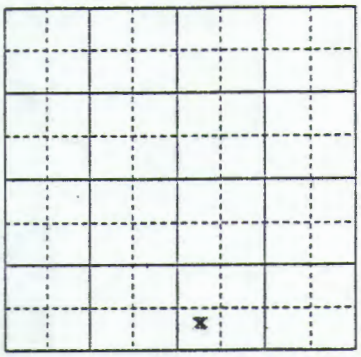
STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

RECEIVED
AUG 26 1996
Div. of Minerals

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

(Application must be accompanied by $50 permit fee. Submit proposed drilling program with this application.)

Company or Operator Eagle Springs Production, L.L.C.
Send permit to: 2561 South 1560 West, Suite 200
Street or P.O. Box _____ City Woods Cross State UT
Zip 84087 Telephone (801)298-9866
Lease name Ghost Ranch Federal Well No. 58-35 within the SW¼ ¼ SW¼ ¼ SE¼



Section 35

Locate well correctly.

Sec 35, T. 9N, R. 57E M.D.B.M.
Field Ghost Ranch, County Nye
The well is 345.05 feet from (N) (S) line and 2100.51 feet from (E) (W) line of the section. (Give location from section line, cross out wrong directions.)
Distance and direction from nearest town 15 Mi. South of Currant, NV
If patented land, fee owner is _____
Address _____
If government land, lease serial No. is NVN-42341
Address P. O. Box 12000, Reno, NV 89520
Lessee is Eagle Springs Production, L.L.C.
Address 2561 South 1560 West, Suite 200
Woods Cross, UT 84087

RECEIVED
SEP 19 1996
NBMG Information Office

It is proposed to drill the well to a depth of 5000 feet using a rotary rig. The elevation is 4745.53 feet above sea level. The KB will be 18'.
If this is a wildcat well, attach plat by licensed surveyor showing location.
The status of a bond for this well is conformance with NRS 522.230 of the Nevada Revised Statues is Statewide bond (Certificate of Deposit 1853213, Bank of Utah, $50,000).
If bond posted with U.S. Government, what is name of surety company? _____
_____. Bond number? _____.

I certify that I have personal knowledge of the facts above stated and that they are true, correct, and complete.

Signed Bruce C Decker
Name Bruce C. Decker
Position Manager
Date August 21, 1996

Permit No. 789
API No. 27-023-05544
Approval date September 6, 1996
By ORIGINAL SIGNED BY RUSS FIELDS
ADMINISTRATOR

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
4220 S. Maryland Pkwy.
Suite 304
Las Vegas, Nevada 89119
(702) 486-7250
Fax (702) 486-7252

RUSSELL A. FIELDS
Administrator

RECEIVED
SEP 19 1996
NBMG Information Office

September 6, 1996

OIL AND GAS WELL PERMIT NOTICE

Applications for Permits to Drill an Oil or Gas Wells have been approved by the Nevada Division of Minerals, Department of Business and Industry, for the following wells:

Permit Number 788, API Number 27-023-05543, for the Blue Eagle Springs #5-15 Well has been issued to Big West Oil & Gas, Inc., 333 West Center Street, North Salt Lake, Utah 84054, (801) 296-7700. The well will be located in the SW¼ NW¼ of Section 15, T.8N, R.57E, in Nye County. The location of the well will be 1650' from the north line and 500' from the west line of the section. The elevation is 4,732' and the proposed depth is 9,500'. The proposed site is located approximately 15 miles south-southwest of Currant, Nevada.

Permit Number 789, API Number 27-023-05544, for Ghost Ranch Federal #58-35 Welll has been issued to Eagle Springs Production LLC, 2561 South 1650 West, #200, Woods Cross, Utah 84087, (801) 298-9866. The well will be located in the SW¼ SW¼ SE¼ of Section 35, T.9N, R.57E, in Nye County. The location of the well will be 345.05' from the south line and 2100.51' from the east line of the section. The elevation is 4,745.53' and the proposed depth is 5,000'. The proposed site is located approximately 15 miles south of Currant, Nevada.

Permit Number 790, API Number 27-023-05545, for Grant Canyon #21-12 Well has been issued to Makoil, Inc., 6655 W. Sahara Avenue #B-200, Las Vegas, Nevada 89102, (714) 939-7560. The well will be located in the SW¼ NW¼ of Section 21, T.7N, R.57E, in Nye County. The location of well will be 1800' from the north line and 1250' from the west line of the section. The elevation is 4,731' and the proposed depth is 4,100'. The proposed site is located approximately 21 miles south of Currant.

These wells were permitted on September 6, 1996 and will expire on September 6, 1998, in the event the wells are not drilled.

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
4220 S. Maryland Pkwy.
Suite 304
Las Vegas, Nevada 89119
(702) 486-7250
Fax (702) 486-7252

RUSSELL A. FIELDS
Administrator

September 6, 1996

Bruce Decker
Manager
Eagle Springs Production, LLC
2561 South 1560 West #200
Woods Cross, UT 84087

RECEIVED
SEP 19 1996
NBMG Information Office

Re: Ghost Ranch Federal #58-35, Permit #789

Dear Mr. Decker:

With this letter, I am sending the original signed permit for Eagle Springs Production's Ghost Ranch Federal #58-35, Permit #789, located in Nye, Nevada. This permit will expire on September 6, 1998, in the event the well is not drilled.

During drilling, upon completion of the well, and during production (if applicable), submission of certain forms and other actions are required as described in the Nevada Regulations and Rules of Practice and Procedure. Most of these requirements are summarized in the enclosed permit conditions.

It will be required, with permit #789, that the bottom hole location be verified by a survey and must be 330 feet from the boundary line between Section 35 and Section 2 of the next township south.

Please be advised that samples of cuttings shall be collected at 30' intervals from surface to the surface casing point, and on 10' intervals from the surface casing shoe to total depth. A minimum of two sets of cuttings per sampling interval must be sent to the Nevada Bureau of Mines and Geology.

Sincerely,

Russ Fields

Russ Fields

RF:lw
Enclosures

cc: Steve Wells, BLM, Nevada State Office
John Stout, BLM, Ely District Office
Nevada Bureau of Mines and Geology

EAGLE SPRINGS PRODUCTION, LLC

DRILLING PROGNOSIS
Ghost Ranch Fed. #58-35
SW¼ SW¼ SE¼ Section 35, T9N, R57E
Proposed Total Depth: 5000'

Location:

Located approximately 15 miles south of Currant, Nevada.

Estimated Formation Tops

Formation	Depth
Valley Fill	Surface
Unconformity "A" Paleozoics	4300'

RECEIVED
SEP 19 1996
NBMG Information Office

Anticipated Oil Bearing Zones

Formation	Depth
Unconformity "A" Paleozoics	4300'

Anticipated Pressures and Hole Problems

All available pressure data from Railroad Valley indicate a pressure gradient just slightly higher than hydrostatic in all zones and formations tested. No abnormal pressures are expected.

In the shallow valley fill, some problems with hole stability may be encountered. Also, rapid rates of penetration may cause build-up of cuttings in annulus. Clays within the volcanic sequence can rapidly build up mud weight which must be controlled. In Railroad Valley, only minor to moderate loss of circulation has been noted. Loss of circulation problems typically have been successfully treated with LCM. Nevada's asphaltic crude is susceptible to emulsion blocks and oil wetting of the reservoir, especially in clastic sequences. Water loss and mud weight must be controlled to prevent damage. Proper implementation of the mud program, including tight control of the hydraulics and mud properties, and a properly functioning mud cleaning system is critical to success of the drilling program.

Steeper dips which may be encountered in the Paleozoic section may create deviation problems. Sufficient deviation surveys and use of various bottom hole assemblies are required to prevent excessive deviation.

RECEIVED
SEP 19 1996
NBMG Information Office

Mud Program

Depth	Weight	Visc.	F.L.
0' - 500'	8.7-9.0	40-55	15

Surface interval to be drilled with mud properties and hydraulics sufficient to clean hole. Viscosity will be adjusted to provide good carrying capacity. Section may be drilled with controlled rate of penetration to prevent build up of cuttings in annulus.

Depth	Weight	Visc.	F.L.
500' - 5000'	8.8-9	35-40	4-10

Drill below surface casing with low solids non-dispersed polymer mud. Primary concern when drilling is retaining low mud weight by utilizing centrifuge for solids control. Based on other wells in this area, minimal loss of circulation is expected. Loss of circulation to be treated with cottonseed hulls, cedar fiber, mica, etc.

A properly functioning shale shaker with ~80 mesh screens, a desander, and a desilter (preferably 10 or 12 cone) capable of processing 600-800 GPM will be used for solids control. A 200 GPM centrifuge will be used for solids control.

Logging Program

Sample Collection: Samples will be caught every 30' to 500' and every 10' from 500' to T.D., dried, and bagged.

Mud Logging: FID and gas chromatograph from surface casing to total depth.

Open Hole Logs:

1. Dll-Gr-Sp-Cal from base of surface casing to TD.

2. GR-Sonic from base of surface casing to TD.

3. FDC-CNL-Cal-GR and Dipmeter as directed by on-site geologist.

No coring is anticipated during drilling.

DST's and sidewall cores may be taken at the direction of the on-site geologist.

Casing Program

Conductor: ~60' of 20" conductor to be set in 24" hole and cemented by rat hole driller prior to move in of drilling rig.

RECEIVED

SEP 19 1996

Mining Information Office

Surface Casing: 500' of 9 5/8" OD, 36#, J-55. Cement around shoe with 100% excess. Top job with macaroni tubing if cement falls.

Production Casing: Drill out with an 8 3/4" bit to T.D. or intermediate setting a 7" casing.

The following are minimum values for new casing:

9 5/8" 36#/ft.	J-55	ST&C	Set at 500'	with 9# Mud
Collapse	2,020	psi	Safety factor used	1.125
Yield	3,520	psi	Safety factor used	1.000
Jt. Strength	394,000	lbs	Safety factor used	1.800

7" 23#/ft.	J-55	ST&C	Set 0-5000'	with 9# Mud
Collapse	3,270	psi	Safety factor used	1.125
Yield	4,360	psi	Safety factor used	1.000
Jt. Strength	284,000	lbs	Safety factor used	1.800

These values will exceed any anticipated design for setting depth of 5000' or less.

Cementing Program

Surface Casing: 12 1/4" hole with 500' of 9 5/8" casing.

Lead: 300' to surface w/100% excess, 80 sacks of "Light" cement w/2% CaCl and .25 lb/sack Flocele or equivalent, weight = 12.7 lb/sack, yield = 1.84 cu. ft/sack, water = 8.8 gal/sack.

Tail: 300'-400' w/100% excess, 60 sacks of standard cement w/2% CaCl and .25 lb/sack Flocele or equivalent, weight = 12.7 lb/sack, yield = 1.84 cu. ft/sack, water = 9.9 gal/sack.

If cement column falls, a top job will be performed.

Production Casing: 8 3/4" hole with 6000' of 7" casing, actual fill-up to be determined based on reservoir depth and thickness. Location and thickness of potential reservoirs and use of packer-cementer will modify final cement design program.

Lead: ~1000', 2/15% excess, 50 sacks of "Light" x/0.6% Halad, weight = 12.7 lb/gal, yield = 1.84 cu. ft/sack, water = 8.8 gal/sack, actual volume based on caliper log.

Tail: ~500' above top zone to be tested w/15% excess, estimated w/1500': 150 sacks of premium cement w/.5% CFR-3, .30% SSA-1 and .25% HR-12, .3% Halad, weight = 15.6 lb/sack, yield = 1.50 cu. ft/sack, water = 6.4 gal/sack.

Final programs may vary as to volumes and actual well bore conditions.

RECEIVED
SEP 19 1996
NBMG Information Office

Drilling Procedure

1. Build road and location to specs required for rig.

2. Set conductor, drill rathole, mousehole, and sanitation holes.

3. Notify appropriate governmental authority (State of Nevada or BLM) of pending spud date.

4. Mi and RU rig.

5. Spud 12 1/4" surface hole and drill to ~500' using recommended mud program. Catch 30' samples from surface to SD. Monitor deviation with teledrift tool. Control drill rate if necessary to avoid solids build up.

6. Run and cement 9 5/8" 36#, J-55. Cement around shoe with 100% excess. Top job with macaroni tubing if cement falls.

7. Notify appropriate governmental authority of time for BOP test. Nipple up BOPE. Test BOP and choke manifold to 1800 psi or as directed. Minimum BOPE will be used as described in the attached BOP information sheets.

8. Mud logger to be rigged up and operative at 500'.

9. RIH with 8 3/4" bit, drill out float collar, cement, and shoe plus 100' of formation. Dump contaminated mud to reserve pit, switch to LSND polymer based mud system.

10. Trip to pick up stiff assembly made up with a near bit IBS, short drill collar, string IBS, 6" drill collar, string IBS and 437 type bit.

11. Drill 8 3/4" hole to T.D., following recommended bit and mud programs. Keep solids as low as possible to provide minimum mud weight. Monitor deviation with teledrift, drop instrument on trips to confirm. Use BHA as determined by well site personnel.

12. At 5000', condition mud and hole. Run open hole logging program and evaluate for completion or P&A.

13. If well is to be completed, run and cement 7" casing following casing and cementing programs.

14. If well is dry, notify all concerned parties and appropriate government personnel. P&A according to government requirements.

RECEIVED
SEP 19 1996
NBMG Information Office

Water Sources and Impacts

Eagle Springs Production anticipates following the procedure below to obtain temporary water for purposes of well drilling and culinary use.

1. Ascertain if agricultural or mining water wells or springs are available and within economic hauling distance, and if current users are amenable, file for a temporary use of up to 150,000 gallons during a 20-day period with the Nevada Division of Water Resources. Upon obtaining written approval from the Department of Conservation and Natural Resources, haul water in 90 bbl. steel tank trucks to drilling location over location access roads.

2. If No. 1 above not available, apply for a water well waiver for drilling and temporary use of water for drilling of the oil well from Nevada Division of Water Resources. Contract with Nevada licensed water well driller to drill up to 500 ft. to obtain minimum 70 gpm.

3. If No. 2 above does not produce adequate water, expand hauling distance for No. 1 to next available source.

4. After a water source is secured, water is tested for culinary use and chemical compatibility with drilling muds. If suitable, the water is used to fill portable potable tanks for use of crews at the location and to fill the rig water tanks.

5. If a water well is drilled to supply any oil well location and it is determined that water from such well can be delivered to one or more oil well locations, Eagle Springs Production will apply to the Division of Water Resources for a waiver for such use, and request BLM approval concerning the route of a temporary surface water supply line running from the initial location to subsequent locations. This procedure has been used successfully at the North Willow Creek field where the NWC #1-27 well subsequently supplied the #2-27 and #5-27 wells.

Due to the relatively small amount of water used for oil well drilling (.47 ac.ft.) compared to agricultural use, and the review of the Nevada Division of Water Resources prior to issuance of a waiver, no impact to ground or surface water supplies is anticipated.

Period of Operation

Eagle Springs Production anticipates that drilling will begin approximately September 15, 1996. The well will take between fifteen and twenty days to complete barring unforseen problems. Wells are drilled 24 hours per day, seven days per week with two

RECEIVED
SEP 19 1996
Public Information Office

crews rotating 12-hour shifts. Due to the remoteness of the locations and sparse population, no impacts due to traffic, noise or other activities at the site are anticipated.

Cultural Resources

No cultural resources were located during archaeological inventory of the proposed access road and wellsite and therefore, Eagle Springs Production's location for the Ghost Ranch Fed. #58-35 will have no effect on historic properties. (A copy of R. K. Vierra & Associates' negative report is attached hereto.)

Right-of-Way

The drilling rig is transported in approximately 25 trips by semi-tractor trailers. The route will utilize Highway 6 south 10 miles to Currant to a gravel county road, then 5 miles east to a single track lease road which extends south approximately 1000' to the drillsite.

All roads are public right-of-way or existing lease roads.

Operations During Drilling

Production testing will be to test tanks only. No oil will be permitted into the reserve pit except in emergency situations.

Wire trash baskets will be placed at the pad and hauled to the nearest municipal disposal facility (Currant/Ely). No trash will be left on or adjacent to the sites. No trash will be buried on the project area.

The reserve pit will be fenced on three sides. Upon removal of the drill rig, the fourth side of the pit shall be fenced. The pit shall remain fenced until reclaimed. If any oil is spilled, it shall be immediately cleaned up to prevent contact with avian life.

Living Quarters/Crew Facilities

Key supervisory personnel, including the drilling engineer, mud engineer, tool pushers, geologist, and mud logger, must oversee drilling operations on a 24-hour basis once drilling has begun. Five 8 x 32 foot (approx.) trailers will be located at the pad to house these personnel. In addition, a utility-communication/computer trailer will locate adjacent to the drilling engineer's trailer. Water is supplied from a 100 bbl. insulated tank. Bottled water is used for culinary purposes. Sanitation for these trailers is handled per the procedure described in the attached permit request to the Nevada Department of Health. One portable chemical toilet will be located on the drillsite for the use of the drilling crews.

All trailers and equipment will be removed at the completion of drilling.

Abandonment Program

Eagle Springs Production will obtain approval for its abandonment program prior to plugging the well. Sundry notice of such plan will be submitted to the BLM office within five business days of verbal approval of program. If no logs are run, all open sections of hole will be filled with cement in a manner which precludes interzonal migration of fluids.

Reclamation

1. Topsoil/growth medium will be salvaged and stockpiled from roads and pads, so as to be available for respreading over the reclaimed, disturbed areas.

2. A BLM seed mixture will be applied to all disturbed areas after reshaping of the surface. The seeding will be done in the spring to ensure that the seed is set in contact with the mineral soil.

3. All gravel used to construct the well drilling pad will be pushed into the reserve pit and buried, or covered with top soil, or removed and replaced in the original source area.

4. The reserve pit will, when dry, be reshaped to a natural appearing surface. Stockpiles of topsoil/growth medium will be spread over the reclaimed surface to a minimum depth of nine inches and seeded with the BLM approved seed mix. Seed will be applied with a drill, or other BLM approved method.

5. All reclamation will be completed within one year from the date of proper plugging and abandonment.

6. All roads and drill pads will be ripped to a depth of 12 inches to reduce compaction before reshaping and top soil applications.

RECEIVED
SEP 19 1996
NBMG Information Office

BASIS OF BEARINGS
SOLAR OBSERVATION

CALCULATED CORNER. BASIS. BLM
MANUAL OF INSTRUCTION

FOUND BRASS CAP

27 26 25
34 35 36

N

R. 57 E. M.D.B.& M

RECEIVED
SEP 19 1996
NBMG Information Office

FOUND BRASS CAP
SCRIBE HSC 1954

FOUND BRASS CAP
SCRIBE HSC 1954

S 41°59'10" W 3211.22'

GHOST RANCH
FEDERAL No. 58 - 35
Elevation 4745.53'

NORTH 345.05'

EAST 2100.51'

FOUND BLM BRASS
CAP 1985

T. 9 N. 34 35 36
T. 8 N. 3 2 1 2

FOUND BRASS CAP
SCRIBE HSC 1954

FOUND REMAINS HSC BRASS CAP
SET 5/8"X 18" IRON PIN
YELLOW CAP SCRIBE P.L.S. 7998

CERTIFICATION

I. Randal L. Briggs. do hereby certify that this plat is a true and accurate map of a survey made under my supervision and direction on the 2nd day of August. 1996.

PROFESSIONAL LAND SURVEYOR
RANDAL
L.
BRIGGS
8-7-96
No 7998
STATE OF NEVADA

EAGLE SPRINGS PRODUCTION. LTD.

2561 SOUTH. 1560 WEST
SUITE 200
WOODS CROSS. UTAH 84087

Briggs & Associates
PROF LAND SURVEYORS

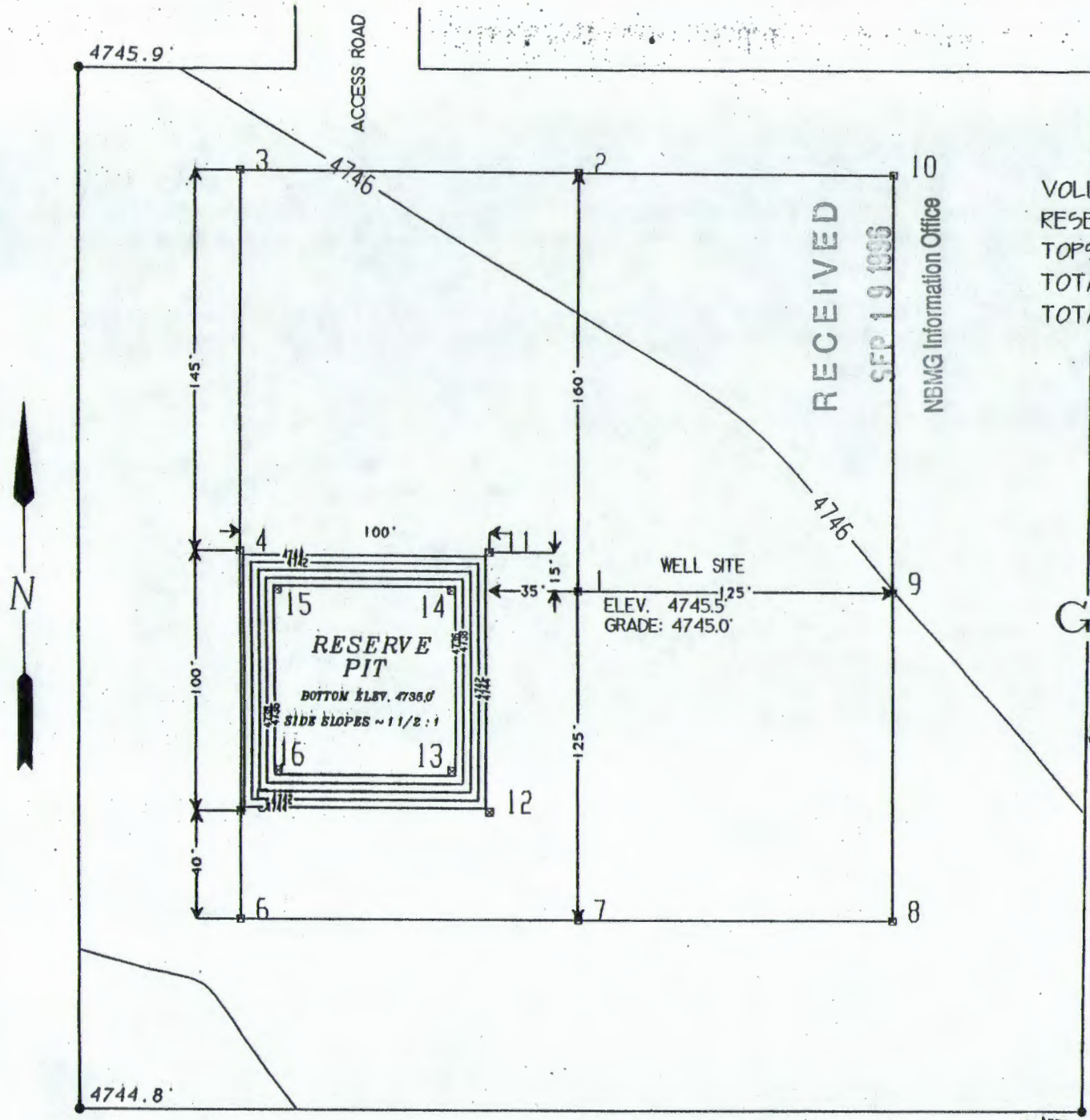
SURVEYED & MAPPED
BY
ROBISON PROFESSIONAL COMPLEX
1675 AVE. F. ELY, NEVADA 89301
phone: (702) 289-3394
fax: (702) 289-8961

FILENAME : EAGLS035
AUGUST 1996

MAP SHOWING
EAGLE SPRINGS PRODUCTION LTD.
GHOST RANCH FEDERAL No. 58-35
OIL WELL LOCATION
NYE COUNTY. NEVADA

0 500 1000 2000

SCALE ~ 1" = 1000'



RECEIVED
SEP 19 1996
NBMG Information Office

VOLUMES :
RESERVE PIT; CUT & STOCKPILE ; 2489 cu. yrd.
TOPSOIL; CUT & STOCKPILE ; 1372 cu. yrd.
TOTAL CUT AFTER STOCKPILE; 745 cu. yrd.
TOTAL FILL ; 0 cu. yrd.

GHOST RANCH

FEDERAL No 58 - 35
OIL WELL LOCATION
SW 1/4, SE 1/4, SECTION 35
T. 9 N., R 57 E., M.D.B.& M.
NYE COUNTY, NEVADA

(SEE ATTACHED CUT SHEET)

0 30 60 120

SCALE - 1" = 60'
CONTOUR INTERVAL - 1 FOOT

SITE LAYOUT

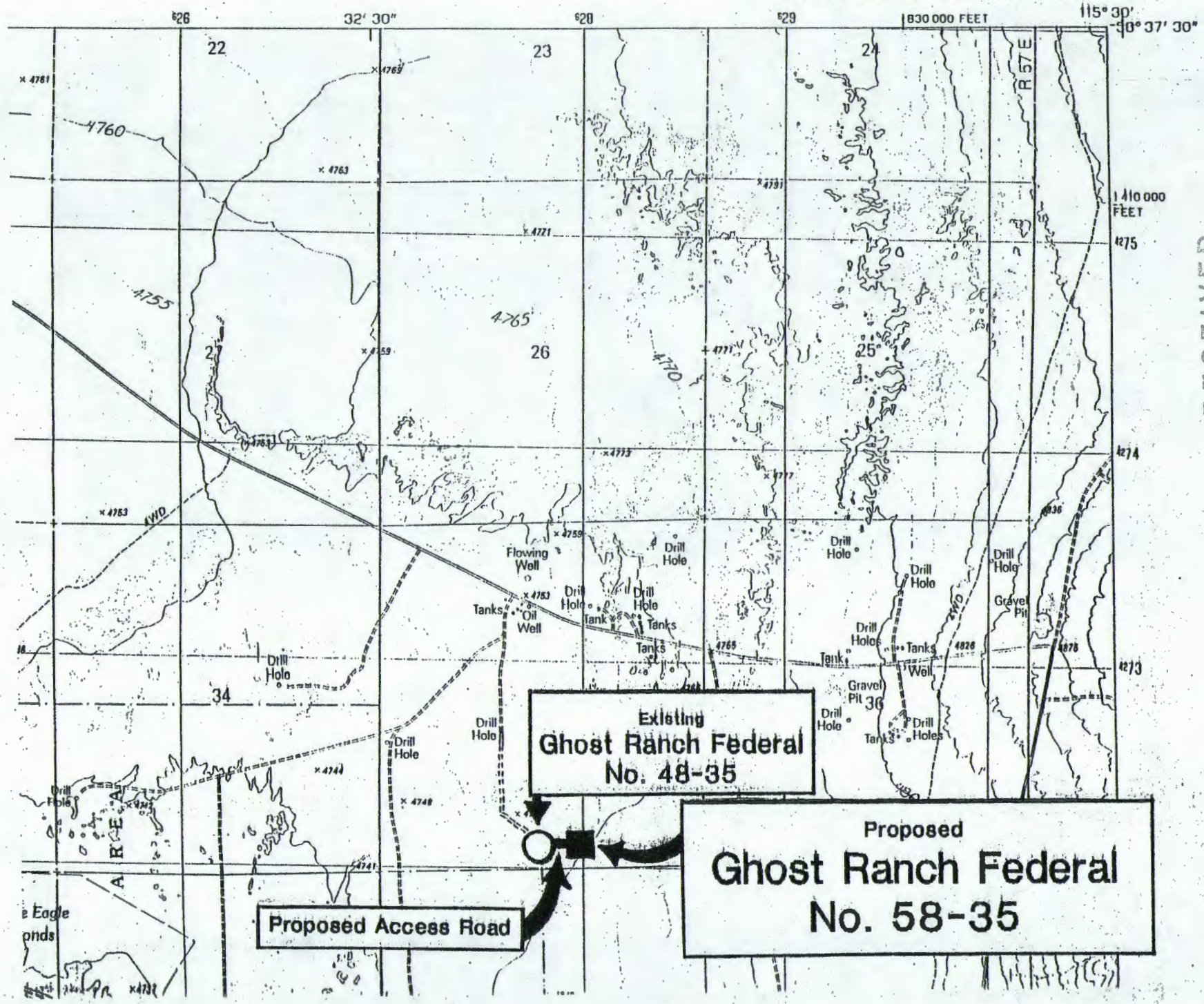
Bridges & Associates
PROF. LAND SURVEYORS
ROBISON PROFESSIONAL COMPLEX
1675 AVE. F. ELY, NEVADA 89301
phone: (702) 289-3394
fax: (702) 289-1309

Cut/Fill Data Listing
Proposed Surface
Field ID : 5835PAD.MDL

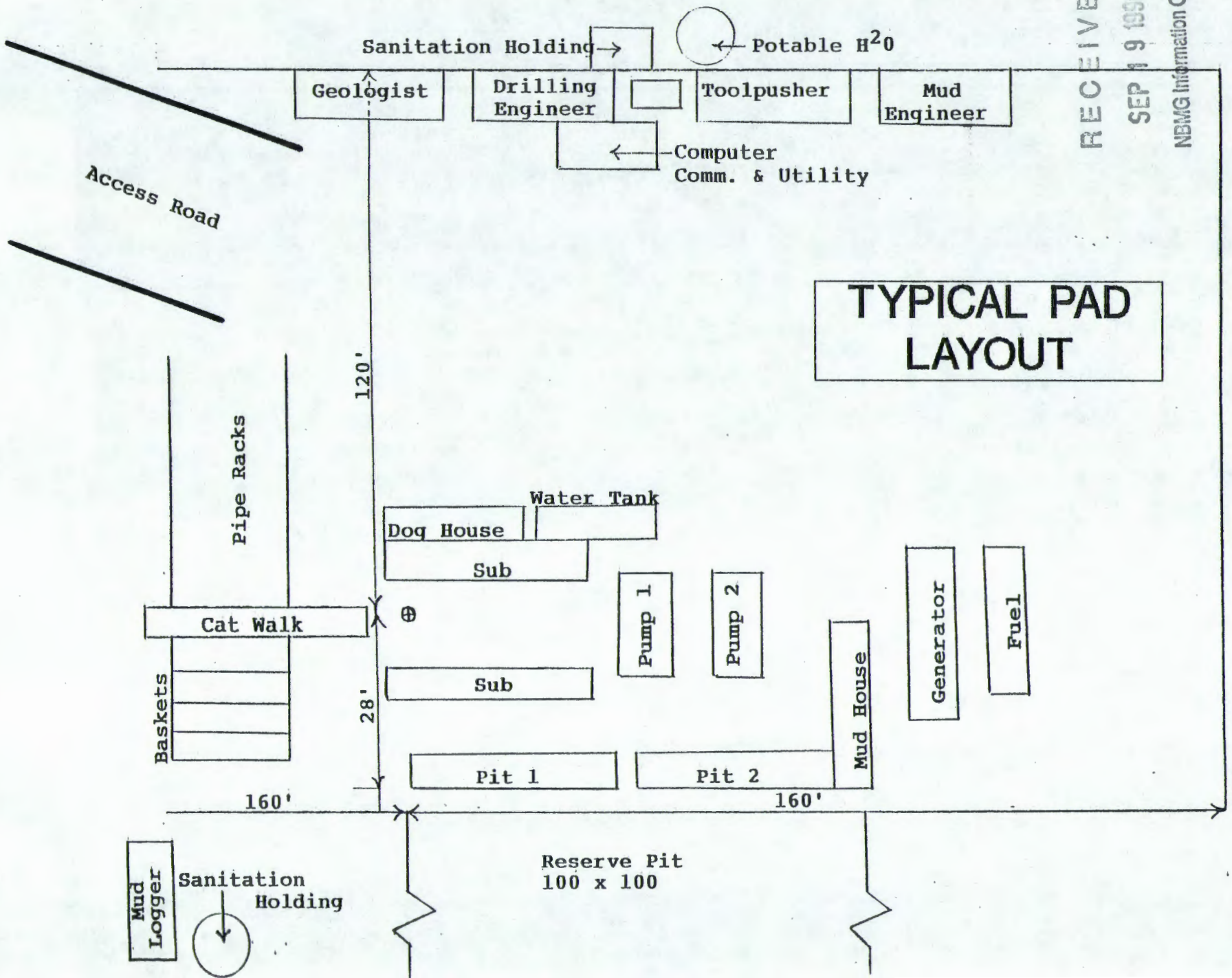
Point		(Y,X) Coordinates		Elevation	Cut/Fill
< 1:	1>	47161.374	47109.907	4745.000	0.500 C
< 2:	2>	47321.374	47109.907	4745.000	1.256 C
< 3:	3>	47321.374	46974.907	4745.000	0.881 C
< 4:	4>	47176.374	46974.907	4745.000	0.447 C
< 5:	5>	47076.374	46974.907	4745.000	0.183 C
< 6:	6>	47036.374	46974.907	4745.000	0.077 C
< 7:	7>	47036.374	47109.907	4745.000	0.320 C
< 8:	8>	47036.374	47234.907	4745.000	0.556 C
< 9:	9>	47161.374	47234.907	4745.000	0.997 C
< 10:	10>	47321.374	47234.907	4745.000	1.602 C
< 11:	11>	47176.374	47074.907	4745.000	0.515 C
< 12:	12>	47076.374	47074.907	4745.000	0.312 C
< 13:	13>	47091.372	47059.909	4735.000	10.305 C
< 14:	14>	47161.376	47059.909	4735.000	10.466 C
< 15:	15>	47161.376	46989.905	4735.000	10.417 C
< 16:	16>	47091.372	46989.905	4735.000	10.233 C

RECEIVED
SEP 19 1996
NBMG Information Office

BLUE EAGLE SPRINGS QUADRANGLE
NEVADA-NYE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



RECEIVED
SEP 19 1996
NBMG Information Office

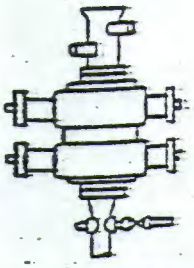


RECEIVED
SEP 19 1993
NBMG Information Office

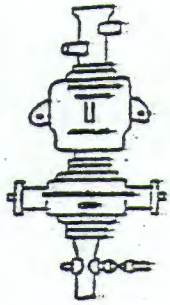
MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
1000' TO 2000'
A.P.I. 2M RR.,RD.,RA or A

The accumulator shall have sufficient capacity to close BOP's and retain 200 psi above precharge. Nitrogen bottles may used as the backup to the required independent power source.

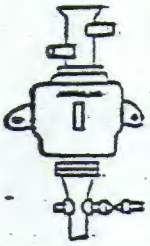
A.* Power for the closing unit pumps shall be available the unit at all times so that the pumps shall automatical start when the closing unit manifold pressure has decreas to a pre-set level.



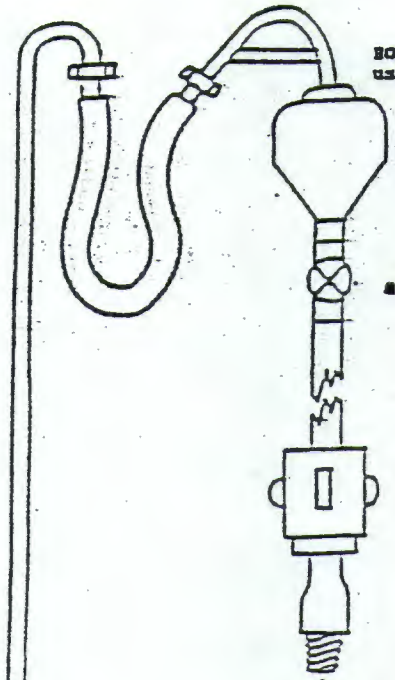
API ARRANGEMENT RR OR RD



API ARRANGEMENT RA

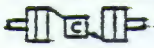


API ARRANGEMENT A



←Upper kelly cock valve with handle available

VALVE LEGEND



CHECK VALVE

All valves (except chokes) in the kill line, choke manifold, and choke line shall be a type that does not restrict the flow (full opening)

—Safety valve and subs to fit all drill strings in use

FROM MUD PUMPS

A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

FLOW LINE

FILL-UP LINE

CHOKE MANIFOLD PRESSURE GAUGE

ADJUSTABLE CHOKE

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

hydraulically-operated double ram

RR OR Rd

with blind and pipe rams

BLEED LINE

FROM MUD PUMPS

2 inch minimum choke line

—Kill line (2 inch minimum)

—1 kill line valve

(2 inch minimum)

1 choke line valve

—All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

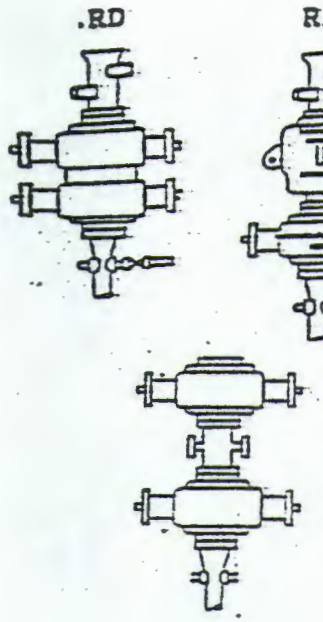
The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

1.* Surface casing will be set to a minimum depth of 500 ft. * There will be at least one centralizer on each of the bottom three joints of casing. All casing and well head components will be new, or reconditioned and tested to meet or exceed the API standards for which they are intended. Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus. The internal yield of the surface and intermediate or production casing shall equal or exceed the working pressure of the approved BOPE stack.

RECEIVED
SEP 19 1996
NBMG Information Office

MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
MODIFIED A.P.I. 2M RSR.,RD.or RA
2000' to 4000'



The accumulator shall have sufficient capacity to close BOP's and retain 200 psi above precharge. Nitrogen bottles may used as the backup to the required independant power source.

A.P. Power for the closing unit pumps shall be available the unit at all times so that the pumps shall automatically start when the closing unit manifold pressure has decreased to a pre-set level.

Upper kelly cock valve with handle available

VALVE LEGEND

CHECK VALVE

All valves (except chokes) in the kill line, choke manifold, and choke line shall be a type that does not restrict the flow (full opening)

Safety valve and subs to fit all drill strings in use

FROM MUD PUMPS

A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

Pressure gauges in the well control system shall be a type designed for drilling fluid service.

FLOW LINE

CHOKE MANIFOLD PRESSURE GAUGE

FILL-UP LINE

ADJUSTABLE CHOKE

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

hydraulically-operated double ram

RA OR Rd

with blind and pipe rams

BLEED LINE

FROM MUD PUMPS

2 inch minimum choke line

Kill line (2 inch minimum)

1 kill line valve

(2 inch minimum)

1 choke line valve

All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

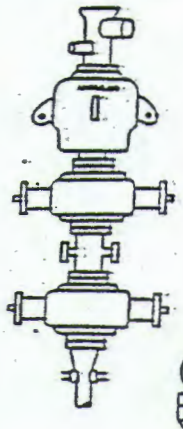
A.P. Surface casing will be set to a minimum depth of 500 ft. There will be at least one centralizer on each of the bottom three joints of casing. All casing and well head components will be new, or reconditioned and tested to meet or exceed the API standards for which they are intended. Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus. The internal yield of the surface and intermediate or production casing shall equal or exceed the working pressure of the approved BOPE stack.

RECEIVED
SEP 19 1996
NBMG Information Office

MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
A.P.I. 3M RRA OR RSRA
4000' TO 10,000'

RECEIVED
SEP 19 1996
NBMG Information Office

API ARRANGEMENT
RSRA



←Upper kelly cock valve with handle available

—Safety valve and subs to fit all drill strings in use

VALVE LEGEND

CHECK VALVE

All valves (except chokes) in the kill line, choke manifold, and choke line shall be a type that does not restrict the flow (full opening)

All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

STANDPIPE PRESSURE GAUGE

FROM MUD PUMPS

A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

FILL-UP LINE

FLOW LINE

ANNULAR

API ARRANGEMENT
SRRA OR RRA

CHOKE MANIFOLD PRESSURE GAUGE

—2 chokes (2 inch minimum)*

ADJUSTABLE CHOKE

—3 inch diameter choke line

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

FROM MUD PUMPS

—Kill line (2 inch minimum)

—2 kill line valves, one of which shall be a check valve (2 inch minimum)*

—All BOPE connections subjected well pressure shall be flanged, welded or clamped*

—Drilling spool, or blowout preventer with 2 side outlets (choke side shall be 3-inch minimum diameter, kill side shall be at least 2-inch diameter)*

A minimum of 2 choke line valves (3 inch minimum)*

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

The accumulator shall have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps. The 3M system shall have 2 independent power sources to close the preventers. Nitrogen bottles (3 minimum) may be one of the independent power sources.

A.* Power for the closing unit pumps shall be available to the unit at all times so that the pumps shall automatically start when the closing unit manifold pressure has decreased to a pre-set level.

B. Each BOPE closing unit shall be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and obtain a minimum of 200 psi above precharge pressure while isolated from the

Surface casing shall be set to a minimum depth of 500 ft. or of total depth whichever is greater. * In wells where medlate or production casing will be employed the surface g shall be set to 500 ft. or 10% of the next casing string ever is greater. * There will be at least one centralizer ach of the bottom three joints of casing. * All casing and head components will be New, or reconditioned and tested to or exceed the API standards for which they are intended. g collars shall have a minimum clearance of 0.422 inches on ides in the hole/casing annulus. * The internal yield of the

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CULTURAL RESOURCES INVENTORY NEGATIVE REPORT

BLM Office: Tonopah **BLM Report Number:** BLM 6-1680-1(N)

Organization/Field Crew: **R.K. Vierra & Assoc. Inc./ R.K. Vierra, P.I.**

Project Name and Description: A Cultural Resource Survey for Foreland's Proposed three Drill Pads: Ghost Ranch Federal No. 58-35, Ghost Ranch Federal No. 38-35, and Ghost Ranch Federal No. 57-35 in Railroad Valley. A class III survey was conducted.

Project Area (acres): Drill Pad: 24.79 acres.
Access Routes: .92 acres

Geographic Unit: Railroad Valley

Legal Description: Ghost Ranch Federal No. 38-35: SW 1/4 SE 1/4 SW 1/4 Section 35, T9N/R57E.

Ghost Ranch Federal No. 57-35: NW 1/4 SW 1/4 SE 1/4 Section 35, T9N/R57E.

Ghost Ranch Federal No. 58-35: SW 1/4 SW 1/4 SE 1/4 Section 35, T9N/R57E.

County: Nye

RECEIVED
SEP 19 1996
NBMG Information Office

Map Reference: 1990 7.5' USGS Blue Eagle Springs, NV

UTM Reference: Ghost Ranch Federal No. 38-35: 627560 **mE** 4272100 **mN**
Ghost Ranch Federal No. 57-35: 627850 **mE** 4272300 **mN**
Ghost Ranch Federal No. 58-35: 627950 **mE** 4272100 **mN**

Records Check: BLM Records

Results of Previous Inventories: Previous surveys conducted within a mile of the project area are listed as follows:

1. CRR 6-1626(P), Foreland Drill Pads Survey, R. K. Vierra (8-24-94), three sites were recorded; CrNV-61-7838 (FCR scatter redeposited with one flake), CrNV-61-7839 (small lithic scatter with Elko point), and CrNV-61-7840 (diffuse lithic scatter eroding out of dune), CrNV-61-7839 and 7840 are eligible for the NRHP.

2. CRR 6-1625(N), Foreland Drill Pads and Access Road Survey, R. K. Vierra (8-24-94), no sites were found for the two drill pads.

3. CRR 6-1680(N), 1995 Foreland's Railroad Valley Drill Pads, R. K. Vierra (10-20-95), no sites were noted in the survey of four drill pads.

4. CRR 6-1656(N), 1995 Foreland Railroad Valley Drill Pads 85-35, 64-35, 55-35, and Access Road Surveys, R. K. Vierra (4-4-95), no sites were found.

5. CRR 6-1631(N), 1994 Foreland Railroad Valley Drill Pad 24-36 and Access, R. K. Vierra (8-25-94), no sites were found.

6. CRR 6-1603(P), A Cultural Resources Survey for the 3-D Foreland Seismic Project in Railroad Valley, Nye County, Nevada, R. K. Vierra (January 1995), six sites were recorded within a mile of the project area: CrNV-61-7483 (small FCR scatter), CrNV-61-5354 (campsite with FCR, Elko point, and pottery), CrNV-61-7804 (lithic scatter with FCR), CrNV-61-5319 (diffuse lithic scatter with an Elko point), CrNV-61-7651 (1880's wood-frame structure with corral and trash scatter), CrNV-61-7850 (prehistoric component consists of a lithic scatter, two bifaces, and four metates; historic component consists of two stone foundations, trash, and a a segment Locus M1 of the Midland Trail previously recorded as CrNV-61-7320), and Locus M2 of the Midland Trail consisting of juniper post. All sites except CrNV-61-5319 were recommended eligible for the NRHP.

Recorded and Unrecorded Sites: There were no recorded cultural resources in the APE nor any unrecorded sites in the project area.

Expectations: No sites were expected to be found since the three drill pads are located in an area previously surveyed by Vierra [CRR 6-1603(P)].

