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SECTION BREAKDOWN
OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002
"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



ALL AZIMUTHS ARE BASED ON G.P.S. OBSERVATIONS. THE ORIGINAL SURVEY OF THIS AREA FOR THE GENERAL LAND OFFICE (G.L.O.) WAS 1901. THE CORNERS FOUND ARE AS INDICATED AND ALL OTHERS ARE COMPUTED FROM THOSE CORNERS FOUND AND BASED ON G.L.O. DATA. THE MAPPING ANGLE FOR THIS AREA IS APPROXIMATELY -0°03'

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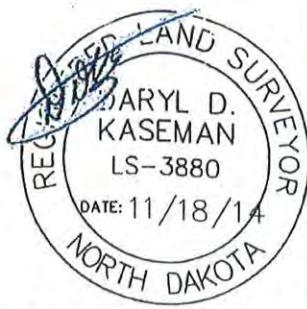
Interstate Engineering, Inc.
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Fax (406) 433-5618
www.interstateinc.com
Other offices in Missoula, North Dakota and South Dakota

OASIS PETROLEUM NORTH AMERICA, LLC
SECTION BREAKDOWN
SECTION 24, T153N, R101W
MCKENZIE COUNTY, NORTH DAKOTA

Drawn By: B.H.H. Project No.: S14-09-254
Checked By: O.O.K. Date: NOV, 2014

Revision No.	Date	By	Description

- MONUMENT - RECOVERED
- MONUMENT - NOT RECOVERED



SHEET NO. /

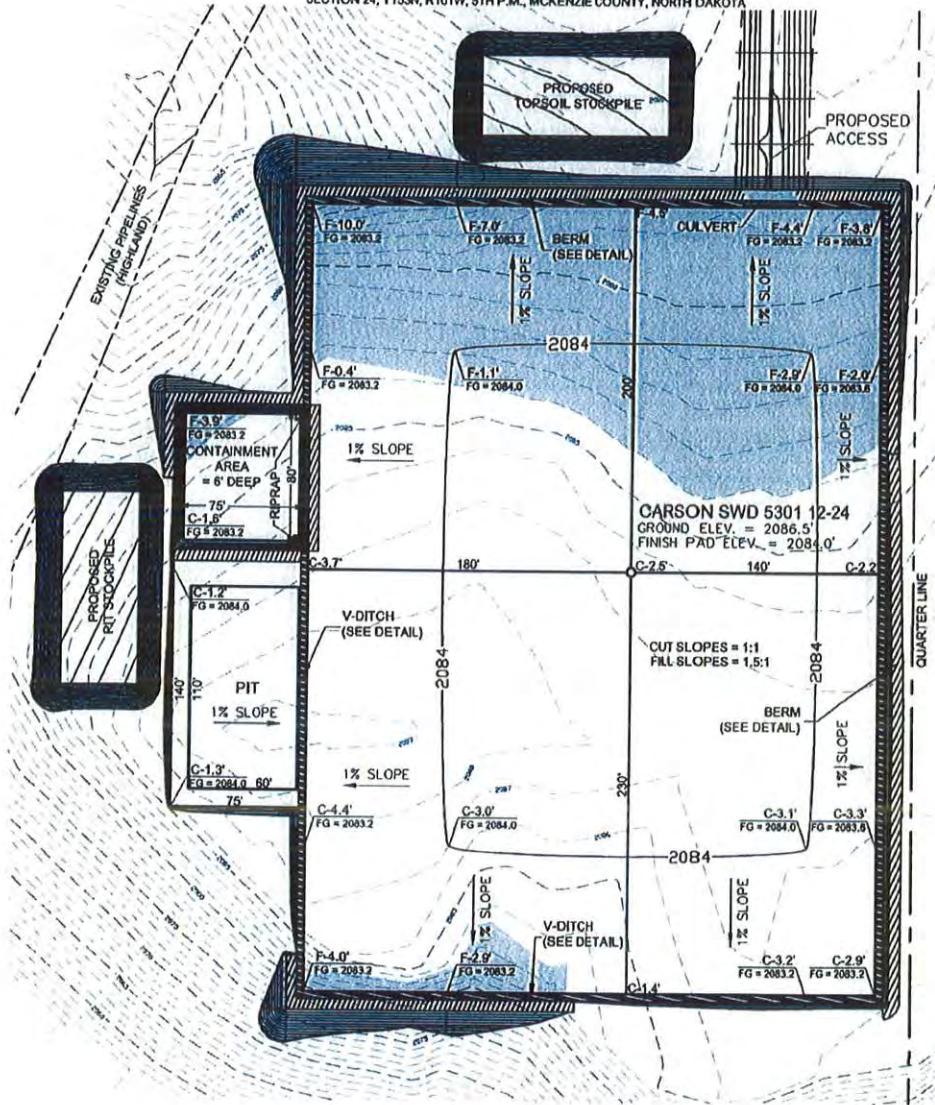
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PAD LAYOUT

OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002

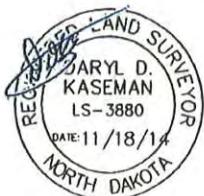
"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA

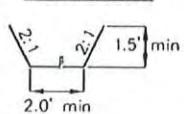


NOTE: Pad dimensions shown are to usable area, the v-ditch and berm areas shall be built to the outside of the pad dimensions.

THIS DOCUMENT WAS ORIGINALLY ISSUED AND SEALED BY DARYL D. KASEMAN, PLS, REGISTRATION NUMBER 3880 ON 11/18/14 AND THE ORIGINAL DOCUMENTS ARE STORED AT THE OFFICES OF INTERSTATE ENGINEERING, INC.



V-DITCH DETAIL



- BERM
- DITCH
- Proposed Contours
- Original Contours



0 60
1" = 60'

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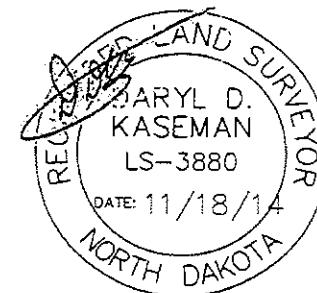
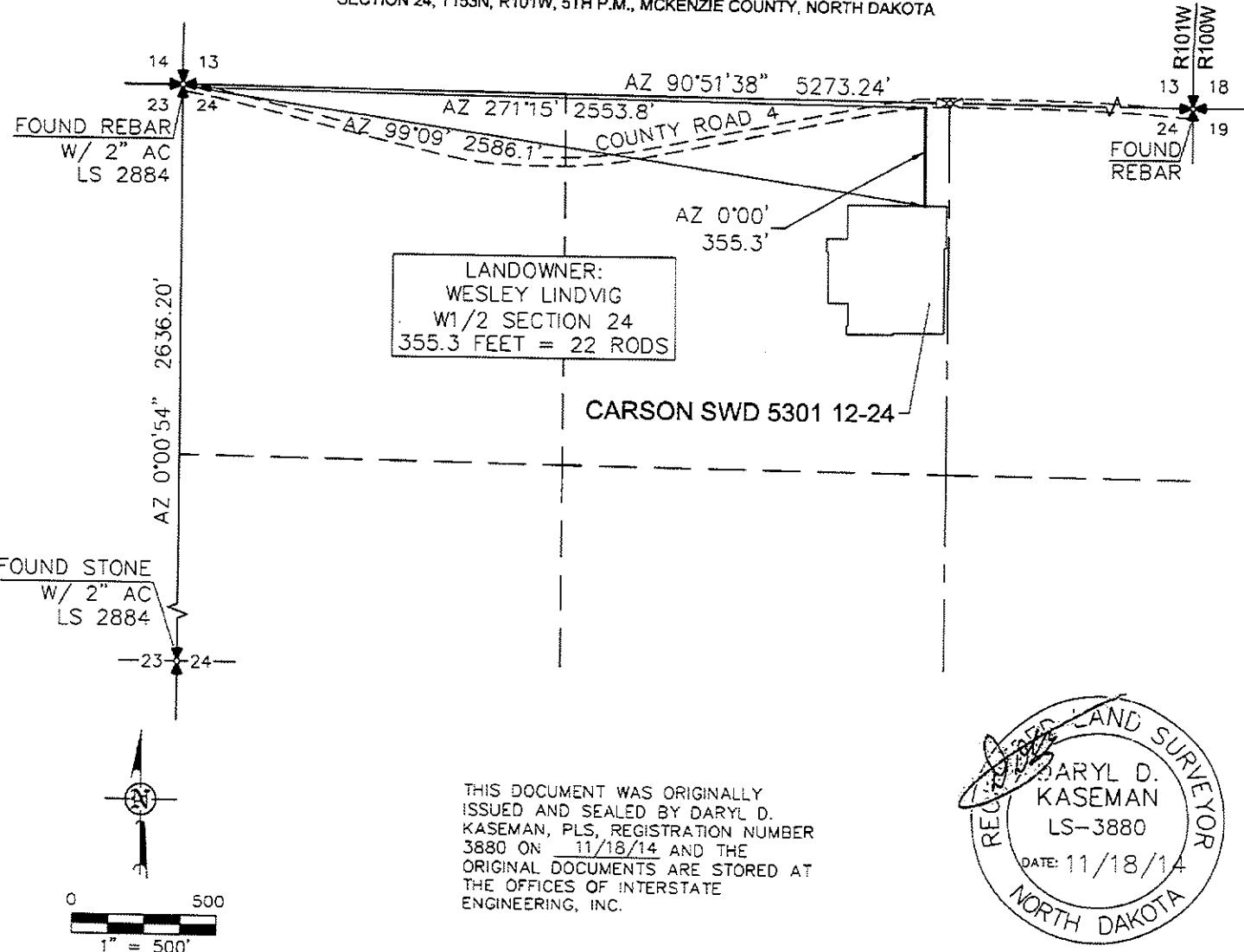
OASIS PETROLEUM NORTH AMERICA, LLC
PAD LAYOUT
SECTION 24, T153N, R101W
MCKENZIE COUNTY, NORTH DAKOTA
Drawn By: B.J.H. Project No.: 514-09-254
Checked By: D.D.K. Date: Nov 20, 2014