Inventory Date: August 2, 1996

Inventory Type: Class III Reconnaissance

Details: A 600 by 600 foot block was surveyed for each drill pad in 10 meter transect intervals to ensure full coverage. A 200' long access route was surveyed from the south end of an existing gravel road to the northeast corner of drill pad 38-35. Another 200' long access route was surveyed from the south end of an existing gravel road to the southwest corner of drill pad 57-35.

Findings: There were no cultural resources located during this inventory, thus the undertaking will have no effect on prehistoric or historic properties.

RECEIVED
SEP 19 1996
NBMG Information Office

ATTACH CLEAN REPRODUCIBLE 15' OR 7.5' MAP(S) SHOWING AREA OF POTENTIAL EFFECT AND AREA INVENTORIED

Prepared by: Robert K. Vierra **Date:** 8-7-96

Reviewed by: _____ **Date:** _____

Approved by: _____ **Date:** _____

SHPO Review By: _____ **Date:** _____

NV 8100-5 (March 1996)

RECEIVED
SEP 19 1996
NBMG Information Office

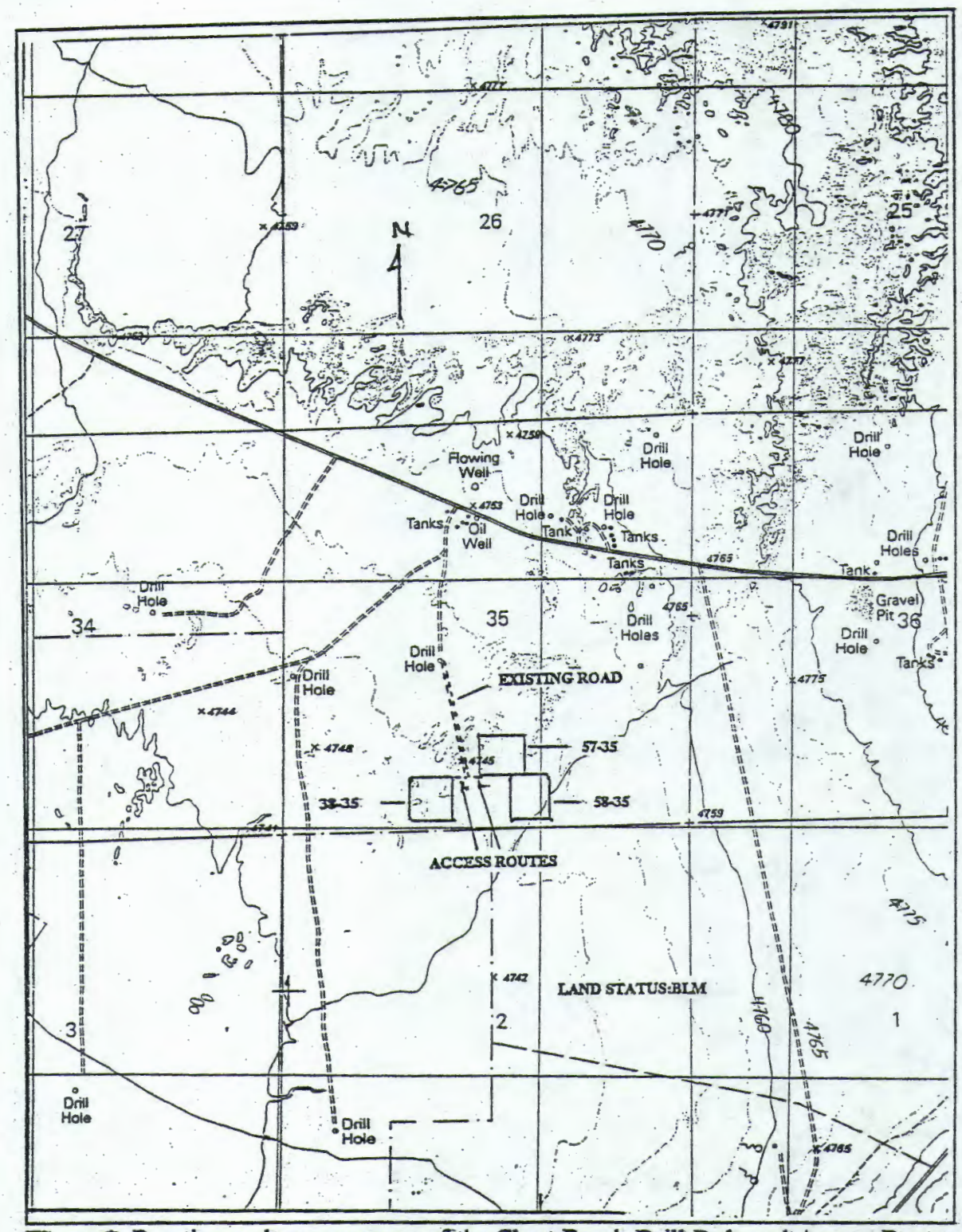


Figure 1. Location and survey areas of the Ghost Ranch Drill Pads and Access Routes for Foreland Corporation. 1996 Foreland's proposed drilling project in Railroad Valley. (1990 7.5 USGS Blue Eagle Springs, NV), Scale 1:24,000.

RECEIVED
SEP 19 1996
NBMG Information Office

RECEIVED
SEP 19 1996
NBMG Information Office

PROPOSED

REQUIREMENTS FOR HOLDING TANK SYSTEM
Ghost Ranch Fed. 58-35 Location
In the SW¼ SW¼ SE¼, Section 35, T9N, R57E
Nye County, Nevada
Proposed Permit Period: (Approx. Sept. 15, 1996 - Oct. 12, 1996)

A: PERMITTEE NAME AND ADDRESS:

Eagle Springs Production, LLC
2561 South 1560 West
Suite 200
Woods Cross, UT 84087

B: Eagle Springs Production will install the following holding systems:

1. A 1,250 gallon and a 500 gallon polyvinyl holding tanks, connected in tandem, such that the 500 gallon tank acts as overflow protection for the 1,250 gallon tank. Sewage from 4 single occupancy trailers and 1 laundry trailer will be plumbed to this system.

2. A 500 gallon polyvinyl holding tank will be used for the gray water from the mud logger trailer.

3. Plumb sealed 4" ABS discharge lines at 2% grade (¼" per 12") to tanks by standard plumbing techniques.

4. Drilling Engineer will inspect holding tanks daily so as to insure tanks are pumped on or before they are 3/4 full.

5. Records and receipts of disposal shall be kept by Denny Manzonie, Permit No. NY-17-04477. The waste will be disposed at the Ely City Treatment Plant.

6. Inspection of the system before and after use shall be conducted by a licensed civil engineer.

7. Should sub 0 degree weather occur, the tanks may require heaters. Suitable submersible heaters shall be on site and available.

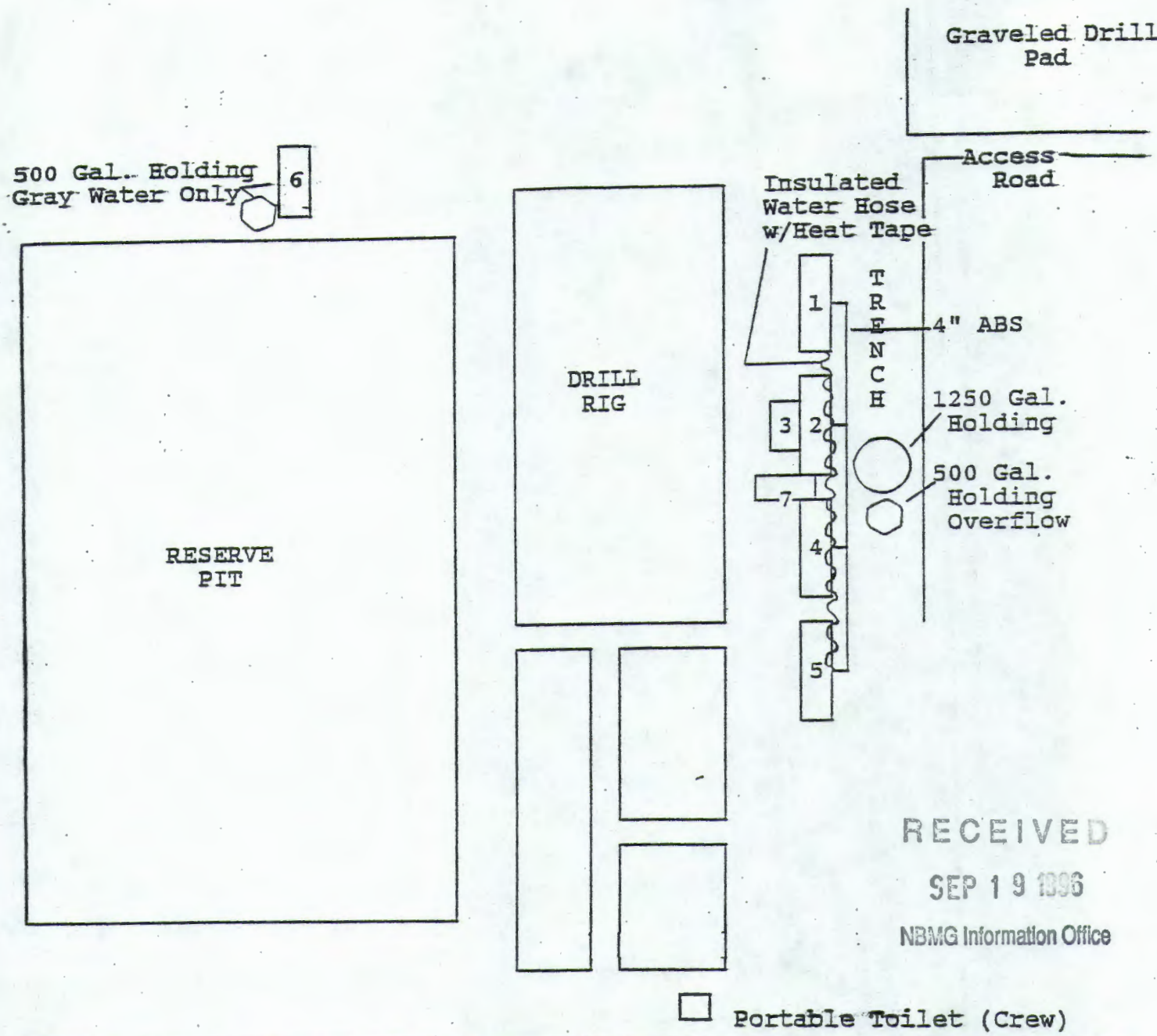
C: Shift Crews will use portable toilets.

D: A 4,000 gallon insulated potable water tank will supply the 4 single occupancy trailers and the laundry trailer. Potable water will be hauled from Currant, Nevada.

The sample trailer (mud logger trailer) will use potable water from rig tank.

E: The Civil Engineer and/or the Nevada Bureau of Health Protection Services shall be notified immediately in the event of any sewage spills.

RECEIVED
SEP 19 1996
NBMG Information Office



RECEIVED
SEP 19 1996
NBMG Information Office

1. Geologist Trailer	Toilet, Sink, Lav., Shower
2. Engineer Trailer	Toilet, Sink, Lav., Shower
3. Utility Trailer	Washer, Sample Sink
4. Toolpusher	Toilet, Sink, Lav., Shower
5. Mud Engineer	Toilet, Sink, Lav., Shower
6. Mud Logger	Sink, Lav., Shower Only
7. 4000 Gal. Water	

Single Occupancy Trailers Only

RECEIVED

NOV 2 0 1996

Div. of Minerals

RECEIVED

JUN 2 3 1997

NBMG Information Office

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY

DIVISION OF MINERALS

400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

OIL AND GAS WELL COMPLETION REPORT

(To be filed not later than 15 days after well is completed/abandoned)

Sec. 35, T. 9N, R. 57E

Eagle Springs Production, LLC (Company or operator) Ghost Ranch Fed. (NVN-42341) (Lease)

Address 2561 So. 1560 W., Ste. 200, Woods Cross, UT 84087

Well No. 58-35 in SW¼SW¼SE¼ of

Field Ghost Ranch County Nye

Permit Number 789.

Drilling Commenced 10/09/96, Completed 11/14/96

Drilling Contractor Dardinal Drilling

Address P. O. Box 1077, Billings, MT 59103

Total Depth of Well 4782

Elevation above sea level in feet: Surface 4745.53 KB 4763.53

Method determination Survey

Location: SW ¼ SE ¼

GEOLOGICAL FORMATIONS

	NAME	TOP	BOTTOM
1.	Valley Fill	0	4604
2.	Guilmette	4604	4782
3.			
4.			
5.			

	NAME	TOP	BOTTOM
6.			
7.			
8.			
9.			
10.			

GAS OR OIL SANDS AND OR ZONES

1. Top ____ Bottom ____
2. Top ____ Bottom ____
3. Top ____ Bottom ____
4. Top ____ Bottom ____
5. Top ____ Bottom ____
6. Top ____ Bottom ____
7. Top ____ Bottom ____
8. Top ____ Bottom ____

IMPORTANT WATER SANDS

Give data on rate of inflow and elevation to which water rose in hole.

1. Top 4716 Bottom 4782 Remarks 3 BWPM
2. Top ____ Bottom ____ Remarks ____
3. Top ____ Bottom ____ Remarks ____
4. Top ____ Bottom ____ Remarks ____

RECORD OF DRILL STEM TESTS AND SPECIAL TESTS

(Submit reports on separate sheet showing depths, dates, duration of tests, results and attach hereto)

CASING RECORD

	Size	Weight per foot	Make	Amount Set	Shoe	Perforated From	Perforated To	Amount Pulled	Purpose
1	9 5/8"	36#	J-55	504	504	495	496	0	Surface
2	7 "	26#	CF-50	4603	4603			0	Production
3									
4									
5									
6									

Form 5

(OVER)

OIL AND GAS WELL COMPLETION REPORT
PAGE 2

CEMENTING RECORD

	Size of hole	Size of casing	Where set	No. sacks of cement	Method used	CMT. Density	Yield Cement ft./sxs
1	12 3/4"	9 5/8"	504	240	Displacement		
2	8 3/4"	7"	4603	200	Displacement		
3							
4							

RECORD OF SHOOTING OR CHEMICAL TREATMENT

	Size	Shell used	Explosive or chemical used	Quantity	Date	Depth Treated		Depth cleaned out
						From	To	
1								
2								
3								

PRODUCTION

Put on production N/A (Plugged and Abandoned), 19 _____ Time: _____ (a.m.) (p.m.)

FOR FLOWING WELL:
Flowing pressure on casing _____ lbs/sq.in.
Flowing pressure on tubing _____ lbs/sq.in.
Size of tubing _____ No. feet run _____
Size of choke _____ Make choke _____

FOR PUMPING WELL:
Length of stroke used _____ inches
Number strokes per minute _____
Size of working barrel _____

FOR OIL WELL:
Production of first 24 hours was _____ barrels of fluid
_____
Percent water _____
Percent sediment _____
Percent emulsion _____
Gas-oil ratio this well _____ (cu. ft. gas per barrel of oil)

FOR GAS WELL:
Cubic feet of gas first 24 hours _____
Gallons of gasoline per MCF gas _____

LOGS AND ADDITIONAL RECORDS

	Type of survey	Top	Bottom	Date	Company
1	Multipole Array Acoustilog	0	4740	10-24-96	Western Atlas International
2	Dielectric Log	3658	4760	10-24-96	Western Atlas International
3	Dual Laterolog	0	4740	10-24-96	Western Atlas International
4	Directional Survey G.R.	0	4740	10-24-96	Western Atlas International
5	Cement Volume, G.R.	0	4740	10-24-96	Western Atlas International
6	Comp. Z-Densilog	0	4740	10-24-96	Western Atlas International
7	Acoustic Cement Bond. GR	3300	4581	11-07-96	Oil Well Perforators
8					
9					
10					

Attach to this record two (2) copies of all formational, electrical, radioactivity logs and deviation surveys.

I hereby certify that the information given herewith is a true, correct and complete record of this well and all work done on it so far as can be determined from the available records.

Name Bruce C Decker
Position Bruce C. Decker, Manager
Company or Operator Eagle Springs Production LLC

Address 2561 So. 1560 West, Suite 200
City Woods Cross State UT
Date November 18, 19 96

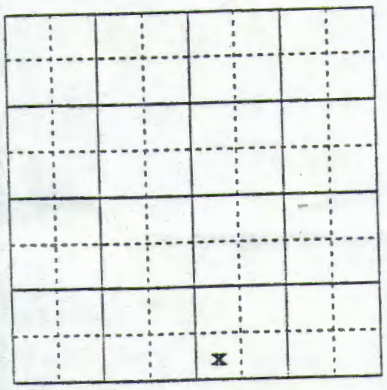
STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

RECEIVED
NOV 2 0 1996
Div. of Minerals

RECEIVED
JUN 2 3 1997
NBMG Information Office

WELL PLUGGING REPORT

Company or Operator Eagle Springs Production, LLC
Street or P.O. Box 2561 So. 1560 West, Suite 200 City Woods Cross State UT
Zip 84087 Telephone (801)298-9866
Lease name Ghost Ranch federal (NVN-42341) Well No. 58-35 within the SW ¼ SW ¼ SE¼
Sec 35, T. 9N, R. 57E M.D.B.M. Permit No. 789
Field Ghost Ranch, County Nye
The well is 3905.05 feet from (N) (S) line and 2090.51 feet from (E) (W) line of the section. (Give location from section line, cross out wrong directions.)
If patented land, fee owner is
Address
If government land, lease serial No. is NVN-42341
Address P. O. Box 12000, Reno, NV 89520
Lessee is Eagle Springs Production, LLC
Address 2561 So. 1560 W., Ste. 200
Woods Cross, UT 84087
Plugging Date 11/14/96



Section 35

GEOLOGICAL FORMATIONS

	NAME	TOP	BOTTOM
1.	Valley Fill	0	4604
2.	Guilmette	4604	4782
3.			
4.			
5.			

	NAME	TOP	BOTTOM
6.			
7.			
8.			
9.			
10.			

GAS OR OIL SANDS AND OR ZONES

RECEIVED
JUN 2 3 1997
NBMG Information Office

1. Top Bottom
2. Top Bottom
3. Top Bottom
4. Top Bottom
5. Top Bottom
6. Top Bottom
7. Top Bottom
8. Top Bottom

IMPORTANT WATER SANDS

T.D.

Give data on rate of inflow and elevation to which water rose in hole.

1. Top 4716 Bottom 4782 Remarks 3 BWPM
2. Top Bottom Remarks
3. Top Bottom Remarks
4. Top Bottom Remarks

CASING/LINER RECORD / PLUGGING RECORD

	Size/wt.	Shoe depth	Perfs. from-to	Cmt'd. from-to	No. Plugs	Bottom Depth	Top Depth	CMT. Type Vol.
1	9 5/8"	504	495-496	467	1	496	467	80 Sacks
2				72	1	72	0	9 Sacks
3	7"	4537		4452-4652	1	4652	4452	36 Sacks
4								
5								

Note the mud weight between plugs ppg.

Name Bruce C. Decker Bruce C Decker
Position Manager
Company or Operator Eagle Springs Production LLC
Address 2561 So. 1560 West, Suite 200
City Woods Cross State UT
Date November 18, 1996

Form 3160-3
(December 1990)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AM 10: 00

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NVN-42341

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: Ghost Ranch Fed. 58-35

9. API WELL NO.:

10. FIELD AND POOL, OR WILDCAT: Ghost Ranch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 35, T9N, R57E, MDB&M

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Eagle Springs Production, L.L.C.

3. ADDRESS AND TELEPHONE NO.: (801)298-9866
2561 South 1560 West, Ste. 200, Woods Cross, UT 84087

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 345.05 FSL, 2100.41 FEL, SW¼SW¼SE¼ Sec. 35, T9N, R57E
At proposed prod. zone:

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 15 Mi. South of Currant, NV

12. COUNTY OR PARISH: Nye

13. STATE: NV

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 345.05

16. NO. OF ACRES IN LEASE: 2801.60

17. NO. OF ACRES ASSIGNED TO THIS WELL: 10

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 663' East of 48-35

19. PROPOSED DEPTH: 5000

20. ROTARY OR CABLE TOOLS:

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4745.53'

22. APPROX. DATE WORK WILL START*: September 15, 1996

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"		60'	Pushed
12 1/4"	9 5/8"	36#	500'	258 Cu/Ft.
8 3/4"	7"	23# / 26#	5000'	400 Cu/Ft.

A 24" hole will be drilled to 60' and 20" conductor pipe will be pushed to 60'. A 12 1/4" hole will be drilled with gel/polymer mud to 500'. 500' of 9 5/8" casing will be run and cemented to surface. BOPs will be nippled up and tested. An 8 3/4" hole will be drilled to T.D. Any potential oil bearing zones will be appropriately tested. If economic oil production is indicated, a string of 7" production casing will be run and cemented, and the well will be completed as an oil well.

RECEIVED
JUN 23 1997
NBMG Information Office

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bruce C Decker TITLE Bruce C. Decker, Manager DATE 08-21-96

(This space for Federal or State office use)

PERMIT NO. NV-475 APPROVAL DATE SEP 25 1996

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY K. L. M. TITLE DSD, Mineral DATE 9-25-96

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

*See Instructions On Reverse Side

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

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
4220 S. Maryland Pkwy.
Suite 304
Las Vegas, Nevada 89119
(702) 486-7250
Fax (702) 486-7252

RUSSELL A. FIELDS
Administrator

September 18, 1996

Bruce Decker
Eagle Springs Production LLC
2561 South 1560 West #200
Woods Cross, UT 84087

RECEIVED
JUN 23 1997
NBMG Information Office

Dear Mr. Decker:

Enclosed is the amended Application for Permit to Drill an Oil and Gas Well for the Ghost Ranch Federal #58-35. According to John Snow, the change of location will be done on a Sundry Notice.

As soon as the Sundry Notice is approved I will send out a notice informing interested parties in the change of location.

Thank you for your continued cooperation.

Sincerely,

Linda Wells

Linda Wells
Program Assistant

/lw

Enclosure

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
http://www.state.nv.us/b&i/minerals/
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
2501 E. Sahara Avenue
Suite 206
Las Vegas, Nevada 89104
(702) 486-4343
Fax (702) 486-4345

CLAUDIA K. CORMIER
Director

ALAN R. COYNER
Administrator

July 14, 1998

RECEIVED
JUL 17 1998
NBMG Information Office

Bruce Decker
Eagle Springs Production LLC.
2561 South 1560 West #200
Woods Cross, UT 84087

Dear Mr. Decker:

Enclosed is your approved sundry notice titled "Notice of Intent to Re-enter & Deepen" Well No. 58-35. The American Petroleum Institute (API) number is 27-023-05544, and the Nevada Division of Minerals (NDOM) permit number is 789. Please use both of these numbers when filing reports and logs for the Re-entry portion of Well No. 58-35.

Samples shall be collected on 10 ft. intervals from the shoe of the 7 inch casing set at 4,527 ft. to total depth. A minimum of two sets of cuttings per sampling interval must be sent to the Nevada Bureau of Mines and Geology.

Permit No. 789 was originally approved on September 6, 1996 with a stipulation that the bottom hole location be verified by a survey and must be 330 ft. from the boundary line between Section 35 and Section 2 of the next township south. This requirement is set forth in Docket No. 1-OG-94-NY, Order No. 94-1, which governs well density in the NE¼ of Section 34, Section 35, and Section 36 of T.9N, R.57E, M.D.B.&M, Nye County, Nevada.

Enclosed for your reference are copies of the September 6, 1996 permit approval letter and Order No. 94-1, both of which continue to be applicable for the Re-entry of Well #58-35.

Your continued professional cooperation with the Nevada Division of Minerals requirements while drilling and developing oil wells in Nevada is appreciated. If I can be of further assistance on this or any other related matter you can contact me at (702) 687-5050.

Sincerely,

John H. Snow

John H. Snow
Oil, Gas, Geothermal Programs Manager

JHS:lw

cc: Makoil
BLM - Reno - Steve Wells
BLM - Ely - John Stout

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
4220 S. Maryland Pkwy.
Suite 304
Las Vegas, Nevada 89119
(702) 486-7250
Fax (702) 486-7252

RUSSELL A. FIELDS
Administrator

September 6, 1996

Bruce Decker
Manager
Eagle Springs Production, LLC
2561 South 1560 West #200
Woods Cross, UT 84087

Re: Ghost Ranch Federal #58-35, Permit #789

Dear Mr. Decker:

With this letter, I am sending the original signed permit for Eagle Springs Production's Ghost Ranch Federal #58-35, Permit #789, located in Nye, Nevada. This permit will expire on September 6, 1998, in the event the well is not drilled.

During drilling, upon completion of the well, and during production (if applicable), submission of certain forms and other actions are required as described in the Nevada Regulations and Rules of Practice and Procedure. Most of these requirements are summarized in the enclosed permit conditions.

It will be required, with permit #789, that the bottom hole location be verified by a survey and must be 330 feet from the boundary line between Section 35 and Section 2 of the next township south.

Please be advised that samples of cuttings shall be collected at 30' intervals from surface to the surface casing point, and on 10' intervals from the surface casing shoe to total depth. A minimum of two sets of cuttings per sampling interval must be sent to the Nevada Bureau of Mines and Geology.

Sincerely,

Russ Fields

RF:lw
Enclosures

cc: Steve Wells, BLM, Nevada State Office
John Stout, BLM, Ely District Office
Nevada Bureau of Mines and Geology

RECEIVED

JUN 15 1998

STATE OF NEVADA Div. of Minerals UNITED STATES
DEPT. OF BUSINESS AND INDUSTRY DEPARTMENT OF THE INTERIOR
DIVISION OF MINERALS BUREAU OF LAND MANAGEMENT

Form 3160-5 (June 1990)	SUBMIT IN TRIPLICATE	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993	5. LEASE DESIGNATION AND SERIAL NO. NVN-42341

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATION

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER [ ]

8. WELL NAME AND NO. Ghost Ranch Fed. 58-35

2. NAME OF OPERATOR Eagle Springs Production, L.L.C.

9. API WELL NO. 27-023-05544

3. ADDRESS AND TELEPHONE NO. (801)298-9866
2561 South 1560 West, Suite 200, Woods Cross, UT 84087

10. FIELD AND POOL, OR EXPLORATORY AREA Ghost Ranch

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description)
395.05 FSL, 2090.51 FEL, Sec. 35, T9N, R57E, MDB&M

11. COUNTY OR PARISH, STATE Nye County, NV

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] NOTICE OF INTENT	[ ] ABANDONMENT	[ ] CHANGE OF PLANS
	[ ] RECOMPLETION	[ ] NEW CONSTRUCTION
[ ] SUBSEQUENT REPORT	[ ] PLUGGING BACK	[ ] NON-ROUTINE FRACTURING
	[ ] CASING REPAIR	[ ] WATER SHUT-OFF
[ ] FINAL ABANDONMENT NOTICE	[ ] ALTERING CASING	[ ] CONVERSION TO INJECTION
	[X] OTHER Re-Enter & Deepen	[ ] DISPOSE WATER

(NOTE: REPORT RESULTS OF MULTIPLE COMPLETION ON WELL COMPLETION OR RECOMPLETION REPORT AND LOG FORM.)

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

Eagle Springs Production, L.L.C. proposes to re-enter and deepen the subject well. Please refer to the attached prognosis for procedure.

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

SIGNED Bruce C Decker TITLE Bruce C. Decker, Manager DATE 06/11/98

(This space for Federal or State office use)

PERMIT NO 789 APPROVAL DATE 9/6/96

CONDITIONS OF APPROVAL, IF ANY: see attached letter, dated 7/14/98

APPROVING AGENCY: [X] Nevada Division Of Minerals [ ] Bureau of Land Management

APPROVED BY (Sgd) John H. Snow TITLE Oil, Gas, Geo Programs Mgr. DATE July 14, 1998

THIS FORM MUST BE SUBMITTED TO BOTH THE NEVADA DIVISION OF MINERALS AND THE BUREAU OF LAND MANAGEMENT FOR ANY OPERATION LOCATED ON FEDERAL LANDS. EACH AGENCY MUST APPROVE THE APPLICATION.

*See Instructions On Reverse Side

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

Date: May 10, 1998

To: File

Re: Procedure to Re-enter & Deepen Ghost Ranch 58-35

From: David Greene

Introduction

The GR 58-35 was drilled in the early fall of 1996 as an easterly extension well targeting the slide-block reservoir discovered by the GR 48-35 exploratory well in the summer of 1996. The GR 58-35 penetrated the target horizon, but did not encounter the productive Ghost Ranch slide block reservoir, a dolomitized carbonate thought to be of Devonian age. Instead, the GR 58-35 encountered a limestone, thought to be a slide block of the Permian age Reipe Springs Formation. This limestone had heavy, tarry oil shows, but flowed at approximately 4 BPM with a water cut in excess of 99%. The GR 58-35 was plugged and abandoned as a dry hole on November 15, 1996. Current plans are to re-enter and deepen the GR 58-35 as a westerly extension well targeting the sub-unconformity A reservoir (thought to be limestone of the Pennsylvanian Ely Formation) discovered by the SD 88-35 in the spring of 1998.

Current Well Data

Well Name:	Ghost Ranch 58-35
API No.:	27-023-05544
Drlg Prmts:	Federal: NV 475, Nevada: 789.
Lease:	NVN-42341
Location:	surface: 395' FSL x 2090' FEL (SW/SW/SE) Sec. 35, T 9 N, R 57 E. bottom hole: 412' FSL x 2119' FEL (SW/SW/SE) Sec. 35, T 9 N, R 57 E. Railroad Valley, Nye County, Nevada.
Elevations:	GL=4746' S.L., KB=4763' S.L.
Depths:	TD=4781' KB (measured), 4779' KB (true vertical)
Casing:	surface: 13 jts, 9-5/8", 36#, J-55, ST&C, set @ 504' in 12-1/4" hole w/ 240 sx cmt. production: 108 jts, 7", 26#, J-55 LT&C, set @ 4610' in 8-3/4" hole w/ 200 sx 50:50 poz. Cmt top @ approx.3837'.
Plugs:	surface: 10 sx, plug from surface to 72'. base of surface casing: 4 perfs 495' to 496', CICR @ 467',75 sx below & 5 sx above, plug from 439' to 496'. base of Valley Fill: CICR @ 4437', 27 sx below & 9 sx above, plug from 4487' to 4687'.

BOB MILLER
Governor

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
http://www.state.nv.us/b&i/minerals/
(702) 687-5050 • Fax (702) 687-3957

LAS VEGAS BRANCH:
2501 E. Sahara Avenue
Suite 206
Las Vegas, Nevada 89104
(702) 486-4343
Fax (702) 486-4345

CLAUDIA K. CORMIER
Director

ALAN R. COYNER
Administrator

July 15, 1998

OIL AND GAS WELL PERMIT NOTICE

A sundry notice titled "Notice of Intent to Re-enter and Deepen" has been approved by the Department of Business and Industry, Division of Minerals for Eagle Springs Production's Ghost Ranch #58-35 well. API Number 27-023-05544, and DOM Permit #789 will remain the same for the re-entry of Well #58-35. The new projected total depth is 7,500 feet.

The well is located in the SW¼ SW¼ SE¼ of Section 35, T.9N, R.57E, in Nye County, Nevada. The well was plugged on November 14, 1996 at a total depth of 4,782 feet.

RECEIVED
JUL 20 1998
NBMG Information Office

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
http://www.state.nv.us/busi_industry/mineral/mineral.htm
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
2501 E. Sahara Avenue
Suite 206
Las Vegas, Nevada 89104
(702) 486-4343
Fax (702) 486-4345

CLAUDIA K. CORMIER
Director

RUSSELL A. FIELDS
Administrator

June 17, 1997

David A. Davis
Bureau of Mines and Geology
UNR

RECEIVED
JUN 23 1997
NBMG Information Office

Dear David:

Enclosed for your information is a copy of the following well file that is now public:

1. Pioneer Oil & Gas Maverick Springs #27-44, Permit 786, confidential period ended June 17, 1997.

2. Foreland Corporation's Ghost Ranch #58-35, Permit 789, confidential period ended June 14, 1997.

Also enclosed is San Emidio Resources' permit application, drilling program and geothermal notice, per your request.

If you have any questions, please feel free to contact me.

Sincerely,

Linda Wells
Program Assistant IV

/lw

Enclosure

RECEIVED

Form 3160-5 (June 1990) DEC 0 3 1996

Div. of Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BUR. OF LAND MANAGEMENT
NEVADA STATE OFFICE
96 NOV 20 AM 9:00

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NVN-42341

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Ghost Ranch Fed. 58-35

2. Name of Operator: Eagle Springs Production, LLC

9. API Well No.: 27-023-05544

3. Address and Telephone No.: (801)298-9866
2561 So. 1560 West, Suite 200, Woods Cross, UT 84087

10. Field and Pool, or Exploratory Area: Ghost Ranch

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 395.05 FSL, 2090.51 FEL, Section 35, Township 9 N, Range 57 E.

11. County or Parish, State: Nye County, NV

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11/14/96 TIH w/stinger and tubing, pressure tested to 500 psig. Pumped 27 sacks cement below and capped w/9 sacks for plug across base of valley fill and bottom of casing from 4452' to 4652' K.B. TOH w/stinger and tubing. Rigged up perforators and lubricated squeeze gun to 495' K.B., shot 4 holes 495' to 496'. POOH. Lubricated in CICR to 467' K.B. and set. TIH w/tubing and stinger. Opened surface casing-long string annulus to flow approximately 3 BPM water. Pumped 75 sacks to kill flow. Stung-out and capped plug w/5 sacks. TOH w/stinger and tubing. TIH opened ended to 72' K.B. and pumped 9 sacks for plug to surface. TOH--all tubing layed down in singles. Plugging procedure witnessed by John Stout, BLM. Rigged down BOP.

11/15/96 Remove Wellhead. Set marker.

RECEIVED
JUN 2 3 1997
NBMG Information Office

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

Signed: [signature] Title: Manager Date: 11-18-96

(This space for Federal or State office use)

Approved by: [signature] Title: DM, Minerals Date: 11-26-96

Conditions of approval, if any: Please submit Well Completion Report, form 3160-4.

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

*See Instruction on Reverse Side

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
http://www.state.nv.us/busi__industry/mineral/mineral.htm
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
2501 E. Sahara Avenue
Suite 206
Las Vegas, Nevada 89104
(702) 486-4343
Fax (702) 486-4345

CLAUDIA K. CORMIER
Director

RUSSELL A. FIELDS
Administrator

February 25, 1997

Eugene Kozlowski
Makoil, Inc.
333 City Blvd., West #1640
Orange, CA 92868-2924

RECEIVED
JUN 23 1997
NBMG Information Office

Dear Mr. Kozlowski:

The Nevada Division of Minerals (NDOM) received your letter, dated February 17, 1997, wherein you requested the bottom hole locations of Ghost Ranch Wells #38-35, #48-35, and #58-35. The following table shows the information your requested.

Permit #	Well #	SURFACE LOCATION	BOTTOM HOLE LOCATION	TD	TVD	PBD
793	38-35	345.05 FSL, 1845.17 FWL, SWSESW, Sec.35, T.9N, R.57E	341.6 FSL, 1853.4 FWL	4582'	4582'	4522'
779	48-35	410.05 FSL, 2527.23 FWL, SESESW, Sec.35, T.9N, R.57E	425.59 FSL, 2504.78 FWL	4545'	4545'	4514'
789	58-35	395.05 FSL, 2070.51 FEL, SESWSE, Sec.35, T.9N, R.57E	411.64 FSL 2118.75 FEL	4781'	4779'	4779'

If you have any additional questions, please do not hesitate to contact me.

Sincerely,

John H. Snow

John H. Snow
Oil, Gas & Geothermal Programs Mgr.

JHS:lw

cc: Steve Wells

MAKOIL

RECEIVED
FEB 20 1997
Div. of Minerals

February 17, 1997

RECEIVED
JUN 23 1997
NBMG Information Office

State of Nevada
Division of Minerals
Mr. Russ Fields, Director
400 West King Street, Suite 106
Carson City, NV 89710

RE: Ghost Ranch-Foreland Corporation
Correlative Rights

Dear Mr. Fields:

Makoil, Inc. is the operator of the Kate Springs #12-2 Well and of the Associated Federal Lease N-42341 which currently offsets three wells (Ghost Ranch) recently drilled by Foreland Corporation.

The Working Interest Owners of the Kate Springs properties have asked that we receive confirmation from the State that the Ghost Ranch #38-35, #48-35 and #58-35 have not been drilled or completed less than 330' north of the north lease boundary line of the N1/2 of Section 2, T8N, R57E, MDBM. The surface locations indicated that they were spudded 335' from this lease boundary, and it is our understanding that your office cautioned them concerning the bottom hole locations.

We look forward to receiving the documentation necessary to alleviate our Working Interest Owner's concerns.

Yours truly,

E. C. Kozlowski
Makoil, Inc., President

ECK:ch

cc:file

GostFrln.doc

MAKOIL INC. 333 City Boulevard, West, Suite 1640 • Orange, California 92868-2924 • 714/939-7560 • Fax 714/939-7552
6655 W. Sahara Avenue, Suite B-200 • Las Vegas, Nevada 89102 • 702/221-1931

EAGLE SPRINGS
PRODUCTION LTD.

2561 South 1560 West, Suite 200
Woods Cross, Utah 84087
(801) 298-9866
Fax: (801) 298-9889

AMENDED

February 26, 1997

Mr. John Snow
Nevada Division of Minerals
400 West King Street, Suite 106
Carson City, NV 89710

RECEIVED
JUN 23 1997
NBMG Information Office

FACSIMILE TRANSMISSION: (702)687-3957

Dear John:

Per your request, the following information on the Ghost Ranch Field is being provided.

The Ghost Ranch Federal #58-35:
Surface Location: 395.05 FSL, 2070.51 FEL (SE/SW/SE) Sec. 35, T9N, R57E, Nye County, NV;
Surface Elevation: Ground level=4745', KB=4763';
Bottom Hole Location: 411.64 FSL, 2118.75 FEL, Sec. 35, T9N, R57E, Nye County, NV;
Depth: TD=4781' MD=4781' TVD, PBD=4779'.

The Ghost Ranch Federal #38-35:
Surface Location: 345.05 FSL, 1845.17 FWL, (SWSESW) Sec. 35, T9N, R57E, Nye County, NV;
Surface Elevation: Ground level=4742.6', KB=4760.6';
Bottom Hole Location: 341.6 FSL, 1853.4 FWL, Sec. 35, T9N, R57E, Nye County, NV;
Depth: TD=4582' MD=4582'TVD, PBD=4522'.

The Ghost Ranch Federal #48-35:
Surface Location: 410.05 FSL, 2527.23 FWL, (SESESW) Sec. 35, T9N, R57E, Nye County, NV;
Surface Elevation: Ground level=4743.9', KB=4761.9';
Bottom Hole Location: 425.59 FSL, 2504.78 FWL, Sec. 35, T9N, R57E, Nye County, NV;
Depth: TD=4545' MD=4545'TVD, PBD=4514.6'.

If you need any additional information, please do not hesitate to contact me.

Sincerely,

Bruce C. Decker
Manager

WELL GHOST RANCH 50 35 TD 4702 DAY 19 DATE 10/28/96

24 HR Ftg. ROP Weather

FORMATION:

GAS:

LITHO:

SHOWS:

ACTIVITY: WOC- Rig Released

RECEIVED
JUN 2 3 1997
NBMG Information Office

RIG RELEASED AT 0600, AND WITH THAT WE DID A FOND ADEAU AS WE WATCH THE IMAGE OF RIG 12 FADE INTO THE DISTANCE IN A GLORIOUS SUNRISE,IN THE REAR VIEW MIRROR

CONFIDENTIAL

DESCRIPTION OF DAILY ACTIVITY

0600-1900 Finish laying pipe and tools

Rig up and run 108 jts 7" 26# J-55 LT&C

Fully c/a 4610 w/ Packer set @ 4603 KB DV collar @ 1896

Ran 108 jts, Davis DV Collar, Davis ECP, Guide Shoe.Set Packer w/ 1500 psi, had both pressure kicks and pipe took weight. Drop bomb, open stage tool w/ 3500 psi, getting partial returns. Cemented w/ 200 sx 50/50 poz with 2% gel 1/4# flocel,1% Granulite,10% Gilsonite.Displace w/ water, bump plug with 500 psi, close tool w/ 1500 psi. Held ok

1900 0600 WOC, Clean pits, rig down and set slips

MFG.	WEIGHT		REAMING	.	(.)
TYPE	PSI/FT		CORING	.	(.)
JETS	VIS		CIRC	.	(.00)
SERIAL	PV/YP		TRIPS		(.)
OUT	GELS		RIG SER	.	(.)
IN	pH		RIG REP	.	(.)
FOOTAGE	WL-cc		CUT LINE	.	(.)
HOURS	CAKE		SURVEY	.	(.)
COND	ALKA		LOGS/DST	.	(.)
FT/HR	SALT		CSG/CMT	.	(4.25)
GPM/CF	SAND	%	WOC	.	(7.00)
DP VEL	SOLIDS	%	NU BOP/TEST	.	(11.50)
DC VEL	OIL	%	FISHING	.	(.)
WT UP	ECD	#/gal	MUD/CHEM MIxed		
WT DN	Fl. Temp	Deg			

REMARKS: BHA Hrs

DAILY MUD TOTAL MUD 32,477

DAILY COSTS 94,947 TOTAL COSTS 363,064

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 4782 DAY 18 DATE 10/27/96
24 HR Ftg. ROP Weather
FORMATION: Trying to warm up
GAS:
LITHO:
SHOWS:
ACTIVITY:
Laying down Drill pipe

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM

DESCRIPTION OF DAILY ACTIVITY

0600-2300 Fighting Lost circulation, sometimes we win a little, most times we lose a little. Mixing pills of 45/50 Vis, 8.7/8.8 #, with 20-30% LCM.Got the water flow stopped and circulating mud.WHOOP-DE-DOO- were going for it.
2300 0600 Pulled thru tight spot at 3800-4000, wasn't there. Laying down drill pipe.

CONFIDENTIAL

LOST Estimated 800 bbl mud this go a round.

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

BIT RECORD	MUD RECORD			Day,Hrs	Cumm
Bit No.	TIME			BOILER	. (.)
SIZE	DEPTH			DRILLING	. (.)
MFG.	WEIGHT	8.8		REAMING	(205.00)
TYPE	PSI/FT			CORING	. (3.25)
JETS	VIS	45/55		CIRC	. (.00)
SERIAL	PV/YP			TRIPS	17.00(55.75)
OUT	GELS			RIG SER	7.00(53.75)
IN	pH			RIG REP	. (.50)
FOOTAGE	WL-cc			CUT LINE	. (2.50)
HOURS	CAKE			SURVEY	. (.)
COND	ALKA			LOGS/DST	. (8.25)
FT/HR	SALT			CSG/CMT	. (42.00)
GPM/CF	SAND		%	WOC	. (13.25)
DP VEL	SOLIDS		%	NU BOP/TEST	. (11.50)
DC VEL	OIL		%	FISHING	. (.)
WT UP	ECD		#/gal	MUD/CHEM MIxed	
WT DN	Fl. Temp		Deg		

REMARKS: BHA Hrs 390 gel; 9 poly,14 507
20 Solter; 13 Caustic;
300 Fiber;337 barite
300 multi-seal

DAILY MUD 15,236 TOTAL MUD 32,476
DAILY COSTS 21,931 TOTAL COSTS 268,117

T P ENGINEERING, INC. DENVER CO. 800-424-8454

Have Send To Denver

WELL GHOST RANCH 58 35 TD 4782 DAY 17 DATE 10/26/96
24 HR Ftg. ROP Weather
FORMATION: GOOD QUESTION
GAS:
LITHO:
SHOWS:
ACTIVITY:
W/O Casing, Lost Circulation

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM

DESCRIPTION OF DAILY ACTIVITY

0600-1500	Waiting On Casing
1500-1800	Trip In, lay dwn 6 joints
1800-2000	Ream 3884-4072 BAD REAMER 60' ABOVE BIT
2000-2100	Trip in to 4720, wash to 4750, lost circulation
2100-2400	Lost 150 bbl, mixing and building volume
2400-0300	Building Volume mix LCM Pill
0300-0400	Spot LCM Pill, no returns.
0400-0600	Back to the drawing board, mixing mud,bar. Pulled to 4637. Getting water flow. Waiting on mud, LCM and a lot of hope.

CONFIDENTIAL

BIT RECORD	MUD RECORD		Day,Hrs	Cumm
Bit No.	TIME		BOILER	. (.)
SIZE	DEPTH		DRILLING	. (205.00)
MFG.	WEIGHT		REAMING	. (3.25)
TYPE	PSI/FT		CORING	. (.)
JETS	VIS		CIRC LC	11.00(38.75)
SERIAL	PV/YP		TRIPS	4.00(46.75)
OUT	GELS		RIG SER	. (.50)
IN	pH		RIG REP	. (2.50)
FOOTAGE	WL-cc		CUT LINE	. (.)
HOURS	CAKE		SURVEY	. (8.25)
COND	ALKA		LOGS/DST	. (.)
FT/HR	SALT		CSG/CMT W/O	9.00(13.25)
GPM/CF	SAND	%	WOC	. (7.00)
DP VEL	SOLIDS	%	NU BOP/TEST	. (11.50)
DC VEL	OIL	%	FISHING	. (.)
WT UP	ECD	#/gal	MUD/CHEM MIxed	
WT DN	Fl. Temp	Deg		
REMARKS: BHA	Hrs			

DAILY MUD TOTAL MUD
DAILY COSTS TOTAL COSTS
8,870 246,186

T P ENGINEERING, INC. DENVER CO. 800-424-8454

TORI I SENT THIS TO DENNIS

WELL GHOST RANCH 58-35TD 4782 DAY 16 DATE 10/25/96
24 HR Ftg. ROP / Weather The whole Southwest went
FORMATION: thru in a 45 min. blow last nite
GAS:
LITHO:
SHOWS:
ACTIVITY: WAITING ON CASING

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM

DESCRIPTION OF DAILY ACTIVITY

0600-2400 Logging and side wall cores
2400-0600 Waiting on casing

DUAL LATEROLOG GAMMA RAY
COMPESATED Z-DENSILOG, COMPNEUTRON LOG
MULTIPOLE ARRAY ACCOUSTILOG 3 ARM CALIPER
DIRECTIONAL SURVEY
CEMENT VOLUME
DIELECTRIC LOG

CONFIDENTIAL

BOTTOM HOLELOCATION 28.24 WEST 16.53 NORTH
FINAL DRIFT DIRECTION N59.56 W
FINAL DRIFT DISANCE 32.75

BIT RECORD	MUD RECORD		Day,Hrs	Cumm
Bit No.	TIME		BOILER	. (.)
SIZE	DEPTH		DRILLING	. (205.00)
MFG.	WEIGHT		REAMING	. (3.25)
TYPE	PSI/FT		CORING	. (.)
JETS	VIS		CIRC	. (27.75)
SERIAL	PV/YP		TRIPS	. (42.75)
OUT	GELS		RIG SER	. (.50)
IN	pH		RIG REP	. (2.50)
FOOTAGE	WL-cc		CUT LINE	. (.)
HOURS	CAKE		SURVEY	. (8.25)
COND	ALKA		LOGS/DST	16.00(42.00)
FT/HR	SALT		CSG/CMT	8.00(12.25)
GPM/CF	SAND	%	WOC	. (7.00)
DP VEL	SOLIDS	%	NU BOP/TEST	. (11.50)
DC VEL	OIL	%	FISHING	. (.)
WT UP	ECD	#/gal	MUD/CHEM MIxed	
WT DN	Fl. Temp	Deg		
REMARKS: BHA	Hrs			

DAILY MUD TOTAL MUD 17,241
DAILY COSTS 34,506 TOTAL COSTS 237,316

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 4782 DAY 15 DATE 10/24/96
24 HR Ftg. ROP Weather We sent the shoe on
FORMATION: GUILMETTE ? thru, wouldn't let it stop
GAS:
LITHO:
SHOWS:
ACTIVITY: LOGGING

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM

DESCRIPTION OF DAILY ACTIVITY

0600-0730	Finish trip in, wash 20' fill. Had pushed somthing from 15 stands down,
0730-1230	Condition Mud, build volume
1230-1430	20 stand short trip. thouched again 15 stands out, went to bottom with about 5000# extra.
1430-1530	Circulate bottoms up, appears clean
1530-1900	POH for logs, clean.
1900-0600	Logging- Log TD 4781 Made 4 runs

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

BIT RECORD	MUD RECORD		Day,Hrs	Cumm
Bit No.	TIME		BOILER	. (.)
SIZE	DEPTH		DRILLING	. (205.00)
MFG.	WEIGHT		REAMING	. (3.25)
TYPE	PSI/FT		CORING	. (.)
JETS	VIS		CIRC	6.00(27.75)
SERIAL	PV/YP		TRIPS	7.00(42.75)
OUT	GELS		RIG SER	. (.50)
IN	pH		RIG REP	. (2.50)
FOOTAGE	WL-cc		CUT LINE	. (.)
HOURS	CAKE		SURVEY	. (8.25)
COND	ALKA		LOGS/DST	11.00(26.00)
FT/HR	SALT		CSG/CMT	. (4.25)
GPM/CF	SAND	%	WOC	. (7.00)
DP VEL	SOLIDS	%	NU BOP/TEST	. (11.50)
DC VEL	OIL	%	FISHING	. (.)
WT UP	ECD	#/gal	MUD/CHEM MIxed	
WT DN	Fl. Temp	Deg		
REMARKS: BHA	Hrs			

DAILY MUD		TOTAL MUD	17,241
DAILY COSTS	11.324	TOTAL COSTS	202,810

T P ENGINEERING, INC. DENVER CO. 800-424-0454

WELL CASPER'S CASA 58-35TD 4782 DAY 14 DATE 10/23/96
24 HR Ftg. 48 ROP 24 Weather CLOUDY
FORMATION: GUILMETTE ?
GAS: 6 UNITS
LITHO:
SHOWS:
ACTIVITY. TRIP to clean ouy bridge at 3870

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
4734-4782	330 80	20	800				

DESCRIPTION OF DAILY ACTIVITY

0600-0830	POH for logs, water flow
0830-0930	Circulate to kill water flow
0930-1030	WASH back to TD
1030-1300	Circ and build volume
1300-1330	Drilled 4734-4738, losing mud
1330-1530	Circ and condition mud
1530-1700	Drill 4738-4782
1700-2030	Circulate and raise mud weight to 8.7.
	Water flow pressure 2050 psi=8.4
2030-2300	Spot pill on bottom, POH for logs
2300-0330	Rig up and attempted to log. Griggdge at 3870
0330-0600	GIH , hit bridge at 3870, firm,push to TD

CONFIDENTIAL

BIT RECORD		MUD RECORD		Day,Hrs	Cumm
Bit No.	5	TIME	2030	BOILER	. (.)
SIZE		DEPTH	4782	DRILLING	2.00(205.00)
MFG.	NT	WEIGHT	8.7	REAMING	. (3.25)
TYPE	NT 2 RR	PSI/FT		CORING	. (.)
JETS		VIS	48	CIRC	9.00(21.75)
SERIAL		PV/YP	16/22	TRIPS	8.50(35.75)
OUT		GELS	3/9	RIG SER	. (505
IN		pH	9.5	RIG REP	. (
E		WL-cc	8.02	CUT LINE	. (.)
HOURS		CAKE	2/32	SURVEY	. (.)
COND		ALKA	40	LOGS/DST	4.50(.)
FT/HR		SALT	300	CSG/CMT	. (4.25)
GPM/CF		SAND	.50 %	WOC	. (7.00)
DP VEL		SOLIDS	3.0 %	NU BOP/TEST	. (11.50)
DC VEL		OIL	%	FISHING	. (.)
WT UP		ECD	#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	88 Deg	184 GEL; 4 poly; 2 507	

REMARKS: BHA Hrs 3 caustic; 5 soltex;
LOST 300 bbl mud 1 st time at 4734 105 cedar fiber;
LOST 300 bbl mud 2 nd time at 4738 75 Multi seal 80 Bar
Lost and built probably 200 bbl drilling 4738-4782

DAILY MUD 3,606 TOTAL MUD 17,241
DAILY COSTS 11,101 TOTAL COSTS 191,486

WELL: GHOST RANCH 59 3C TD 4642 DAY 14 DATE 10/22/96
24 HR Ftg. 92 ROP 20.0 Weather A Nippy 15
FORMATION: GUILMETTE ?
LITHO LS-lt to med gy bn,micxln, fim to hd, frac w/calc OB surf,sw oil sat fraf fil. sre occ of med xln,tr stx por 10-20% of sample 80-90% oil sat s/ dk bn sticky oil, even dul gld dk bn cut in white lite, imm brt-blu yel flor cut.

ACTIVITY: POH for logs

DESCRIPTION OF DAILY ACTIVITY

0600-1500 DST #1 4585 4642
1500-1800 RTS,circulate bottoms up
1800-2230 Drilling 4642-4734, lost circulation
2230-0500 Mix mud, spot pill on bottom,
→ 0500-0600 POH for logs.

CONFIDENTIAL

OPEN 10" W/ strong blow IHHP 2139
S.I. 30" IFP 1277
OPEN 60" W/ strong blow, dec, ISIP 2027
dead in 40 min. FFP 1134
S.I. 120" Rec. 442'Mud, 4133'Wtr. FSIP 2027
FHHP 2027
SAMPLER 2700cc water: pH 7.5, Cl 200ppm,

BIT RECORD		MUD RECORD		Day,Hrs		Cumm
Bit No.		TIME	0600	BOILER	.	(.)
SIZE	5	DEPTH	4734	DRILLING	3.50	(203.00)
MFG.		WEIGHT	8.8	REAMING	.	(3.25)
TYPE	NT	PSI/FT		CORING	.	(.)
JETS	NT-2 RR	VIS	43	CIRC Lo Cir	7.50	(12.75)
SERIAL	08798	PV/YP		TRIPS	2.50	(27.25)
OUT	4734	GELS		RIG SER	.	(.50)
IN	4642	pH	mining	RIG REP	.	(2.50)
FOOTAGE	92	WL-cc	LCM	CUT LINE	.	(.)
HOURS	4.5	CAKE		SURVEY	.	(8.25)
COND		ALKA		LOGS/DST	10.50	(10.50)
FT/HR		SALT		CSC/CMT	.	(4.25)
CPM/CF		SAND	%	WOC	.	(7.00)
DP VEL		SOLIDS	%	NU BOP/TEST	.	(11.50)
DC VEL		OIL	%	FISHING	.	(.)
WT UP		ECD	#/gal	MUD/CHEM MIxed		
WT DN		Fl. Temp	Deg			

REMARKS: BHA 203 Hrs
#5, HR from junk pile

DAILY MUD TOTAL MUD 13,635
DAILY COSTS 8,709 TOTAL COSTS 169,085

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 4642 DAY 12 DATE 10/21/96
24 HR Ftg. 30 ROP 20 Weather Better send Grant his
FORMATION: GUILMETTE ? Long Johns
GAS: 4 units trip gas
LITHO: Ls-lt to med gy-bn,med gy,some dk bm, mic-f xln, fm to bd.dns.frac w/ some calcite on frac surf, some oil sat frac fill calcite,some pcs of med xln,dll dolo,tr mtx por,20-30% of sample 100% oil sat w/ dk stky oil,hvy dk bn cut in wh lite,ins explod brt yel cut flor.
SHOWS: See Reports
ACTIVITY: Running DST 4585-4642

CONFIDENTIAL

DESCRIPTION OF DAILY ACTIVITY

0600-0730	Drill 4612 4636
0730-0800	Circulate
0800 1230	POH, SLM 6 foot correction to 4642
1230-1400	Repair High drum chain
1400-1800	Trip in hole, 20' soft fill.
1800-2000	Circulate hole clean for DST
0200-2300	POH for DST
0230-0600	Trip for DST tools, on bottom at 0600

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L
4610--1 1/4 dropped on trip					

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit No.	4	TIME	1900		BOILER	. (.)
SIZE		DEPTH	4642		DRILLING	1.50(199.50)
MFG.	NuTec	WEIGHT	8.8		REAMING	. (3.25)
TYPE	NT 1-5X	PSI/FT			CORING	. (.)
JETS	3/14	VIS	43		CIRC	2.50(5.25)
SERIAL	08119	PV/YP	12/12		TRIPS	18.50(43.25)
OUT	4642	GEL0	3/15		RIG SER	. (.)
IN	3627	pH	9.5		RIG REP	1.50(2.50)
FOOTAGE	1015	WL-cc	7.2		CUT LINE	. (.)
HOURS	100	CAKE	2/32		SURVEY	. (.)
COND	8-8-1/4	ALKA	20		LOGS/DST	. (.)
FT/HR	10.2	SALT	300		CSG/CMT	. (4.25)
CPM/CF	330	SAND	tr	%	WOC	. (7.00)
DP VEL		SOLIDS	3.6	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. ( )
WT UP		ECD		#/gal	MUD/CHEM Mixed	
WT DN		Fl. Temp	98	Deg	10 GEL: 2 Poly;2 507;	
REMARKS: BHA 200 Hrs					2 caustic; 9 soltex	

Teeth ok, 2 cones loose

DAILY MUD 1,304 TOTAL MUD 13,635
DAILY COSTS 8,799 TOTAL COSTS 169,085

T P ENGINEERING, INC. DENVER CO. 800-424-0454

WELL GHOST RANCH 58-35 TD 4612 DAY 11 DATE 10/20/96
24 HR Ftg. 223 ROP 9.7 Weather 24 but bettern up
FORMATION: GUILMETTE- the big MAU-MAU
GAS: Top of Paleo 4534
LITHO: Ls-med-dk bn, mic-f xln, hd dns, frac ,hvy
oil stn on frac surf, dull gld flor, gd lam cut
SHOWS: See Report No.1
ACTIVITY: CIRCULATING SAMPLES

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
4389-4612	330 80	25	760	5.5 I 14	65		

DESCRIPTION OF DAILY ACTIVITY

0600-1730	DRILLING
1730-1800	Rig service, survey
1800-0130	DRILLING
0130-0200	Rig service, survey
0200-0600	DRILLING

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L
4442--2; 4472--1 1/2; 4549--1; 4616--1 1/2;					

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit No.	4	TIME	1300		BOILER	. (.)
SIZE		DEPTH	4451		DRILLING	23.00(198.00)
MFG.		WEIGHT	8.7		REAMING	. (3.25)
TYPE		PSI/FT			CORING	. (.)
JETS		VIS	47		CIRC	. (2.75)
SERIAL		PV/YP	18/14		TRIPS	. (24.75)
OUT		GELS	3/12		RIG SER	.50(.50)
IN	3627	pH	9.5		RIG REP	. (.)
FOOTAGE	985	WL-cc	7.2		CUT LINE	. (.)
HOURS	98.5	CAKE	2/32		SURVEY	.50(8.25)
COND		ALKA	20		LOGS/DST	. (.)
FT/HR	10	SALT	300		CSG/CMT	. (4.25)
GPM/CF	330	SAND	tr	%	WOC	. (7.00)
DP VEL		SOLIDS	3.0	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. (.)
WT UP		ECD		#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	104	Deg	21 GEL; 3 POLY; 2 507	
REMARKS: BHA 198 Hrs					3 caustic; 7 SOLTEX	
		1 Stearate				

DAILY MUD	1,292	TOTAL MUD	12,330
DAILY COSTS	8.787	TOTAL COSTS	160,286

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 4389 DAY 10 DATE 10/19/96
24 HR Ftg. 126 ROP 7.0 Weather DUN GOT NICE
FORMATION VALLEY FILL ABGINN
GAS:
LITHO:
SHOWS:
ACTIVITY: DRILLING

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
4263-4389	330 80	15/20	650	5.5 x 14	65		

DESCRIPTION OF DAILY ACTIVITY

0600-1400 Drilling
1400-1500 Survey and calibrate new teledrift
1500-1630 Pull 35 stands, wiper trip to 2100
1630-1800 Repack swivel wash pipe
1800-2000 Trip back in,
2000-0600 Drilling, Trying to hold deviation

Wiper trip pulled about 10,000 over first 20 stands,one or two spots pulled 15 over. Goining in, pushed a ball with about 20,000 but never stopped. washed to TD ok

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L
4325	2 3/4 Wireline				

BIT RECORD		MUD RECORD		Day,Hrs	Cumm
Bit No.	4	TIME	1400	BOILER	. (.)
SIZE		DEPTH	4322	DRILLING	18.00(175.00)
MFG.		WEIGHT	8,8	REAMING	. (3.25)
TYPE		PSI/FT		CORING	. (.)
JETS		VIS	42	CIRC	. (2.75)
SERIAL		PV/YP	14/10	TRIPS	3.5 (24.75)
OUT		GELS	2/10	RIG SER	. (.)
IN	3627	pH	9.5	RIG REP	1.50(2.50)
FOOTAGE	762	WL-cc	7.0	CUT LINE	. (.)
HOURS	76.5	CAKE	2/32	SURVEY	1.00(7.75)
COND	GREEN	ALKA	20	LOGS/DST	. (.)
FT/HR	10	SALT	300	CSG/CMT	. (4.25)
GPM/CF		SAND	tr %	WOC	. (7.00)
DP VEL		SOLIDS	3.4 %	NU BOP/TEST	. (11.50)
DC VEL		OIL	%	FISHING	. (.)
WT UP		ECD	#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	100 Deg	GEL,21; POLY,2; A507,1;	
REMARKS: BHA 175 Hrs				GAUSTIc, 2; SOLTEX 3;	

DAILY MUD 692 TOTAL MUD 11,038
DAILY COSTS 8,187 TOTAL COSTS 151,499

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 4263 DAY 09 DATE 10/18/96
24 HR Ftg. 191 ROP 8.5 Weather COOLISH
FORMATION: VALLEY FILL
GAS:
LITHO:
SHOWS:
ACTIVITY: DRILLING

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
4072-4263	330	75	15/20	650			

DESCRIPTION OF DAILY ACTIVITY
0600-0600 Drilling and surveys

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

4074--1; 4168--1 3/4; 4230--2; all wireline

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit No.	4	TIME	1400		BOILER	. (.)
SIZE		DEPTH	4157		DRILLING	22.50(157.00)
MFG.		WEIGHT	8.7		REAMING	. (3.25)
TYPE		PSI/FT			CORING	. (.)
JETS		VIS	46		CIRC	. (2.75)
SERIAL		PV/YP	16/12		TRIPS	. (20.75)
OUT		GELS	2/10		RIG SER	. (.)
IN	3627	pH	9.5		RIG REP	. (1.00)
FOOTAGE	636	WL-cc	8.8		CUT LINE	. (.)
HOURS	58.5	CAKE	2/32		SURVEY	1.50(6.75)
COND		ALKA	20		LOGS/DST	. (.)
FT/HR	10.9	SALT	300		CSG/CMT	. (4.25)
GPM/CF		SAND	tr	%	WOC	. (7.00)
DP VEL		SOLIDS	3.6	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. (.)
WT UP		ECD		#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	100	Deg	GEL 0, Poly 4,507 2	

REMARKS: BHA 157 Hrs Caustic 4, Soltex 10,

DAILY MUD 1,471 TOTAL MUD 10,347
DAILY COSTS 9,153 TOTAL COSTS 143,312

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 4072 DAY 08 DATE 10/17/96
24 HR Ftg. 262 ROP 11.6 Weather 2 dog nite
FORMATION: Valley Fill
GAS:
LITHO:
SHOWS:
ACTIVITY: Drilling with less weight to drop angle

FROM	To		GPM	RPM	WT/M#	PSI	LxS	SPM
3810-4072	330	75/80	15	650	5.5 x 14	65		

DESCRIPTION OF DAILY ACTIVITY

0600-1500	Drilling
1500-1530	Survey and rig service
1530-1830	Drilling
1830-1900	Survey
1900-0130-	Drilling
0130-0200	Survey
0200-0600	Drilling

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

3978--2.5 WL; 4041--1.75 WL
WORST CASE SCENARIO 47.6 South of Surface location
See attached data sheet

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit No.	4	TIME	2100		BOILER	. (.)
SIZE	8 3/4	DEPTH	4003		DRILLING	22.50(134.50)
MFG.	NuTec	WEIGHT	8.8		REAMING	. (3.25)
TYPE	NT 1.5X	PSI/FT			CORING	. (.)
JETS	3/14	VIS	42		CIRC	. (2.75)
SERIAL	08119	PV/YP	12/14		TRIPS	. (20.75)
OUT		GELS	3/19		RIG SER	. (.)
IN	3627	pH	9.5		RIG REP	. (1.00)
FOOTAGE	445	WL-cc	8.8		CUT LINE	. (.)
HOURS	12.4	CAKE	2/32		SURVEY	1.50(5.25)
COND		ALKA	30		LOGS/DST	. (.)
FT/HR		SALT	300		CSG/CMT	. (4.25)
GPM/CF		SAND	.25	%	WOC	. (7.00)
DP VEL		SOLIDS	3.5	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. (.)
WT UP		ECD		#/gal	MUD/CHEM Mixed	
WT DN		Fl. Temp	96	Deg	GEL 0; POLY-2;	

REMARKS: BHA 135 Hrs
CAUSTIC -2; SOLTEX -4

DAILY MUD 637 TOTAL MUD 8,876
DAILY COSTS 8,132 TOTAL COSTS 134,159

WELL GHOST RANCH 58-35 TD 3810 DAY 07 DATE 10/16/96
24 HR Ftg. 187 ROP 12.7 Weather warmed up a tad
FORMATION: Valley Fill
GAS:
LITHO:
SHOWS:
ACTIVITY: Drilling

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
3623-3810	330 65	20/25	750	5.5 x 14	60		

DESCRIPTION OF DAILY ACTIVITY

0600-0730	Drilling
0730-1100	TRIP- drop survey, tight 2877-2560
1100-1200	Dress bit, function test BOP's. C/O teledrift
1200-1500	GIH w/ bit #4 NuTec NT1.5X
1500-1600	Wash and ream to TD
1600-0400	Drilling
0400-0430	Wireline survey
0430-0600	Drilling

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

3594--1 1/4, dropped on trip; 3700-- 1, Wireline

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit No.	3	TIME	0730		BOILER	. (.)
SIZE	8 3/4	DEPTH	3627		DRILLING	15.00(112.00)
MFG.	NuTec	WEIGHT	8.8		REAMING	1.00(3.25)
TYPE	NT-1	PSI/FT			CORING	. (.)
JETS	3/14	VIS	44		CIRC	. (2.75)
SERIAL	08119	PV/YP	14/12		TRIPS	7.5 (20.75)
OUT	3627	GELS	4/12		RIG SER	. (.)
IN	2867	pH	9.0		RIG REP	. (1.00)
FOOTAGE	760	WL-cc	12.0		CUT LINE	. (.)
HOURS	44	CAKE	2/32		SURVEY	.50(3.75)
COND	4-4-1/4	ALKA	30		LOGS/DST	. (.)
FT/HR	17.3	SALT	300		CSG/CMT	. (4.25)
GPM/CF		SAND	.125	%	WOC	. (7.00)
DP VEL		SOLIDS	3.5	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. (.)
WT UP		ECD		#/gal	MUD/CHEM Mixed	
WT DN		Fl. Temp	100	Deg	25 Gel,4 Poly	
REMARKS BHA 112 Hrs					4 Caustic, 10 soltex	

Bit had 218' and 18 hours previously

DAILY MUD 1,544 TOTAL MUD 8,239
DAILY COSTS 11,464 TOTAL COSTS 110,864

T P ENGINEERING, INC. DENVER CO. 800-424-8454

FORELAND CORPORATION

2561 South 1560 West
Suite 200
Woods Cross, UT 84087
(801)298-9866

FACSIMILE TRANSMISSION SHEET
Canon Fax-230 (801) 298-9889

Date: 10-15-96

To: John Snow

From: Bruce C. Decker

No. of Pages (Including Transmittal Sheet): 1

IF YOU ARE NOT RECEIVING PROPERLY OR SHOULD FOR SOME REASON NOT RECEIVE ALL PAGES, PLEASE TELEPHONE US IMMEDIATELY AT (801) 298-9866. THANK YOU.

- (☐) For Your Information
- ☐ For Review and Comment
- ☐ Per Our Conversation
- ☐ Per Your Request
- ☐ For Necessary Action

COMMENTS/SPECIAL INSTRUCTIONS:

3623

WELL GHOST RANCH 58-35 TD 3623 DAY 6 DATE 10/15/96
24 HR Ftg 388 ROP 16.5 Weather Cettin Cool
FORMATION: VALLEY FILL
GAS:
LITHO:
SHOWS:
ACTIVITY: DRILLING

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
3235-3623	330	[illegible]	700	5.5x14	60		

DESCRIPTION OF DAILY ACTIVITY

0600-1430 Drilling
1430-1500 Wireline survey 1/2 @ 3371
1500-0600 Drilling

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L
3371-- 1/2 Wireline					

BIT RECORD		MUD RECORD		Day,Hrs	Cumm
Bit No.	3	TIME	0830	BOILER	. (.)
SIZE		DEPTH	3291	DRILLING	23.50 (97.00)
MFG.		WEIGHT	8.8	REAMING	. (2.25)
TYPE		PSI/FT		CORING	. (.)
JETS		VIS	45/50	CIRC	. (.00)
SERIAL		PV/YP	16/20	TRIPS	. (13.25)
OUT		GELS	10/18	RIG SER	. (.
IN	2867 pH	9.0	RIG REP	. (1.00)	
FOOTAGE	756	WL-cc	11.0	CUT LINE	. (.)
HOURS	47.5	CAKE	2/32	SURVEY	.50 (3.25)
COND		ALKA	30	LOGS/DST	. (.)
FT/HR	17.8	SALT	300	CSG/CMT	. (4.25)
GPM/CF	330	SAND	.125 %	WOC	. (7.00)
DP VEL		SOLIDS	3.4 %	NU BOP/TEST	. (11.50)
DC VEL		OIL	%	FISHING	. (.)
WT UP		ECD	#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	95 Deg	GEL	40
REMARKS: BHA 97 Hrs		DESANDER	#/gal	CA'TIC	3
	DESILTER	#/gal	SOLTEX	8	
	CENTRIF.	#/gal	KCL		
		POLY	4		
DAILY MUD	1,365	TOTAL MUD	6,695	INHIB	
DAILY COSTS	11,464	TOTAL COSTS	110,864	SODA ASH	

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL GHOST RANCH 58-35 TD 3235 DAY 5 DATE 10/14/96
24 HR Ftg.. 368 ROP 19.4 Weather
FORMATION: VALLEY FILL
GAS:
LITHO:
SHOWS:
ACTIVITY: DRILLING

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
2867-	3235	330 [illegible]	[illegible]	850	5.5 x 14	65	

DESCRIPTION OF DAILY ACTIVITY

0600-0700	Finish trip out, make up new BHA
0700-0730	Clean shale tank, sand trap
0730-1000	GIH, h.. bridge 1757-1800
1000-1030	Wash and ream to bottom
1030-2200	Drilling
2200-2230	Wireline survey at 3098
2230-0600	Drilling

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L
2909-1/2; 2972-0; 3[illegible]	[illegible]-1.0, WIRELINE				

BIT RECORD		MUD RECORD		Day,Hrs	Cumm
Bit No.	3	TIME	0900	BOILER	. (.)
SIZE	8 3/4	DEPTH	2867	DRILLING	19.00(73.50)
MFG.	Nutec	WEIGHT	8.9	REAMING	.50(2.25)
TYPE	NT [illegible]	PSI/FT		CORING	. (.)
JETS	3-14	VIS	45	CIRC	.50(2.75)
SERIAL	[illegible]	PV/YP	15/15	TRIPS	3.50(13.25)
OUT		GELS	5/9	RIG SER	. (1.00)
IN	2867	pH	9.0	RIG REP	. (.)
FOOTAGE	[illegible]	WL-cc	11.2	CUT LINE	. (.)
HOURS	19	CAKE	2/32	SURVEY	.30(2.75)
COND		ALKA	30	LOGS/DST	. (.)
FT/HR	19.4	SALT	300	CSG/CMT	(4.25)
GPM/CF	330	SAND	.125 %	WOC	. (7.00)
DP VEL		SOLIDS	3.7 %	NU BOP/TEST	. (11.50)
DC VEL		OIL	%	FISHING	. (.)
WT UP		ECD	#/gal	MUD/CHEM MTxad	
WT DN		Fl. Temp	Deg	GEL	50

REMARKS: BHA 74 Hrs DESANDER #/gal CA'TIC 3
STIFF-see 10/10 DESILTER #/gal SOLTEX 6
REROUN BIT HAS 218' CENTRIF. #/gal KCL
618 hrs-previous POLY 3
DAILY MUD [illegible],230 TOTAL MUD 5,340 INHIB
DAILY COSTS [illegible] TOTAL COSTS [illegible] SODA ASH

WELL GHOST RANCH 58-35 TD 2867 DAY 4 DATE 10/13/96
24 HR Ftg. [illegible] ROP 46.1 Weather DRYER THAN DRY
FORMATION:
GAS: Valley Fill
LITHO:
SHOWS:
ACTIVITY: TRIP for Bit

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
1991-2867	330	50	[illegible]	850	5.5x14	850	

DESCRIPTION OF DAILY ACTIVITY

0600-1030	Drilling
1030-1100	Rig Ser[illegible]
1100-1800	Drilling
1800-1830	Circ & S[illegible]
1830-2000	Drilling
2000-2030	Survey
2030-0230	Drilling
0230-0600	Trip

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L
2055->1, 2211->1, 23[illegible]		[illegible] 1/4, Wireline;			
2528->1; 2591->1; 27[illegible]					

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit NO.	[illegible]	TIME	0830		BOILER	. (.)
SIZE		DEPTH	2117		DRILLING	19.00(54.50)
MFG.	ST[illegible]	WEIGHT	8.9		REAMING	. (1.50)
TYPE	FD[illegible]	PSI/FT			CORING	. (.)
JETS	3, [illegible]	VIS	42		CIRC	. (.00)
SERIAL	EX[illegible]	PV/YP	15/13		TRIPS	3.50(9.75)
OUT	28[illegible]	GELS	4/8		RIG SER	.50(1.00)
IN	[illegible]	pH	8.5		RIG REP	. (.)
FOOTAGE	2[illegible]	WL-cc	10.8		CUT LINE	. (.)
HOURS	[illegible]	CAKE	2/32		SURVEY	1.00(2.25)
COND	4-[illegible] 8	ALKA	30		LOGS/DST	. (.)
FT/HR	[illegible]	SALT	300		CSG/CMT	. (4.25)
GPM/CF	[illegible]	SAND	0.125	%	WOC	. (7.00)
DP VEL		SOLIDS	3.8	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. (.)
WT UP		ECD		#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	85	Deg	CEL	13[illegible]

REMARKS: BHA [illegible] Hrs DESANDER #/gal CA'TIC 2
DESILTER #/gal SOLTEX 20
CENTRIF. #/gal KCL
POLY 4

DAILY MUD 2,860 TOTAL MUD 4,110 INHIB
DAILY COSTS [illegible] TOTAL COSTS [illegible] SODA ASH

T P ENGINEERING, INC. DENVER CO. 800-424 8454

WELL GHOST RANCH 58-35 TD 1991 DAY 3 DATE 10/12/96
24 HR Ftg. 1195 ROP 53.4 Weather Is just dandy
except the dust is killin me
FORMATION: Valley fill
GAS:
LITHO:
SHOWS:
ACTIVITY: Drilling

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM
746	2991	330	9[illegible]	[illegible]	850	5 1/2 x 14	65

DESCRIPTION OF DAILY ACTIVITY

0600 0800	Drilling
0800-0900	Repair air valves on High and low Clutch
0900-1430	Drilling
1430-1500	Rig service and survey
1500-1600	Drilling
1600-1730	Survey-wireline check at 1196
1730-0600	Drilling

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

853-1/2; 979-1; 1129-[illegible]; 1423-1/2; 1610-1/2; 1800-1/2

BIT RECORD		MUD RECORD			Day,Hrs	Cumm
Bit No.	2	TIME	1200		BOILER	. (.)
SIZE		DEPTH	979		DRILLING	22.00(35.50)
MFG.		WEIGHT	8.8		REAMING	. (1.50)
TYPE		PSI/FT			CORING	. (.)
JETS		VIS	41		CIRC	. (2.25)
SERIAL		PV/YP	13/12		TRIPS	. (6.25)
OUT		GELS	3/5		RIG SER	.25(.50)
IN	505	pH	9.0		RIG REP	1.00(1.00)
FOOTAGE	1486	WL cc	12.8		CUT LINE	. (.)
HOURS	26	CAKE	2/32		SURVEY	.50(1.25)
COND		ALKA	40		LOGS/DST	. (.)
FT/HR	57.2	SALT	400		CSG/CMT	. (4.25)
GPM/CF	330	SAND	TR	%	WOC	. (7.00)
DP VEL		SOLIDS	3.4	%	NU BOP/TEST	. (11.50)
DC VEL		OIL		%	FISHING	. (.)
WT UP		ECD		#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	70	Deg	GEL	50

REMARKS: BHA 36 Hrs DESANDER #/gal CA'TIC
Stiff see 10/11 DESILTER #/gal BICARB 15
CENTRIF. #/gal KCL
POLY 2

DAILY MUD	760	TOTAL MUD	1,250	INHIB	
DAILY COSTS	9,652	TOTAL COSTS	75,223	SODA ASH	

T P ENGINEERING, INC. DENVER CO. 800-424-8454

WELL SA-35 GHOST RANCH TD 746 DAY 2 DATE 10/11/96
24 HR Ftg. 241 ROP 40 Weather Bit of a morning chill
FORMATION: VALLEY FILL
GAS:
LITHO:
SHOWS:
ACTIVITY: DRILLING 8 3/4

FROM	To	GPM	RPM	WT/M#	PSI	LxS	SPM

DESCRIPTION OF DAILY ACTIVITY

0600-1000	WOC
1000-1500	Cut off casing, weld on head
1500-1930	Nipple up
1930-2100	TEST BLIND RAMS,MANIFOLD VALVES to 1000#
2100-2300	Pick up BHA, Teledrift
2300-2400	CIR,had a tite spot in casing, rotated thru ok
2400-2430	TEST PIPE RAMS AND ANNULAR TO 1000#
2430-0200	Tag cement at 460, Drilling Cement & Shoe
0200-0600	Drilling

CONFIDENTIAL

DEVIATION SURVEYS

DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	D/L

BIT RECORD		MUD RECORD		Day,Hrs	Cumm
Bit No.	2	TIME		BOILER	. (.)
SIZE	8 3/4	DEPTH		DRILLING	4.00(13.50)
MFG.	SMITH	WEIGHT	8.6	REAMING CMT	1.50(1.50)
TYPE	FDT	PSI/FT		CORING	. (.)
JETS	3/12	VIS	40	CIRC	. (.00)
SERIAL	EX6062	PV/YP		TRIPS	3.00(6.25)
OUT		GELS		RIG SER	. (.25)
IN	505	pH		RIG REP	. (.)
FOOTAGE	241	WL-cc		CUT LINE	. (.)
HOURS	4	CAKE		SURVEY	. (.75)
COND	NEW	ALKA		LOGS/DST	. (.)
FT/HR	40	SALT		CSG/CMT	. (4.25)
GPM/CF		SAND	%	WOC	2.00(7.00)
DP VEL		SOLIDS	%	NU BOP/TEST	11.50(11.50)
DC VEL		OIL	%	FISHING	. (.)
WT UP		ECD	#/gal	MUD/CHEM MIxed	
WT DN		Fl. Temp	Deg	GEL	

REMARKS: BHA 13 Hrs DESANDER #/gal CA'TIC
BIT-Near Bit 3 Point DESILTER #/gal DRISPAC
Teledrift-3 point NR CENTRIF. #/gal KCL
1 DC-185-11 DC' 378' POLY

DAILY MUD		TOTAL MUD	490	INHIB	
DAILY COSTS	14,738	TOTAL COSTS	69,533	SODA ASH	

Well: Ghost Ranch Federal #58-35 TD: Day: 1 Date: 10-10-96
24 Hr. Footage: 435 Weather: AWWSUM
Formation: Valley Fill
Gas:
Litho:
Shows:
Activity: WOC

From	To	GPM	RPM	WT/M#	PSI	LxS	SPM
70	505						

CONFIDENTIAL

Description of Daily Activity:

0800-0930	Mixing spud mud.
0930-2000	Drilling 12 1/4" surface hole.
2000-2030	TD @505. Survey and rig service.
2030-2100	Circulate for casing.
2100-2145	Wiper trip, 4' fill.
2145-2200	Circulate for casing.
2200-2245	POH for casing.
2245-0100	Run 13 Jts. 9 5/8" ST&C. Landed at 504.
0100-0300	Comented w/50 sxs. HIFill, 110 sxs. Premium V w/2% cc 1/4 Flocele. 80 sxs. top out w/1".
0300-0600	WOC

Deviation Surveys:

Depth	Angle	Direction	TVD	Coordinates

BIT RECORD		MUD RECORD			Day, Hrs.	Cum.
Bit No.	1	Time		Boiler		
Size	12 1/4	Depth	505	Drilling	9.50	9.50
MFG.	REED	Weight	8.9	Reaming		
Type	Y11J	PSI/FT		Coring		
Jets	3/16	VIS	41	Circ.	2.25	2.25
Serial	VS84544	PV/YP		Trips	2.00	2.00
Out	505	Gels		Rig Ser.	0.25	0.25
In	70	pH		Rig Rep.		
Footage	435	WL-CC		Cut Line		
Hours	9.5	Cake		Survey	0.75	0.75
Cond		Alka		Logs/DST		
FT/HR		Salt		CSG/CMT	4.25	4.25
GPM/CFM		Sands		WOC	3.00	3.00
DP VEL		Solids		NU BOP/Test		
DC VEL		Oil		Fishing		
WT UP		ECD			Mud/Chem Mixed	
WT DN		Fl. Temp.				
Remarks: BHA		Hrs.	Desander	#/gal.		
			Desilter	#/gal.		
			Centrif.	#/gal.		

Daily Mud:	490	Total Mud:	490
Daily Costs:	46,195	Total Costs:	55,545

RECEIVED

SEP 2 6 1996

Div. of Minerals

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NVN-42341

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Ghost Ranch Fed. 58-35

2. Name of Operator
Eagle Springs Production, LLC

9. API Well No.
27-023-05544

3. Address and Telephone No. (801)298-9866
2561 So. 1560 West, Suite 200, Woods Cross, UT 84087

10. Field and Pool, or Exploratory Area
Ghost Ranch

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Original Location: 345.05 FSL, 2100.51 FEL, Sec. 35, T9N, R57E

11. County or Parish, State
Nye County, NV

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[X] Change of Plans
	[ ] Recompletion	[ ] New Construction
[ ] Subsequent Report	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
[ ] Final Abandonment Notice	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

As a result of downhole log evaluation of the Ghost Ranch Federal #48-35, Eagle Springs Production, LLC proposes to amend its Ghost Ranch Federal #58-35 location to the following:

395.05 FSL, 2090.51 FEL, Section 35, Township 9N, R57E.

RECEIVED
JUN 2 3 1997
NBMG Information Office

14. I hereby certify that the foregoing is true and correct
Signed Bruce C. Decker Title Bruce C. Decker, Manager Date

(This space for Federal or State office use)
Approved by _____ Title DOM Manager Date 9-25-96
Conditions of approval, if any:

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

*See Instruction on Reverse Side

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Nevada State Office
P.O. Box 12000
Reno, Nevada 89520-0006

RECEIVED
SEP 2 6 1996
of Minerals

In Reply Refer To:
Eagle Springs/Ghost Ranch Fed.
Well No. 58-35
N-42341
3160-1 (NV-920)

SEP 2 5 1996

Eagle Springs Production, LLC
2561 South 1560 West, Suite 200
Woods Cross, UT 84087

Gentlemen:

Enclosed is an approved copy of your Application for Permit to Drill (APD): Eagle Springs/Ghost Ranch Fed. Well No. 58-35, section 35, T. 9 N., R. 57 E., MDBM, Federal oil and gas lease no. N-42341, Nye County, Nevada. Enclosed also are conditions of approval which were developed as the result of the drilling program review and from the environmental assessment prepared by the Tonopah Resource Area Office. Please ensure all personnel responsible for construction, drilling and reclamation of this location are familiar with the conditions of approval.

Should you have any questions regarding these permits, please contact Steve Wells, Division of Mineral Resources, at (702) 785-6573.

Sincerely,

(Sgd) Thomas V Leshendok

Thomas V. Leshendok
Deputy State Director, Mineral Resources

3 Enclosures
1. BLM Conditions of Approval
2. BLM Minimum BOPE Requirements
3. Approved APD

RECEIVED
JUN 2 3 1997
NBMG Information Office

cc: ✓Mr. Russ Fields, State DOM
400 W. King St., Suite 106
Carson City, NV 89710 (w/encls.)

Mr. L. H. Dodgion, State DEP
Capitol Complex
123 W. Nye Lane
Carson City, NV 89710 (face page)

DM, Battle Mountain (w/encls.)
J. Stout, Ely (w/encls.)
NV-943 (face page)

BLM Conditions of Approval

RECEIVED
JUN 2 3 1997
NBMG Information Office

All correspondence shall be mailed to the following address:

Bureau of Land Management
Nevada State Office
850 Harvard Way
P.O. Box 12000
Reno, Nevada 89520-0006
Attn: Division of Mineral Resources, Fluids Branch (NV-920)

Oral requests via telephone shall be directed to the individuals at the following numbers:

John Stout, Oil and Gas Inspector (702) 289-4722 (24-hour)
Steve Wells, Petroleum Engineer (702) 785-6573

1. A copy of the approved Application for Permit to Drill (APD), Form 3160-3, the attached set of conditions of approval, and the minimum Blow Out Prevention Equipment (BOPE) requirements must be posted at the well site prior to commencing operations.

2. The BLM must be notified at least 48 hours prior to spudding and within 24 hours after well is actually spudded. These notifications should be oral with written follow up. This is necessary to schedule the witnessing of BOPE tests.

3. You cannot deviate from your approved APD without prior approval. If you want to change your operations in any way, you must first receive approval from BLM.

4. Any information you desire to be held confidential must be clearly marked "CONFIDENTIAL INFORMATION" on each page. The regulations at 43 CFR 3162.8 require the submitter to mark the documents. Any pages marked confidential will be held confidential for a period of 12 months.

5. A copy of the completion report and all test information and logs obtained from this well shall be submitted to this office within 30 days after the well is completed.

6. No later than the fifth business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, the operator must notify the BLM by letter or sundry notice of the date on which such production commenced. The date is defined as follows: the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first. If you intend to sell from a test tank, it must be calibrated as specified in Onshore Order Number 4, Part C, and sealed in accordance with Onshore Order Number 3. You can initially notify orally, but you must followup with a letter or sundry

notice. Reference is made to 43 CFR 3162.4-1(c). As a minimum, such notice must provide the following information:

a. Operator's name, address and telephone number.
b. Well name and number.
c. Well location (¼ ¼ Section, Twp., Rge., MDBM).
d. Date well placed in a producing status.
e. The nature of the well's production, i.e., crude oil, natural gas, or both.
f. The lease, communitization, or unit number applicable.

7. Hydrogen Sulfide Contingency Plan. A contingency plan will be submitted when required by this office. However, minimum safety precautions must be taken at all times. Personal safety equipment, including a portable hydrogen sulfide detector situated in a position to detect gas from the well, and two or more OSHA-approved protective breathing apparatii must be on location. If company policy requires more than this, please supply this office with a copy of the company plan or requirement, if not already submitted.

8. Abandonment program approval must be obtained prior to plugging the well. Following an oral approval, a sundry notice titled "Notice of Intent to Abandon" will be submitted to this office within five business days. Failure to obtain approval prior to commencement of abandonment operations shall result in immediate assessment under 43 CFR 3163.1(b)(3). Notice: if no logs are run (mud or electric), all open sections of hole will be filled with cement in a manner which precludes interzonal migration of fluids.

9. Directional surveys (inclination and azimuth) shall be run on the well wherever the inclination exceeds 10 degrees or the projected bottom hole location is within 200 feet of the spacing unit or lease or unit boundary.

10. Pursuant to 43 CFR 3162.7-1(b), production testing will be permitted into test tanks only. No oil will be permitted into the reserve pit except in emergency situations.

11. Trash must be contained on site and hauled to an approved landfill. Burial and/or burning on site is not permitted.

12. Immediately upon cessation of drilling and completion operations, the perimeters of the mud pit will be pushed in to reduce its size. The smaller area must be fenced and remain fenced until it dries and is ultimately reclaimed.

13. If water fowl or shorebirds begin using the mud pit or other open water associated with this operation, netting must be installed to prevent access. If any avian mortalities occur, the Tonopah Field Station Manager must be immediately notified.

14. Eagle Springs Production, LLC must obtain and maintain all necessary State of Nevada and local permits applicable to the drilling and production of this well.

15. Gravel trucks must stay on the pad or access road, or as close to them as possible. Excessive off-road driving is prohibited. Culverts must be used in the access road to prevent disruption of natural drainages.

16. Water for drilling will be obtained off site from an existing source and trucked to the site, or a well drilled on site. If a water well is drilled, upon abandonment, it must be plugged to State of Nevada standards. A permit for use of the water must be obtained from the State of Nevada Department of Water Resources.

17. Portable chemical toilets must be used for human waste. This waste may not be chemically treated and buried on site.

18. If any oil or noxious fluids are spilled, they shall be immediately cleaned up to prevent contact by avian life. After clean up, the oil or noxious fluids and any contaminated materials must be removed from the pits. Any oil that is exposed to the environment and approved by lease operations shall be netted to preclude avian life.

19. Upon abandonment, the mud pit must be filled and the drill pad reduced to less than six inches original grade. The first and last 50 feet of the new access road must be reduced to original grade. The remainder of the road must be reduced to less than six inches above original grade. Culverts must be removed and an area 20 feet on either side of the culvert reduced to original grade. The excess pad and road material may not be spread in the surrounding desert, but must be hauled offsite to an approved disposal site.