Reorder No.	Q'ty	Size	Description

ACCESS APPROACH

OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002
"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



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OASIS PETROLEUM NORTH AMERICA, LLC		Date	Per	Notation
ACCESS APPROACH				
SECTION 24, T153N, R101W				
MCKENZIE COUNTY, NORTH DAKOTA				
Drawn by:	SJH	Project No.:	\$140928	
Checked by:	DOK	Date:	NOV 2014	
www.interstateeng.com Daryl D. Kaseman, PLS, LS-3880				

WELL LOCATION SITE QUANTITIES

OASIS PETROLEUM NORTH AMERICA, LLC
1001 FANNIN, SUITE 1500, HOUSTON, TX 77002

"CARSON SWD 5301 12-24"

584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA

WELL SITE ELEVATION	2086.5
WELL PAD ELEVATION	2084.0
EXCAVATION	12,315
PLUS PIT	3,150
ACCESS ROAD (CUT)	<u>27</u>
	15,492
EMBANKMENT	6,588
PLUS SHRINKAGE (30%)	1,976
ACCESS ROAD (FILL)	<u>1,441</u>
	10.005
STOCKPILE PIT	3,150
STOCKPILE TOP SOIL (6")	3,243
BERMS	1,332 LF = 432 CY
DITCHES	1,420 LF = 217 CY
CONTAINMENT AREA	1,121 CY
STOCKPILE MATERIAL	0
DISTURBED AREA FROM PAD	4.02 ACRES

NOTE: ALL QUANTITIES ARE IN CUBIC YARDS (UNLESS NOTED)