The disturbed areas, pad, road, etc., must be reseeded. Prior to seeding the area must be scarified, and then lightly raked after seeding has been completed. Application may be by hand broadcast or drilling, but must be done between November 1st and January 31st. Recommended seed mix for this area is listed below:

Variety	Pounds Per Live Seed/Acre
Alkali sacaton	3.0
Fourwing saltbush	5.0
Indian ricegrass	4.0
Inland saltgrass	5.0

20. All reclamation of the disturbed areas must be completed within one (1) year from the date of the proper plugging and abandonment of the wells. If a producer, the mud pit must be reclaimed within one year of the date of production. The Authorized Officer of the Bureau of Land Management must be notified in writing when reclamation operations commence and when reclamation is completed.

21. If the well is a producer, the pad must be reduced in size to that which is necessary for production operations. The unneeded portion of the pad must be reclaimed as described in Item 19. All production facilities must be painted to blend with the natural surroundings.

22. If, during the course of the operation, cultural or paleontological resources are encountered, all activities must cease and the Tonopah Field Station Manager immediately notified.

23. Pursuant to 43 CFR 10.4(g) the holder of this APD must notify the authorized officer, by telephone, with written confirmation, immediately upon the discovery of human remains, funerary objects, sacred objects, or objects of cultural patrimony (as defined at 43 CFR 10.2). Further, pursuant to 43 CFR 10.4(c) and (d), you must stop all activities in the vicinity of the discovery and protect it for 30 days or until notified to proceed by the authorized officer.

BLM MINIMUM BOPE REQUIR" ENTS

BLOWOUT PREVENTER EQUIPMENT FOR WELL No. 58-35 SEC. 35 T. 9 N. R. 57 E

WILDCAT YES FIELD WELL GHOST RANCH. LEASE NO. N-42341

OPERATOR Eagle Springs Prod., LLC COUNTY NYE STATE NV

1. API _____ 3M ARRANGEMENT SRRA

2. KILL LINE SIZE 2" WITH APPROPRIATE VALVES X

3. CHOKE LINE SIZE 3" WITH APPROPRIATE VALVES X

4. IF THE PRESSURE FOR THE TEST IS TO BE SUPPLIED BY THE RIG PUMP THE **MAXIMUM REQUIRED PRESSURE SHALL BE 1500 PSI** X

   A. PRIMARY CONTROLS (MANUAL OPERATION OPTION) X

   B. REMOTE CONTROLS (WITHIN 10' OF DRILLER) X

5. UPPER KELLY COCK W/WRENCH ON RIG FLOOR X

6. LOWER KELLY COCK W/WRENCH ON RIG FLOOR _____

7. FULL OPENING SAFETY VALVE AND WRENCH ON RIG FLOOR X

8. INTERNAL PREVENTER OR FLOAT IN STRING, OR ON RIG FLOOR, OPERABLE _____

9. PRESSURE GAUGES:RIG PUMP, STAND PIPE, AND CHOKE LINE X

10. RAM-TYPE PREVENTER(S) TO BE TESTED TO 70% OF INTERNAL YIELD PRESSURE OF CASING X

11. ANNULAR-TYPE PREVENTER TO BE TESTED TO 50% OF WORKING PRESSURE X

12. GAS DETECTOR X

13. PIT LEVEL INDICATOR X

14. TRIP TANK _____

15. FLOW NO FLOW INDICATOR _____

16. H_2S MONITORING EQUIPMENT (See BLM CONDITIONS OF APPROVAL) X

17. H_2S SAFETY EQUIPMENT (See BLM CONDITIONS OF APPROVAL) X

18. H_2S CONTINGENCY PLAN (See BLM CONDITIONS OF APPROVAL) X

19. ALL TESTS, DRILLS, AND SAFETY MEETINGS MUST BE POSTED IN THE DRILLER'S LOG BOOK X

OTHER REQUIREMENTS NOT SPECIFIED ABOVE: SO THAT BOPE TESTS MAY BE WITNESSED, PLEASE NOTIFY JOHN STOUT (702) 289-4722 AND/OR STEVE WELLS (702) 785-6573 WITH SUFFICIENT LEAD TIME.

A. ANY WAIVER FROM THE APPROVED BOPE MUST BE AUTHORIZED BY THE BLM.

B. COPIES OF APPROVED APD AND THIS NOTICE AND BLM CONDITIONS OF APPROVAL MUST BE POSTED ON THE RIG.

C. COPIES OF ALL CONTINGENCY PLANS MUST BE KEPT AT THE WELL SITE.

APPROVED SUBJECT TO THE ATTACHED CONDITIONS

EAGLE SPRINGS PRODUCTION, LLC

DRILLING PROGNOSIS
Ghost Ranch Fed. #58-35
SW¼ SW¼ SE¼ Section 35, T9N, R57E
Proposed Total Depth:

Location:

Located approximately 15 miles south of Currant, Nevada.

Estimated Formation Tops

RECEIVED
JUN 2 3 1997
NBMG Information Office

Anticipated Oil Bearing Zones

Anticipated Pressures and Hole Problems

All available pressure data from Railroad Valley indicate a pressure gradient just slightly higher than hydrostatic in all zones and formations tested. No abnormal pressures are expected.

In the shallow valley fill, some problems with hole stability may be encountered. Also, rapid rates of penetration may cause build-up of cuttings in annulus. Clays within the sequence can rapidly build up mud weight which must be controlled. In Railroad Valley, only minor to moderate loss of circulation has been noted. Loss of circulation problems typically have been successfully treated with LCM. Nevada's asphaltic crude is susceptible to emulsion blocks and oil wetting of the reservoir, especially in clastic sequences. Water loss and mud weight must be controlled to prevent damage. Proper implementation of the mud program, including tight control of the hydraulics and mud properties, and a properly functioning mud cleaning system is critical to success of the drilling program.

Steeper dips which may be encountered in the section may create deviation problems. Sufficient deviation surveys and use of various bottom hole assemblies are required to prevent excessive deviation.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

Mud Program

Depth	Weight	Visc.	F.L.
0' - 500'	8.7-9.0	40-55	15

Surface interval to be drilled with mud properties and hydraulics sufficient to clean hole. Viscosity will be adjusted to provide good carrying capacity. Section may be drilled with controlled rate of penetration to prevent build up of cuttings in annulus.

Depth	Weight	Visc.	F.L.
500' - 5000'	8.8-9	35-40	4-10

Drill below surface casing with low solids non-dispersed polymer mud. Primary concern when drilling is retaining low mud weight by utilizing centrifuge for solids control. Based on other wells in this area, minimal loss of circulation is expected. Loss of circulation to be treated with cottonseed hulls, cedar fiber, mica, etc.

A properly functioning shale shaker with ~80 mesh screens, a desander, and a desilter (preferably 10 or 12 cone) capable of processing 600-800 GPM will be used for solids control. A 200 GPM centrifuge will be used for solids control.

Logging Program

Sample Collection: Samples will be caught every 30' to 500' and every 10' from 500' to T.D., dried, and bagged.

Mud Logging: FID and gas chromatograph from surface casing to total depth.

Open Hole Logs:

1. Dll-Gr-Sp-Cal from base of surface casing to TD.

2. GR-Sonic from base of surface casing to TD.

3. FDC-CNL-Cal-GR and Dipmeter as directed by on-site geologist.

No coring is anticipated during drilling.

DST's and sidewall cores may be taken at the direction of the on-site geologist.

Casing Program

Conductor: ~60' of 20" conductor to be set in 24" hole and cemented by rat hole driller prior to move in of drilling rig.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

Surface Casing: 500' of 9 5/8" OD, 36#, J-55. Cement around shoe with 100% excess. Top job with macaroni tubing if cement falls.

Production Casing: Drill out with an 8 3/4" bit to T.D. or intermediate setting a 7" casing.

The following are minimum values for new casing:

9 5/8" 36#/ft.	J-55	ST&C	Set at 500'	with 9# Mud
Collapse	2,020	psi	Safety factor used	1.125
Yield	3,520	psi	Safety factor used	1.000
Jt. Strength	394,000	lbs	Safety factor used	1.800

7" 23#/ft.	J-55	ST&C	Set 0-5000'	with 9# Mud
Collapse	3,270	psi	Safety factor used	1.125
Yield	4,360	psi	Safety factor used	1.000
Jt. Strength	284,000	lbs	Safety factor used	1.800

These values will exceed any anticipated design for setting depth of 5000' or less.

Cementing Program

Surface Casing: 12 1/4" hole with 500' of 9 5/8" casing.

Lead: 300' to surface w/100% excess, 80 sacks of "Light" cement w/2% CaCl and .25 lb/sack Flocele or equivalent, weight = 12.7 lb/sack, yield = 1.84 cu. ft/sack, water = 8.8 gal/sack.

Tail: 300'-400' w/100% excess, 60 sacks of standard cement w/2% CaCl and .25 lb/sack Flocele or equivalent, weight = 12.7 lb/sack, yield = 1.84 cu. ft/sack, water = 9.9 gal/sack.

If cement column falls, a top job will be performed.

Production Casing: 8 3/4" hole with 6000' of 7" casing, actual fill-up to be determined based on reservoir depth and thickness. Location and thickness of potential reservoirs and use of packer-cementer will modify final cement design program.

Lead: ~1000', 2/15% excess, 50 sacks of "Light" x/0.6% Halad, weight = 12.7 lb/gal, yield = 1.84 cu. ft/sack, water = 8.8 gal/sack, actual volume based on caliper log.

Tail: ~500' above top zone to be tested w/15% excess, estimated w/1500': 150 sacks of premium cement w/.5% CFR-3, .30% SSA-1 and .25% HR-12, .3% Halad, weight = 15.6 lb/sack, yield = 1.50 cu. ft/sack, water = 6.4 gal/sack.

Final programs may vary as to volumes and actual well bore conditions.

APPROVED
SUBJECT TO ... ATTACHED STIPULATIONS

Drilling Procedure

1. Build road and location to specs required for rig.

2. Set conductor, drill rathole, mousehole, and sanitation holes.

3. Notify appropriate governmental authority (State of Nevada or BLM) of pending spud date.

4. Mi and RU rig.

5. Spud 12 1/4" surface hole and drill to ~500' using recommended mud program. Catch 30' samples from surface to SD. Monitor deviation with teledrift tool. Control drill rate if necessary to avoid solids build up.

6. Run and cement 9 5/8" 36#, J-55. Cement around shoe with 100% excess. Top job with macaroni tubing if cement falls.

7. Notify appropriate governmental authority of time for BOP test. Nipple up BOPE. Test BOP and choke manifold to 1800 psi or as directed. Minimum BOPE will be used as described in the attached BOP information sheets.

8. Mud logger to be rigged up and operative at 500'.

9. RIH with 8 3/4" bit, drill out float collar, cement, and shoe plus 100' of formation. Dump contaminated mud to reserve pit, switch to LSND polymer based mud system.

10. Trip to pick up stiff assembly made up with a near bit IBS, short drill collar, string IBS, 6" drill collar, string IBS and 437 type bit.

11. Drill 8 3/4" hole to T.D., following recommended bit and mud programs. Keep solids as low as possible to provide minimum mud weight. Monitor deviation with teledrift, drop instrument on trips to confirm. Use BHA as determined by well site personnel.

12. At 5000', condition mud and hole. Run open hole logging program and evaluate for completion or P&A.

13. If well is to be completed, run and cement 7" casing following casing and cementing programs.

14. If well is dry, notify all concerned parties and appropriate government personnel. P&A according to government requirements.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

Water Sources and Impacts

Eagle Springs Production anticipates following the procedure below to obtain temporary water for purposes of well drilling and culinary use.

1. Ascertain if agricultural or mining water wells or springs are available and within economic hauling distance, and if current users are amenable, file for a temporary use of up to 150,000 gallons during a 20-day period with the Nevada Division of Water Resources. Upon obtaining written approval from the Department of Conservation and Natural Resources, haul water in 90 bbl. steel tank trucks to drilling location over location access roads.

2. If No. 1 above not available, apply for a water well waiver for drilling and temporary use of water for drilling of the oil well from Nevada Division of Water Resources. Contract with Nevada licensed water well driller to drill up to 500 ft. to obtain minimum 70 gpm.

3. If No. 2 above does not produce adequate water, expand hauling distance for No. 1 to next available source.

4. After a water source is secured, water is tested for culinary use and chemical compatibility with drilling muds. If suitable, the water is used to fill portable potable tanks for use of crews at the location and to fill the rig water tanks.

5. If a water well is drilled to supply any oil well location and it is determined that water from such well can be delivered to one or more oil well locations, Eagle Springs Production will apply to the Division of Water Resources for a waiver for such use, and request BLM approval concerning the route of a temporary surface water supply line running from the initial location to subsequent locations. This procedure has been used successfully at the North Willow Creek field where the NWC #1-27 well subsequently supplied the #2-27 and #5-27 wells.

Due to the relatively small amount of water used for oil well drilling (.47 ac.ft.) compared to agricultural use, and the review of the Nevada Division of Water Resources prior to issuance of a waiver, no impact to ground or surface water supplies is anticipated.

Period of Operation

Eagle Springs Production anticipates that drilling will begin approximately September 15, 1996. The well will take between fifteen and twenty days to complete barring unforseen problems. Wells are drilled 24 hours per day, seven days per week with two

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

crews rotating 12-hour shifts. Due to the remoteness of the locations and sparse population, no impacts due to traffic, noise or other activities at the site are anticipated.

Cultural Resources

No cultural resources were located during archaeological inventory of the proposed access road and wellsite and therefore, Eagle Springs Production's location for the Ghost Ranch Fed. #58-35 will have no effect on historic properties. (A copy of R. K. Vierra & Associates' negative report is attached hereto.)

Right-of-Way

The drilling rig is transported in approximately 25 trips by semi-tractor trailers. The route will utilize Highway 6 south 10 miles to Currant to a gravel county road, then 5 miles east to a single track lease road which extends south approximately 1000' to the drillsite.

All roads are public right-of-way or existing lease roads.

Operations During Drilling

Production testing will be to test tanks only. No oil will be permitted into the reserve pit except in emergency situations.

Wire trash baskets will be placed at the pad and hauled to the nearest municipal disposal facility (Currant/Ely). No trash will be left on or adjacent to the sites. No trash will be buried on the project area.

The reserve pit will be fenced on three sides. Upon removal of the drill rig, the fourth side of the pit shall be fenced. The pit shall remain fenced until reclaimed. If any oil is spilled, it shall be immediately cleaned up to prevent contact with avian life.

Living Quarters/Crew Facilities

Key supervisory personnel, including the drilling engineer, mud engineer, tool pushers, geologist, and mud logger, must oversee drilling operations on a 24-hour basis once drilling has begun. Five 8 x 32 foot (approx.) trailers will be located at the pad to house these personnel. In addition, a utility-communication/computer trailer will locate adjacent to the drilling engineer's trailer. Water is supplied from a 100 bbl. insulated tank. Bottled water is used for culinary purposes. Sanitation for these trailers is handled per the procedure described in the attached permit request to the Nevada Department of Health. One portable chemical toilet will be located on the drillsite for the use of the drilling crews.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

All trailers and equipment will be removed at the completion of drilling.

Abandonment Program

Eagle Springs Production will obtain approval for its abandonment program prior to plugging the well. Sundry notice of such plan will be submitted to the BLM office within five business days of verbal approval of program. If no logs are run, all open sections of hole will be filled with cement in a manner which precludes interzonal migration of fluids.

Reclamation

1. Topsoil/growth medium will be salvaged and stockpiled from roads and pads, so as to be available for respreading over the reclaimed, disturbed areas.

2. A BLM seed mixture will be applied to all disturbed areas after reshaping of the surface. The seeding will be done in the spring to ensure that the seed is set in contact with the mineral soil.

3. All gravel used to construct the well drilling pad will be pushed into the reserve pit and buried, or covered with top soil, or removed and replaced in the original source area.

4. The reserve pit will, when dry, be reshaped to a natural appearing surface. Stockpiles of topsoil/growth medium will be spread over the reclaimed surface to a minimum depth of nine inches and seeded with the BLM approved seed mix. Seed will be applied with a drill, or other BLM approved method.

5. All reclamation will be completed within one year from the date of proper plugging and abandonment.

6. All roads and drill pads will be ripped to a depth of 12 inches to reduce compaction before reshaping and top soil applications.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

BASIS OF BEARINGS
SOLAR OBSERVATION

CALCULATED CORNER. BASIS. BLM
MANUAL OF INSTRUCTION

FOUND BRASS CAP

27 26 25
34 35 36

N

R. 57 E. M.D.B.& M

FOUND BRASS CAP
SCRIBE HSC 1954

FOUND BRASS CAP
SCRIBE HSC 1954

S 41°59'10" W 3211.22'

GHOST RANCH
FEDERAL No. 58 - 35
Elevation. 4745.53'

NORTH 345.05'

EAST 2100.51'

FOUND BLM BRASS
CAP 1985

T. 9 N. 34 35 35 36
3 2 2 1
T. 8 N.

FOUND BRASS CAP
SCRIBE HSC 1954

FOUND REMAINS HSC BRASS CAP
SET 5/8"X 18" IRON PIN
YELLOW CAP SCRIBE P.L.S. 7998

CERTIFICATION

I. Randal L. Briggs. do hereby certify that this plat is a true and accurate map of a survey made under my supervision and direction on the 2nd day of August. 1996.

PROFESSIONAL LAND SURVEYOR
RANDAL
L.
BRIGGS
8-7-96
No 7998
STATE OF NEVADA

EAGLE SPRINGS PRODUCTION. LTD.

2561 SOUTH. 1560 WEST
SUITE 200
WOODS CROSS. UTAH 84087

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

See 2nd Plat well was moved.

SURVEYED & MAPPED
BY

Briggs & Associates
PROF. LAND SURVEYORS

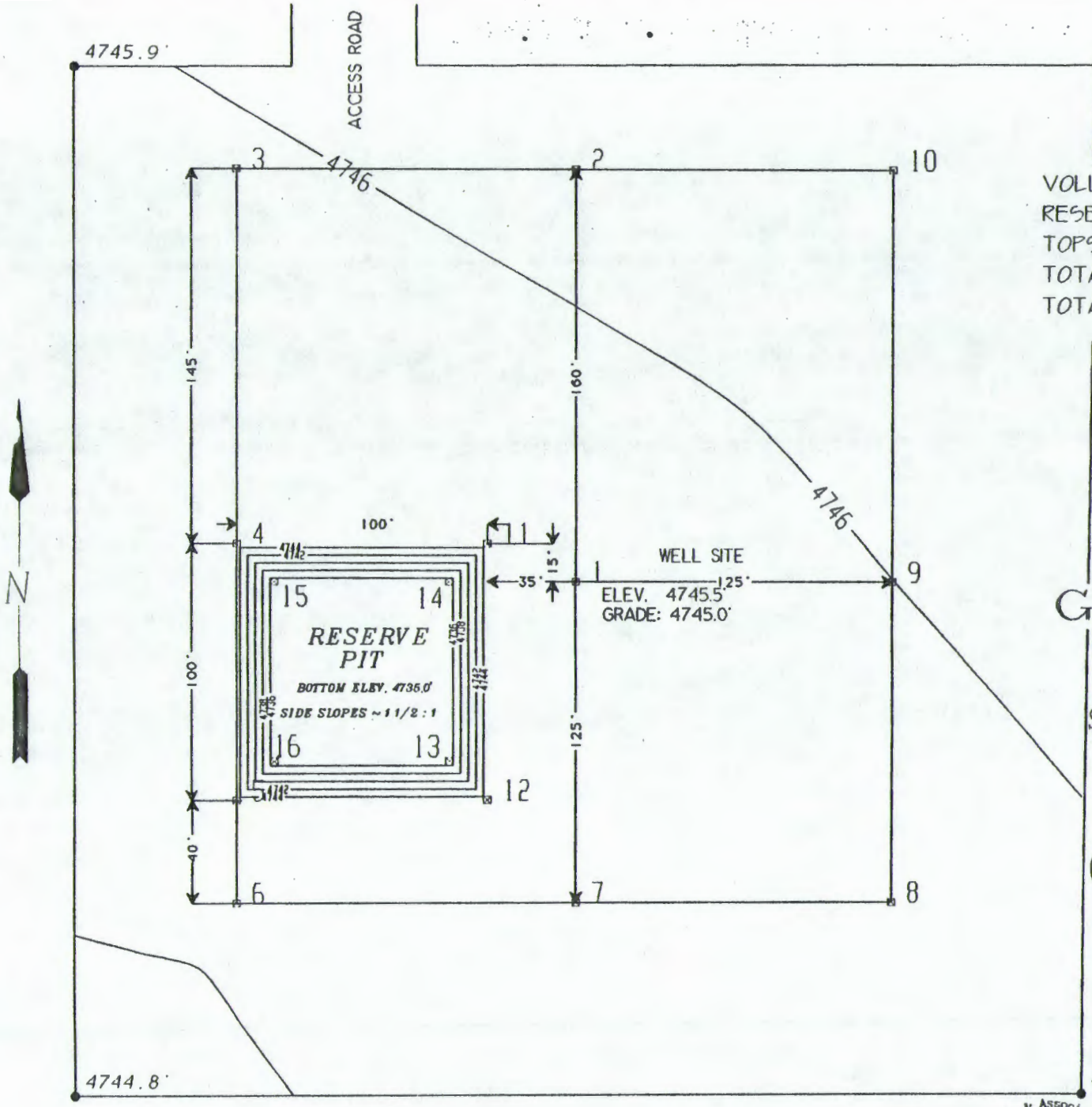
ROBISON PROFESSIONAL COMPLEX
1675 AVE. F. ELY, NEVADA 89301
phone: (702) 289-3394
fax: (702) 289-8961

FILENAME : EAGLS835
AUGUST 1996

MAP SHOWING
EAGLE SPRINGS PRODUCTION LTD.
GHOST RANCH FEDERAL No. 58-35
OIL WELL LOCATION
NYE COUNTY. NEVADA

0 500 1000 2000

SCALE ~ 1" = 1000'



VOLUMES :
RESERVE PIT; CUT & STOCKPILE ; 2489 cu. yrd.
TOPSOIL; CUT & STOCKPILE ; 1372 cu. yrd.
TOTAL CUT AFTER STOCKPILE; 745 cu. yrd.
TOTAL FILL ; 0 cu. yrd.

GHOST RANCH

FEDERAL No 58 - 35
OIL WELL LOCATION
SW 1/4, SE 1/4, SECTION 35
T. 9 N., R 57 E., M.D.B.& M.
NYE COUNTY, NEVADA

(SEE ATTACHED CUT SHEET)

0 30 60 120

SCALE - 1" - 60'
CONTOUR INTERVAL - 1 FOOT

SUBJECT TO THE ATTACHED CONDITIONS OF APPROVAL

SITE LAYOUT

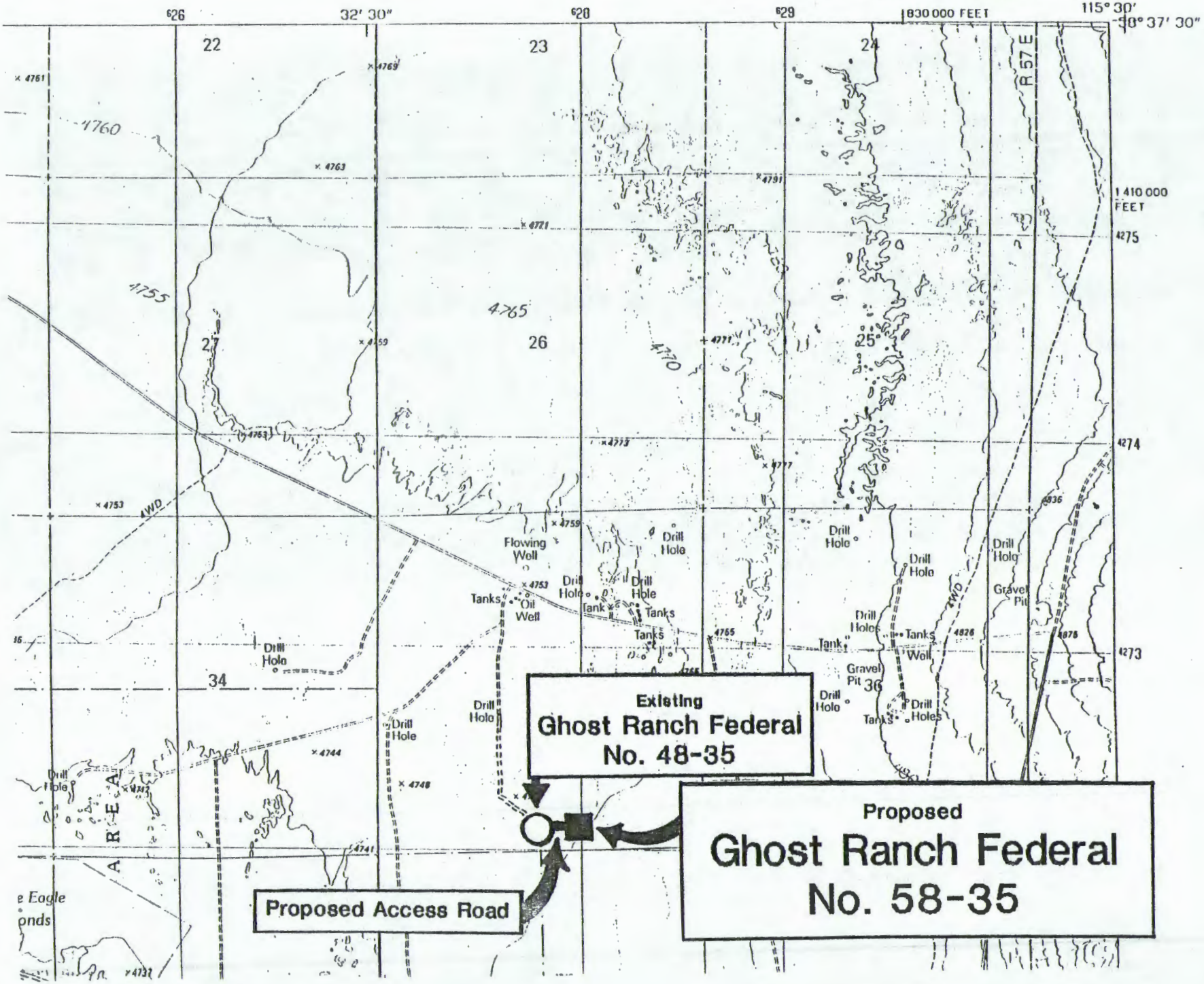
Briggs & Associates
PROF LAND SURVEYORS
ROBISON PROFESSIONAL COMPLEX
1675 AVE. F. ELY, NEVADA 89301
phone: (702) 289-3394
fax: (702) 289-1509

Cut/Fill Data Listing
Proposed Surface
Field ID : 5835PAD.MDL

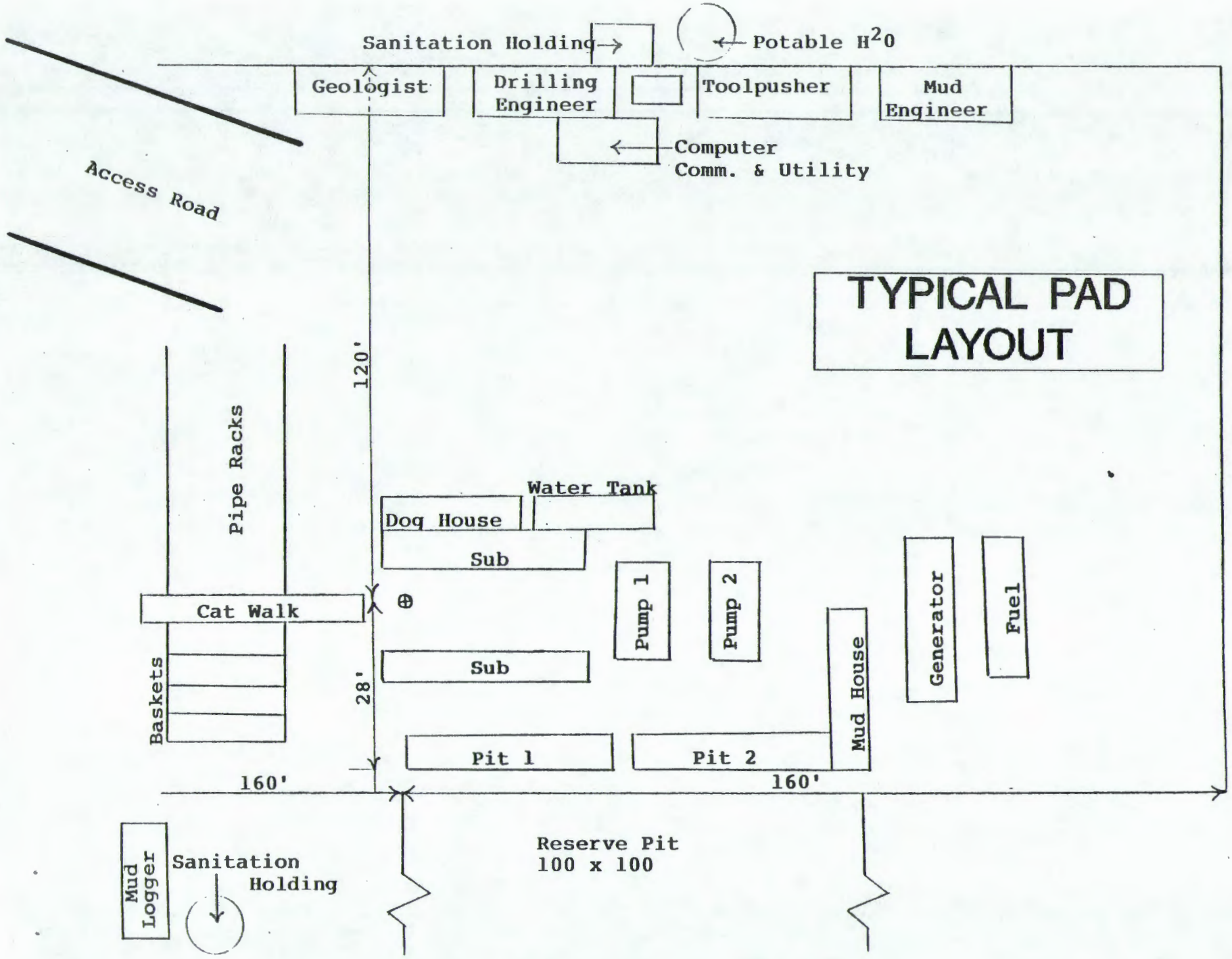
Point	(Y,X) Coordinates		Elevation	Cut/Fill
< 1: 1>	47161.374	47109.907	4745.000	0.500 C
< 2: 2>	47321.374	47109.907	4745.000	1.256 C
< 3: 3>	47321.374	46974.907	4745.000	0.881 C
< 4: 4>	47176.374	46974.907	4745.000	0.447 C
< 5: 5>	47076.374	46974.907	4745.000	0.183 C
< 6: 6>	47036.374	46974.907	4745.000	0.077 C
< 7: 7>	47036.374	47109.907	4745.000	0.320 C
< 8: 8>	47036.374	47234.907	4745.000	0.556 C
< 9: 9>	47161.374	47234.907	4745.000	0.997 C
< 10: 10>	47321.374	47234.907	4745.000	1.602 C
< 11: 11>	47176.374	47074.907	4745.000	0.515 C
< 12: 12>	47076.374	47074.907	4745.000	0.312 C
< 13: 13>	47091.372	47059.909	4735.000	10.305 C
< 14: 14>	47161.376	47059.909	4735.000	10.466 C
< 15: 15>	47161.376	46989.905	4735.000	10.417 C
< 16: 16>	47091.372	46989.905	4735.000	10.233 C

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

BLUE EAGLE SPRINGS QUADRANGLE
NEVADA-NYE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

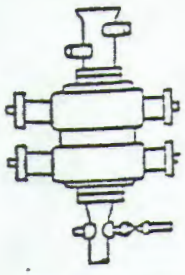


APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

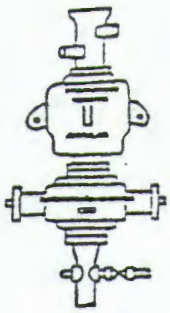
MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
1000' TO 2000'
A.P.I. 2M RR.,RD.,RA or A

The accumulator shall have sufficient capacity to close BOP's and retain 200 psi above precharge. Nitrogen bottles may used as the backup to the required independent power source.

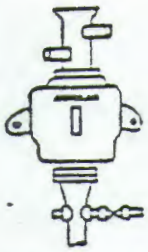
A.* Power for the closing unit pumps shall be available the unit at all times so that the pumps shall automatica start when the closing unit manifold pressure has decrea to a pre-set level.



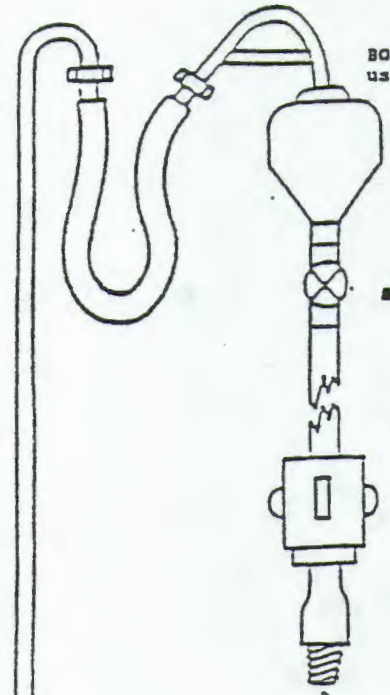
API ARRANGEMENT RR OR RD



API ARRANGEMENT RA

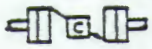


API ARRANGEMENT A



←Upper kelly cock valve with handle available

VALVE LEGEND



CHECK VALVE

All valves (except chokes) in the kill line, choke manifold, and choke line shall be a type that does not restrict the flow (full opening)

—Safety valve and subs to fit all drill strings in use

FROM MUD PUMPS

A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

FLOW LINE

FILL-UP LINE

CHOKE MANIFOLD PRESSURE GAUGE

ADJUSTABLE CHOKE

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

hydraulically-operated double ram

RR OR Rd

with blind and pipe rams

BLEED LINE

2 inch minimum choke line

FROM MUD PUMPS

—Kill line (2 inch minimum)

—1 kill line valve

(2 inch minimum)

1 choke line valve

—All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

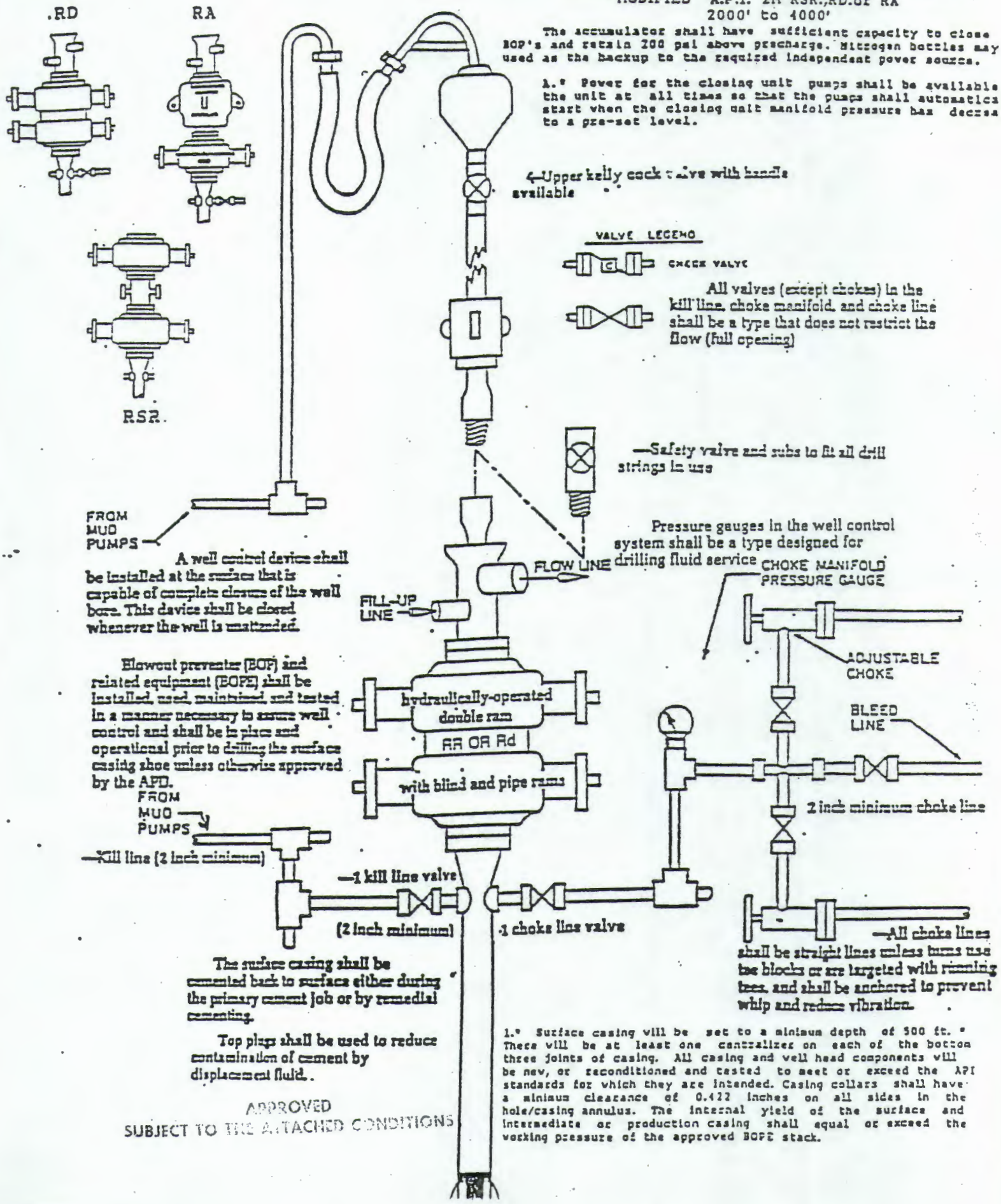
1.* Surface casing will be set to a minimum depth of 500 ft. * There will be at least one centralizer on each of the bottom three joints of casing. All casing and well head components will be new, or reconditioned and tested to meet or exceed the API standards for which they are intended. Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus. The internal yield of the surface and intermediate or production casing shall equal or exceed the working pressure of the approved BOPE stack.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
MODIFIED A.P.I. 2M RSR.,RD.or RA
2000' to 4000'

The accumulator shall have sufficient capacity to close BOP's and retain 200 psi above precharge. Nitrogen bottles may used as the backup to the required independent power source.

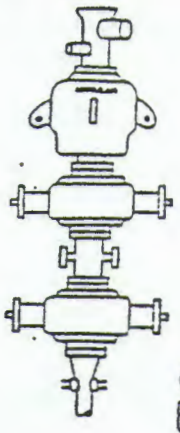
1.* Power for the closing unit pumps shall be available the unit at all times so that the pumps shall automatica start when the closing unit manifold pressure has decrea to a pre-set level.



1.* Surface casing will be set to a minimum depth of 500 ft. * There will be at least one centralizer on each of the bottom three joints of casing. All casing and well head components will be new, or reconditioned and tested to meet or exceed the API standards for which they are intended. Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus. The internal yield of the surface and intermediate or production casing shall equal or exceed the working pressure of the approved BOPE stack.

MINIMUM . .NDARDS FOR WELL CONTROL EQUIPMEN
A.P.I. 3M RRA OR RSRA
4000' TO 10,000'

API ARRANGEMENT
RSRA



STANOPIPE
PRESSURE
GAUGE

FROM
MUD
PUMPS

A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

FROM
MUD
PUMPS

Kill line (2 inch minimum)

—2 kill line valves, one of which shall be a check valve (2 inch minimum) *

C

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

urface casing shall be set to a minimum depth of 500 ft. or of total depth whichever is greater. * In wells where mediate or production casing will be employed the surface g shall be set to 500 ft. or 10% of the next casing string ever is greater. * There will be at least one centralizer ich of the bottom three joints of casing. * All casing and head components will be New, or reconditioned and tested to or exceed the API standards for which they are intended. g collars shall have a minimum clearance of 0.422 inches on ides in the hole/casing annulus. * The internal yield of the

←Upper kelly cock valve with handle available

—Safety valve and subs to fit all drill strings in use

VALVE LEGEND

C CHECK VALVE

All valves (except chokes) in the kill line, choke manifold, and choke line shall be a type that does not restrict the flow (full opening)

All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

FILL-UP LINE

FLOW LINE

ANNULAR

API ARRANGEMENT
SRRA OR RRA

CHOKE MANIFOLD
PRESSURE GAUGE

—2 chokes
(2 inch minimum)*

ADJUSTABLE
CHOKE

—3 inch diameter choke lin

—All BOPE connections subjected well pressure shall be flanged, welde or clamped *

—Drilling spool, or blowout prevent with 2 side outlets (choke side shall be 3-inch minimum diameter, kill side sha be at least 2-inch diameter) *

A minimum of 2 choke line valves (3 inch minimum)*

The accumulator shall have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annual preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps. The 3M system shall have 2 independent power sources to close the preventers. Nitrogen bottles (3 minimum) may be one of the independent power sources.

A.* Power for the closing unit pumps shall be available to the unit at all times so that the pumps shall automatically start when the closing unit manifold pressure has decreased to a pre-set level.

APPROVED SUBJECT TO THE ATTACHED CONDITIONS

B. Each BOPE closing unit shall be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and obtain a minimum of 200 psi above precharge pressure while isolated from the

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CULTURAL RESOURCES INVENTORY NEGATIVE REPORT

BLM Office: Tonopah **BLM Report Number:** BLM 6-1680-1(N)

Organization/Field Crew: R.K. Vierra & Assoc. Inc./ R.K. Vierra, P.I.

Project Name and Description: A Cultural Resource Survey for Foreland's Proposed three Drill Pads: Ghost Ranch Federal No. 58-35, Ghost Ranch Federal No. 38-35, and Ghost Ranch Federal No. 57-35 in Railroad Valley. A class III survey was conducted.

Project Area (acres): Drill Pad: 24.79 acres.
Access Routes: .92 acres

Geographic Unit: Railroad Valley

Legal Description: Ghost Ranch Federal No. 38-35: SW 1/4 SE 1/4 SW 1/4 Section 35, T9N/R57E.

Ghost Ranch Federal No. 57-35: NW 1/4 SW 1/4 SE 1/4 Section 35, T9N/R57E.

Ghost Ranch Federal No. 58-35: SW 1/4 SW 1/4 SE 1/4 Section 35, T9N/R57E.

County: Nye

Map Reference: 1990 7.5' USGS Blue Eagle Springs, NV

UTM Reference: Ghost Ranch Federal No. 38-35: 627560 mE 4272100 mN
Ghost Ranch Federal No. 57-35: 627850 mE 4272300 mN
Ghost Ranch Federal No. 58-35: 627950 mE 4272100 mN

Records Check: BLM Records

Results of Previous Inventories: Previous surveys conducted within a mile of the project area are listed as follows:

1. CRR 6-1626(P), Foreland Drill Pads Survey, R. K. Vierra (8-24-94), three sites were recorded; CrNV-61-7838 (FCR scatter redeposited with one flake), CrNV-61-7839 (small lithic scatter with Elko point), and CrNV-61-7840 (diffuse lithic scatter eroding out of dune), CrNV-61-7839 and 7840 are eligible for the NRHP.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

2. CRR 6-1625(N), Foreland Drill Pads and Access Road Survey, R. K. Vierra (8-24-94), no sites were found for the two drill pads.

3. CRR 6-1680(N), 1995 Foreland's Railroad Valley Drill Pads, R. K. Vierra (10-20-95), no sites were noted in the survey of four drill pads.

4. CRR 6-1656(N), 1995 Foreland Railroad Valley Drill Pads 85-35, 64-35, 55-35, and Access Road Surveys, R. K. Vierra (4-4-95), no sites were found.

5. CRR 6-1631(N), 1994 Foreland Railroad Valley Drill Pad 24-36 and Access, R. K. Vierra (8-25-94), no sites were found.

6. CRR 6-1603(P), A Cultural Resources Survey for the 3-D Foreland Seismic Project in Railroad Valley, Nye County, Nevada, R. K. Vierra (January 1995), six sites were recorded within a mile of the project area: CrNV-61-7483 (small FCR scatter), CrNV-61-5354 (campsite with FCR, Elko point, and pottery), CrNV-61-7804 (lithic scatter with FCR), CrNV-61-5319 (diffuse lithic scatter with an Elko point), CrNV-61-7651 (1880's wood-frame structure with corral and trash scatter), CrNV-61-7850 (prehistoric component consists of a lithic scatter, two bifaces, and four metates; historic component consists of two stone foundations, trash, and a a segment Locus M1 of the Midland Trail previously recorded as CrNV-61-7320), and Locus M2 of the Midland Trail consisting of juniper post. All sites except CrNV-61-5319 were recommended eligible for the NRHP.

Recorded and Unrecorded Sites: There were no recorded cultural resources in the APE nor any unrecorded sites in the project area.

Expectations: No sites were expected to be found since the three drill pads are located in an area previously surveyed by Vierra [CRR 6-1603(P)].

Inventory Date: August 2, 1996

Inventory Type: Class III Reconnaissance

Details: A 600 by 600 foot block was surveyed for each drill pad in 10 meter transect intervals to ensure full coverage. A 200' long access route was surveyed from the south end of an existing gravel road to the northeast corner of drill pad 38-35. Another 200' long access route was surveyed from the south end of an existing gravel road to the southwest corner of drill pad 57-35.

Findings: There were no cultural resources located during this inventory, thus the undertaking will have no effect on prehistoric or historic properties.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

ATTACH CLEAN REPRODUCIBLE 15' OR 7.5' MAP(S) SHOWING AREA OF POTENTIAL EFFECT AND AREA INVENTORIED

Prepared by: Robert K. Vierra **Date:** 8-7-96

Reviewed by:_____ **Date:**_____

Approved by:_____ **Date:**_____

SHPO Review By:_____ **Date:**_____

NV 8100-5 (March 1996)

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

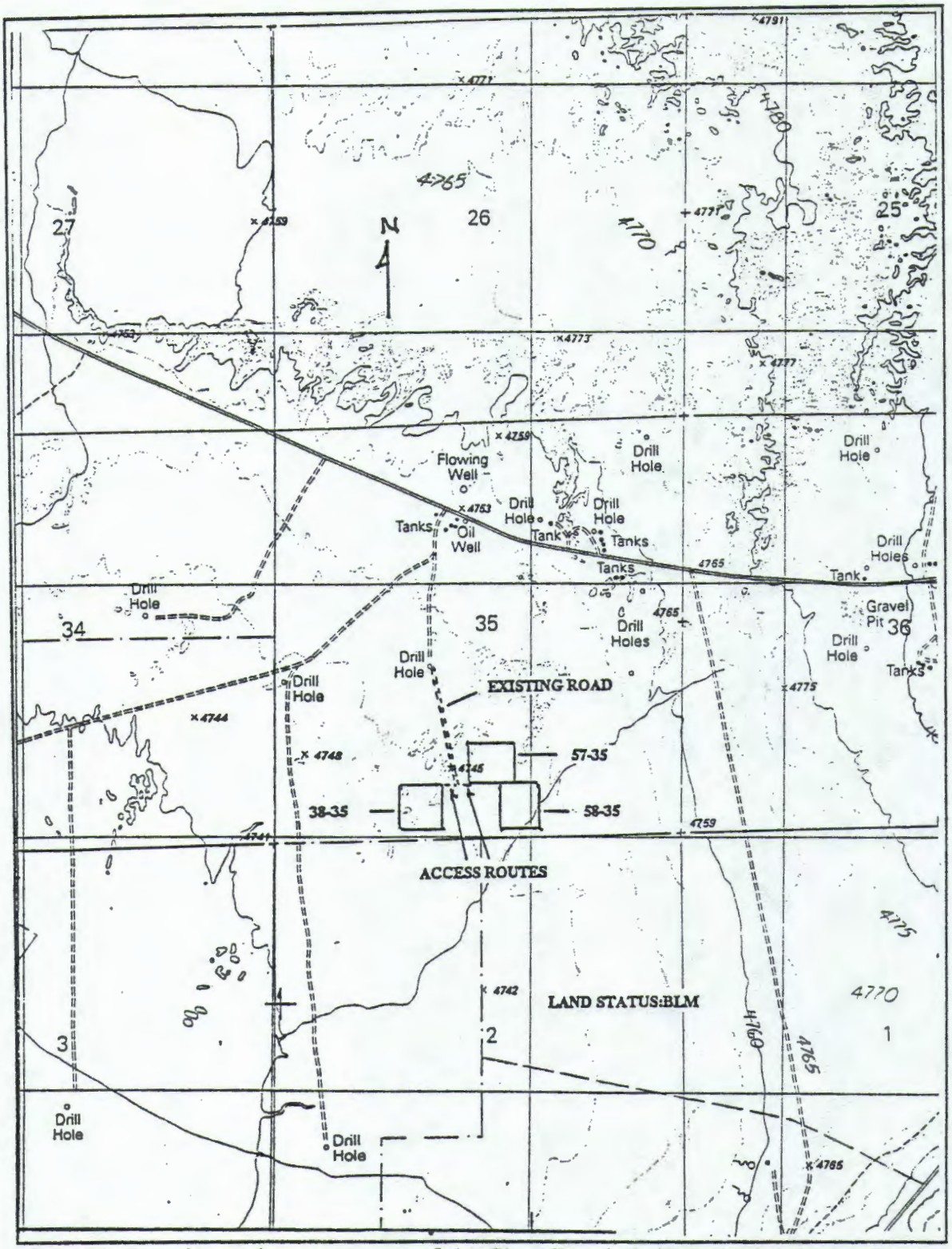


Figure 1 Location and survey areas of the Ghost Ranch Drill Pads and Access Routes for Foreland Corporation. 1996 Foreland's proposed drilling project in Railroad Valley. (1990 7.5 USGS Blue Eagle Springs, NV), Scale 1:24,000.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

PROPOSED

REQUIREMENTS FOR HOLDING TANK SYSTEM
Ghost Ranch Fed. 58-35 Location
In the SW¼ SW¼ SE¼, Section 35, T9N, R57E
Nye County, Nevada
Proposed Permit Period: (Approx. Sept. 15, 1996 - Oct. 12, 1996)

A: PERMITTEE NAME AND ADDRESS:

Eagle Springs Production, LLC
2561 South 1560 West
Suite 200
Woods Cross, UT 84087

B: Eagle Springs Production will install the following holding systems:

1. A 1,250 gallon and a 500 gallon polyvinyl holding tanks, connected in tandem, such that the 500 gallon tank acts as overflow protection for the 1,250 gallon tank. Sewage from 4 single occupancy trailers and 1 laundry trailer will be plumbed to this system.

2. A 500 gallon polyvinyl holding tank will be used for the gray water from the mud logger trailer.

3. Plumb sealed 4" ABS discharge lines at 2% grade (¼" per 12") to tanks by standard plumbing techniques.

4. Drilling Engineer will inspect holding tanks daily so as to insure tanks are pumped on or before they are 3/4 full.

5. Records and receipts of disposal shall be kept by Denny Manzonie, Permit No. NY-17-04477. The waste will be disposed at the Ely City Treatment Plant.

6. Inspection of the system before and after use shall be conducted by a licensed civil engineer.

7. Should sub 0 degree weather occur, the tanks may require heaters. Suitable submersible heaters shall be on site and available.

C: Shift Crews will use portable toilets.

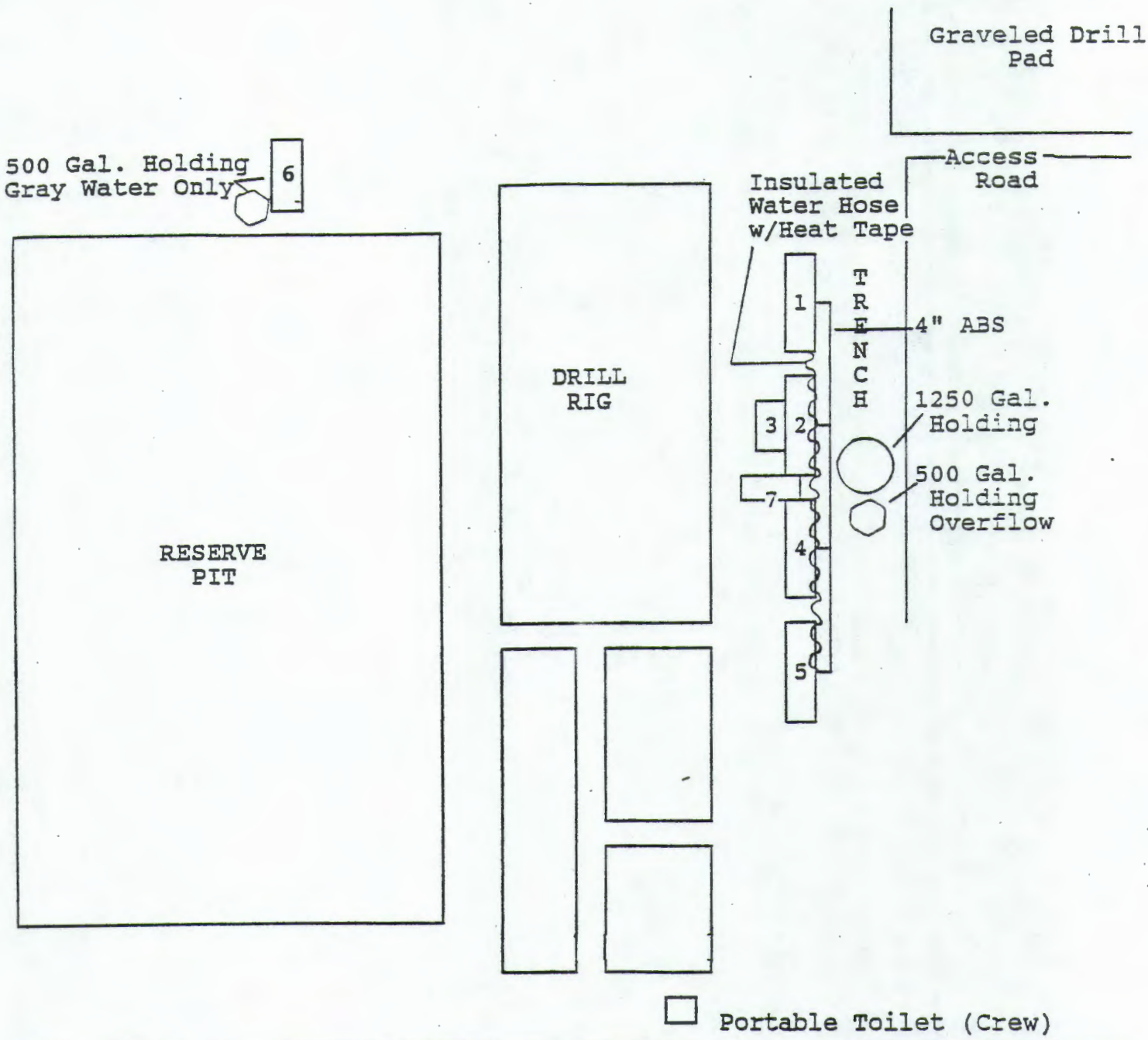
D: A 4,000 gallon insulated potable water tank will supply the 4 single occupancy trailers and the laundry trailer. Potable water will be hauled from Currant, Nevada.

The sample trailer (mud logger trailer) will use potable water from rig tank.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

E: The Civil Engineer and/or the Nevada Bureau of Health Protection Services shall be notified immediately in the event of any sewage spills.

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS



1.	Geologist Trailer	Toilet, Sink, Lav., Shower
2.	Engineer Trailer	Toilet, Sink, Lav., Shower
3.	Utility Trailer	Washer, Sample Sink
4.	Toolpusher	Toilet, Sink, Lav., Shower
5.	Mud Engineer	Toilet, Sink, Lav., Shower
6.	Mud Logger	Sink, Lav., Shower Only
7.	4000 Gal. Water	

Single Occupancy Trailers Only

APPROVED
SUBJECT TO THE ATTACHED CONDITIONS

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

RECEIVED
SEP 2 0 1996
Div. of Minerals

OIL AND GAS SUNDRY NOTICE AND REPORT ON WELLS

- ☒ Notice of Intention to Change Plans
- ☐ Notice of Intention to Test Water Shut-off
- ☐ Notice of Intention to Reopen or Repair Well
- ☐ Notice of Intention to Shoot or Acidize Well
- ☐ Notice of Intention to Pull or Alter Casing
- ☐ Notice of Intention to Abandon Well
- ☐ Other (state)_____

- ☐ Subsequent Report of Water Shut-Off
- ☐ Subsequent Report of Reopening or Repair
- ☐ Subsequent Report of Shooting or Acidizing
- ☐ Subsequent Report of Altering Casing
- ☐ Supplementary Well History
- ☐ Notice of Intention to Fracture Treat Formation(s)
- ☐ Other (state)_____

(Indicate above by check mark, nature of report, notice or other data.)

Permit No. 789 Date September 17, 1996

Company Name Eagle Springs Production, LLC Farm or Lease NVN-42341 Well No. 58-35

Field or Area Ghost Ranch County Nye

DETAILS OF WORK

(State names of and expected depths to objective formations; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and ALL other pertinent data.)

As a result of downhole log evaluation of the Ghost Ranch Federal #48-35, Eagle Springs Production, LLC proposes to amend its Ghost Ranch Federal #58-35 location to the following:

395.05 FSL, 2090.51 FEL, Section 35, Township 9 North, Range 57 East.

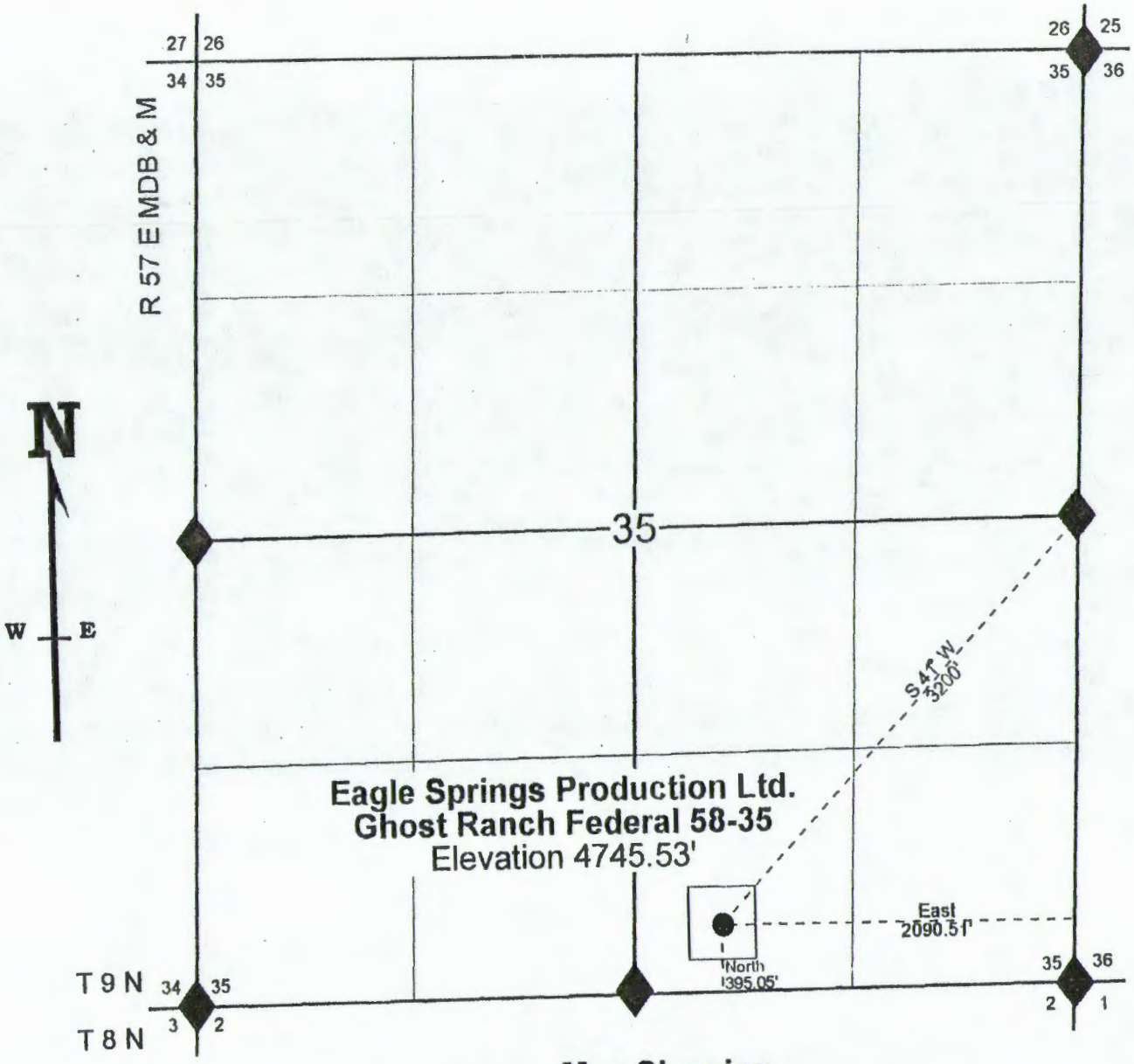
I understand that this plan of work must receive approval in writing of the Division of Minerals before operations may be commenced.

Company Eagle Springs Production, LLC
Address 2561 So. 1560 West, Ste. 200
Woods Cross, UT 84087
By Bruce C. Decker
Position Bruce C. Decker, Manager

DO NOT WRITE IN THE SPACE BELOW
APPROVED (Sgd) John H. Snow
POSITION Oil/Gas/Geo Programs Mgr.
DATE September 20, 1996

REMARKS:

FORM 4



Eagle Springs Production, LLC.
2561 South, 1560 West
Suite 200
Woods Cross, Utah 84087

0' 500' 1000' 2000'

Map Showing
Eagle Springs Production Ltd.
Ghost Ranch Federal 58-35
New Oil Well Location
Nye County, Nevada
August 1996

EAGLE SPRINGS
PRODUCTION LTD.

2561 South 1560 West, Suite 200
Woods Cross, Utah 84087
(801) 298-9866
Fax: (801) 298-9889

Linda, Please return the amended Application to Bruce Decker. He will send a New Sundry Notice for moving the well. Once we approve the Sundry Notice we should send out a New Notice with the New location.

September 11, 1996

Mr. John Snow
Nevada Department of Minerals
400 West King Street, Suite 106
Carson City, NV 89710

RECEIVED
SEP 16 1996
Div. of Minerals

Re: Ghost Ranch Federal #58-35
Permit No. 789
API No. 27-023-05544

Dear John:

As a result of downhole log evaluation of the Ghost Ranch Federal #48-35, Eagle Springs Production proposes to amend its Ghost Ranch Federal #58-35 location. Enclosed please find three original Amended Applications for Permit on the above-referenced well along with a new map showing the amended location. Please use the balance of the attachments to our original application as attachments to the enclosed amended application. If you need any additional information, please so advise. Thank you.

Sincerely,

Bruce C. Decker
Manager

Enclosures

RECEIVED
JUN 23 1997
NBMG Information Office

EAGLE SPRINGS PRODUCTION, LLC

DRILLING PROGNOSIS
Ghost Ranch Fed. #58-35
SW¼ SW¼ SE¼ Section 35, T9N, R57E
Proposed Total Depth: 5000'

Location:

Located approximately 15 miles south of Currant, Nevada.

Estimated Formation Tops

Formation	Depth
Valley Fill	Surface
Unconformity "A" Paleozoics	4300'

Anticipated Oil Bearing Zones

Formation	Depth
Unconformity "A" Paleozoics	4300'

Anticipated Pressures and Hole Problems

All available pressure data from Railroad Valley indicate a pressure gradient just slightly higher than hydrostatic in all zones and formations tested. No abnormal pressures are expected.

In the shallow valley fill, some problems with hole stability may be encountered. Also, rapid rates of penetration may cause build-up of cuttings in annulus. Clays within the volcanic sequence can rapidly build up mud weight which must be controlled. In Railroad Valley, only minor to moderate loss of circulation has been noted. Loss of circulation problems typically have been successfully treated with LCM. Nevada's asphaltic crude is susceptible to emulsion blocks and oil wetting of the reservoir, especially in clastic sequences. Water loss and mud weight must be controlled to prevent damage. Proper implementation of the mud program, including tight control of the hydraulics and mud properties, and a properly functioning mud cleaning system is critical to success of the drilling program.

Steeper dips which may be encountered in the Paleozoic section may create deviation problems. Sufficient deviation surveys and use of various bottom hole assemblies are required to prevent excessive deviation.

Mud Program

Depth	Weight	Visc.	F.L.
0' - 500'	8.7-9.0	40-55	15

Surface interval to be drilled with mud properties and hydraulics sufficient to clean hole. Viscosity will be adjusted to provide good carrying capacity. Section may be drilled with controlled rate of penetration to prevent build up of cuttings in annulus.

Depth	Weight	Visc.	F.L.
500' - 5000'	8.8-9	35-40	4-10

Drill below surface casing with low solids non-dispersed polymer mud. Primary concern when drilling is retaining low mud weight by utilizing centrifuge for solids control. Based on other wells in this area, minimal loss of circulation is expected. Loss of circulation to be treated with cottonseed hulls, cedar fiber, mica, etc.

A properly functioning shale shaker with ~80 mesh screens, a desander, and a desilter (preferably 10 or 12 cone) capable of processing 600-800 GPM will be used for solids control. A 200 GPM centrifuge will be used for solids control.

Logging Program

Sample Collection: Samples will be caught every 30' to 500' and every 10' from 500' to T.D., dried, and bagged.

Mud Logging: FID and gas chromatograph from surface casing to total depth.

Open Hole Logs:

1. Dll-Gr-Sp-Cal from base of surface casing to TD.

2. GR-Sonic from base of surface casing to TD.

3. FDC-CNL-Cal-GR and Dipmeter as directed by on-site geologist.

No coring is anticipated during drilling.

DST's and sidewall cores may be taken at the direction of the on-site geologist.

Casing Program

Conductor: ~60' of 20" conductor to be set in 24" hole and cemented by rat hole driller prior to move in of drilling rig.

Surface Casing: 500' of 9 5/8" OD, 36#, J-55. Cement around shoe with 100% excess. Top job with macaroni tubing if cement falls.

Production Casing: Drill out with an 8 3/4" bit to T.D. or intermediate setting a 7" casing.

The following are minimum values for new casing:

9 5/8" 36#/ft.	J-55	ST&C	Set at 500'	with 9# Mud
Collapse	2,020	psi	Safety factor used	1.125
Yield	3,520	psi	Safety factor used	1.000
Jt. Strength	394,000	lbs	Safety factor used	1.800

7" 23#/ft.	J-55	ST&C	Set 0-5000'	with 9# Mud
Collapse	3,270	psi	Safety factor used	1.125
Yield	4,360	psi	Safety factor used	1.000
Jt. Strength	284,000	lbs	Safety factor used	1.800

These values will exceed any anticipated design for setting depth of 5000' or less.

Cementing Program

Surface Casing: 12 1/4" hole with 500' of 9 5/8" casing.

Lead: 300' to surface w/100% excess, 80 sacks of "Light" cement w/2% CaCl and .25 lb/sack Flocele or equivalent, weight = 12.7 lb/sack, yield = 1.84 cu. ft/sack, water = 8.8 gal/sack.

Tail: 300'-400' w/100% excess, 60 sacks of standard cement w/2% CaCl and .25 lb/sack Flocele or equivalent, weight = 12.7 lb/sack, yield = 1.84 cu. ft/sack, water = 9.9 gal/sack.

If cement column falls, a top job will be performed.

Production Casing: 8 3/4" hole with 6000' of 7" casing, actual fill-up to be determined based on reservoir depth and thickness. Location and thickness of potential reservoirs and use of packer-cementer will modify final cement design program.

Lead: ~1000', 2/15% excess, 50 sacks of "Light" x/0.6% Halad, weight = 12.7 lb/gal, yield = 1.84 cu. ft/sack, water = 8.8 gal/sack, actual volume based on caliper log.

Tail: ~500' above top zone to be tested w/15% excess, estimated w/1500': 150 sacks of premium cement w/.5% CFR-3, .30% SSA-1 and .25% HR-12, .3% Halad, weight = 15.6 lb/sack, yield = 1.50 cu. ft/sack, water = 6.4 gal/sack.

Final programs may vary as to volumes and actual well bore conditions.

Drilling Procedure

1. Build road and location to specs required for rig.

2. Set conductor, drill rathole, mousehole, and sanitation holes.

3. Notify appropriate governmental authority (State of Nevada or BLM) of pending spud date.

4. Mi and RU rig.

5. Spud 12 1/4" surface hole and drill to ~500' using recommended mud program. Catch 30' samples from surface to SD. Monitor deviation with teledrift tool. Control drill rate if necessary to avoid solids build up.

6. Run and cement 9 5/8" 36#, J-55. Cement around shoe with 100% excess. Top job with macaroni tubing if cement falls.

7. Notify appropriate governmental authority of time for BOP test. Nipple up BOPE. Test BOP and choke manifold to 1800 psi or as directed. Minimum BOPE will be used as described in the attached BOP information sheets.

8. Mud logger to be rigged up and operative at 500'.

9. RIH with 8 3/4" bit, drill out float collar, cement, and shoe plus 100' of formation. Dump contaminated mud to reserve pit, switch to LSND polymer based mud system.

10. Trip to pick up stiff assembly made up with a near bit IBS, short drill collar, string IBS, 6" drill collar, string IBS and 437 type bit.

11. Drill 8 3/4" hole to T.D., following recommended bit and mud programs. Keep solids as low as possible to provide minimum mud weight. Monitor deviation with teledrift, drop instrument on trips to confirm. Use BHA as determined by well site personnel.

12. At 5000', condition mud and hole. Run open hole logging program and evaluate for completion or P&A.

13. If well is to be completed, run and cement 7" casing following casing and cementing programs.

14. If well is dry, notify all concerned parties and appropriate government personnel. P&A according to government requirements.

Water Sources and Impacts

Eagle Springs Production anticipates following the procedure below to obtain temporary water for purposes of well drilling and culinary use.

1. Ascertain if agricultural or mining water wells or springs are available and within economic hauling distance, and if current users are amenable, file for a temporary use of up to 150,000 gallons during a 20-day period with the Nevada Division of Water Resources. Upon obtaining written approval from the Department of Conservation and Natural Resources, haul water in 90 bbl. steel tank trucks to drilling location over location access roads.

2. If No. 1 above not available, apply for a water well waiver for drilling and temporary use of water for drilling of the oil well from Nevada Division of Water Resources. Contract with Nevada licensed water well driller to drill up to 500 ft. to obtain minimum 70 gpm.

3. If No. 2 above does not produce adequate water, expand hauling distance for No. 1 to next available source.

4. After a water source is secured, water is tested for culinary use and chemical compatibility with drilling muds. If suitable, the water is used to fill portable potable tanks for use of crews at the location and to fill the rig water tanks.

5. If a water well is drilled to supply any oil well location and it is determined that water from such well can be delivered to one or more oil well locations, Eagle Springs Production will apply to the Division of Water Resources for a waiver for such use, and request BLM approval concerning the route of a temporary surface water supply line running from the initial location to subsequent locations. This procedure has been used successfully at the North Willow Creek field where the NWC #1-27 well subsequently supplied the #2-27 and #5-27 wells.

Due to the relatively small amount of water used for oil well drilling (.47 ac.ft.) compared to agricultural use, and the review of the Nevada Division of Water Resources prior to issuance of a waiver, no impact to ground or surface water supplies is anticipated.

Period of Operation

Eagle Springs Production anticipates that drilling will begin approximately September 15, 1996. The well will take between fifteen and twenty days to complete barring unforseen problems. Wells are drilled 24 hours per day, seven days per week with two

crews rotating 12-hour shifts. Due to the remoteness of the locations and sparse population, no impacts due to traffic, noise or other activities at the site are anticipated.

Cultural Resources

No cultural resources were located during archaeological inventory of the proposed access road and wellsite and therefore, Eagle Springs Production's location for the Ghost Ranch Fed. #58-35 will have no effect on historic properties. (A copy of R. K. Vierra & Associates' negative report is attached hereto.)

Right-of-Way

The drilling rig is transported in approximately 25 trips by semi-tractor trailers. The route will utilize Highway 6 south 10 miles to Currant to a gravel county road, then 5 miles east to a single track lease road which extends south approximately 1000' to the drillsite.

All roads are public right-of-way or existing lease roads.

Operations During Drilling

Production testing will be to test tanks only. No oil will be permitted into the reserve pit except in emergency situations.

Wire trash baskets will be placed at the pad and hauled to the nearest municipal disposal facility (Currant/Ely). No trash will be left on or adjacent to the sites. No trash will be buried on the project area.

The reserve pit will be fenced on three sides. Upon removal of the drill rig, the fourth side of the pit shall be fenced. The pit shall remain fenced until reclaimed. If any oil is spilled, it shall be immediately cleaned up to prevent contact with avian life.

Living Quarters/Crew Facilities

Key supervisory personnel, including the drilling engineer, mud engineer, tool pushers, geologist, and mud logger, must oversee drilling operations on a 24-hour basis once drilling has begun. Five 8 x 32 foot (approx.) trailers will be located at the pad to house these personnel. In addition, a utility-communication/computer trailer will locate adjacent to the drilling engineer's trailer. Water is supplied from a 100 bbl. insulated tank. Bottled water is used for culinary purposes. Sanitation for these trailers is handled per the procedure described in the attached permit request to the Nevada Department of Health. One portable chemical toilet will be located on the drillsite for the use of the drilling crews.

All trailers and equipment will be removed at the completion of drilling.

Abandonment Program

Eagle Springs Production will obtain approval for its abandonment program prior to plugging the well. Sundry notice of such plan will be submitted to the BLM office within five business days of verbal approval of program. If no logs are run, all open sections of hole will be filled with cement in a manner which precludes interzonal migration of fluids.

Reclamation

1. Topsoil/growth medium will be salvaged and stockpiled from roads and pads, so as to be available for respreading over the reclaimed, disturbed areas.

2. A BLM seed mixture will be applied to all disturbed areas after reshaping of the surface. The seeding will be done in the spring to ensure that the seed is set in contact with the mineral soil.

3. All gravel used to construct the well drilling pad will be pushed into the reserve pit and buried, or covered with top soil, or removed and replaced in the original source area.

4. The reserve pit will, when dry, be reshaped to a natural appearing surface. Stockpiles of topsoil/growth medium will be spread over the reclaimed surface to a minimum depth of nine inches and seeded with the BLM approved seed mix. Seed will be applied with a drill, or other BLM approved method.

5. All reclamation will be completed within one year from the date of proper plugging and abandonment.

6. All roads and drill pads will be ripped to a depth of 12 inches to reduce compaction before reshaping and top soil applications.

BASIS OF BEARINGS
SOLAR OBSERVATION

CALCULATED CORNER. BASIS: BLM MANUAL OF INSTRUCTION

FOUND BRASS CAP

27 26 34 35 26 25 35 36

N

R. 57 E. M.D.B.& M.

FOUND BRASS CAP SCRIBE HSC 1954

FOUND BRASS CAP SCRIBE HSC 1954

S 41°59'10" W 3211.22'

GHOST RANCH
FEDERAL No. 58 - 35
Elevation. 4745.53'

NORTH 345.05'

EAST 2100.51'

FOUND BLM BRASS CAP 1985

35 36 2 1

T. 9 N. 34 35 3 2

T. 8 N.

FOUND BRASS CAP SCRIBE HSC 1954

FOUND REMAINS HSC BRASS CAP
SET 5/8" X 18" IRON PIN
YELLOW CAP SCRIBE P.L.S. 7998

CERTIFICATION

I. Randal L. Briggs. do hereby certify that this plat is a true and accurate map of a survey made under my supervision and direction on the 2nd day of August. 1996.

PROFESSIONAL LAND SURVEYOR
RANDAL L. BRIGGS
8-7-96
No 7998
STATE OF NEVADA

EAGLE SPRINGS PRODUCTION. LTD.

2561 SOUTH. 1560 WEST
SUITE 200
WOODS CROSS. UTAH 84087

Briggs & Associates
PROF. LAND SURVEYORS

SURVEYED & MAPPED BY

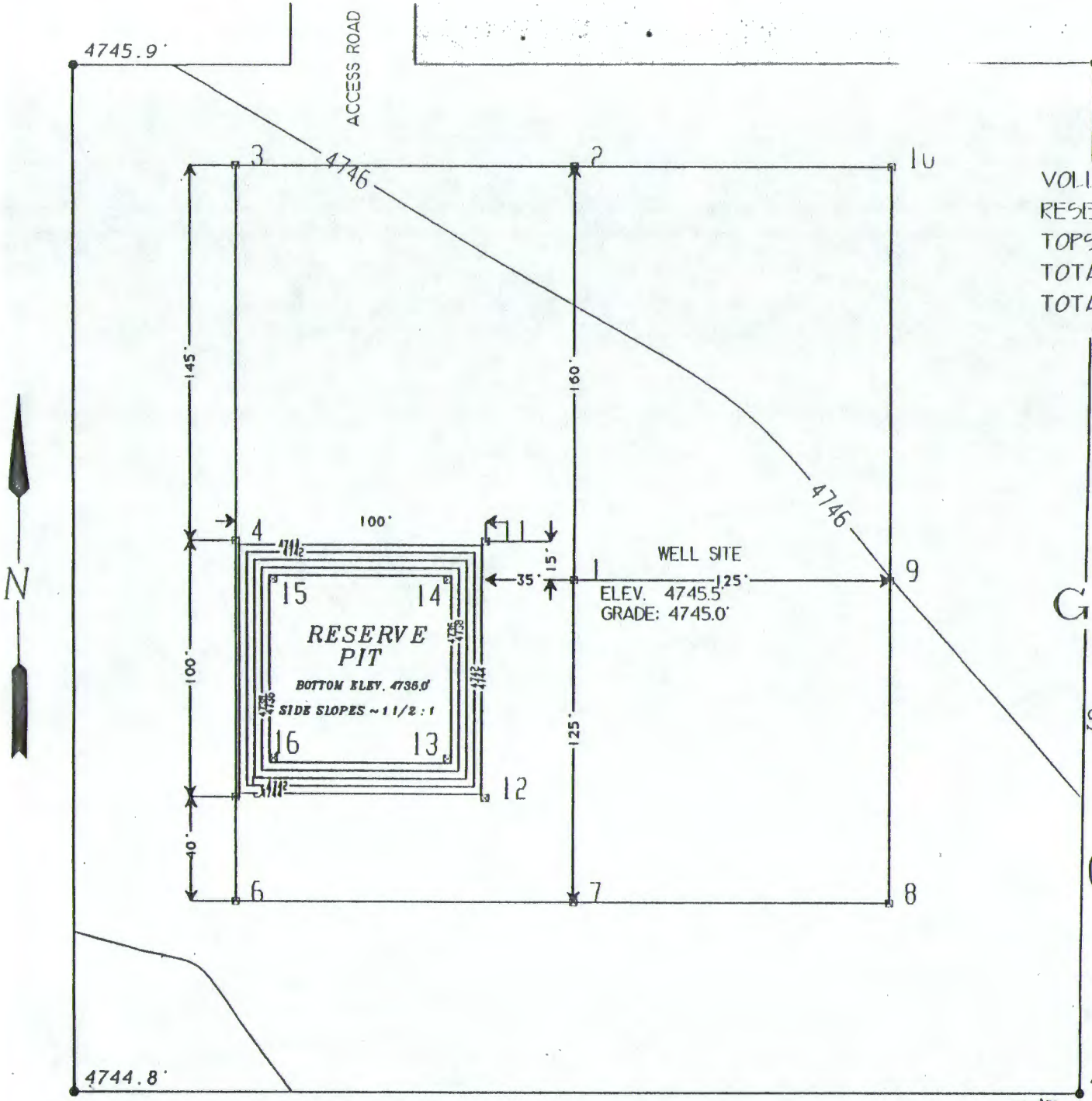
ROBISON PROFESSIONAL COMPLEX
1675 AVE. F. ELY, NEVADA 89301
phone: (702) 289-3394
fax: (702) 289-8961

FILENAME : EAGL5835
AUGUST 1996

0 500 1000 2000

SCALE ~ 1" = 1000'

MAP SHOWING
EAGLE SPRINGS PRODUCTION LTD.
GHOST RANCH FEDERAL No. 58-35
OIL WELL LOCATION
NYE COUNTY. NEVADA



VOLUMES :
RESERVE PIT; CUT & STOCKPILE ; 2489 cu. yrd.
TOPSOIL; CUT & STOCKPILE ; 1372 cu. yrd.
TOTAL CUT AFTER STOCKPILE; 745 cu. yrd.
TOTAL FILL ; 0 cu. yrd.

GHOST RANCH

FEDERAL No 58 - 35
OIL WELL LOCATION
SW 1/4, SE 1/4, SECTION 35
T. 9 N., R 57 E., M.D.B.& M.
NYE COUNTY, NEVADA

(SEE ATTACHED CUT SHEET)

0 30 60 120

SCALE - 1" - 60'
CONTOUR INTERVAL - 1 FOOT

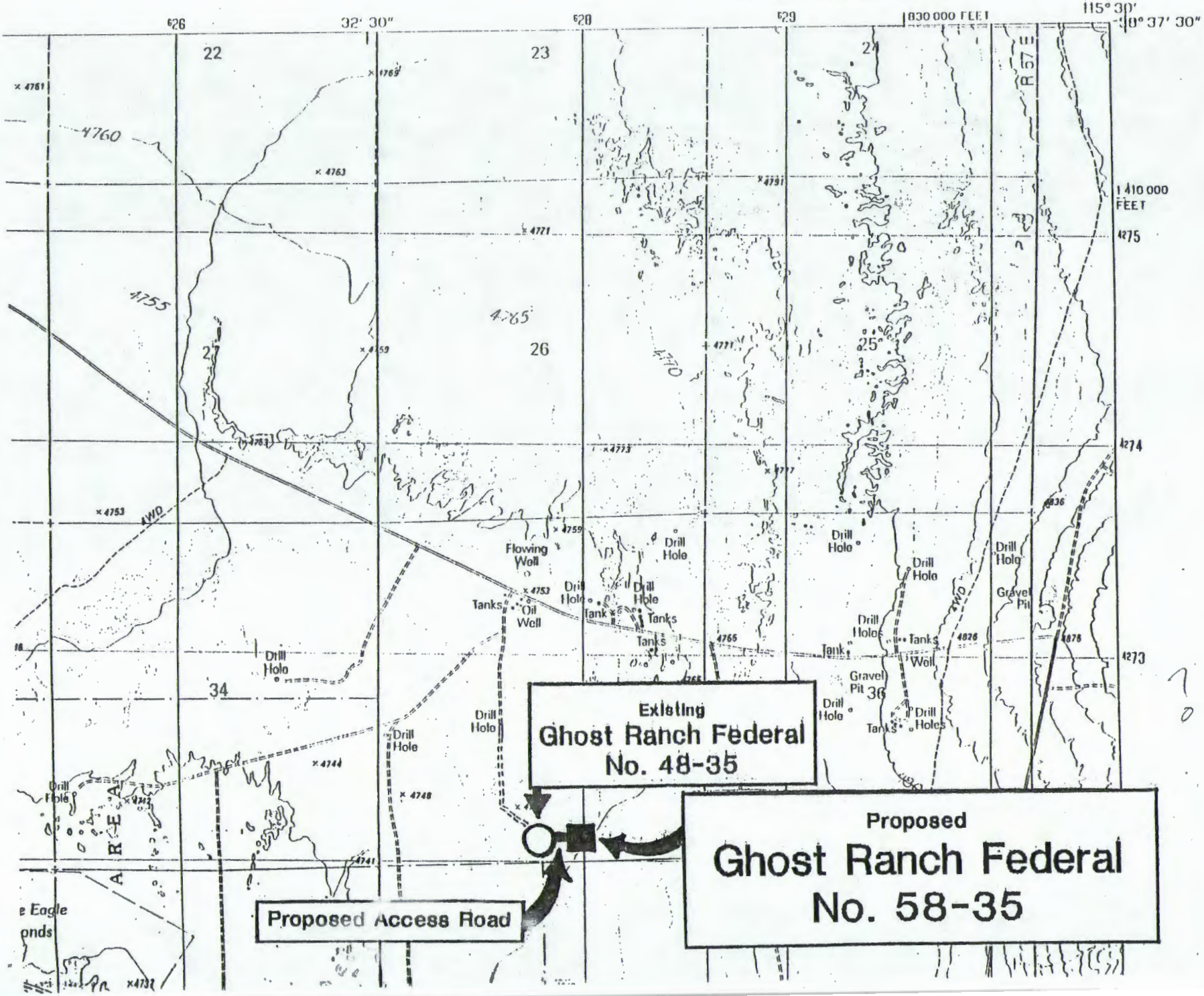
SITE LAYOUT

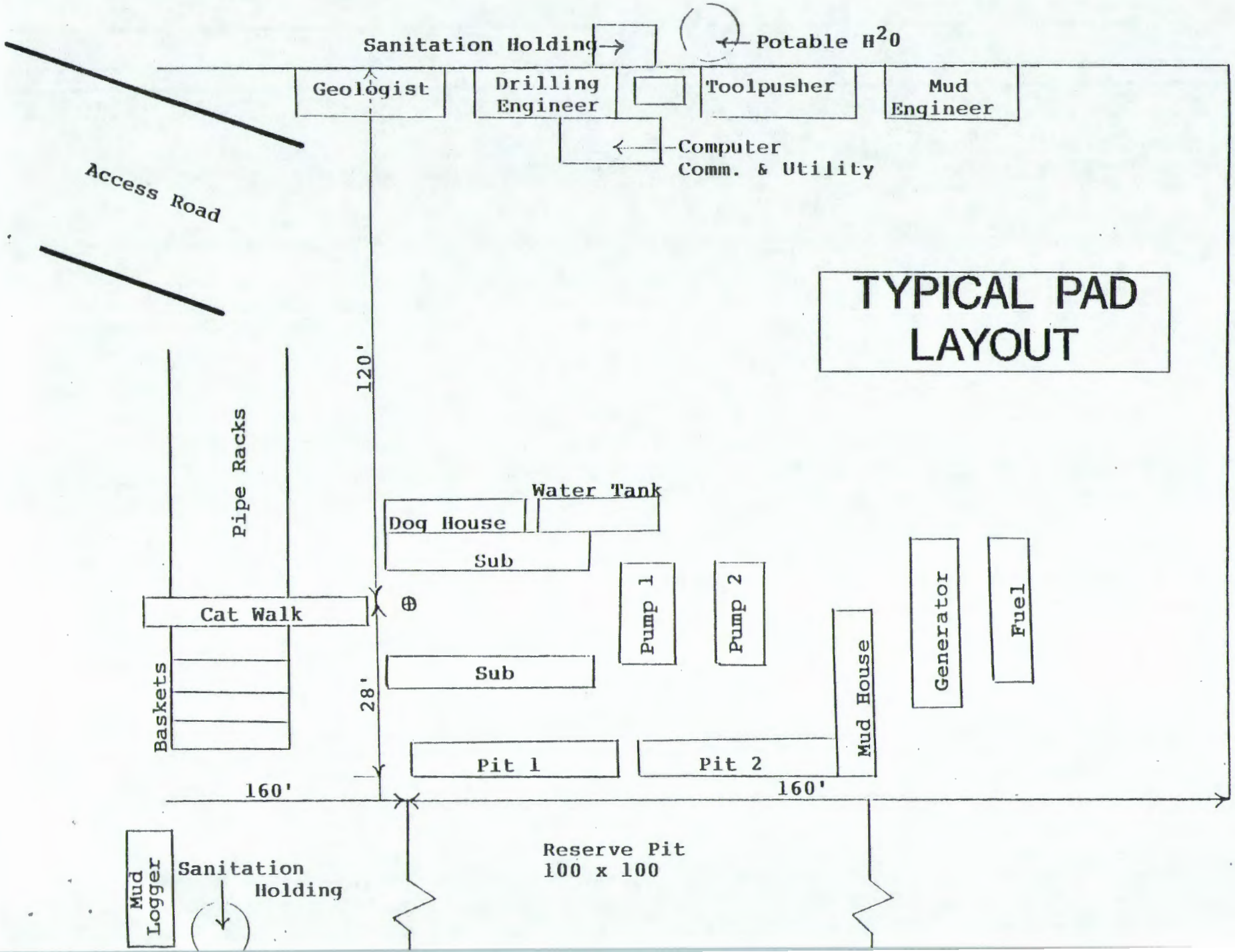
Briggs & Associates
PROF. LAND SURVEYORS
ROBISON PROFESSIONAL COMPLEX
1675 AVE. F. ELY, NEVADA 89301
phone: (702) 289-3394
fax: (702) 289-1509

Cut/Fill Data Listing
Proposed Surface
Field ID : 5835PAD.MDL

Point	(Y,X) Coordinates		Elevation	Cut/Fill
< 1: 1>	47161.374	47109.907	4745.000	0.500 C
< 2: 2>	47321.374	47109.907	4745.000	1.256 C
< 3: 3>	47321.374	46974.907	4745.000	0.881 C
< 4: 4>	47176.374	46974.907	4745.000	0.447 C
< 5: 5>	47076.374	46974.907	4745.000	0.183 C
< 6: 6>	47036.374	46974.907	4745.000	0.077 C
< 7: 7>	47036.374	47109.907	4745.000	0.320 C
< 8: 8>	47036.374	47234.907	4745.000	0.556 C
< 9: 9>	47161.374	47234.907	4745.000	0.997 C
< 10: 10>	47321.374	47234.907	4745.000	1.602 C
< 11: 11>	47176.374	47074.907	4745.000	0.515 C
< 12: 12>	47076.374	47074.907	4745.000	0.312 C
< 13: 13>	47091.372	47059.909	4735.000	10.305 C
< 14: 14>	47161.376	47059.909	4735.000	10.466 C
< 15: 15>	47161.376	46989.905	4735.000	10.417 C
< 16: 16>	47091.372	46989.905	4735.000	10.233 C

BLUE EAGLE SPRINGS QUADRANGLE
NEVADA-NYE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

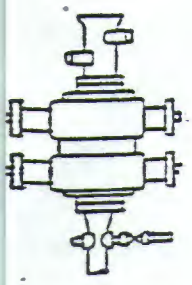



TYPICAL PAD LAYOUT
Sanitation Holding
Potable H^2O
Geologist
Drilling Engineer
Toolpusher
Mud Engineer
Computer
Comm. & Utility
Access Road
120'
Pipe Racks
Water Tank
Dog House
Sub
Cat Walk
Pump 1
Pump 2
Generator
Fuel
Baskets
Sub
28'
Mud House
Pit 1
Pit 2
160'
160'
Reserve Pit
100 x 100
Mud Logger
Sanitation Holding

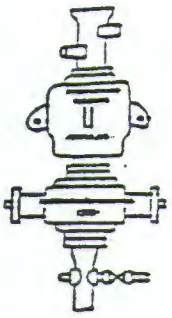
MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
1000' TO 2000'
A.P.I. 2M RR.,RD.,RA or A

The accumulator shall have sufficient capacity to close BOP's and retain 200 psi above precharge. Nitrogen bottles may used as the backup to the required independent power source.