CUT END SLOPES AT 1:1

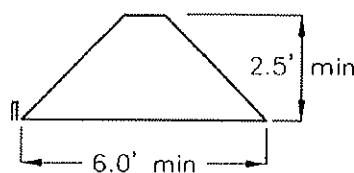
FILL END SLOPES AT 1.5:1

WELL SITE LOCATION

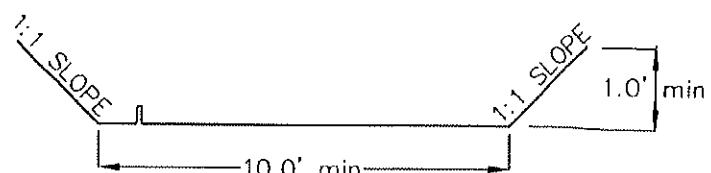
584' FNL

2477' FWL

BERM DETAIL



DIVERSION DITCH DETAIL



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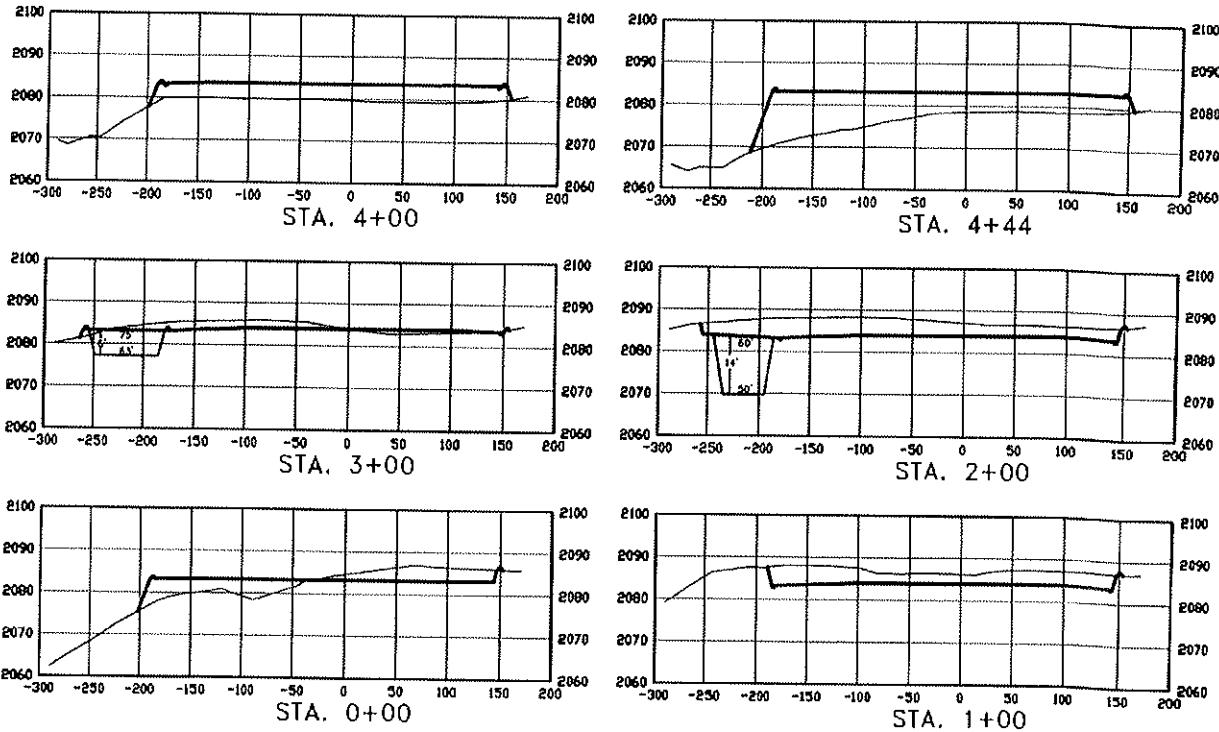
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OASIS PETROLEUM NORTH AMERICA, LLC
QUANTITIES
SECTION 24, T153N, R101W
MCKENZIE COUNTY, NORTH DAKOTA
Drawn By: BHJL Project No: S1609-254
Checked By: DOX Date: NOV 2014

Revision No.	Date	By	Description

CROSS SECTIONS
 OASIS PETROLEUM NORTH AMERICA, LLC
 1001 FANNIN, SUITE 1500, HOUSTON, TX 77002
 "CARSON SWD 5301 12-24"
 584 FEET FROM NORTH LINE AND 2477 FEET FROM WEST LINE
 SECTION 24, T153N, R101W, 5TH P.M., MCKENZIE COUNTY, NORTH DAKOTA