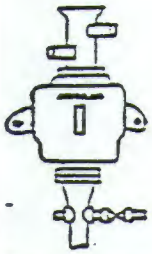
A.* Power for the closing unit pumps shall be available the unit at all times so that the pumps shall automatic start when the closing unit manifold pressure has decrea to a pre-set level.



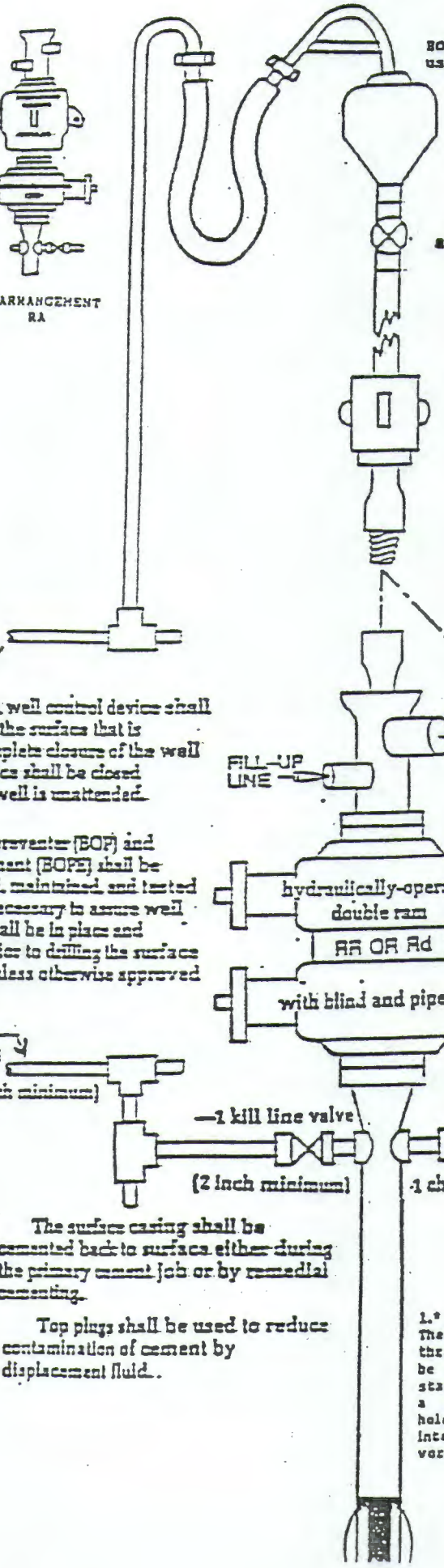
API ARRANGEMENT RR OR RD



API ARRANGEMENT RA



API ARRANGEMENT A



A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

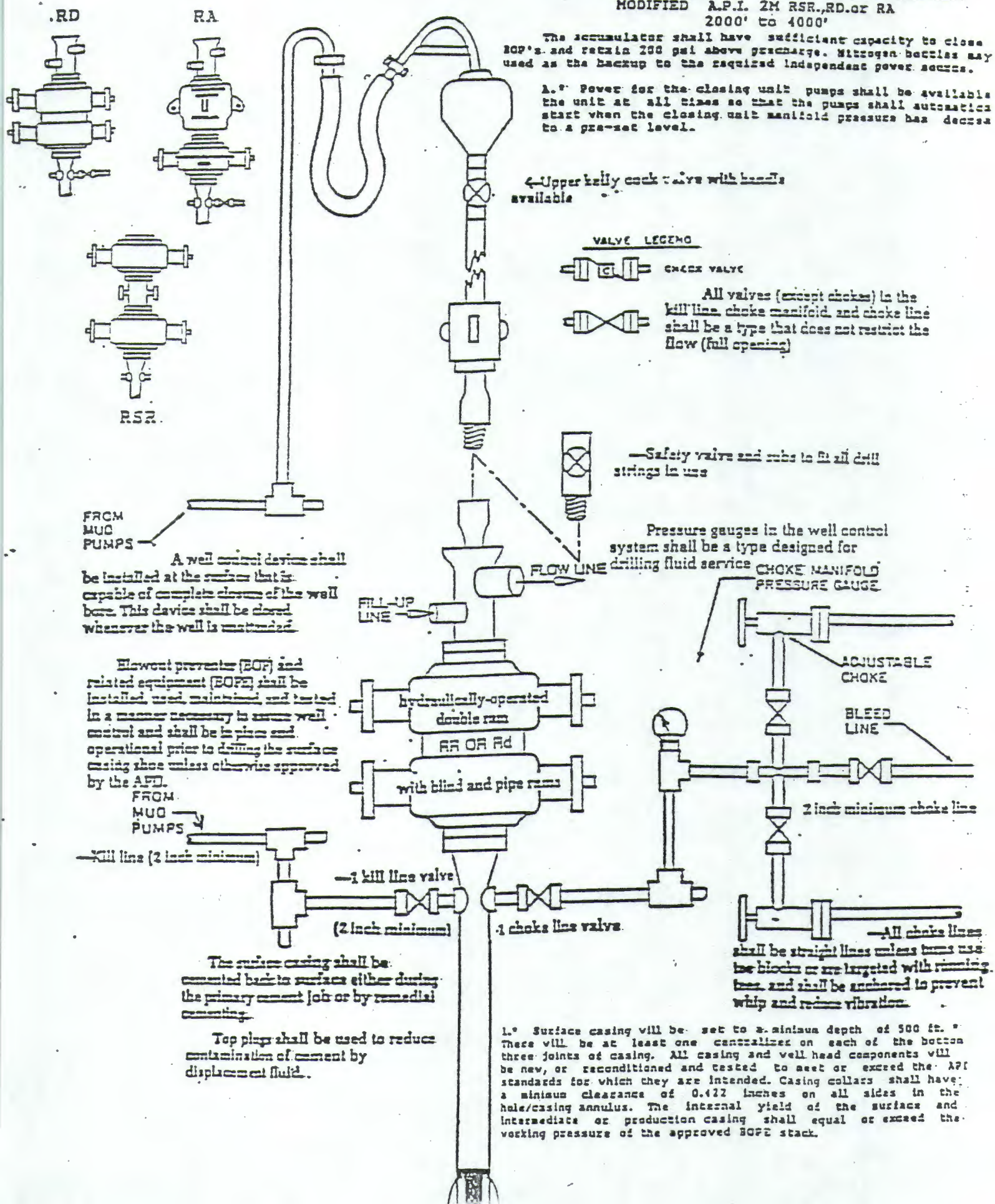
All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

1.* Surface casing will be set to a minimum depth of 500 ft. * There will be at least one centralizer on each of the bottom three joints of casing. All casing and well head components will be new, or reconditioned and tested to meet or exceed the API standards for which they are intended. Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus. The internal yield of the surface and intermediate or production casing shall equal or exceed the working pressure of the approved BOPE stack.

MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
MODIFIED A.P.I. 2M RSR.,RD.or RA
2000' to 4000'



MINIMUM STANDARDS FOR WELL CONTROL EQUIPMENT
A.P.I. 3M RRA OR RSRA
4000' TO 10,000'

API ARRANGEMENT
RSRA

←Upper kelly cock valve with handle available

—Safety valve and subs to fit all drill strings in use

VALVE LEGEND

CHECK VALVE

All valves (except chokes) in the kill line, choke manifold, and choke line shall be a type that does not restrict the flow (full opening)

All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

STANDPIPE PRESSURE GAUGE

CHOKE MANIFOLD PRESSURE GAUGE

—2 chokes (2 inch minimum)*

FILL-UP LINE

FLOW LINE

FROM MUD PUMPS

A well control device shall be installed at the surface that is capable of complete closure of the well bore. This device shall be closed whenever the well is unattended.

ADJUSTABLE CHOKE

ANNULAR

—3 inch diameter choke lin

Blowout preventer (BOP) and related equipment (BOPE) shall be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe unless otherwise approved by the APD.

API ARRANGEMENT
SRRA OR RRA

FROM MUD PUMPS

—All BOPE connections subjected well pressure shall be flanged, welde or clamped *

—Drilling spool, or blowout preven with 2 side outlets (choke side shall b 3-inch minimum diameter, kill side sh be at least 2-inch diameter) *

—Kill line (2 inch minimum)

—2 kill line valves, one of which shall be a check valve (2 inch minimum) *

A minimum of 2 choke line valves (3 inch minimum)*

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

Top plugs shall be used to reduce contamination of cement by displacement fluid.

The accumulator shall have sufficient capacity to open th hydraulically-controlled choke line valve (if so equipped), clos all rams plus the annual preventer, and retain a minimum of 20 psi above precharge on the closing manifold without the use o the closing unit pumps. The 3M system shall have 2 independen power sources to close the preventers. Nitrogen bottles (minimum) may be one of the independent power sources.

A.* Power for the closing unit pumps shall be available t the unit at all times so that the pumps shall automaticall start when the closing unit manifold pressure has decreased to a pre-set level.

B. Each BOPE closing unit shall be capable of opening th hydraulically-operated gate valve (if so equipped), plu closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and obtain a minimum o 200 psi above precharge pressure while isolated from th

rface casing shall be set to a minimum depth of 500 ft. or total depth whichever is greater. * In wells where ediate or production casing will be employed the surface shall be set to 500 ft. or 10% of the next casing string ver is greater. * There will be at least one centralizer h of the bottom three joints of casing. * All casing and ead components will be New, or reconditioned and tested to r exceed the API standards for which they are intended. collars shall have a minimum clearance of 0.422 inches on les in the hole/casing annulus. * The internal yield of the

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CULTURAL RESOURCES INVENTORY NEGATIVE REPORT

BLM Office: Tonopah **BLM Report Number:** BLM 6-1680-1(N)

Organization/Field Crew: **R.K. Vierra & Assoc. Inc./ R.K. Vierra, P.I.**

Project Name and Description: A Cultural Resource Survey for Foreland's Proposed three Drill Pads: Ghost Ranch Federal No. 58-35, Ghost Ranch Federal No. 38-35, and Ghost Ranch Federal No. 57-35 in Railroad Valley. A class III survey was conducted.

Project Area (acres): Drill Pad: 24.79 acres.
Access Routes: .92 acres

Geographic Unit: Railroad Valley

Legal Description: Ghost Ranch Federal No. 38-35: SW 1/4 SE 1/4 SW 1/4 Section 35, T9N/R57E.

Ghost Ranch Federal No. 57-35: NW 1/4 SW 1/4 SE 1/4 Section 35, T9N/R57E.

Ghost Ranch Federal No. 58-35: SW 1/4 SW 1/4 SE 1/4 Section 35, T9N/R57E.

County: Nye

Map Reference: 1990 7.5' USGS Blue Eagle Springs, NV

UTM Reference: Ghost Ranch Federal No. 38-35: 627560 **mE** 4272100 **mN**
Ghost Ranch Federal No. 57-35: 627850 **mE** 4272300 **mN**
Ghost Ranch Federal No. 58-35: 627950 **mE** 4272100 **mN**

Records Check: BLM Records

Results of Previous Inventories: Previous surveys conducted within a mile of the project area are listed as follows:

1. CRR 6-1626(P), Foreland Drill Pads Survey, R. K. Vierra (8-24-94), three sites were recorded; CrNV-61-7838 (FCR scatter redeposited with one flake), CrNV-61-7839 (small lithic scatter with Elko point), and CrNV-61-7840 (diffuse lithic scatter eroding out of dune), CrNV-61-7839 and 7840 are eligible for the NRHP.

2. CRR 6-1625(N), Foreland Drill Pads and Access Road Survey, R. K. Vierra (8-24-94), no sites were found for the two drill pads.

3. CRR 6-1680(N), 1995 Foreland's Railroad Valley Drill Pads, R. K. Vierra (10-20-95), no sites were noted in the survey of four drill pads.

4. CRR 6-1656(N), 1995 Foreland Railroad Valley Drill Pads 85-35, 64-35, 55-35, and Access Road Surveys, R. K. Vierra (4-4-95), no sites were found.

5. CRR 6-1631(N), 1994 Foreland Railroad Valley Drill Pad 24-36 and Access, R. K. Vierra (8-25-94), no sites were found.

6. CRR 6-1603(P), A Cultural Resources Survey for the 3-D Foreland Seismic Project in Railroad Valley, Nye County, Nevada, R. K. Vierra (January 1995), six sites were recorded within a mile of the project area: CrNV-61-7483 (small FCR scatter), CrNV-61-5354 (campsite with FCR, Elko point, and pottery), CrNV-61-7804 (lithic scatter with FCR), CrNV-61-5319 (diffuse lithic scatter with an Elko point), CrNV-61-7651 (1880's wood-frame structure with corral and trash scatter), CrNV-61-7850 (prehistoric component consists of a lithic scatter, two bifaces, and four metates; historic component consists of two stone foundations, trash, and a a segment Locus M1 of the Midland Trail previously recorded as CrNV-61-7320), and Locus M2 of the Midland Trail consisting of juniper post. All sites except CrNV-61-5319 were recommended eligible for the NRHP.

Recorded and Unrecorded Sites: There were no recorded cultural resources in the APE nor any unrecorded sites in the project area.

Expectations: No sites were expected to be found since the three drill pads are located in an area previously surveyed by Vierra [CRR 6-1603(P)].

Inventory Date: August 2, 1996

Inventory Type: Class III Reconnaissance

Details: A 600 by 600 foot block was surveyed for each drill pad in 10 meter transect intervals to ensure full coverage. A 200' long access route was surveyed from the south end of an existing gravel road to the northeast corner of drill pad 38-35. Another 200' long access route was surveyed from the south end of an existing gravel road to the southwest corner of drill pad 57-35.

Findings: There were no cultural resources located during this inventory, thus the undertaking will have no effect on prehistoric or historic properties.

ATTACH CLEAN REPRODUCIBLE 15' OR 7.5' MAP(S) SHOWING AREA OF POTENTIAL EFFECT AND AREA INVENTORIED

Prepared by: Robert K. Vierra Date: 8-7-96

Reviewed by: _____ Date: _____

Approved by: _____ Date: _____

SHPO Review By: _____ Date: _____

NV 8100-5 (March 1996)

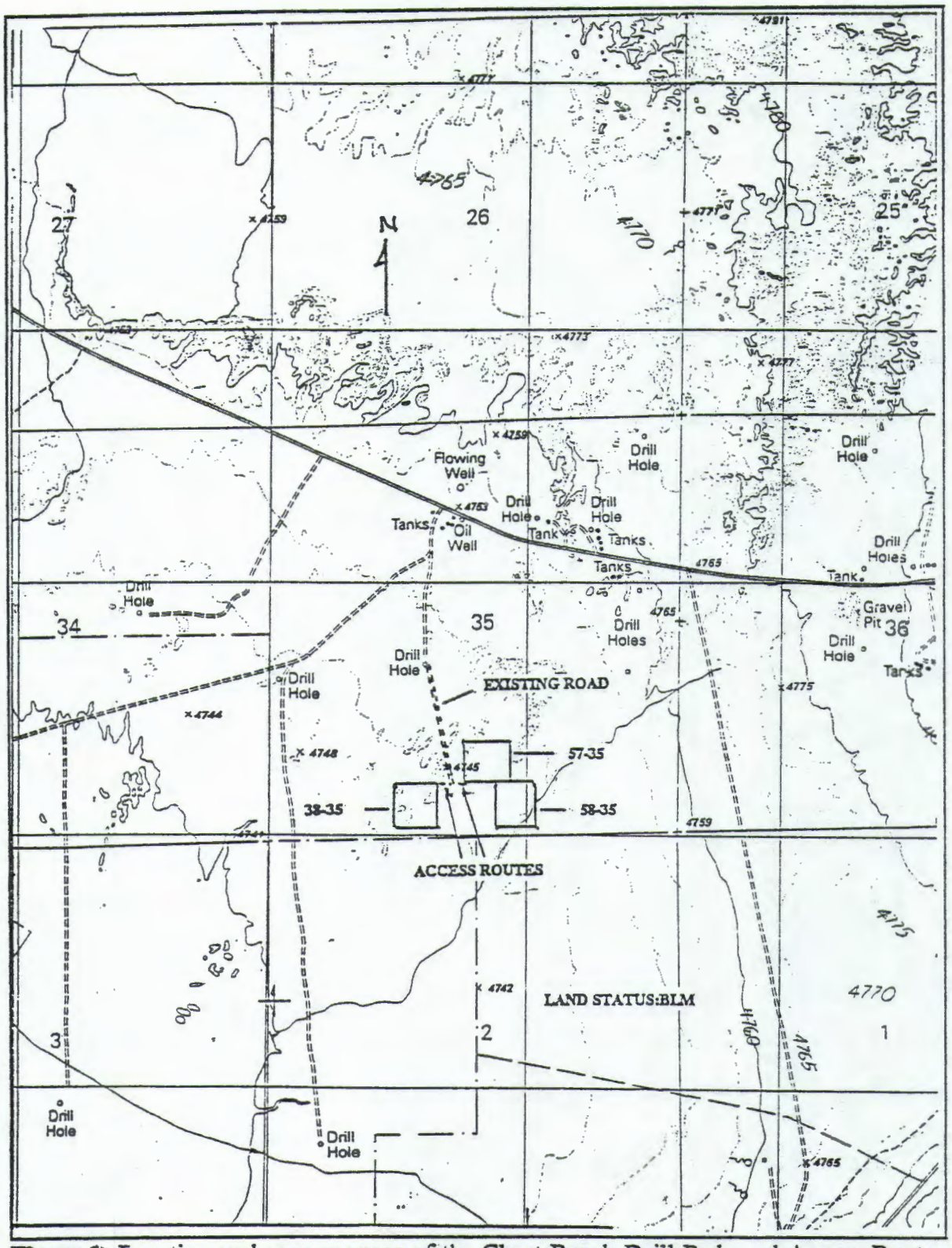


Figure 1 Location and survey areas of the Ghost Ranch Drill Pads and Access Routes for Foreland Corporation. 1996 Foreland's proposed drilling project in Railroad Valley. (1990 7.5 USGS Blue Eagle Springs, NV), Scale 1:24,000.

PROPOSED

REQUIREMENTS FOR HOLDING TANK SYSTEM
Ghost Ranch Fed. 58-35 Location
In the SW¼ SW¼ SE¼, Section 35, T9N, R57E
Nye County, Nevada
Proposed Permit Period: (Approx. Sept. 15, 1996 - Oct. 12, 1996)

A: PERMITTEE NAME AND ADDRESS:

Eagle Springs Production, LLC
2561 South 1560 West
Suite 200
Woods Cross, UT 84087

B: Eagle Springs Production will install the following holding systems:

1. A 1,250 gallon and a 500 gallon polyvinyl holding tanks, connected in tandem, such that the 500 gallon tank acts as overflow protection for the 1,250 gallon tank. Sewage from 4 single occupancy trailers and 1 laundry trailer will be plumbed to this system.

2. A 500 gallon polyvinyl holding tank will be used for the gray water from the mud logger trailer.

3. Plumb sealed 4" ABS discharge lines at 2% grade (¼" per 12") to tanks by standard plumbing techniques.

4. Drilling Engineer will inspect holding tanks daily so as to insure tanks are pumped on or before they are 3/4 full.

5. Records and receipts of disposal shall be kept by Denny Manzonie, Permit No. NY-17-04477. The waste will be disposed at the Ely City Treatment Plant.

6. Inspection of the system before and after use shall be conducted by a licensed civil engineer.

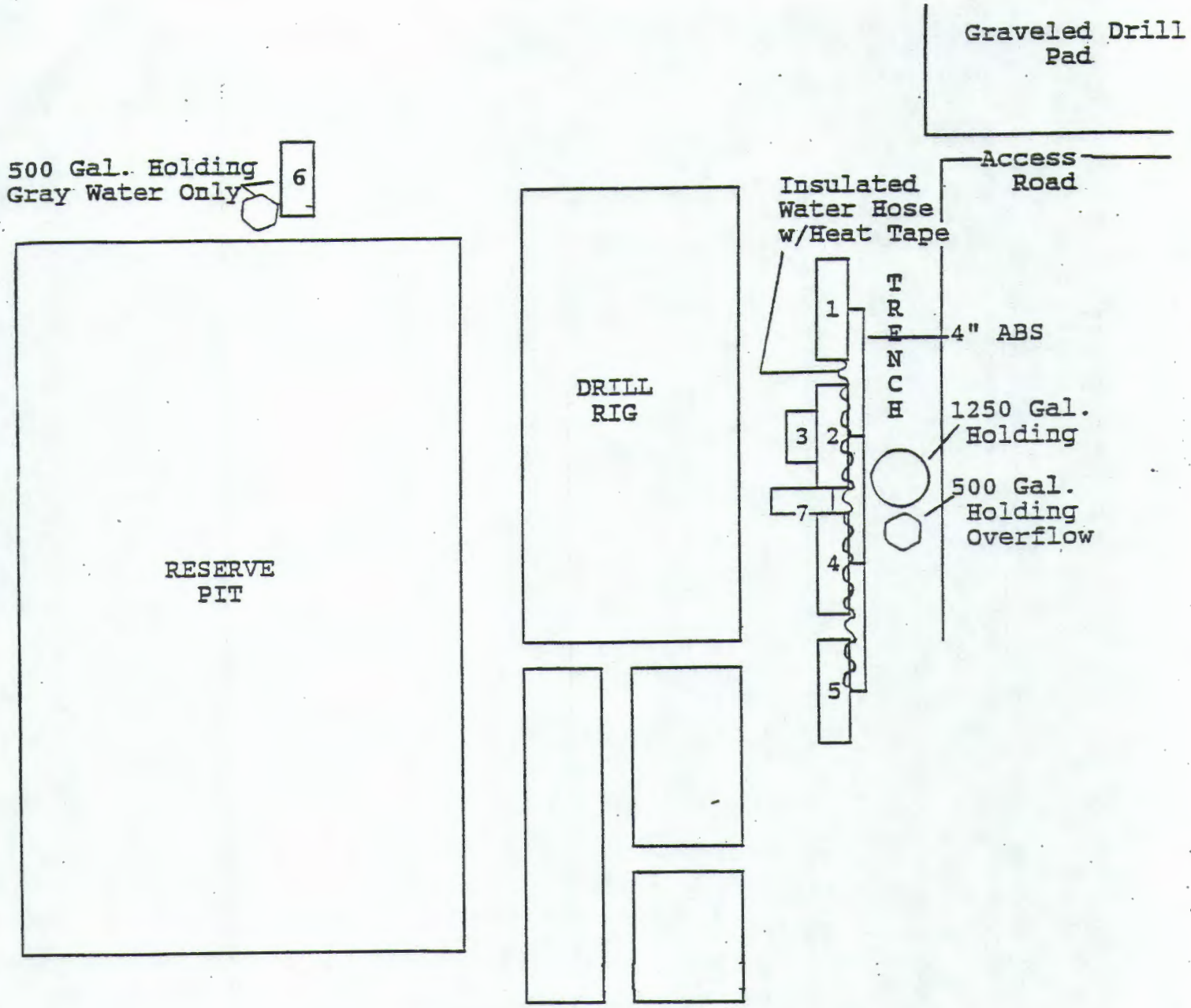
7. Should sub 0 degree weather occur, the tanks may require heaters. Suitable submersible heaters shall be on site and available.

C: Shift Crews will use portable toilets.

D: A 4,000 gallon insulated potable water tank will supply the 4 single occupancy trailers and the laundry trailer. Potable water will be hauled from Currant, Nevada.

The sample trailer (mud logger trailer) will use potable water from rig tank.

E: The Civil Engineer and/or the Nevada Bureau of Health Protection Services shall be notified immediately in the event of any sewage spills.



Portable Toilet (Crew)

1. Geologist Trailer	Toilet, Sink, Lav., Shower
2. Engineer Trailer	Toilet, Sink, Lav., Shower
3. Utility Trailer	Washer, Sample Sink
4. Toolpusher	Toilet, Sink, Lav., Shower
5. Mud Engineer	Toilet, Sink, Lav., Shower
6. Mud Logger	Sink, Lav., Shower Only
7. 4000 Gal. Water	

Single Occupancy Trailers Only

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 687-5050 • Fax (775) 687-3957
http://www.state.nv.us/minerals/

KENNY C. GUINN
Governor

Las Vegas Branch:
2501 E. Sahara Ave., #206
Las Vegas, Nevada 89104
(702) 486-4343
Fax (702) 486-4345

ALAN R. COYNER
Administrator

September 24, 1999

David A. Davis
Bureau of Mines and Geology
UNR

Dear David:

Enclosed for your information are copies of the following well files that are now public:

1. MKJ Exploration's Trough Springs #25-7, Permit 808, confidential period ended 8/23/98 (John is checking on status, TA status ended 9/11/98)
2. Foreland Corporation's Dixie Flats #1-4, Permit 818, confidential period ended 7/30/99.
3. Foreland Corporation's N. Pine Creek #1-6, Permit 823, confidential period ended 5/28/99.
4. Eagle Springs Production's Ghost Ranch #58-35R, Permit 789, confidential period ended 3/18/99.
5. Foreland Corporation's re-entry of Deadman Creek #44-13, Permit 342, confidential period ended 4/28/99.

If you have any questions, please feel free to contact me.

Sincerely,

Linda Wells
Program Assistant IV

/lw
Enclosures

Jim Chachas; *General Public*
Patrick Fagan; *Geothermal Resources*
Peter Hummel; Vice-Chairman; *Oil & Gas*

Commission on Mineral Resources
Fred D. Gibson, Jr., Chairman; *Large-Scale Mining*

Hugh Ingle, Jr.; *Small-Scale Mining and Prospecting*
John T. McDonough; *Large-Scale Mining*
Ron Parratt; *Exploration and Development*

RECEIVED
AUG 21 1998
Div. of Minerals

STATE OF NEVADA
DEPT. OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-4 (July 1992)

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.: NVN-42341

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [X] Other

7. UNIT AGREEMENT NAME:

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR [ ] Other

8. FARM OR LEASE NAME, WELL NO.: Ghost Ranch Fed. 58-35R

2. NAME OF OPERATOR: Eagle Springs Production, LLC

9. API WELL NO.: 27-023-05544

3. ADDRESS AND TELEPHONE NO.: (801)298-9866 2561 So. 1560 West, Suite 200, Woods Cross, UT 84087

10. FIELD AND POOL, OR WILDCAT: Ghost Ranch

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 395.05 FSL, 2090.51 FEL, Sec. 35, T9N, R57E, MDB&M
At top production interval reported below: Same
At total depth: Same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 35, T9N, R57E, MDB&M

14. PERMIT NO.: 789
15. DATE ISSUED: 07/14/98
12. COUNTY OR PARISH: Nye
13. STATE: NV

15. DATE SPUDDED: 07/28/98
16. DATE T.D. REACHED: 08/17/98
17. DATE COMPL. (Ready to prod.): P&A'd 08/18/98
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 4745' GR
19. ELEV. CASINGHEAD: 4744'

20. TOTAL DEPTH, MD & TVD: 6700' MD&TVD
21. PLUG, BACK T.D., MD & TVD: P&A'd
22. IF MULTIPLE COMPL., HOW MANY?*: N/A
23. INTERVALS DRILLED BY: → ROTARY TOOLS: 4610'-6700' CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: N/A

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: BCS, GR, DSN/SDL, FACT, HRID

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9 5/8" J55	36	504'	12 1/4"	Surface 240 sxs	N/A
7" J55	26	4610'	8 3/4"	3837' 200 sxs	N/A

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

31. PERFORATION RECORD (Interval, size and number): N/A

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
N/A	N/A	Plugged

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
N/A	N/A	N/A	→	N/A	N/A	N/A	N/A

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
N/A	N/A	→	N/A	N/A	N/A	N/A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): N/A

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS:

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED: Patrick Cain TITLE: Patrick Cain Drilling Superintendent DATE: 08/19/98

***See Instructions and Spaces for Additional Data On Reverse Side**

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

AUG 21 1998

Div. of Minerals

STATE OF NEVADA
DEPT. OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-5 (June 1990)	SUBMIT IN TRIPLICATE	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993	5. LEASE DESIGNATION AND SERIAL NO. NVN-42341

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATI

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER [ ]

8. WELL NAME AND NO. Ghost Ranch Fed. 58-35R

2. NAME OF OPERATOR Eagle Springs Production, L.L.C.

9. API WELL NO. 27-023-05544

3. ADDRESS AND TELEPHONE NO. (801)298-9866
2561 So. 1560 West, Suite 200, Woods Cross, UT 84087

10. FIELD AND POOL, OR EXPLORATORY ARE Ghost Ranch

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description)
395.05 FSL, 2090.51 FEL, Sec. 35, T9N, R57E, MDB&M

11. COUNTY OR PARISH, STATE Nye County, NV

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] NOTICE OF INTENT	[X] ABANDONMENT	[ ] CHANGE OF PLANS
	[ ] RECOMPLETION	[ ] NEW CONSTRUCTION
[X] SUBSEQUENT REPORT	[ ] PLUGGING BACK	[ ] NON-ROUTINE FRACTURING
	[ ] CASING REPAIR	[ ] WATER SHUT-OFF
[ ] FINAL ABANDONMENT NOTICE	[ ] ALTERING CASING	[ ] CONVERSION TO INJECTION
	[ ] OTHER_____	[ ] DISPOSE WATER

(NOTE: REPORT RESULTS OF MULTIPLE COMPLETION ON WELL COMPLETION OR RECOMPLETION REPORT AND LOG FORM.)

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

See attachment.

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

SIGNED Patrick Cain TITLE Patrick Cain Drilling Superintendent DATE 08/19/98

(This space for Federal or State office use)

PERMIT NO 789 APPROVAL DATE 9/6/96

CONDITIONS OF APPROVAL, IF ANY:

APPROVING AGENCY: [X] Nevada Division Of Minerals [ ] Bureau of Land Management

APPROVED BY (Sgd) John H. Snow TITLE Oil, Gas, Geo Programs Mgr. DATE Sept. 11, 1998

THIS FORM MUST BE SUBMITTED TO BOTH THE NEVADA DIVISION OF MINERALS AND THE BUREAU OF LAND MANAGEMENT FOR ANY OPERATION LOCATED ON FEDERAL LANDS. EACH AGENCY MUST APPROVE THE APPLICATION.

*See Instructions On Reverse Side

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

Ghost Ranch Federal 58-35R

The dryhole marker was removed and the cellar was dug out. On 07/28/98 a rotary drilling rig was moved on to the location. New wellheads were installed and a BOP was installed and tested. The 7" casing was entered and a cement plug was drilled from 25'-75'. Cement was drilled again from 423'-502', a cement retainer was drilled through also. The surface casing shoe perforations were pressure tested. They did not hold any pressures. The perforations were cement squeezed four times and finally held 270 psi for 15 minutes. The final cement plug and retainer were drilled from 4500'-4612'. New hole was then drilled to a total depth of 6700'. A DST was run from 4976'-5013', 18 bbls of water were recovered. The well was logged and subsequently plugging orders were issued. A 20 sack cement plug was set from 5920'-6020', a 50 sack cement plug was set from 4548'-4700', half in and half out of the 7" casing shoe @4610'. This plug was tagged. A 20 sack cement plug was set from 404'-568' and a surface plug was set from 70' to surface. A dry hole marker was installed. The rotary rig was released on 08/18/98.

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Wed. 8/19/98	22/15	P+A

FOOTAGE LAST 24 Hours	HRS DRLG.	H.D.P.	HOLE SIZE	FORMATION DISCRIPTION
0	0	0	6 1/8"	P+A

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Caza 63	7/28/98-8/4/98	7", 26# @ 4610	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME
P+A rig released

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - BIT T	B	G

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD			DEVIATION RECORD			TIME BREAKDOWN					
BIT WEIGHT			° at	ft.							
ROTARY RPM			° at	ft.							
STAND PIPE PRESSURE			° at	ft.							
PUMP NO. 1	MAKE Emsco	MODEL DB550	° at	ft.							
LINER 6	BORE	STROKE 16	BOTTOM HOLE ASSEMBLY								
STROKES PER MINUTE					ft.						
PUMP NO. 2	MAKE Emsco	MODEL DB550	Open		ft.						
LINER 6	BORE	STROKE 16			ft.						
STROKES PER MINUTES			ended		ft.						
CIRCULATION RATE (GPM)					ft.						
ANN. VEL. DP	DC				ft.						

DRLG. BREAKS/TEST RESULTS

7-11am Wait of cement plug
11-2pm LD DP
2-2:30pm Cement surface csg plug
2:30-300pm LD DP
300-3:30pm Cement surface plug + RD
3:30-9:00pm Rig down
Released rig @ 9:00 pm Tuesday 8/18/98

REMARKS-ACTIVITY

Costs	
Rig	4700
Sup.	400
Rental	625
Rson Svc.	240
LD crew	3000
Cement	13,600
Corrosion	3500
Water	600

Waited 4 hrs for 7" shoe cement plug to set. Tagged top of plug @ 4548' or 62' above shoe as per Johnny Stout needed 50', proceded w/ plugging operations. Set a 20 sx Premium V plug from 568'-404' 15.6 lb/gal, 1.18 ft³/sx yield and 5.4 gal/sx. LD all DP except 2 jts and placed a 10 sx plug from 70'-20'. Premium V cement, 15.6 lb/gal, 1.18 ft³/sx and 5.2 gal/sx. LD remaining 2 jts, Rigged down LD crew and Hallburton. Well P+Aed. Plan to cut off wellhead this AM. will install Dry hole marker after rig has been moved. Left 20 sxs cement off the side of location

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
0	25,767	26,665	416,063	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Tues. 8/18/98	21/14	6700'

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P.	HOLE SIZE	FORMATION DESCRIPTION
—	—	—		P + A

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza 63	7/28/98-8/4/98	7", 26# @ 4610	GL 4745' KB: 4763'

OPERATION AT REPORT TIME: Waiting to tag cement plug @ 7" casing shoe

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND T	B	G
6	6⅛	DTC	EHP 51H	open	DG8330	RR3	6700	6453	247	22.5	11			
									693	56.5	total			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LGS LIV
		No Check																

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD

BIT WEIGHT	—
ROTARY RPM	—
STAND PIPE PRESSURE	—
PUMP NO. 1 MAKE	Emsco
MODEL	DB550
LINER	6
BORE	
STROKE	16
STROKES PER MINUTE	—
PUMP NO. 2 MAKE	Emsco
MODEL	DB550
LINER	6
BORE	
STROKE	16
STROKES PER MINUTES	—
CIRCULATION RATE (GPM)	—
ANN. VEL DP	DC

DEVIATION RECORD

° at	ft
None	
° at	ft
° at	ft

BOTTOM HOLE ASSEMBLY

	ft
Open	ft
ended	ft
	ft
	ft

TIME BREAKDOWN

Log	11	LD	4	Circulate	3/4
Trip	4	Cement	2	RU	1/4
WO Lata	2				

DRLG. BREAKS / TEST RESULTS

Logged well w/ Halliburton
run Micro Electric Log, Spectral Density
Dual Spaced Neutron, Borehole Compensated
Sonic and High Resolution Induction
Loggers TD 6686' BHT 172°F @ 6686'
logs included GR, SP & Caliper
will wait 4 hrs and tag 7" shoe plug, then
set plug #3 @ surface casing shoe

REMARKS - ACTIVITY

Costs		
Rig 7700	7:00-9:00AM	Trip out for logs
Sup. 800	9:00-8:00pm	Log
Mud loggers 685	8:00-11:00pm	LD DC
Rental 625	11:00-1:00am	TIH w/ DP
Pason System 240	1:00-1:45am	Circulate
DST Hand Standby 650	1:45-2:00am	RU cementers
Loggers 27,000	2:00-4:00am	WO water, contaminated water tank
	4:00-5:00am	Pumped cement plug #1
	5:00-6:00 am	LD DP
	6:00-7:00 am	Pumped cement plug #2

As per John Stout's orders set a 100' plug half in and half out of the top of the Paleozoic @ 5970'. Set a 100' plug half in and half out of the 7" casing shoe.
Plug #1 5920'-6020' 20 sx Premium V w/ .03% retarder 15.6 lb/gal
Plug #2 4640'-4410' 50 sx Premium V 15.8 lb/gal see above

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
0	25,767	43600	389398	Pat Cain

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Mon. 8/17/98	20/13	6700'

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
200	18	11.1	6 1/8"	Ely

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG SIZE AND DEPTH	ELEVATIONS
Caza 63	7/28/98-8/4/98	7", 26# @ 4610'	GL 4745' KB. 4763'

OPERATION AT REPORT TIME: Tripping out of the hole for logs

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - BIRS T	B	G
6	6 1/8	RTC	FHP 5114	open	DQ8330	RR3	6700	6453	247	22.5	11			
									693	56.5	total			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS.	PV/YP	GELS	PH	WL	CAKE	Pm	Pf/Mf	CHLOR	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
2 PM	6567	8.8	.4576	47	18/12	2/8	9.0	6	2/32	-	.15/1	300	36	Tr	3.45	-	96.55	-
5 AM	6700	8.7	.4527	57	25/15	4/8	9.0	5.6	2/32	-	.16/1.1	300	36	Tr	2.7	-	97.3	-

MUD & CHEMICALS ADDED IN LAST 24 HRS

Flowline temp. 120° F

69 gel, 1 caustic, 7 polymer, 4 soda, 11 soltex " " 116° F

HYDRAULICS RECORD

BIT WEIGHT		20-21
ROTARY RPM		80
STAND PIPE PRESSURE		1000
PUMP NO 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		38
PUMP NO 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		—
CIRCULATION RATE (GPM)		231
ANN VEL DP	DC	

DEVIATION RECORD

° at		ft.
None		ft.
° at		ft.
° at		ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft.
1	BS	2.98 ft.
19	4 3/4" DC	576.35 ft.
		ft.
Total BHA		579.58 ft.
		ft.

TIME BREAKDOWN

Circulate	3	Drill	18		
Trip	3				

DRLG. BREAKS/TEST RESULTS

See mud loggers report

REMARKS-ACTIVITY

Costs	
Rig 7700	
Supv. 800	
Mud loggers 535	
Rental 625	
Water 300	
Centrifuge 350	
Poson System 240	

7am-1am	Drill 6500'-6700'
1-2am	Circulate
2-4am	Short trip 24 stds (into 7")
4am-6am	Circulate
6am-7am	Trip for logs

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
3837	25,767	14387	345,798	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Sun. 8/16/98	19/12	6500-

FOOTAGE LAST 24 HOURS	HRS DRLG	ROP	HOLE SIZE	FORMATION DISCRIPTION
147	16½	8.9	6⅛"	Ely ?

CONTRACTOR AND R.O. NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Cazo 63	7/28/98-8/4/98	7", 26# @ 4610	GL 4745- KB 4763-

OPERATION AT REPORT TIME: Drilling ahead @ 6500-

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND T	DULL COND B	DULL COND G
5	6⅛	Nutec	NT2	Open	10641	N	6453	5736	717	102	7.0			
6	6⅛	RTC	EHP 5H	Open		RR3		6453						

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS.	PV	YP	GELS	PH	WL	CAKE	Pm	Pf	Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. CUM
6:00A	6350	8.8+	.4576	44	15	10	8	6	9.5	6.4	2/32	-	.4	1.2	300	46	1/8	3.45	-	96.55	-

MUD & CHEMICALS ADDED IN LAST 24 HRS.

Flowline temp. 118° F

HYDRAULICS RECORD

BIT WEIGHT		18-19
ROTARY RPM		82
STAND PIPE PRESSURE		1170
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		37
PUMP NO 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		-
CIRCULATION RATE (GPM)		231
ANN VEL DP	DC	

DEVIATION RECORD

8 ° at	6425 ft.
° at	ft.
° at	ft.
° at	ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft
1	BS	2.48 ft.
19	4¾" DC	576.35 ft
		ft
Total	BHA	579.58 ft
		ft

TIME BREAKDOWN

Drill	16½	Survey	½	BOP check	½
Circulate	1	Trip			

DRLG. BREAKS/TEST RESULTS

See mud loggers report

REMARKS - ACTIVITY

Costs	
Rig 7700	
Supv. 800	
Mud loggers 535	
Rental 625	
Water 225	
Centrifuge 350	
Pason System 240	

7:00-7:00pm	Drill 6350-6450-
7:00-8:00 pm	Circulate for bit
8:00-8:30 pm	Survey
8:30-11:00 pm	TOH
11:00-11:30pm	Check BOP
11:30-2:30AM	TIH
2:30-7:00AM	Drill 6450-6500-

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
—	23,492	10,475	331,411	Pat Cain

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Sat. 8/15/98	18/11	6353'

FOOTAGE LAST 24 HOURS	HRS DRLG	ROP	HOLE SIZE	FORMATION DISCRIPTION
195	24	8.1	6 1/8	Ely ?

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza 63	7/28/98-8/4/98	7", 26# @ 4610	GL 4745' KB 4763'

OPERATION AT REPORT TIME: Drilling ahead @ 6353'

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - RING T	B	G
5	6 1/8	Nutec	NT2	Open	10641	N	–	5736	617	90	6.9			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS	PV	YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LCM
6:45P	6254	8.8	.4576	42	14	8	2 / 7	9.5	7.8	2/32	–	.4 / 1.3	300	40	Tr	3.5	–	96.5	–
6:00A	6350	8.8	.4576	44	15	10	3 / 6	9.5	6.4	2/32	–	.4 / 1.2	300	40	1/8	3.45	–	96.55	–

MUD & CHEMICALS ADDED IN LAST 24 HRS.

Flowline temp 116° 118°

100 gel, 3 caustic, 4 polymer, 2 ASO7, 7 soltex

HYDRAULICS RECORD		
BIT WEIGHT		20-21
ROTARY RPM		76
STAND PIPE PRESSURE		1000
PUMP NO 1	MAKE Ensco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		35
PUMP NO 2	MAKE Ensco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		–
CIRCULATION RATE (GPM)		231
ANN VEL. DP	DC	

DEVIATION RECORD

° at		ft.
None		
° at		ft.
° at		ft.

BOTTOM HOLE ASSEMBLY

1	B.t	.75 ft.
1	BS	2.48 ft.
19	4 3/4" DC	576.35'
		ft
Total BHA		579.58'
		ft

TIME BREAKDOWN

Drill	24

DRLG. BREAKS/TEST RESULTS

See mud loggers report

REMARKS-ACTIVITY

Costs
Rig 7700
Supr. 800
Mud loggers 535
Rental 625
Water 225
Centrifuge 350
Pason System 240

7:00AM-7:00AM Drill 6158'-6353'

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
2207	23,492	12,682	320,936	Pat Cain

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35 R	Fri. 8/14/98	17/10	6158'

FOOTAGE LAST 24 Hours	HRS DRLG	R O P	HOLE SIZE	FORMATION DISCRIPTION
173	24	7.2	6 1/8	Valley Fill (since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza 63	7/28/98 - 8/4/98	7", 26# @ 4610'	GL 4745' KB 4763'

OPERATION AT REPORT TIME: Drilling ahead @ 6158'

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND T	B	G
5	6 1/8	Nutec	NT2	Open	10641	N	–	5736	422	66	6.4			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LGS LCM
3 P	6045	8.6	.447	43	13 / 8	2 / 7	9.5	8.4	2/32	–	.3 / 1	300	30	Tr	2	–	98	

MUD & CHEMICALS ADDED IN LAST 24 HRS.

Flowline Temp. 116°F

46 gel, 2 caustic, 3 polymer, 2 A507, 6 soltex, 0 bar

HYDRAULICS RECORD

BIT WEIGHT	20-21
ROTARY RPM	85
STAND PIPE PRESSURE	970
PUMP NO 1 MAKE	Ensco
MODEL	D855O
LINER	6
BORE	
STROKE	16
STROKES PER MINUTE	316
PUMP NO. 2 MAKE	Ensco
MODEL	D855O
LINER	6
BORE	
STROKE	16
STROKES PER MINUTES	
CIRCULATION RATE (GPM)	231
ANN VEL DP	
DC	

DEVIATION RECORD

° at ft.
° at ft.
° at ft.
° at ft.

None

BOTTOM HOLE ASSEMBLY

1	Bit	.75'
1	BS	2.48'
19	4 3/4" DC	576.35'
	Total BHA	579.58'

TIME BREAKDOWN

Drill	24

DRLG. BREAKS / TEST RESULTS

See mud loggers report

A lot of little shows, just no consistent porosity

REMARKS - ACTIVITY

Costs

Rig	7700
Supv.	800
Rental	625
Water	150
Fresh water	225
Centrifuge	350
Poson System	240
Mud loggers	1070 (2 days)

7:00AM-7AM Drill 5985'-6158'

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
3258	21,285	14,418	308,254	Pat Cain

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Thurs. 8/13/98	16/9	5985'

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
148	24	6.2	6 1/8"	Valley Fill (Since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza 63	7/28/98-8/4/98	7", 26# @ 4610'	GL 4745' KB 4763'

OPERATION AT REPORT TIME
Drilling ahead @ 5985'

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - BIT T	B	G
5	6 1/8	Hughes	NT2	Open			10641	N	—	5736	249	42	5.9			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD.	VIS.	PV/YP	GELS	PH	WL	CAKE	Pm	Pf/Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM
8:00A	5843	8.9	.463	44	16/9	1/3	9.5	8	2/32	—	.2/.7	300	30	Tr	4	—	96	—

MUD & CHEMICALS ADDED IN LAST 24 HRS.
46 gel, 2 caustic, 3 polyer, 2 A567, 6 soltex, 28 bar

HYDRAULICS RECORD

BIT WEIGHT	19-20
ROTARY RPM	79
STAND PIPE PRESSURE	1070
PUMP NO. 1 MAKE / MODEL	Emsco DB550
LINER / BORE / STROKE	6 / / 16
STROKES PER MINUTE	37
PUMP NO. 2 MAKE / MODEL	Emsco DB550
LINER / BORE / STROKE	6 / / 16
STROKES PER MINUTES	—
CIRCULATION RATE (GPM)	238
ANN. VEL DP / DC	

DEVIATION RECORD
None

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft.
1	BS	2.48 ft.
19	4 3/4 DC	576.35 ft.
		ft.
Total BHA		579.58 ft.
		ft.

TIME BREAKDOWN

Drill	24

DRLG. BREAKS/TEST RESULTS
See mud loggers report
A lot of little shows, just no consistent porosity

REMARKS - ACTIVITY

Costs
Rig 7700
Supv 800
Rental 625
Water 225
Centrifuge 350
Pason System 240

7:00 am - 7:00 am Drill 5837'-5985'

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
1681	18,027	11,621	293,836	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Wed. 8/12/98	15/8	5837'

FOOTAGE LAST 24 Hours	HRS DRLG	ROP	HOLE SIZE	FORMATION DISCRIPTION
101	18	5.6	6 1/8	Valley Fill (since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98-8/4/98	7", 26# @ 4610'	GL: 4745' KB: 4763

OPERATION AT REPORT TIME: Drilling ahead @ 5837'

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - BIT T	B	G
4	6 1/8	Nutec	NT2	Open	10640	N	5736	5228	508	78	6.5	6	E	I
5	6 1/8	Nutec	NT2	Open	10641	N	—	5736	101	18	5.6			

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
5:30P	5762	8.7#	.453	39	9 / 7	1 / 3	9.5	8.8	2/32	—	.3 / .9	300	50	Tr	2.9	—	97.1	—

MUD & CHEMICALS ADDED IN LAST 24 HRS.

25 gel, 2 caustic, 4 polymer, 3 A507, 8 seltex, 5 bar

HYDRAULICS RECORD

BIT WEIGHT	M-21	
ROTARY RPM	78	
STAND PIPE PRESSURE	990	
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE	37	
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES	—	
CIRCULATION RATE (GPM)	238	
ANN. VEL. DP / DC		

DEVIATION RECORD

3 1/2 ° @	5698	ft.
° @		ft.
° @		ft.
° @		ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft.
1	BS	2.48 ft.
19	4 3/4 DC	576.35 ft.
		ft.
	Total BHA	579.58 ft.
		ft.

TIME BREAKDOWN

Circulate	1	Trip	4 1/2		
BOP Check	1/2	Drill	18		

DRLG. BREAKS/TEST RESULTS

unconformity in 88-35 5945'

REMARKS - ACTIVITY

Rig	7700	7:00-8:00 AM	Condition and circulate
Supr.	800	8:00-10:00 AM	Trip out LD 7 jts DP
Mud loggers	535	10:00-10:30 AM	Change bits and Check BOP
Rental	625	10:30-1:00 PM	TIH, PU 7 4 3/4" DC
Water	150	1:00pm-7:00 AM	Drill 5736'-5837'
Centrifuge	350		
Bit	5000		
15 days Pason System	3600		

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
1798	16,346	20,558	282,215	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Tues. 8/11/98	14/7	5735'

FOOTAGE LAST 24 Hours	HRS DRLG.	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
138	24	5.75	6 1/8	Valley Fill (since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98-8/4/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: Drilling ahead @ 5735'

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32-ds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - BIRG T	B	G
4	6 1/8	Hughes	NT2	Open	10640	N	-	5228	507	78	6.5			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD.	VIS.	PV	YP	GELS	PH	WL	CAKE	Pm	Pf	Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM
8:00A	5606	8.8	.457	41	11	8	2	4	9.5	8.8	2/32	-	.25	.8	300	40	Tr	.5	-	96.5	-

MUD & CHEMICALS ADDED IN LAST 24 HRS.

6 bg gel, 2 caustic, 4 polymer, 2 ASO7, 8 soltex, 12 bar

HYDRAULICS RECORD			DEVIATION RECORD			TIME BREAKDOWN		
BIT WEIGHT	13-14		° at		ft.	Drill	24	
ROTARY RPM	65		None		ft.			
STAND PIPE PRESSURE	880		° at		ft.	DRLG. BREAKS/TEST RESULTS		
PUMP NO 1	MAKE Emsco	MODEL D550	° at		ft.			
LINER 6	BORE	STROKE 16	BOTTOM HOLE ASSEMBLY					
STROKES PER MINUTE	36		1	B.b	.75 ft.	See mud loggers report		
PUMP NO. 2	MAKE Emsco	MODEL D550	1	BS	2.48 ft.			
LINER 6	BORE	STROKE 16	12	4 3/4 DC	364.38 ft.			
STROKES PER MINUTES	—				ft.			
CIRCULATION RATE (GPM)	231		Total BHA		367.61 ft.			
ANN. VEL DP	DC				ft.			

REMARKS-ACTIVITY

Costs

Rig	7700
Supv.	800
Mud loggers	535
Rental	625
Water	385
Centrifuge	350

Plan to make a bit trip, drop a survey and pickup 7 more drill collars for drill weight. We will trip this morning due to the heat

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
1745	14,548	12,080	261,657	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

MORNING DRILLING REPORT

FORELAND CORPORATION

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Mon. 8/10/98	13/6	5597'

FOOTAGE LAST 24 Hours	HRS. DRLG	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
154	24	6.4	6 1/8	Valley Fill (since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98 - 8/4/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: Drilling ahead @ 5597'

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - BING T	B	G
4	6 1/8	Nutec	NT2	Open	10640	N	–	5228	369	54	68			

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
4:00P	5502	8.8	.457	42	12 / 10	3 / 4	9.5	8	2/32	–	.3 / .85	300	50	Tr	3.4	0	96.6	–

MUD & CHEMICALS ADDED IN LAST 24 HRS.

54 gel, 2 caustic, 4 polymer, 2 A507, 10 soltex, 12 bar

HYDRAULICS RECORD

BIT WEIGHT		12-14
ROTARY RPM		61
STAND PIPE PRESSURE		900
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		36
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		–
CIRCULATION RATE (GPM)		231
ANN. VEL. DP	DC	

DEVIATION RECORD

° at		ft.
None		ft.
° at		ft.
° at		ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft.
1	BS	2.48 ft.
12	4 3/4" DC	364.38 ft.
		ft.
Total BHA		367.61 ft.
		ft.

TIME BREAKDOWN

Drill	24				

DRLG. BREAKS/TEST RESULTS

None - See mud loggers report

REMARKS-ACTIVITY

Costs		
Rig 7700		Plan to take a survey when the survey
Sup. 800		tool is located (need slimhole tool). Last
Mud loggers	535	BHL @ 4781' 1 1/4° N59.56W or Footage coord.
Rental 340		16 412' FSL, 2119' FEL
(12 days) Camp rental	3420	original surface location 395' FSL, 2091' FEL
(3 days) Centr. fuge	1050	BHL @ 4781' 28' west, 17' north
		395' 2091'
		17' 28
		412' 2119'

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
1904	12,803	15,749	349,577	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35A	Sun. 8/9/98	12/5	5443'

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P	HOLE SIZE	FORMATION DISCRIPTION
175	24	7.3	6 1/8"	Valley Fill (Since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98 - 8/4/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME

Drilling ahead @ 5443'

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - BIT T	B	G
4	6 1/8	Hughes	HT-3	Open	10640	N	-	5228	215	30	7.2			

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD	VIS.	PV	YP	GELS	PH	WL	CAKE	Pm	Pf	Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM
3:00 P	5232	8.74	.455	41	12	8	2 5	9.5	8.4	2/32	-	.4	.9	300	40	Tr	3.0	-	97	

MUD & CHEMICALS ADDED IN LAST 24 HRS.

109 gel, 2 caustic, 4 polymer, 2 A507, 12 soltex, 31 bar

HYDRAULICS RECORD		
BIT WEIGHT		11-13
ROTARY RPM		60
STAND PIPE PRESSURE		880
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		36
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		-
CIRCULATION RATE (GPM)		238
ANN. VEL DP	DC	

DEVIATION RECORD

° at		ft.
° at	None	ft.
° at		ft.
° at		ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75	ft.
1	BS	2.48	ft.
12	4 3/4 DC	364.38	ft.
			ft.
Total BHA		367.61	ft.
			ft.

TIME BREAKDOWN

Drill	24				

DRLG. BREAKS/TEST RESULTS

See mud loggers report

REMARKS-ACTIVITY

Costs	
Rig 7700	7:00 am - 7:00 pm Drill 5268' - 5443'
Sup. 800	
Mud loggers 535	
Water 900	
Rental 340	

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
2482	10,899	12,757	233,828	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Sat. 8/8/98	11/A	5268'

FOOTAGE LAST 24 Hours	HRS. DRLG	ROP	HOLE SIZE	FORMATION DISCRIPTION
163	19½	8.4	6⅛"	Valley Fill (since 5046')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98 - 8/8/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: Drilling ahead @ 5268'

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - Bits T	B	G
3	6⅛	RTC	EHP 51A	Open	DQ8330	RR	5228	4782	446	34	13.1			
4	6⅛	Hughes	NT-2	Open	10640	N	–	5228	40	6	6.7			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM
1000A	5130	8.8	.457	41	10 / 7	2 / 3	9.5	5.8	2/32	–	.3 / .8	300	40	Tr	3.3	–	96.7	–

MUD & CHEMICALS ADDED IN LAST 24 HRS.

70 gel, 2 polymer, 1 A807, 6 soltex

HYDRAULICS RECORD

BIT WEIGHT		9-11
ROTARY RPM		61
STAND PIPE PRESSURE		730
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		37
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		–
CIRCULATION RATE (GPM)		238
ANN. VEL. DP	DC	

DEVIATION RECORD

° at	ft.	None
° at	ft.	
° at	ft.	

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft.
1	BS	2.48 ft.
12	4¾ DC	364.38 ft.
		ft.
Total BHA		367.61 ft.
		ft.

TIME BREAKDOWN

Drill	19½	Trip	3
Circulate	1	change bit, BOP	½

DRLG. BREAKS/TEST RESULTS

Show @ 5238'-5246'
See mud loggers report

REMARKS-ACTIVITY

Costs	
Rig 7700	
Rig Credit (15,675)	
Supr. 800	
Location 10,410	
Trailer Haul + set up 2225	
9 days) BOP Rental 1950	
BOP Gaskets 675	
2 days) Fork lift 1115	
Bit 4100	

7-8:30 pm	Drill 5105'-5228'
8:30-9:30 pm	Circulate
9:30-11 pm	Trip out of hole
11-11:30 pm	Drop bit and work BOP
11:30-1 am	Trip in hole w/ bit #4
1 am-6 am	Drill 5228'-5267'

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
1525	8417	14825	221,071	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY - YELLOW COPY - FILE - PINK COPY

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35R	Fri. 8/7/98	10/3	5105'

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
91	10	9.1	6 1/8"	Valley Fill (entered Valley @ 5098')

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98 - 8/4/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: Drilling ahead @ 5105'

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - BIRR T	B	G
3	6 1/8	RTC	EHP 51H	Open	DQ8330	RR	-	4782	323	20.5	15.0			

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD	VIS.	PV	YP	GELS		PH	WL	CAKE	Pm	Pf	Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	Lbs. LCM
10:00P	5014	8.7#	.453	39	9	7	4	3	10	9.6	2/32	-	.4	.9	300	40	-	3.1	-	96.9	

MUD & CHEMICALS ADDED IN LAST 24 HRS.

69 gel, 2 polymer, 2 A507, 6 soltex

HYDRAULICS RECORD

BIT WEIGHT		8-10
ROTARY RPM		57
STAND PIPE PRESSURE		1310
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		45
PUMP NO 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		—
CIRCULATION RATE (GPM)		289
ANN. VEL. DP	DC	

DEVIATION RECORD

° at	ft.
None	
° at	ft.
° at	ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75	ft.
1	BS	2.48	ft.
12	4 3/4" DC	364.38	ft.
			ft.
Total BHA		367.61'	ft.
			ft.

TIME BREAKDOWN

Trip	7	DST #1	4 1/2	Circulate	1 1/2
PU & LD Tools	2			Drill	9

DRLG. BREAKS / TEST RESULTS

DST #1 4976.54' - 5013' (36.46') 15/30/60/120
Gauge Depth 5010' 146°F @ 5009'
Initial Hydrostatic 2250.1 psi
Initial Flow 1261.2 psi Final Flow 1348.5 psi
Shut in 2153.8 psi
2nd Initial Flow 2043.8 psi Final Flow 2057.6 psi
2nd Shut in 2153.8 psi
Final Hydrostatic 2236.4 psi

REMARKS - ACTIVITY Reversed out 18 bbls water

Costs	
Rig	8800
Supv.	800
Mud loggers	535
Halliburton	5000

7:00-8:00 AM	Trip out of hole for DST #1
8:00-9:00 AM	PU DST Tools
9-11:30 AM	Trip in hole with DST #1
11:30-4:00 pm	DST #1 4976.54'-5013'
4-5:00 pm	Chain out
5-6:00 pm	Reverse circulate DST #1 18 bbls water
6-7 pm	Continue TOH
7-8 pm	Break out & load tools DST #1
8-9:30 pm	Trip in hole w/ RR #3
9:30-10 pm	Circulate bottoms up
10-7 AM	Drill Footage 5014'-5105'

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35	8/6/98 Thurs.	9/2	5014-

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
129	7	18.4	6 1/8"	Slide block #2

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98 - 8/4/98	7", 26# @ 4610-	GL: 4745- KB: 4763-

OPERATION AT REPORT TIME: Tripping out of hole for DST #1

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - BIT T	B	G
3	6 1/8	BTC	HP 51A	Open	DQ8350	N	5014	4782	232	11.5	20.17	Green		

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD.	VIS.	PV	YP	GELS		PH	WL	CAKE	Pm	Pf	Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LCM
8:00A	4899	8.7	.452	40	13	9	3	5	10	8.8	2/32	-	.9	1.9	300	50	1/8	2.9	0	97.1	

MUD & CHEMICALS ADDED IN LAST 24 HRS.

93 gel, 8 polymer, 3 SOT, 15 Salter, 14 Cedar Fiber, 21 nutt. seal, 8 bar

HYDRAULICS RECORD

BIT WEIGHT		8-10
ROTARY RPM		57
STAND PIPE PRESSURE		860
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		45
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		—
CIRCULATION RATE (GPM)		289
ANN VEL DP	DC	

DEVIATION RECORD

° at	ft.
None	
° at	ft.
° at	ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75 ft.
1	BS	2.48 ft.
12	4 3/4" DC	364.68 ft.
		ft.
Total BHA		367.61 ft.
		ft.

TIME BREAKDOWN

Drill	7	Trip	1 1/2
Circulate	2	WO Tester	13 1/2

DRLG. BREAKS / TEST RESULTS

See mud loggers report

REMARKS - ACTIVITY

Costs		
Rig 8800	7:00Am - 2pm	Drill 4857- to 5013-
Supv. 800	2:00 - 4pm	Circulate samples
Water 400	4:00 - 5:00pm	Trip 6 stds pipe into 7" casing
Mud loggers 535	5:00pm - 6:30Am	WO tester
	6:30 - 7:00Am	pump pull and start TOH for DST #1

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
2813	5543	13,348	189,762	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35	Wed. 8/5/98	8/1	4885'

FOOTAGE LAST 24 Hours	HRS DRLG	H.O.P.	HOLE SIZE	FORMATION DISCRIPTION
90	7.0	12.9	6 1/8	Dolomite

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98 - 8/4/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: Drilling ahead

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32rds	SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - 8ths T	B	G
2	6 1/8	STC	OFM	Open	AF1877	RR	4782	0	-	23	-			
3	6 1/8	RTC	CHP EHP	Open	DQ8330	N	-	4782	103	4.5	22.9			

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
4:30P	4888	8.8	.457	40	8 / 14	3 / 7	10.5	14.8	2/32	-	.45 / 31	300	60	Tr	3.5	-	96.5	

MUD & CHEMICALS ADDED IN LAST 24 HRS.

216 gel, 1 caustic, 2 gel, 32 bicarb, 40 bar

HYDRAULICS RECORD

BIT WEIGHT		8-10
ROTARY RPM		57
STAND PIPE PRESSURE		860
PUMP NO. 1	MAKE Emsco	MODEL D850
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		45
PUMP NO. 2	MAKE Emsco	MODEL D850
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		-
CIRCULATION RATE (GPM)		289
ANN VEL. DP	DC	

DEVIATION RECORD

° at		ft.
° at		ft.
° at		ft.
° at		ft.

BOTTOM HOLE ASSEMBLY

1	Bit	ft.
1	BS	ft.
12	4 3/4" DC	ft.
		ft.
Total BHA	367.61	ft.
		ft.

TIME BREAKDOWN

Trip	3 1/2	Mix LCM	1/2	Circ	1
Drill cement	11	W&R	1/2	RS & BOP	1/2
Drill new hole	7				

DRLG. BREAKS/TEST RESULTS

Started drilling new hole @ 4745' @ 7:00 pm

REMARKS-ACTIVITY

Costs	
Rig 8800	
Supv. 800	
Halliburton 5163	
Water 250	
Bit 5945	
Mud loggers 4300	

7:00-7:30AM	Continue TIH tag cement @ 4500'
7:30-6:30 pm	Drill cement & retainer
6:30-7:00 pm	Mix LCM last circ. @ 4771'
7:30-10:00pm	Wash & ream, drill to 4831' 36' of new hole
10:00-11:00pm	Circulate
11:00-12:30pm	TOH
12:30-1:00am	Change bit, BS, BOP check
1:00-2:30 am	TIH
2:30-7:00 am	Drill 4781' to 4885'

Drilled retainer up and then cement to 4612'. Washed and reamed to 4771' mixed 30 sxs cedar fiber, got 100% returns. Saw slight gas kick @ 4782'. Changed out bit #2 (tooth bit to insert bit). Everything looking good

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
1670	2730	26,928	176,414	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35	Tues. 8/4/98	–	–

FOOTAGE LAST 24 Hours	HRS DRILL	R.O.P	HOLE SIZE	FORMATION DISCRIPTION
–	–	–	6 1/8"	7", 26# casing

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Csza #63	7/28/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME

Picking up DP, currently @ 4400' top of cement @ ± 4500'

BIT RECORD

BIT NO	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - BITS T	B	G
2	6 1/8	STC	OFM	–	–	–	AF1577	RR	–	0						

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
No Check																		

MUD & CHEMICALS ADDED IN LAST 24 HRS.

150 gal, 5 bicarb, 1 polymer

HYDRAULICS RECORD

BIT WEIGHT		8
ROTARY RPM		50
STAND PIPE PRESSURE		300
PUMP NO 1	MAKE Ensco	MODEL D8550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		45
PUMP NO. 2	MAKE Ensco	MODEL D8550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		–
CIRCULATION RATE (GPM)		296
ANN. VEL. DP	DC	

DEVIATION RECORD

° at		ft.
° at		ft.
° at		ft.
° at		ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75	ft.
1	BS	2.48	ft.
12	4 3/4" DC	364.38	ft.
			ft.
Total BHA		367.61	ft.
			ft.

TIME BREAKDOWN

DRLG. BREAKS/TEST RESULTS

7:00-:30 am	Wait on cement
5:30-6:00 pm	TIH tag @ 228'
6:00-1:30 am	Drill cement 228-527
1:30-2:30 am	Pressure test cement
2:30-3:30 am	Drill cement 527'-566'
3:30-7:00 am	TIH w/DP circulate, mix mud

REMARKS-ACTIVITY

Costs	
Rig 8800	
Supr. 400	
Supr. 2400	Jerry (Lafayette)
Halliburton	1700

Continued staging cement between 600-800 psi. After 90 minutes pressured up to 1000 psi and shut in well. Only staged 3/4 bbl cement in 2 hrs. Waited on cement. TIH and tagged cement @ 228' should have tagged @ ± 270'. Drilled cement to 527' pressure tested casing held 270 psi for 15 minutes. Continued drilling cement to 566'. Finished @ TIH w/DP in derrick. Brought viscosity up to ± 42. Plan to weight up to ± 8.8 ppg prior to drilling thru last plug in casing @ ±4610'.

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
850	1060	14150	149,486	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35	Mon 8/3/98	-	-

FOOTAGE LAST 24 Hours	HRS DRLG	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
-	-	-	6 1/8"	7", 26# casing

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Gsza #63	7/28/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: WO cement, staging squeeze #4

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - BIT T	B	G
2	6 1/8	STC	OFM	-	-	-	AF1877	N	-	463		2.5				

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CAL C.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM
Fresh Water																		

MUD & CHEMICALS ADDED IN LAST 24 HRS.

6 sxs Bicarb.

HYDRAULICS RECORD

BIT WEIGHT		8
ROTARY RPM		55
STAND PIPE PRESSURE		800
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		46
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		—
CIRCULATION RATE (GPM)		295
ANN. VEL DP	DC	

DEVIATION RECORD

° at	ft.
° at	ft.
° at	ft.
° at	ft.

BOTTOM HOLE ASSEMBLY

1	Bit	.75	ft.
1	BS	2.48	ft.
12	4 1/2 DC	364.38	ft.
			ft.
Total BHA		367.61	ft.
			ft.

TIME BREAKDOWN

DRLG. BREAKS/TEST RESULTS

5:00 AM - 6:00 AM Cement

6:00 AM - 7:00 AM WO cement + stage squeeze #4

See Attached Report

REMARKS - ACTIVITY

Costs		
Rig 8800	7:00 AM - 7:30 AM	WOC
Supv. 400	7:30 AM - 8:00 AM	Opened blind rams, slight flow, TIH tag @ 463'
Halliburton 3500	8:00 AM - 8:30 AM	Pressure tested squeeze, no pressure
Bit 2100	8:30 - 9:30 AM	Drill cement 463'-527'
	9:30 - 10:00 AM	Pressure test, flowing @ 8.25 gpm
	10:00 - 10:30 AM	TOH, TIH w/DP
	10:30 - 11:00	Cement w/50 sxs class G
	11:00 - 1:30	WO cement and stage squeeze #3
	1:30 - 9:30	WO cement
	9:30 - 10:30	Check blow, non pressure test to 190 psi
		hold good TIH tag @ 367'
	10:30 - 1:00 AM	Drill cement 367'-527'
	1:00 - 1:30 AM	Pressure test (see other report)
	1:30 - 2:00 AM	TOH, TIH w/DP
	2:00 - 5:00 AM	WO cementers

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
210	210	15,010	135,336	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

Monday 8/3/98

Waited on cement, opened blind rams and checked for flow, slight trickle. TIH and tagged cement @ 463'. Pressure tested squeeze #2, would not hold any pressure. Drilled cement out to 527' checked for flow, flowing @ 8.3 gpm down from 15 gpm prior to squeeze #2. TOH and TIH w/ DP, set pipe @ 517'. Cemented w/50 class G containing 3% $CaCl_2$, cement yield 1.06 ft³/sx, 16.4 ppg, 4.3 gal/sx. POOH w/DP, closed blind rams and started staging squeeze #3, pumped 1 3/4 bbls and pressure climbed to 400 psi, would bled off 20 minutes - 100 psi, pressured back up to 400 psi w/ less than 1/2 bbl, after 90 minutes of this the cement was out of pump time so pressured up to 500 psi and SI well. Final bled off was 50 psi in 40 minutes. Let cement set up, after 10 hrs opened blind rams no flow, no pressure. TIH and tag cement @ 367' pressured up squeeze to 140 psi held good. Drilled cement from 367'-527' pressure tested squeeze. Pressured to 400 psi, bled down to 90 psi in 8 minutes then stayed @ 90 psi for 10 minutes. Pressure squeezed back up to 300 psi, bled down to 110 psi in 7 minutes and held for 8 minutes. POOH w/DPC and TIH w/DP. Pumped 50 sxs Class G containing 3% $CaCl_2$, cement yield 1.06 ft³/sx, 16.4 ppg, 4.3 gal/sx. POOH w/DP, closed blind rams and started staging cement pumped 1/2 bbl and pressure walked up to 750 psi. Will plan to stage between 600 psi and 800 psi. After cement pump time has expired will plan to pressure up to 1000 psi. Will again let cement set up for 12 hrs

The squeezes are helping prior to 1st squeeze we had a 25 gpm water flow, prior to 2nd squeeze water flow 15 gpm, prior to 3rd squeeze 8.3 gpm and prior to 4th squeeze 0 gpm water flow. Have placed approximately 70 sxs cement into perforations

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 88-35	Sun. 8/2/98	—	—

FOOTAGE LAST 24 HOUR	HRS DRLG.	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
—	—	—	6 1/8"	7" 26# Casing

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: Waiting on 2nd cement job

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - 8ths T	B	G
1	6 1/8	STC	EHT 1A	—	—	—	BW1368	N	575	0	575	17.5	—			

MUD RECORD

SAMPLE TIME	DEPTH	WT	GRAD	VIS.	PV/YP	GELS	PH	WL	CAKE	Pm	Pf/Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
Water																		

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD

BIT WEIGHT		8-10
ROTARY RPM		55
STAND PIPE PRESSURE		850
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		50
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		—
CIRCULATION RATE (GPM)		321
ANN VEL. DP	DC	

DEVIATION RECORD

° at	ft.	
° at	ft.	
° at	ft.	
° at	ft.	

BOTTOM HOLE ASSEMBLY

1	Bit	1.00	ft.
1	BS	2.46	ft.
12	4 1/2 DC	398.10	ft.
			ft.
Total BHA		402.56	ft.
			ft.

TIME BREAKDOWN

DRLG. BREAKD/TEST RESULTS

7am-4pm WOC
4:00-4:30pm TIH, tag plug @ 496'
4:30-5:00pm Dr. 11 cement to 527'
5:00-6:30pm TOH & TIH to plug (squeeze cement)
6:30-7:00pm WO Halliburton
7:00-7:30pm Cement
7:30-8:00pm WO cement & stage cement
8:00-7:00am WO cement

REMARKS - ACTIVITY

Costs
Rig 8800
Supr. 400
Halliburton 4000

PU bit #1 (RR) and RIH. Tagged cement @ 496'. Prior to RIH checked for water flow had slight flow; 15 gpm. Washed cement down to 500' then started drilling hard cement to 527'. Circulated hole clean and POOH & LD bit and stood back DC. RIH w/DP to 517'. Pumped 50 sxs Class H cement w/3% CaCl2. Cement yield 1.06 ft³/sx, 16.4 ppg, 4.3 gal/sx. Placed plug from 517' to 270'. POOH w/3 stands DP to 229'. Checked for flow, slight flow, pumped 3/4 bbl water, squeeze pressured up to 125 psi, bled pressure off and POOH w/remaining DP. Checked for flow no flow, pumped 3/4 bbl water @ 135 psi, shut down and waited 30 minutes, pumped 3/4 bbl water, pressure climbed up to 270 psi and slowly started bleeding back. SI well for 12 hrs. Final flow prior to squeeze #1 25 gpm

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
0	0	13,200	120,526	Pat Cain

WHITE COPY (ORIGINAL) - FIELD COPY YELLOW COPY - WELL FILE - LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35	8/1/98	0	–

FOOTAGE LAST 24 Hours	HRS. DRLG.	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
–	–	–	6 1/8"	7" Casing

CONTRACTOR AND RIG NO.	SPUD DATE	LAST CSG.-SIZE AND DEPTH	ELEVATIONS
Caza Rig #63	7/28/98	7", 26# @ 4610'	GL: 4745' KB: 4763'

OPERATION AT REPORT TIME: WO cement

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - 8ths T	B	G
1	6 1/8	DTC	HMT 1/2	–	–	–	RW1368	N	575	0	575	16.5	–			

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV/YP	GELS	PH	WL	CAKE	Pm	Pf/Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM
Fresh		Water																

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD

BIT WEIGHT		8-10
ROTARY RPM		55
STAND PIPE PRESSURE		850
PUMP NO. 1	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE		50
PUMP NO. 2	MAKE Emsco	MODEL DB550
LINER 6	BORE	STROKE 16
STROKES PER MINUTES		0
CIRCULATION RATE (GPM)		321
ANN. VEL. DP	DC	

DEVIATION RECORD

° at	ft.
° at	ft.
° at	ft.
° at	ft.

BOTTOM HOLE ASSEMBLY

1	Bit	1.00	ft.
1	BS	3.46	ft.
6	4 3/4 DC	182.27	ft.
			ft.
Total BHA		186.73	ft.
			ft.

TIME BREAKDOWN

DRLG. BREAKS/TEST RESULTS

7:00AM-11:30AM Drill cement & retainer
11:30-1:30pm Test Hydril & check water flow
1:30-7:00pm PU 3 1/2" DP & WO Halliburton
7:00-2:30am WO Halliburton
2:30-4:00am Spot 35 sx plug 570'-397'
4:00-7:00am WO cement

REMARKS-ACTIVITY

Costs
Rig 8800
Supr 400
Rig Mob 5,500
RIH Labor 12,000
Halliburton 4111

Continued drilling on cement retainer, broke thru retainer @ 10:00 AM (8.5 hrs to drill retainer) drilled cement to 502' KB (pat 495'-496'). Continued RIH to 575' closed hydril and pressure tested casing, would not test checked for water flow, flowing @ ± 2 bbl/min POOH w/pipe and bit, bit had 2 large chunks of metal stuck in it, many teeth missing. Discussed cementing procedure w/ Johnny Stout plan to lay cement plug across perfs, will not squeeze. RIH and set open ended DP @ 570' KB, pumped 35 sxs Class H cement w/3% CaCl2, 4.3 gal/sx 16.4 ppg, 1.06 ft³/sx yield, placed plug from 570'-397', had 100% returns POOH w/DP and started WOC, will WOC 12 hrs.

DAILY MUD COST	CUM MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
0	0	76,811	107,126	Pat Cain

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 88-35	Fri. 7/31/98	-	473'

FOOTAGE LAST 24 Hours	HRS. DRLG.	M.O.P.	HOLE SIZE	FORMATION DISCRIPTION
473	12		6 1/8	7" casing

CONTRACTOR AND RIG NO.	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	7/28/98	7", 26# @ 4610'	GL. KB.

OPERATION AT REPORT TIME: Drilling cast iron cement retainer @ 473' KB

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND - 8ths T	B	G
1	6 1/8	BTC	HT 12	-	-	-	BW1368	N	-	0	473'	12				

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS LCM
Water																		

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD

BIT WEIGHT	8	
ROTARY RPM	75	
STAND PIPE PRESSURE	3600	
PUMP NO. 1	MAKE Emsco	MODEL DB 550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE	52	
PUMP NO. 2	MAKE Emsco	MODEL DB 550
LINER 6	BORE	STROKE 16
STROKES PER MINUTE	-	
CIRCULATION RATE (GPM)	374	
ANN. VEL. DP	DC	

DEVIATION RECORD

° at	ft.	
° at	ft.	
° at	ft.	
° at	ft.	

BOTTOM HOLE ASSEMBLY

1	Bit	1.00 ft.
1	BS	3.46 ft.
6	4 3/4 DC	182.27 ft.
		ft.
Total	BHA	186.73 ft.

TIME BREAKDOWN

DRLG. BREAKS / TEST RESULTS

7AM-9:30AM WO new rental BOP
9:30-3:30 pm NU BOP
3:30-6:00 pm Test BOP Tested Good!
6:00-7:00 pm Strap DC & DP MU saver sub
7:00-7:00 AM Drill cement retainer & PU pipe

REMARKS - ACTIVITY

Costs	
Rig 8800	BOP arrived @ 9:30 AM, nipple up new BOP & tested.
Supt. 400	BOP tested fine John Stout was not here as per
Wellhead 2600	his instructions on Wednesday 7/29/98 we were
Bit 3145	to test the BOP and record it in the tour book.
	We made the bit up, a mill tooth w/ no jets
	Tagged cement @ 25' KB, drilled cement to 75' KB
	PU pipe (6-4 3/4" DC and then 3 1/2" DP) and tagged
	cement again @ 423' KB, drilled kelly down then
	closed the pipe rams and pressure tested to 240 psi
	for 5 minutes, held good. Continued drilling cement
	to 472' KB then started drilling cast iron
	cement retainer, started drilling retainer @
	1:30 AM currently still drilling on retainer
	should break thru fairly soon

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
0	0	14945	30315	Pat Cain

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch	7/30/98	0	–

FOOTAGE LAST 24 Hours	HRS. DRLG.	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
0	0	–	6 1/8"	–

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG. - SIZE AND DEPTH	ELEVATIONS
Gaza #63	–	7", 26# @ 4910	GL: KB:

OPERATION AT REPORT TIME: WO new (rented) BOP

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. - 6ths T	B	G

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. I.C.M

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD			DEVIATION RECORD		TIME BREAKDOWN					
BIT WEIGHT			° at	ft.						
ROTARY RPM			° at	ft.						
STAND PIPE PRESSURE			° at	ft.						
PUMP NO. 1	MAKE	MODEL	° at	ft.						
LINER	BORE	STROKE	BOTTOM HOLE ASSEMBLY							
STROKES PER MINUTE				ft.						
PUMP NO. 2	MAKE	MODEL		ft.						
LINER	BORE	STROKE		ft.						
STROKES PER MINUTES				ft.						
CIRCULATION RATE (GPM)				ft.						
ANN. VEL. DP	DC			ft.						

DRLG. BREAKS/TEST RESULTS

Con't BOP. Went to change rams in BOP to 3 1/2" from 5 1/2". Rams were for a Schaeffer BOP not a Cameron. Ordered a 11", 3000 psi BOP from Weatherford in Vernal. Should be on location @ 8:30 AM PST. Nipple down Cameron 5000 BOP and DSA.

REMARKS-ACTIVITY

Costs
Rig 8800
Welder 462
Water 1275
Supr. 400

Cutoff drybole marker, 7" casing even with 9 5/8" casing. Trimmed 7" casing and welded on a 3 1/2" piece w/a collar looking up. Cut a 2' piece of 9 5/8" casing and welded a reconditioned 9 5/8" x 11" x 3000 psi wellhead on to 9 5/8" cutoff. Outlets on wellhead are plugged w/ bull plug and nipple w/ ball valve. Put 9 5/8" wellhead and cutoff over 7" casing and welded on to existing 9 5/8". Let weld cool and screwed a joint of 7" into 7" collar looking up. Pulled on 7", had 1/2" movement. Set 7" slips (C22) w/ 12,000 lbs tension. Unscrewed 7" casing, cut off 7" casing and nippled up a 7 1/16" reconditioned 3000 psi tubing head. Both outlets have nipples and ball valves. Nippled up 7 1/16" x 12", 5000 psi DSA. Nippled up Cameron 5000 psi Con

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
0	0	10937	15,370	Pat Cain

WHITE COPY (ORIGINAL) – FIELD COPY YELLOW COPY – WELL FILE – LAKEWOOD

FORELAND CORPORATION

MORNING DRILLING REPORT

LEASE AND WELL NUMBER	DATE	DAYS FROM SPUD	DEPTH
Ghost Ranch 58-35	Wed. 7/29/98	0	–

FOOTAGE LAST 24 Hours	HRS. DRLG.	R.O.P.	HOLE SIZE	FORMATION DISCRIPTION
0	0	0	6 1/8"	–

CONTRACTOR AND RIG NO	SPUD DATE	LAST CSG - SIZE AND DEPTH	ELEVATIONS
Caza #63	–	7" @ 4610'	GL: KB:

OPERATION AT REPORT TIME: Cutting off drylhole marker

BIT RECORD

BIT NO.	SIZE	MAKE	TYPE	JET NOZZLES 32nds			SERIAL NUMBER	NEW OR RR	DEPTH OUT	DEPTH IN	FOOTAGE	HOURS	FEET PER HOUR	DULL COND. T	B	G

MUD RECORD

SAMPLE TIME	DEPTH	WT.	GRAD.	VIS.	PV / YP	GELS	PH	WL	CAKE	Pm	Pf / Mf	CHLOR.	CALC.	% SAND	% SOLIDS	% OIL	% WATER	LBS. LCM

MUD & CHEMICALS ADDED IN LAST 24 HRS.

HYDRAULICS RECORD			DEVIATION RECORD	TIME BREAKDOWN	
BIT WEIGHT			° at ft.		
ROTARY RPM			° at ft.		
STAND PIPE PRESSURE			° at ft.	DRLG. BREAKS/TEST RESULTS	
PUMP NO. 1	MAKE	MODEL	° at ft.		
LINER	BORE	STROKE	BOTTOM HOLE ASSEMBLY		
STROKES PER MINUTE			ft.		
PUMP NO. 2	MAKE	MODEL	ft.		
LINER	BORE	STROKE	ft.		
STROKES PER MINUTES			ft.		
CIRCULATION RATE (GPM)			ft.		
ANN. VEL. DP DC			ft.		

REMARKS-ACTIVITY

Costs
Rig 4033
Spr. 400

Accepted Caza Rig #63 @ 8:00 pm Tuesday 7/28/98.
Dug rathole + mousehole, dug out cellar.
Waited on daylight to start cutting off drylhole marker.
Load pipe racks w/BHA, dug out 3½" DC from pipe tubs.

DAILY MUD COST	CUM. MUD	DAILY COST	CUMULATIVE COST	REPORTED BY
–	–	4433	4433	Pat Cain

WHITE COPY (ORIGINAL) – FIELD COPY YELLOW COPY - WELL FILE – LAKEWOOD

RECEIVED
BUR. OF LAND MANAGEMENT
NEVADA STATE OFFICE
98 JUN 15 AM 8:00

STATE OF NEVADA
DEPT. OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-5 (June 1990)	SUBMIT IN TRIPLICATE	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993	5. LEASE DESIGNATION AND SERIAL NO. NVN-42341

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATION

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER [ ]

8. WELL NAME AND NO. Ghost Ranch Fed. 58-35

2. NAME OF OPERATOR Eagle Springs Production, L.L.C.

9. API WELL NO. 27-023-05544

3. ADDRESS AND TELEPHONE NO. (801)298-9866
2561 South 1560 West, Suite 200, Woods Cross, UT 84087

10. FIELD AND POOL, OR EXPLORATORY AREA Ghost Ranch

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description)
395.05 FSL, 2090.51 FEL, Sec. 35, T9N, R57E, MDB&M

11. COUNTY OR PARISH, STATE Nye County, NV

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] NOTICE OF INTENT	[ ] ABANDONMENT	[ ] CHANGE OF PLANS
	[ ] RECOMPLETION	[ ] NEW CONSTRUCTION
[ ] SUBSEQUENT REPORT	[ ] PLUGGING BACK	[ ] NON-ROUTINE FRACTURING
	[ ] CASING REPAIR	[ ] WATER SHUT-OFF
[ ] FINAL ABANDONMENT NOTICE	[ ] ALTERING CASING	[ ] CONVERSION TO INJECTION
	[X] OTHER Re-Enter & Deepen	[ ] DISPOSE WATER

(NOTE: REPORT RESULTS OF MULTIPLE COMPLETION ON WELL COMPLETION OR RECOMPLETION REPORT AND LOG FORM.)

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

Eagle Springs Production, L.L.C. proposes to re-enter and deepen the subject well. Please refer to the attached prognosis for procedure.

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

SIGNED Bruce Decker TITLE Bruce C. Decker, Manager DATE 06/11/98

(This space for Federal or State office use)

PERMIT NO _____ APPROVAL DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

APPROVING AGENCY: [ ] Nevada Division Of Minerals [ ] Bureau of Land Management

APPROVED BY _____ TITLE DSD, Minerals DATE 7-16-98

THIS FORM MUST BE SUBMITTED TO BOTH THE NEVADA DIVISION OF MINERALS AND THE BUREAU OF LAND MANAGEMENT FOR ANY OPERATION LOCATED ON FEDERAL LANDS. EACH AGENCY MUST APPROVE THE APPLICATION.

*See Instructions On Reverse Side

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

Date: May 10, 1998

To: File

Re: Procedure to Re-enter & Deepen Ghost Ranch 58-35

From: David Greene

Introduction

The GR 58-35 was drilled in the early fall of 1996 as an easterly extension well targeting the slide-block reservoir discovered by the GR 48-35 exploratory well in the summer of 1996. The GR 58-35 penetrated the target horizon, but did not encounter the productive Ghost Ranch slide block reservoir, a dolomitized carbonate thought to be of Devonian age. Instead, the GR 58-35 encountered a limestone, thought to be a slide block of the Permian age Reipe Springs Formation. This limestone had heavy, tarry oil shows, but flowed at approximately 4 BPM with a water cut in excess of 99%. The GR 58-35 was plugged and abandoned as a dry hole on November 15, 1996. Current plans are to re-enter and deepen the GR 58-35 as a westerly extension well targeting the sub-unconformity A reservoir (thought to be limestone of the Pennsylvanian Ely Formation) discovered by the SD 88-35 in the spring of 1998.

Current Well Data

Well Name:	Ghost Ranch 58-35
API No.:	27-023-05544
Drlg Prmts:	Federal: NV 475, Nevada: 789.
Lease:	NVN-42341
Location:	surface: 395' FSL x 2090' FEL (SW/SW/SE) Sec. 35, T 9 N, R 57 E. bottom hole: 412' FSL x 2119' FEL (SW/SW/SE) Sec. 35, T 9 N, R 57 E. Railroad Valley, Nye County, Nevada.
Elevations:	GL=4746' S.L., KB=4763' S.L.
Depths:	TD=4781' KB (measured), 4779' KB (true vertical)
Casing:	surface: 13 jts, 9-5/8", 36#, J-55, ST&C, set @ 504' in 12-1/4" hole w/ 240 sx cmt. production: 108 jts, 7", 26#, J-55 LT&C, set @ 4610' in 8-3/4" hole w/ 200 sx 50:50 poz. Cmt top @ approx.3837'.
Plugs:	surface: 10 sx, plug from surface to 72'. base of surface casing: 4 perfs 495' to 496', CICR @ 467',75 sx below & 5 sx above, plug from 439' to 496'. base of Valley Fill: CICR @ 4437', 27 sx below & 9 sx above, plug from 4487' to 4687'.

Procedure to Re-enter & Deepen

1. Remove dry hole marker, install casing head, re-open mud pit, grade location, drill mouse & rat holes, dig sanitation holes. Notify State of Nevada or BLM of expected spud date.

2. Move-in & rig-up drilling rig.

3. Spud into 7", 26# casing w/ 6-1/8" bit & scraper. Drill out cmt & CICR &clean-out 7" csg to CICR at 4537' using water & reverse circulation. TOH w/ bit & scraper.

4. Notify appropriate governmental authorities of time for BOP test. Nipple-up BOPE Test BOP and choke manifold to 1800 psi, or as directed Minimum BOPE will be used as described in federal and state drilling permits NV-475 & 789, respectively.

5. TIH w/ 6-1/8" bit & drill out CICR and cmt to original TD at 4781'. Dump contaminated mud to reserve pit and switch to LSND polymer based mud system.

6. Trip to pick up stiff bottom hole assembly made-up with a 437 type bit, near bit IBS, short drill collar, string IBS, drill collar, and string IBS.

7. Drill 6-1/8" hole to new PTD of 7500' following recommended bit & mud programs, keeping solids at a minimum for minimum mud weight. Monitor deviation with Teledrift, run tool on trips for confirmation. Use BHA as determined by well site personnel.

8. At 7500' condition mud & hole. Run open-hole logging program and evaluate well for completion or P&A.

9. If well is to be completed, a liner of 5-1/2" 15.5# J-55 flush joint will be hung in the 7" 26# J-55 LT&C and cemented with approximately 120' of overlap.

10. If the well is dry, notify all concerned parties and appropriate government personnel. P&A according to government requirements.