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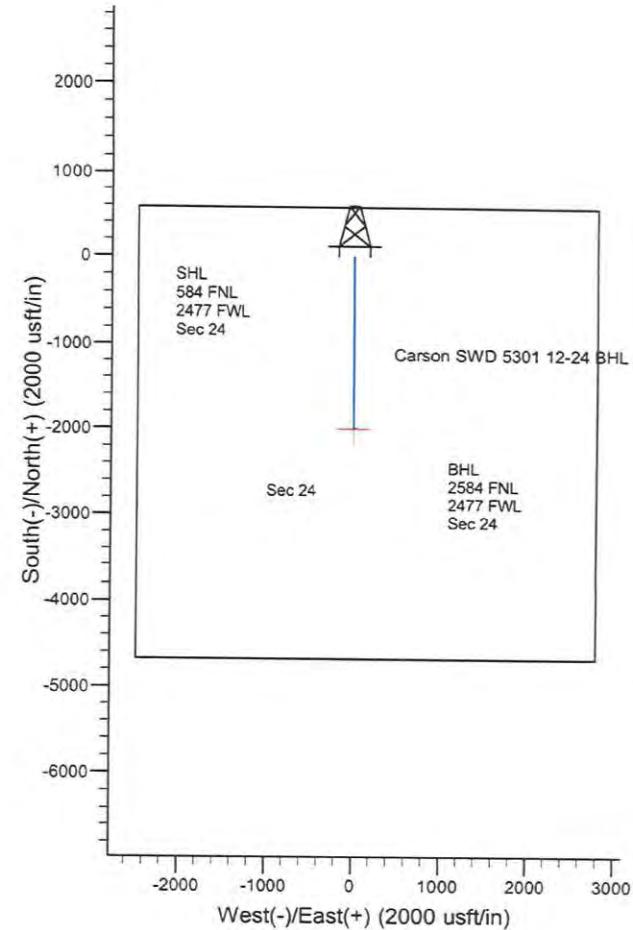
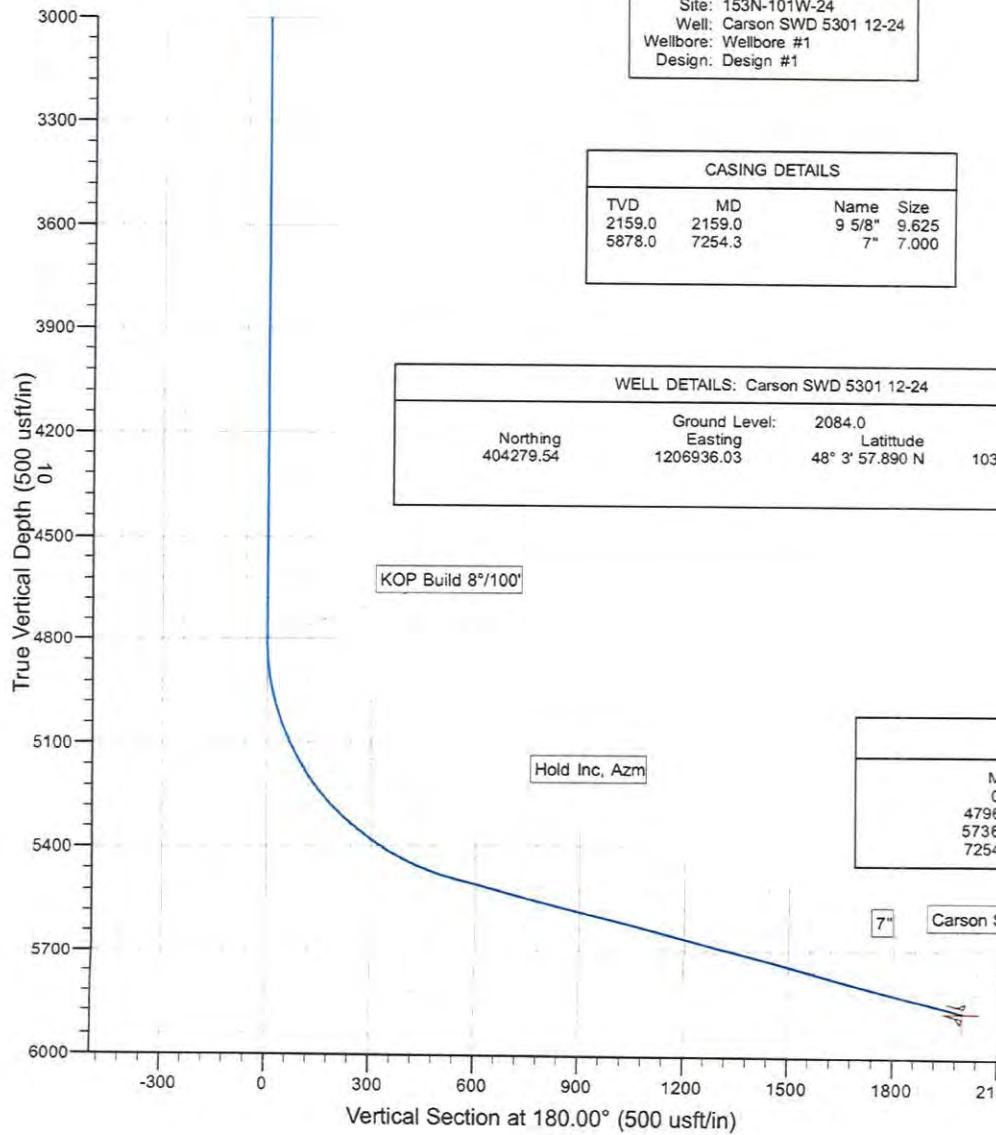
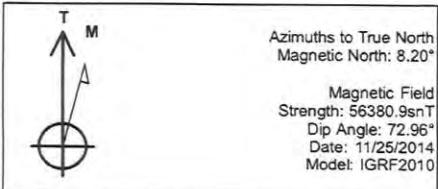
SCALE

HORIZ 1"=160'
 VERT 1"=40'

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FILE NO.	INTERSTATE ENGINEERING	Interstate Engineering, Inc. P.O. Box 648 425 East Main Street Sidney, Montana 59270 Ph: (406) 433-5517 Fax: (406) 433-5618 www.interstateeng.com	OASIS PETROLEUM NORTH AMERICA, LLC PAD CROSS SECTIONS SECTION 24, T153N, R101W MCKENZIE COUNTY, NORTH DAKOTA	Revision No. Date By Description
			Drawn By: B.H.H. Project No.: 61409254 Checked By: D.D.K. Date: NOV, 2014	

DRILLING PLAN								
PROSPECT/FIELD	Cottonwood Field	SLANT DAKOTA WATER DISPOSAL WELL	COUNTY/STATE	Mountrail Co., ND				
OPERATOR	Oasis Petroleum		RIG	TBD				
WELL NAME	Carson SWD 5301 12-24							
LOCATION	Surface Location (survey plat):							
EST. T.D.	7,254			GROUND ELEV:	2084	Finished Pad Elev.	Sub Hieght: 25	
				KB ELEV:	2109			
PROGNOSIS:	Based on 2,109' KB(est)		LOGS:	Type	Interval			
MARKER	DEPTH (Surf Loc)	DATUM (Surf Loc)	OH Logs: None					
Pierre	2,059	50	CBL/GR: Above top of cement/GR to base of casing					
Greenhorn	4,606	-2497						
Mowry	4,997	-2888						
Newcastle	5,126	-3017						
Dakota Top	5,421	-3312						
First Dakota Sand Top	5,489	-3380						
First Dakota Sand Base	5,544	-3435						
Second Dakota Sand Top	5,671	-3562						
Second Dakota Sand Base	5,709	-3600						
Third Dakota Sand Top	5,779	-3670						
Third Dakota Sand Base	5,863	-3754						
TD well	5,878	-3769	DST'S:	None planned				
Swift	6,061	-3952						
Rierdon	6,377	-4268	CORES:	None planned				
MUDLOGGING: 30' samples during curve and through Dakota								
BOP: 11" 5000 psi blind, pipe & annular								
Max. Anticipated BHP:	2370	Surface Formation: Glacial till						
MUD:	Interval	Type	WT	Vls	WL	Remarks		
Surface	0' -	2,159' FW/Gel Lime Sweeps	8.6 - 8.9	28-34	NC	Circ Mud Tanks		
Intermediate	2,159' -	7,254' Invert	9.0-10.0	40-60	HTHP	Circ Mud Tanks		
CASING:	Size	Wt pcf	Hole	Depth	Cement	WOC	Remarks	
Surface:	9 5/8"	36	13 1/2"	2,159	To surface	12 hours		
Intermediate:	7"	26	8 3/4"	7,254	2,159	12 hours	Back to srf shoe	
PROBABLE PLUGS, IF REQ'D: Plug from TD of vertical = 5,965' to 150' above KOP = 4,800'. Total of 1,140'								
OTHER:	MD	TVD	FNL/FSL	FEEL/FWL	S-T-R	AZI		
Surface:	2,159	2,159	584' FNL	2477' FWL	T163N-R101W-Sec. 24		Build Rate: 8 deg /100'	
KOP:	4,797	4,797	584' FNL	2477' FWL	T163N-R101W-Sec. 24			
EOC:	5,736	5,489	1117' FNL	2477' FWL	T163N-R101W-Sec. 24	180.0		
Dakota Slant TD/ Casing Point	7,254	5,878	2584' FNL	2477' FWL	T163N-R101W-Sec. 24	180.0		
Comments:								
MWD survey every 100'. Place Cement Kickoff Plug T1H with 8-3/4" Curve assembly and build curve. MWD Survey every 30'. Land Curve , top of Dakota formation Drill slant with 8-3/4" bit and rotate down to TD. MWD Survey every 30'. Run 7" casing and cement Reserve pit fluids will be hauled to the nearest disposal site/Reserve pit solids will be solidified and reclaimed in the lined reserve pit								
Geology: BMC 10-30-2014				Engineering: Agonzalez 11-25-14				



SECTION DETAILS							
MD	Inc	Azi	TVD	+N/S	+E/W	Deg	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	
4796.7	0.00	0.00	4796.7	0.0	0.0	0.00	
5736.1	75.15	180.00	5489.0	-532.7	0.0	8.00	
7254.3	75.15	180.00	5878.0	-2000.2	0.0	0.00	Carson SWD 5301 12-24 BHL

Oasis

Indian Hills

153N-101W-24

Carson SWD 5301 12-24

Wellbore #1

Plan: Design #1

Standard Planning Report

20 March, 2015

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	OpenWellsCompass - EDM Prod Oasis Indian Hills 153N-101W-24 Carson SWD 5301 12-24 Wellbore #1 Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Carson SWD 5301 12-24 WELL @ 2109.0usft (Original Well Elev) WELL @ 2109.0usft (Original Well Elev) True Minimum Curvature							
Project Indian Hills										
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 North Dakota Northern Zone	System Datum:	Mean Sea Level							
Site 153N-101W-24										
Site Position: From: Position Uncertainty:	Northing: Lat/Long 0.0 usft	Easting: 1,206,936.03 usft Slot Radius: 13.200 in	Latitude: Longitude: Grid Convergence: 48° 3' 57.890 N 103° 36' 56.050 W -2.32 °							
Well Carson SWD 5301 12-24										
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft 2.0 usft	Northing: Easting: Wellhead Elevation: 404,279.54 usft 1,206,936.03 usft Ground Level: 48° 3' 57.890 N 103° 36' 56.050 W 2,084.0 usft							
Position Uncertainty										
Wellbore Wellbore #1										
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)					
	IGRF2010	11/25/2014	8.20	72.96	56,381					
Design Design #1										
Audit Notes:										
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0					
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)					
		0.0	0.0	0.0	180.00					
Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,796.7	0.00	0.00	4,796.7	0.0	0.0	0.00	0.00	0.00	0.00	
5,736.1	75.15	180.00	5,489.0	-532.7	0.0	8.00	8.00	-19.16	180.00	
7,254.3	75.15	180.00	5,878.0	-2,000.2	0.0	0.00	0.00	0.00	0.00	Carson SWD 5301 12

Planning Report

Database:	OpenWellsCompass - EDM Prod	Local Co-ordinate Reference:	Well Carson SWD 5301 12-24
Company:	Oasis	TVD Reference:	WELL @ 2109.0usft (Original Well Elev)
Project:	Indian Hills	MD Reference:	WELL @ 2109.0usft (Original Well Elev)
Site:	153N-101W-24	North Reference:	True
Well:	Carson SWD 5301 12-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,059.0	2,152.0	Pierre			
4,606.0	4,699.0	Greenhorn			
4,999.7	5,090.0	Mowry			
5,554.9	5,514.0	Dakota Top			
5,736.2	5,582.0	First Dakota Sand Top			
5,950.8	5,637.0	First Dakota Sand Base			
6,446.5	5,764.0	Second Dakota Sand Top			
6,594.8	5,802.0	Second Dakota Sand Base			
6,867.9	5,872.0	Third Dakota Sand Top			
7,195.8	5,956.0	Third Dakota Sand Base			
7,254.3	5,971.0	TD well			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
		+N/S (usft)	+E/W (usft)		
4,796.7	4,796.7	0.0	0.0	KOP Build 8°/100'	
5,736.1	5,489.0	-532.7	0.0	Hold Inc, Azm	

Oasis Petroleum
Well Summary
Carson SWD 5301 12-24
Section 24 T153N R101W
Mckenzie County, ND

SURFACE CASING AND CEMENT DESIGN

Size	Interval	Weight	Grade	Coupling	I.D.	Drift	Make-up Torque (ft-lbs)		
							Minimum	Optimum	Max
9-5/8"	0' - 2159'	36	J-55	LTC	8.921"	8.765"	3400	4530	5660

Interval	Description	Collapse (psi) / a	Burst (psi) / b		Tension (1000 lbs) / c
			2020 / 1.99	3520 / 3.48	
0' - 2159'	9-5/8", 36#, J-55, LTC, 8rd				453 / 2.71

API Rating & Safety Factor

- a) Collapse based on full casing evacuation with 9 ppg fluid on backside (2159' setting)
- b) Burst pressure based on 9 ppg fluid with no fluid on backside (2159' setting depth).
- c) Based on string weight in 9 ppg fluid at 2159' TVD plus 100k# overpull. (Buoyed weight equals 67k lbs.)

Cement volumes are based on 9-5/8" casing set in 13-1/2 " hole with 60% excess to circulate cement back to surface.
Mix and pump the following slurry.

Pre-flush (Spacer): **20 bbls** fresh water

Lead Slurry: **462 sks** (244 bbls), 11.5 lb/gal, 2.97 cu. Ft./sk Varicem Cement with 0.125 il/sk Lost Circulation Additive

Tail Slurry: **173 sks** (62 bbls), 13.0 lb/gal, 2.01 cu.ft./sk Varicem with .125 lb/sk Lost Circulation Agent

**Oasis Petroleum
Well Summary
Carson SWD 5301 12-24
Section 24 T153N R101W
McKenzie County, ND**

INTERMEDIATE CASING AND CEMENT DESIGN

Size	Interval	Weight	Grade	Coupling	I.D.	Drift**	Make-up Torque (ft-lbs)		
							Minimum	Optimum	Max
7"	0' - 7254'	26	L-80	LTC	6.276"	6.151	3900	4900	5900

**Special Drift"

Interval	Length	Description	Collapse		Burst	Tension
			(psi) a	(psi) b	(1000 lbs) c	
0' - 7254'	7254'	7", 26#, L-80, LTC, 8rd	5410 / 1.76*	7240 / 1.44	519 / 1.99	

API Rating & Safety Factor

- a) *Assume full casing evacuation with 10 ppg fluid on backside. **Assume full casing evacuation with psi/ft equivalent fluid gradient across salt intervals.
- b) Burst pressure based on 5000 psig max press for stimulation plus 10 ppg fluid in casing and 10 ppg fluid on backside-to 5878' TVD.
- c) Based on string weight in 10 ppg fluid, (160k lbs buoyed weight) plus 100k lbs overpull.

Cement volumes are estimates based on 7" casing set in an 8-3/4" hole with 30% excess.

Mix and pump the following slurry

Pre-flush (Spacer): **100 bbls** Saltwater
20bbls Tuned Spacer III

Lead Slurry: **216 sks** (100 bbls), 11.8 ppg, 2.55 cu. ft./sk Econocem Cement with .3% Fe-2 and .25 lb/sk Lost Circulation Additive

Tail Slurry: **293 sks** (86 bbls), 14.0 ppg, 1.55 cu. ft./sk Extendcem System with .2% HR-5 Retarder and .25 lb/sk Lost Circulation Additive



12/9/2014

Victoria Siemieniewski
Regulatory Specialist
Oasis Petroleum
1001 Fannin St.
Suite 1500
Houston, TX 77002

Kevin Connors
UIC/CCS Supervisor
North Dakota Industrial Commission
600 East Boulevard Avenue Dept. 405
Bismarck, ND 58505-0840

RE: Carson SWD 5301 12-24
Request for a legal street address

Dear Mr. Connors:

Oasis Petroleum has requested a physical street address for the subject well/well facility. The request was made to Aaron Chisholm, GIS Specialist, McKenzie County. Upon receiving a legal street address, Oasis will submit the address to the NDIC on a Sundry Notice (form 4) pursuant to 43-02-03-28.

Thank you for your consideration.

Respectfully,

A handwritten signature in black ink, appearing to read "Victoria Siemieniewski".

Victoria Siemieniewski
Regulatory Specialist
Oasis Petroleum
281-404-9652



3/3/2015

Michael Kukuk
Regulatory Supervisor
Oasis Petroleum
1001 Fannin St.
Suite 1500
Houston, TX 77002

Kevin Connors
UIC/CCS Supervisor
North Dakota Industrial Commission
600 East Boulevard Avenue Dept. 405
Bismarck, ND 58505-0840

RE: Carson SWD 5301 12-24
Request for approach permit

Dear Mr. Connors:

Oasis Petroleum has requested a county approach permit for the subject well. If you prefer, Oasis will submit confirmation of receipt to your attention via email.

Thank you for your consideration.

Respectfully,

A handwritten signature in black ink that reads "Michael Kukuk".

Michael Kukuk
Regulatory Supervisor
Oasis Petroleum
281-404-9575