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
http://www.state.nv.us/b&i/minerals/
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
2501 E. Sahara Avenue
Suite 206
Las Vegas, Nevada 89104
(702) 486-4343
Fax (702) 486-4345

CLAUDIA K. CORMIER
Director

ALAN R. COYNER
Administrator

July 14, 1998

Bruce Decker
Eagle Springs Production LLC.
2561 South 1560 West #200
Woods Cross, UT 84087

Dear Mr. Decker:

Enclosed is your approved sundry notice titled "Notice of Intent to Re-enter & Deepen" Well No. 58-35. The American Petroleum Institute (API) number is 27-023-05544, and the Nevada Division of Minerals (NDOM) permit number is 789. Please use both of these numbers when filing reports and logs for the Re-entry portion of Well No. 58-35.

Samples shall be collected on 10 ft. intervals from the shoe of the 7 inch casing set at 4,527 ft. to total depth. A minimum of two sets of cuttings per sampling interval must be sent to the Nevada Bureau of Mines and Geology.

Permit No. 789 was originally approved on September 6, 1996 with a stipulation that the bottom hole location be verified by a survey and must be 330 ft. from the boundary line between Section 35 and Section 2 of the next township south. This requirement is set forth in Docket No. 1-OG-94-NY, Order No. 94-1, which governs well density in the NE¼ of Section 34, Section 35, and Section 36 of T.9N, R.57E, M.D.B.&M, Nye County, Nevada.

Enclosed for your reference are copies of the September 6, 1996 permit approval letter and Order No. 94-1, both of which continue to be applicable for the Re-entry of Well #58-35.

Your continued professional cooperation with the Nevada Division of Minerals requirements while drilling and developing oil wells in Nevada is appreciated. If I can be of further assistance on this or any other related matter you can contact me at (702) 687-5050.

Sincerely,

John H. Snow

John H. Snow
Oil, Gas, Geothermal Programs Manager

JHS:lw

cc: Makoil
BLM - Reno - Steve Wells
BLM - Ely - John Stout

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
4220 S. Maryland Pkwy.
Suite 304
Las Vegas, Nevada 89119
(702) 486-7250
Fax (702) 486-7252

RUSSELL A. FIELDS
Administrator

September 6, 1996

Bruce Decker
Manager
Eagle Springs Production, LLC
2561 South 1560 West #200
Woods Cross, UT 84087

Re: Ghost Ranch Federal #58-35, Permit #789

Dear Mr. Decker:

With this letter, I am sending the original signed permit for Eagle Springs Production's Ghost Ranch Federal #58-35, Permit #789, located in Nye, Nevada. This permit will expire on September 6, 1998, in the event the well is not drilled.

During drilling, upon completion of the well, and during production (if applicable), submission of certain forms and other actions are required as described in the Nevada Regulations and Rules of Practice and Procedure. Most of these requirements are summarized in the enclosed permit conditions.

It will be required, with permit #789, that the bottom hole location be verified by a survey and must be 330 feet from the boundary line between Section 35 and Section 2 of the next township south.

Please be advised that samples of cuttings shall be collected at 30' intervals from surface to the surface casing point, and on 10' intervals from the surface casing shoe to total depth. A minimum of two sets of cuttings per sampling interval must be sent to the Nevada Bureau of Mines and Geology.

Sincerely,

Russ Fields

RF:lw
Enclosures

cc: Steve Wells, BLM, Nevada State Office
John Stout, BLM, Ely District Office
Nevada Bureau of Mines and Geology

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050 • Fax (702) 687-3957

BOB MILLER
Governor

LAS VEGAS BRANCH:
4220 S. Maryland Pkwy.
Suite 304
Las Vegas, Nevada 89119
(702) 486-7250
Fax (702) 486-7252

RUSSELL A. FIELDS
Administrator

Eagle Springs Field	)	
Railroad Valley, Nye County	)	
Description: Section 34: NE¼	)	DOCKET NO. 1-OG-94-NY
Section 35: ALL	)	
Section 36: ALL	)	
T.9N, R.57E	)	

ORDER NO. 94-1

The Administrator of the Nevada Division of Minerals within the Department of Business and Industry has evidence that a higher well density than would be allowed under NAC 522.235 in the Eagle Springs Field is reasonable due to reservoir formation porosity, faulting and related oil drainage issues which may effect the economic recovery and the conservation of oil. A field spacing of not to exceed 16 wells per 160 acre spacing unit (quarter section), based on bottom hole location, in the NE¼ Section 34, ALL Section 35, ALL Section 36, T.9N, R.57E, in the Eagle Springs field will be allowed by the Division.

An offset of 330 feet from quarter section lines would apply, pursuant to NAC 522.235, subsection 2. Drilling inside 330 feet of a quarter section line would require an exception approval from the Division of Minerals.

Individual well spacing for the Eagle Springs field is subject to review by the Administrator upon each individual well application to determine whether a particular well or wells may result in economic waste or waste of hydrocarbon resources. If it is determined by the Administrator that a particular well or wells will result in waste, the Administrator may override this Order and deny the application to drill the well or wells which would, in the opinion of the Division, lead to waste.

3/29/94
Date

Russell A. Fields
Russell A. Fields,
Administrator

\ordegle\

RECEIVED

JUN 15 1998

DIV. OF MINERALS

STATE OF NEVADA
DEPT. OF BUSINESS AND INDUSTRY
DIVISION OF MINERALS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-5 (June 1990)	SUBMIT IN TRIPLICATE	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993	5. LEASE DESIGNATION AND SERIAL NO. NVN-42341

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATION

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER [ ]

8. WELL NAME AND NO. Ghost Ranch Fed. 58-35

2. NAME OF OPERATOR Eagle Springs Production, L.L.C.

9. API WELL NO. 27-023-05544

3. ADDRESS AND TELEPHONE NO. (801)298-9866 2561 South 1560 West, Suite 200, Woods Cross, UT 84087

10. FIELD AND POOL, OR EXPLORATORY AREA Ghost Ranch

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description) 395.05 FSL, 2090.51 FEL, Sec. 35, T9N, R57E, MDB&M

11. COUNTY OR PARISH, STATE Nye County, NV

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] NOTICE OF INTENT	[ ] ABANDONMENT	[ ] CHANGE OF PLANS
	[ ] RECOMPLETION	[ ] NEW CONSTRUCTION
[ ] SUBSEQUENT REPORT	[ ] PLUGGING BACK	[ ] NON-ROUTINE FRACTURING
	[ ] CASING REPAIR	[ ] WATER SHUT-OFF
[ ] FINAL ABANDONMENT NOTICE	[ ] ALTERING CASING	[ ] CONVERSION TO INJECTION
	[X] OTHER Re-Enter & Deepen	[ ] DISPOSE WATER

(NOTE: REPORT RESULTS OF MULTIPLE COMPLETION ON WELL COMPLETION OR RECOMPLETION REPORT AND LOG FORM.)

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

Eagle Springs Production, L.L.C. proposes to re-enter and deepen the subject well. Please refer to the attached prognosis for procedure.

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

SIGNED Bruce C. Decker TITLE Bruce C. Decker, Manager DATE 06/11/98

(This space for Federal or State office use)

PERMIT NO 789 APPROVAL DATE 9/6/96

CONDITIONS OF APPROVAL, IF ANY: see attached letter, dated 7/14/98

APPROVING AGENCY: [X] Nevada Division Of Minerals [ ] Bureau of Land Management

APPROVED BY (Sgd) John H. Snow TITLE Oil, Gas, Geo Programs Mgr. DATE July 14, 1998

THIS FORM MUST BE SUBMITTED TO BOTH THE NEVADA DIVISION OF MINERALS AND THE BUREAU OF LAND MANAGEMENT FOR ANY OPERATION LOCATED ON FEDERAL LANDS. EACH AGENCY MUST APPROVE THE APPLICATION.

*See Instructions On Reverse Side

TITLE 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements

Date: May 10, 1998

To: File

Re: Procedure to Re-enter & Deepen Ghost Ranch 58-35

From: David Greene

Introduction

The GR 58-35 was drilled in the early fall of 1996 as an easterly extension well targeting the slide-block reservoir discovered by the GR 48-35 exploratory well in the summer of 1996. The GR 58-35 penetrated the target horizon, but did not encounter the productive Ghost Ranch slide block reservoir, a dolomitized carbonate thought to be of Devonian age. Instead, the GR 58-35 encountered a limestone, thought to be a slide block of the Permian age Reipe Springs Formation. This limestone had heavy, tarry oil shows, but flowed at approximately 4 BPM with a water cut in excess of 99%. The GR 58-35 was plugged and abandoned as a dry hole on November 15, 1996. Current plans are to re-enter and deepen the GR 58-35 as a westerly extension well targeting the sub-unconformity A reservoir (thought to be limestone of the Pennsylvanian Ely Formation) discovered by the SD 88-35 in the spring of 1998.

Current Well Data

Well Name:	Ghost Ranch 58-35
API No.:	27-023-05544
Drlg Prmts:	Federal: NV 475, Nevada: 789.
Lease:	NVN-42341
Location:	surface: 395' FSL x 2090' FEL (SW/SW/SE) Sec. 35, T 9 N, R 57 E. bottom hole: 412' FSL x 2119' FEL (SW/SW/SE) Sec. 35, T 9 N, R 57 E. Railroad Valley, Nye County, Nevada.
Elevations:	GL=4746' S.L., KB=4763' S.L.
Depths:	TD=4781' KB (measured), 4779' KB (true vertical)
Casing:	surface: 13 jts, 9-5/8", 36#, J-55, ST&C, set @ 504' in 12-1/4" hole w/ 240 sx cmt. production: 108 jts, 7", 26#, J-55 LT&C, set @ 4610' in 8-3/4" hole w/ 200 sx 50:50 poz. Cmt top @ approx.3837'.
Plugs:	surface: 10 sx, plug from surface to 72'. base of surface casing: 4 perfs 495' to 496', CICR @ 467',75 sx below & 5 sx above, plug from 439' to 496'. base of Valley Fill: CICR @ 4437', 27 sx below & 9 sx above, plug from 4487' to 4687'.

Procedure to Re-enter & Deepen

1. Remove dry hole marker, install casing head, re-open mud pit, grade location, drill mouse & rat holes, dig sanitation holes. Notify State of Nevada or BLM of expected spud date.

2. Move-in & rig-up drilling rig.

3. Spud into 7", 26# casing w/ 6-1/8" bit & scraper. Drill out cmt & CICR &clean-out 7" csg to CICR at 4537' using water & reverse circulation. TOH w/ bit & scraper.

4. Notify appropriate governmental authorities of time for BOP test. Nipple-up BOPE Test BOP and choke manifold to 1800 psi, or as directed Minimum BOPE will be used as described in federal and state drilling permits NV-475 & 789, respectively.

5. TIH w/ 6-1/8" bit & drill out CICR and cmt to original TD at 4781'. Dump contaminated mud to reserve pit and switch to LSND polymer based mud system.

6. Trip to pick up stiff bottom hole assembly made-up with a 437 type bit, near bit IBS, short drill collar, string IBS, drill collar, and string IBS.

7. Drill 6-1/8" hole to new PTD of 7500' following recommended bit & mud programs, keeping solids at a minimum for minimum mud weight. Monitor deviation with Teledrift, run tool on trips for confirmation. Use BHA as determined by well site personnel.

8. At 7500' condition mud & hole. Run open-hole logging program and evaluate well for completion or P&A.

9. If well is to be completed, a liner of 5-1/2" 15.5# J-55 flush joint will be hung in the 7" 26# J-55 LT&C and cemented with approximately 120' of overlap.

10. If the well is dry, notify all concerned parties and appropriate government personnel. P&A according to government requirements.

Linda,
Please file this with
Forelands 58-35 well.

RECEIVED
JUN 23 1997
NBMG Information Office

FORELAND CORPORATION

Oil and Gas Exploration and Development

RECENT PRESS RELEASES

- October 28, 1996 - FORELAND CORPORATION ANNOUNCES GHOST RANCH DRILLING RESULTS
- October 3, 1996 - FORELAND CORPORATION ANNOUNCES COMMENCEMENT OF DRILLING OPERATIONS ON SECOND GHOST RANCH WELL
- September 16, 1996 - FORELAND CORPORATION SETS CASING TO TEST OIL SHOWS IN PINE CREEK EXPLORATORY WELL
- August 20, 1996 - FORELAND CORPORATION ANNOUNCES 700 BARREL PER DAY TEST RATE FROM GHOST RANCH DISCOVERY WELL
- July 25, 1996 - FORELAND CORPORATION ANNOUNCES NEW OIL DISCOVERY IN NEVADA
- July 10, 1996 - FORELAND CORPORATION ANNOUNCES COMMENCEMENT OF DRILLING OPERATIONS AND COMPLETION OF FUNDING
- June 17, 1996 - FORELAND CITED FOR EXCELLENCE BY U.S. BUREAU OF LAND MANAGEMENT

FORELAND CORPORATION ANNOUNCES GHOST RANCH DRILLING RESULTS

Casing Set in Second Well at Railroad Valley Field

LAKEWOOD, COLORADO -- October 28, 1996 -- Foreland Corporation (NASDAQ: FORL) announced today that production casing has been set to total depth at the Ghost Ranch #58-35 well. After the well was drilled to 4782', it was logged and a number of sidewall cores with good to excellent oil shows were collected. Completion activities will begin in approximately 10 days after the drilling rig is moved off location.

"The well data indicate that the formation has excellent porosity and permeability and is heavily fractured." stated Mr. Tom Steele, President of Foreland. "Based on the

results of this well, Foreland will continue its drilling program at Ghost Ranch this year."

The Ghost Ranch #58-35 is the first offset to the Ghost Ranch #48-35 discovery well, which was tested at an average of approximately 700 barrels of oil per day during simulated production testing which included hot diesel injection and swabbing. The well has since produced up to 500 barrels of oil per day during extending flow testing. Tank battery construction at the #48-35 should be completed within two weeks.

"This well further confirms the utility of 3D seismic in Nevada for both exploration and development drilling" added Mr. Steele. "3D seismic was used not only to locate the #58-35 well, but was initially instrumental in defining Ghost Ranch as an exploration target."

Foreland has a 60% working interest at Ghost Ranch and is the operator. Plains Petroleum Operating Co., a wholly owned subsidiary of Barrett Resources (NYSE: BRR) has the remaining 40% working interest.

Foreland is the most active oil exploration and development company in north-central Nevada. The company has exploration rights to over 640,000 acres across a number of prospective valleys.

For further information, contact the company or visit our Internet web page at www.foreland.com.

FORELAND CORPORATION ANNOUNCES COMMENCEMENT OF DRILLING OPERATIONS ON SECOND GHOST RANCH WELL

Completion Schedule for Company's Pine Creek Well Also Announced

LAKEWOOD, COLORADO -- October 3, 1996 -- Foreland Corporation (NASDAQ: FORL) announced today that the drilling rig for the Ghost Ranch #58-35 is moving on location and that drilling will start within 24 hours. The Ghost Ranch #58-35 is the first offset to the Ghost Ranch #48-35 discovery well, which was tested at an average of approximately 700 barrels of oil per day during simulated production testing which included hot diesel injection and swabbing. During the last 30 days, while awaiting the installation of surface production equipment, the well has been flow tested at a continuously increasing rate from 160 to nearly 500 barrels of oil per day. The company will continue to flow test the well until the surface production equipment is installed, at which time the company will evaluate whether to continue to flow the well or install a pump. Tank battery construction should be completed within a month. Foreland has a 60% working interest in the Ghost Ranch well and is the operator. Plains Petroleum Operating Co., a wholly owned subsidiary of Barrett Resources (NYSE: BRR) has the remaining 40% working interest.

In other news, the Company also announced that a completion rig will be moving onto the Pine Creek #1-7 well within a week to test oil and gas shows encountered in several zones. The Pine Creek well, which is the company's second exploratory well this year, was drilled to a depth of 9700'. Casing was set to total depth to test show zones in the Devonian carbonates and the Tertiary section. Foreland has a 56.25% working interest and is operator of this well. The Pine Creek well is located six miles north of the Blackburn oil field which also produces from the Devonian carbonates. The well is also within six miles of the North Willow Creek and Three Bar fields. Testing is expected to last one month or more. Test results will be released when all

testing is completed.

For further information, contact the company or visit our Internet web page at www.foreland.com.

FORELAND CORPORATION SETS CASING TO TEST OIL SHOWS IN PINE CREEK EXPLORATORY WELL

New Location at Company's Ghost Ranch Field also Announced

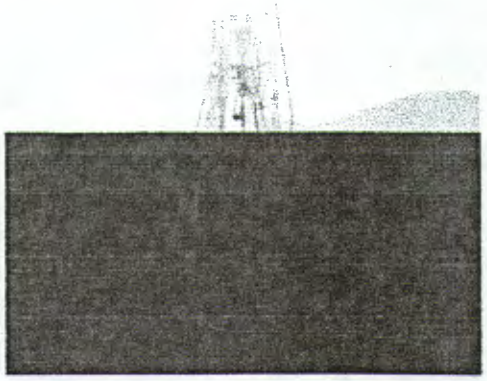
LAKEWOOD, COLORADO -- September 16, 1996 -- Foreland Corporation (NASDAQ: FORL) announced today that the Pine Creek #1-7 exploratory well, located in Eureka County, Nevada, has been drilled to 9700' and casing has been run to total depth. The well encountered numerous oil and gas shows in several formations including the Tertiary volcanics, which are productive at the Company's Eagle Springs Field, and the Devonian carbonates, which are the reservoir at the Company's recent Ghost Ranch discovery. Although drill stem tests of three different zones were inconclusive, oil was found in numerous sidewall cores on intervals from about 5400' to 9600'. The Company is currently designing a testing program to thoroughly evaluate each of these zones. Testing is expected to begin in about two weeks. Foreland has a 56.25% working interest and is operator of this well. The Pine Creek well is located six miles north of the Blackburn oil field which also produces from the Devonian carbonates. The well is also within six miles of the North Willow Creek and Three Bar fields. This is the second exploratory well drilled by Foreland in 1996.

In other news, the Company announced that permits have been submitted for the second well at the Company's Ghost Ranch field. The Ghost Ranch #58-35 is immediately east of the discovery well and is being permitted to 4800'. The Company anticipates spudding this well in early October. The Ghost Ranch #48-35 well, which produced an average of approximately 700 barrels of oil per day during simulated production testing, is the Company's first well with production from the Devonian carbonates, which are typically prolific producers in Nevada. The Company also has staked several additional drilling locations on the Ghost Ranch structure. The Ghost Ranch well was the Company's first exploratory well in 1996. Foreland has a 60% working interest in the Ghost Ranch well and is the operator. Plains Petroleum Operating Co., a wholly owned subsidiary of Barrett Resources (NYSE: BRR) has the remaining 40% working interest.

Foreland also announced today that it has established a web page on the internet. Located at www.foreland.com, the site is designed to give investors information on the company including the latest press releases and corporate news.

FORELAND CORPORATION ANNOUNCES 700 BARREL PER DAY TEST RATE FROM GHOST RANCH DISCOVERY WELL

Company's Pine Creek Prospect Also Continues Drilling in Productive Pine Valley Area



LAKEWOOD, COLORADO -- August 20, 1996 -- Foreland Corporation (NASDAQ: FORL) announced today that the Ghost Ranch #48-35 produced an average of approximately 700 barrels of oil per day during simulated production testing. The Ghost Ranch well is the Company's first well with production from the Devonian carbonates, which are typically prolific producers in Nevada. "This production rate exceeds our original prognosis on the potential of this well" stated Tom Steele, President of Foreland. "This level of production assures the long term continuation of our aggressive exploration program." The stabilized production rate will be used to finalize the design of the production facility, which should be installed within 60 days. The Company also has staked several additional drilling locations on the Ghost Ranch structure. The Ghost Ranch well was the Company's first exploratory well in 1996. Foreland has a 60% working interest in the Ghost Ranch well and is the operator. Plains Petroleum Operating Co., a wholly owned subsidiary of Barrett Resources (NYSE: BRR) has the remaining 40% working interest.

Foreland also announced today that drilling continues at the Pine Creek #1-7 exploratory well located in Eureka County, Nevada. The well will evaluate numerous potential pay zones including the Devonian carbonates. The well is permitted to a depth of 9000' and is located six miles north of the Blackburn oil field which also produces from the Devonian carbonates. The well is also within six miles of the North Willow Creek and Three Bar fields. This is the second exploratory well to be drilled by Foreland in 1996.

Foreland Corporation explores and develops oil reserves in the Basin and Range geological province of Nevada. The Company has established itself as the most knowledgeable operator in a region that has the potential for one of the richest domestic oil strikes in decades. The Company has experienced sharp rises in revenues over the past two years, with 1995 revenues having increased more than 1000% over 1993 levels.

FORELAND CORPORATION ANNOUNCES NEW OIL DISCOVERY IN NEVADA

Company's First 3-D Seismic Defined Exploration Target Yields Oil on Drill Stem Test

LAKEWOOD, COLORADO -- July 25, 1996 -- Foreland Corporation (NASDAQ: FORL) today announced that oil has been recovered from a drill stem test of a Devonian carbonate section at the company's Ghost Ranch #48-35 exploratory well. The Company added that casing will be set to total depth and further testing will begin immediately after the drilling rig is moved off location to determine production rates.

The oil from the Ghost Ranch well is reported to be between 12° and 15° API gravity. In addition, a small amount of gas and no water was also reported from this test. The Ghost Ranch well has reached a total depth of 4500' and has been logged with an extensive suite of well logs. The well is located one-half mile north of the Kate Spring field, in Nye County, Nevada which produces from the same horizons that tested oil in the Ghost Ranch well. The Devonian section in the Ghost Ranch well is approximately 100' higher than in the Kate Spring field.

This is the first exploration well drilled by the Company using 3-D seismic to define the drilling location. To date, use of 3-D seismic data has resulted in a 100% success ratio for development drilling at Eagle Springs Field (eight out of eight wells). "Now, 3-D seismic has proven its value as an exploratory tool in Nevada" stated Tom Steele, President of Foreland. "Future exploration in Nevada will certainly utilize more 3-D seismic to improve the success ratio for exploratory wells."

Foreland has a 60% working interest in this well and is the operator. Barrett Resources (NYSE: BRR) has the remaining 40% working interest. This was the first well drilled in the Company's 1996 exploration program.

The Company also announced that pad construction for the second exploratory well in the 1996 program, the Pine Creek well, has begun. This well is scheduled to begin drilling before the end of July. This prospect is located in Pine Valley, Nevada and is within four miles of three producing fields, including Foreland's North Willow Creek field, and the Blackburn and Three-Bar fields. The Company is currently reevaluating its remaining drilling schedule in light of the success at the Ghost Ranch well.

FORELAND CORPORATION ANNOUNCES COMMENCEMENT OF DRILLING OPERATIONS AND COMPLETION OF FUNDING

Company Begins 1996 Drilling Program with 3-D Seismic Defined Exploration Target

LAKEWOOD, COLORADO -- July 10, 1996 -- Foreland Corporation (NASDAQ: FORLD) today announced that drilling operations have begun on the Ghost Ranch #48-35 exploratory well. This 3-D seismic defined target is located one-half mile south of the Company's Eagle Springs Field in Nye County, Nevada. The well is located one-half mile north of the Kate Spring field, which produces from the same horizons that are targeted in the Ghost Ranch well. Foreland has a 60% working interest in this well and is the operator. Barrett Resources has the remaining 40% working interest. This is the first well to be drilled in the Company's 1996 exploration program.

The second exploratory well in the 1996 program, the Pine Creek well, is scheduled to begin drilling before the end of July. This prospect is located in Pine Valley, Nevada and is within four miles of three producing fields, including Foreland's North Willow Creek field, and the Blackburn and Three-Bar fields. The Company is also scheduling a number of additional exploratory and development wells during the remainder of 1996. Further announcements will be made when schedules are finalized.

In a related matter, the Company has successfully negotiated an agreement to terminate an exploration agreement with Enserch Exploration and Berry Petroleum. Enserch has elected not to continue exploration in Nevada due to recent management changes with that company. Under the new agreement, Enserch and Berry are required to assign their interest in 46,400 gross acres in Pine, Antelope and Little Smoky

valleys. Foreland also received all of the rights, title, and interest to over 57 line miles of jointly acquired seismic data in those valleys, originally acquired for $400,000, in addition to a license to over 61 miles of Enserch and Berry proprietary seismic. Foreland also received the option to acquire an additional 100 miles of seismic in Pine Valley, Nevada.

The Company also announced that it has completed $3,400,000 in equity financing through the placement of preferred and common stock to fund its 1996 planned drilling activities. The placement involved the sale of common stock as well as 1996 Preferred Stock which is convertible into common stock. This most recent placement brings to $5,100,000 million the total funding completed by Foreland since March 31, 1996. Foreland has agreed to register resale of the common stock issuable on conversion of the preferred stock and the common stock sold in the placement.

FORELAND CITED FOR EXCELLENCE BY U.S. BUREAU OF LAND MANAGEMENT

Company Upholds Strict Environmental Policy While Increasing Production

LAKEWOOD, COLORADO -- June 17, 1996 -- Foreland Corporation (NASDAQ: FORL) today announced that it was honored for its clean up and restoration efforts at its Eagle Springs Field in Central Nevada by the U.S. Department of the Interior's Bureau of Land Management.

Foreland was presented with the first ever "Health of the Land" award by Mike Dombeck, Director of the Bureau of Land Management, at the National Petroleum Exposition & Workshop in Las Vegas, Nevada on June 11, 1996. The award recognizes oil and gas producing companies that demonstrate acute concern for the protection of the environment. Ben Dillon, Director of the Independent Petroleum Association of America, announced Foreland's remediation of its Eagle Springs Field, polluted by the property's former operator, was "a shining example of the job the industry is capable of doing on federal lands."

Ken Ransom, Foreland's Vice President of Exploration, stated "We are honored to be selected as the first recipient of this award. Close cooperation between Foreland and the various federal and state governmental regulatory agencies has allowed us to develop a valuable asset which was otherwise in jeopardy."

Foreland has more than quadrupled production at Eagle Springs Field. A 3-D seismic defined development drilling program has resulted in eight successful wells in eight attempts. Continued development drilling scheduled for the next several years at Eagle Springs field will result in further increases in production.

Mr. Ransom continued, "In addition to the increased production we have realized from our development program, our 3-D seismic data have been used to identify an exploration prospect on Foreland acreage near the field." This prospect, identified as the Ghost Ranch prospect, is one the first wells anticipated to be drilled this year in Foreland's Nevada exploration program containing five to six exploratory "elephant-sized" prospects. Two of these, the Ghost Ranch and Pine Creek prospects, are located near producing fields, while another, the Deadman Creek prospect, has already tested oil.

Foreland explores and develops oil reserves in the Great Basin & Range geological province of Nevada. The Company has established itself as the most knowledgeable

operator in a region that has the potential for one of the richest domestic oil strikes in decades. The Company has experienced sharp rises in revenues over the past two years, with 1995 revenues having increased more than 1000% over 1993 levels.

FORELAND CORPORATION
Union Terrace Office Building
12596 West Bayaud, Suite 300
Lakewood, Colorado 80228
(303) 988-3122

The Foreland Corporation - Copyright ©1996

Website developed by *mktplace.net inc.*

GHOST RANCH	58-35	1	4585.2 - 4642.0	EAGLE SPRINGS PRODUCTION LLC
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME

LEGAL LOCATION SEC. - THP. - RNG.	35 - 9 N - 57 E	FIELD AREA	GHOST RANCH	COUNTY	NYE	STATE	NEVADA

559

EAGLE SPRINGS PRODUCTION LLC

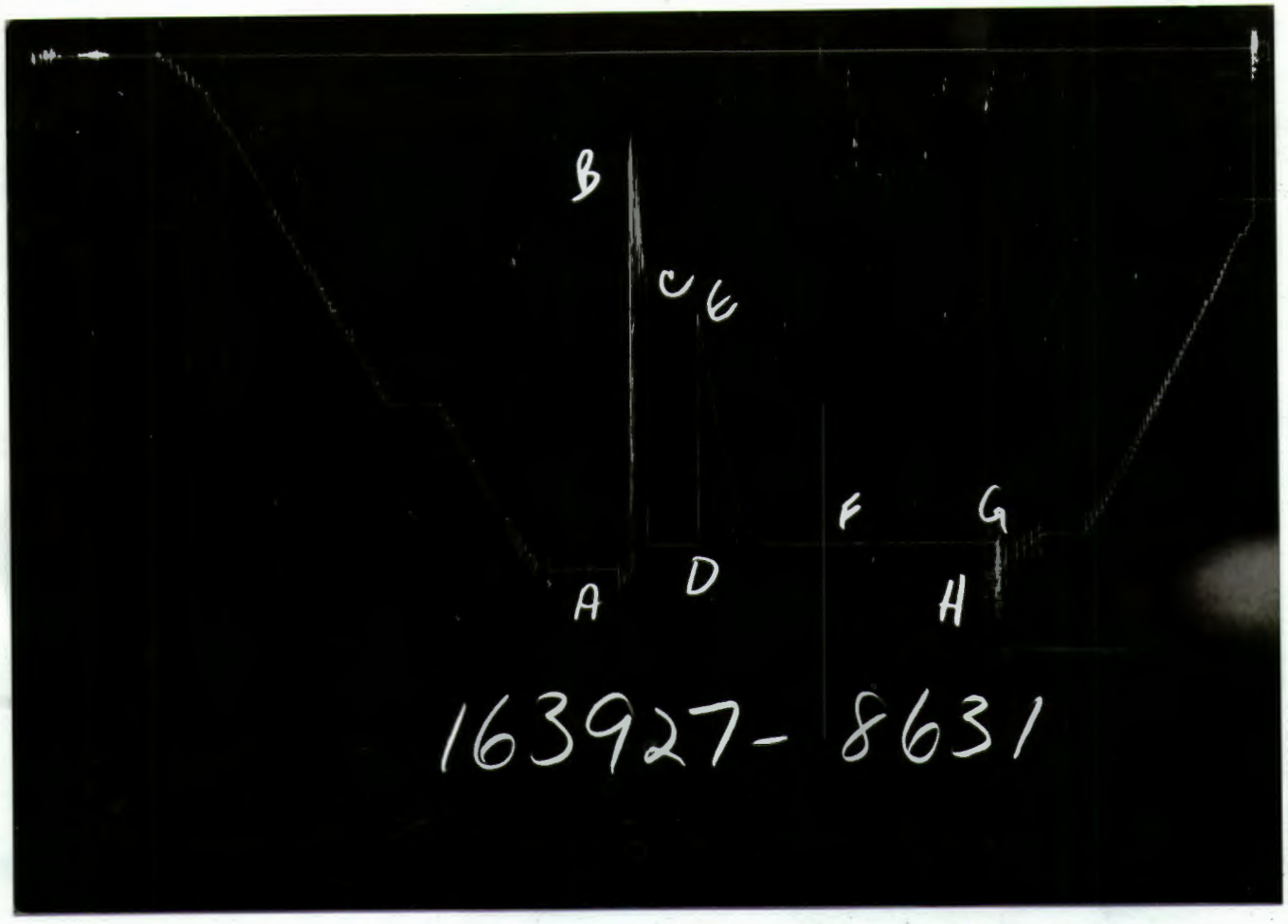
LEASE : GHOST RANCH

WELL NO.: 58-35

TEST NO.: 1

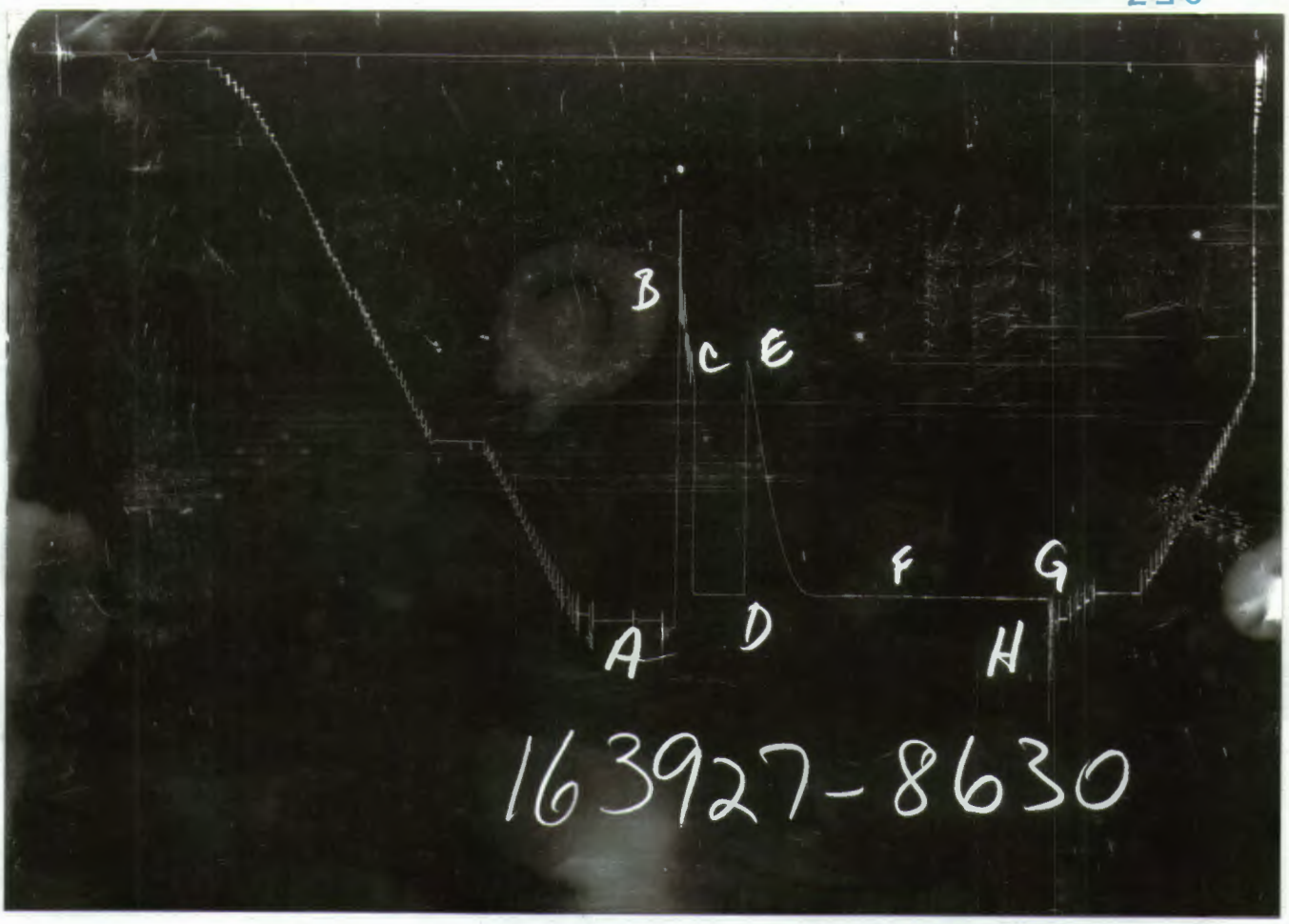
TICKET NO. 16392700
23-OCT-96
VERNAL

DST REPORT PRODUCED BY HRS
A DIVISION OF HALLIBURTON COMPANY



GAUGE NO: 8631 DEPTH: 4563.1 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2070	2101.3			
B	INITIAL FIRST FLOW	394	449.6	10.0	9.7	F
C	FINAL FIRST FLOW	886	907.2			
C	INITIAL FIRST CLOSED-IN	886	907.2	30.0	30.7	C
D	FINAL FIRST CLOSED-IN	1981	1978.8			
E	INITIAL SECOND FLOW	1043	1068.0	60.0	59.6	F
F	FINAL SECOND FLOW	1981	1977.4			
F	INITIAL SECOND CLOSED-IN	1981	1977.4	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	1981	1978.6			
H	FINAL HYDROSTATIC	2070	2080.1			



GAUGE NO: 8630 DEPTH: 4639.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2139	2128.7			
B	INITIAL FIRST FLOW	763	829.3	10.0	9.7	F
C	FINAL FIRST FLOW	1228	1213.8			
C	INITIAL FIRST CLOSED-IN	1228	1213.8	30.0	30.7	C
D	FINAL FIRST CLOSED-IN	2028	2003.5			
E	INITIAL SECOND FLOW	1135	1120.4	60.0	59.6	F
F	FINAL SECOND FLOW	2028	2003.2			
F	INITIAL SECOND CLOSED-IN	2028	2003.2	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	2028	2003.6			
H	FINAL HYDROSTATIC	2140	2105.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: GUILMETTE ?
NET PAY (ft): 51.0
GROSS TESTED FOOTAGE: 56.8 PACKER TO T.D.
ALL DEPTHS MEASURED FROM: K.B.
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 8.750
ELEVATION (ft): 4763.0 AT KELLY BUSHING
TOTAL DEPTH (ft): 4642.0
PACKER DEPTH(S) (ft): 4577, 4585
FINAL SURFACE CHOKE (in): 0.12500 B. HOSE
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 8.70
MUD VISCOSITY (sec):
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 151 @ 4638.0 ft

TICKET NUMBER: 16392700
DATE: 10-21-96 TEST NO: 1
TYPE DST: OPEN HOLE
FIELD CAMP: VERNAL
TESTER: RANDY RIPPLE
WITNESS: TOM POPP
DRILLING CONTRACTOR: CARDINAL DRILLING RIG #12

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
MUD PIT	5.800	@ 60 °F	1100 ppm
TOP OF FLUID	4.130	@ 60 °F	1550 ppm
MIDDLE OF FLUID	10.000	@ 80 °F	500 ppm
SAMPLER	10.000	@ 65 °F	500 ppm
		@ °F	ppm
		@ °F	ppm

SAMPLER DATA

Psig AT SURFACE: ??
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER: 2200.0
cc OF MUD:
TOTAL LIQUID cc: 2200.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

4133 FT OF WATER
442 FT OF WATER CUT MUD

MEASURED FROM TESTER VALVE

REMARKS:

CHARTS INDICATE PARTIAL PLUGGING OF THE ANCHOR PERFORATIONS DURING THE INITIAL FLOW PERIOD.

TICKET NO: 16392700

CLOCK NO: 6776 HOUR: 12

GAUGE NO: 8631

DEPTH: 4563.1

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
		FIRST FLOW			
B 1	0.0	449.6			
2	2.0	564.1	114.5		
3	4.0	625.2	61.1		
4	6.0	724.9	99.7		
5	8.0	822.5	97.6		
C 6	9.7	907.2	84.7		
		FIRST CLOSED-IN			
C 1	0.0	907.2			
2	0.5	1976.4	1069.2	0.5	1.329
3	1.0	1977.8	1070.6	0.9	1.041
4	1.5	1978.4	1071.2	1.3	0.879
5	2.0	1978.6	1071.4	1.6	0.773
6	2.5	1978.8	1071.6	2.0	0.692
7	3.0	1978.8	1071.6	2.3	0.623
8	4.0	1978.8	1071.6	2.8	0.539
9	5.0	1978.8	1071.6	3.3	0.471
10	10.0	1978.8	1071.6	4.9	0.296
11	20.0	1978.8	1071.6	6.5	0.172
D 12	30.7	1978.8	1071.6	7.4	0.120
		SECOND FLOW			
E 1	0.0	1068.0			
2	1.0	1090.3	22.3		
3	2.0	1123.7	33.5		
4	3.0	1159.5	35.7		
5	4.0	1199.5	40.1		
6	5.0	1237.3	37.8		
7	6.0	1278.0	40.7		
8	7.0	1314.3	36.3		
9	8.0	1353.9	39.6		
10	9.0	1390.2	36.2		
11	10.0	1428.8	38.7		
12	12.0	1503.7	74.8		
13	14.0	1576.2	72.5		
14	16.0	1635.3	59.1		
15	18.0	1694.3	59.0		
16	20.0	1744.8	50.6		
17	22.0	1793.2	48.4		
18	24.0	1833.6	40.4		
19	26.0	1865.8	32.2		
20	28.0	1897.6	31.7		
21	30.0	1920.3	22.7		
22	35.0	1959.4	39.2		
23	40.0	1974.9	15.5		
24	45.0	1976.8	1.9		
25	50.0	1977.2	0.4		
26	55.0	1977.4	0.2		
		SECOND FLOW - CONTINUED			
F 27	59.6	1977.4	0.0		
		SECOND CLOSED-IN			
F 1	0.0	1977.4			
2	0.5	1978.6	1.2	0.5	2.150
3	1.0	1978.6	1.2	0.9	1.866
4	10.0	1978.6	1.2	8.7	0.900
5	30.0	1978.6	1.2	20.9	0.520
6	60.0	1978.6	1.2	32.2	0.334
7	90.0	1978.6	1.2	39.2	0.248
G 8	120.0	1978.6	1.2	43.9	0.198

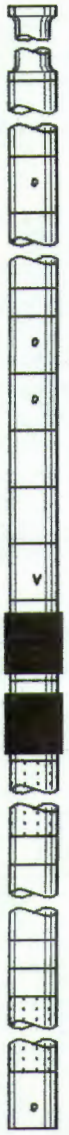
REMARKS:

TICKET NO: 16392700	GAUGE NO: 8630
CLOCK NO: 3806 HOUR: 12	DEPTH: 4639.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
		FIRST FLOW			
B 1	0.0	829.3			
2	2.0	963.8	134.6		
3	4.0	1018.9	55.0		
4	6.0	1066.1	47.2		
5	8.0	1157.2	91.1		
C 6	9.7	1213.8	56.5		
		FIRST CLOSED-IN			
C 1	0.0	1213.8			
2	0.5	1999.3	785.5	0.5	1.318
3	1.0	2001.2	787.5	0.9	1.037
4	1.5	2002.5	788.8	1.3	0.862
5	2.0	2002.8	789.1	1.6	0.772
6	2.5	2003.1	789.4	2.0	0.695
7	3.0	2003.2	789.5	2.3	0.632
8	4.0	2003.5	789.7	2.9	0.533
9	5.0	2003.5	789.7	3.3	0.468
10	10.0	2003.5	789.7	4.9	0.296
11	20.0	2003.5	789.7	6.5	0.172
D 12	30.7	2003.5	789.7	7.4	0.120
		SECOND FLOW			
E 1	0.0	1120.4			
2	1.0	1136.3	16.4		
3	2.0	1168.5	31.7		
4	3.0	1208.0	39.5		
5	4.0	1242.1	34.1		
6	5.0	1278.6	36.5		
7	6.0	1319.0	40.4		
8	7.0	1357.7	38.8		
9	8.0	1396.3	38.6		
10	9.0	1432.7	36.4		
11	10.0	1469.7	37.0		
12	12.0	1538.1	68.4		
13	14.0	1604.5	66.4		
14	16.0	1663.3	58.8		
15	18.0	1721.7	58.3		
16	20.0	1773.5	51.9		
17	22.0	1819.8	46.3		
18	24.0	1860.4	40.6		
19	26.0	1892.5	32.1		
20	28.0	1924.6	32.1		
21	30.0	1946.4	21.8		
22	35.0	1986.2	39.8		
23	40.0	2002.2	15.9		
24	45.0	2002.7	0.6		
25	50.0	2003.0	0.3		
26	55.0	2003.2	0.2		
		SECOND FLOW - CONTINUED			
F 27	59.6	2003.2	0.0		
		SECOND CLOSED-IN			
F 1	0.0	2003.2			
2	0.5	2003.6	0.4	0.5	2.108
3	1.0	2003.6	0.4	1.0	1.847
4	10.0	2003.6	0.4	8.7	0.901
5	30.0	2003.6	0.4	21.0	0.520
6	60.0	2003.6	0.4	32.2	0.334
7	90.0	2003.6	0.4	39.2	0.248
G 8	120.0	2003.6	0.4	43.9	0.198

REMARKS:

TICKET NO. 16392700



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.500	3.826	4227.9	
3	DRILL COLLARS	6.000	2.375	263.9	
152	PUMPOUT & IMPACT REVERSING SUB	6.000	3.000	0.9	4492.0
3	DRILL COLLARS	6.000	2.375	56.6	
5	CROSSOVER	6.000	2.437	0.7	
13	DUAL CIP SAMPLER	5.000	0.750	7.0	
60	HYDROSPRING TESTER	5.000	0.750	5.0	4560.9
80	AP RUNNING CASE	5.000	2.250	4.1	4563.1
15	JAR	5.000	1.750	5.0	
16	VR SAFETY JOINT	5.000	1.000	2.8	
70	OPEN HOLE PACKER	7.750	1.530	5.2	4576.6
70	OPEN HOLE PACKER	7.750	1.530	7.4	4585.2
20	FLUSH JOINT ANCHOR	5.000	2.250	15.0	
5	CROSSOVER	6.000	2.437	0.7	
3	DRILL COLLARS	6.000	2.375	23.4	
5	CROSSOVER	6.125	2.250	1.7	
5	CROSSOVER	5.875	2.375	0.8	
20	FLUSH JOINT ANCHOR	5.000	2.250	5.0	
81	BLANKED-OFF RUNNING CASE	5.000		4.1	4639.0
	TOTAL DEPTH				4642.0

EQUIPMENT DATA

GHOST RANCH	58-35R	1	4976.5 - 5013.0
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE	FORELAND CORPORATION
35 - 9 N - 57 E	EAGLE SPRINGS	NYE	NEVADA	LEASE OWNER/COMPANY NAME

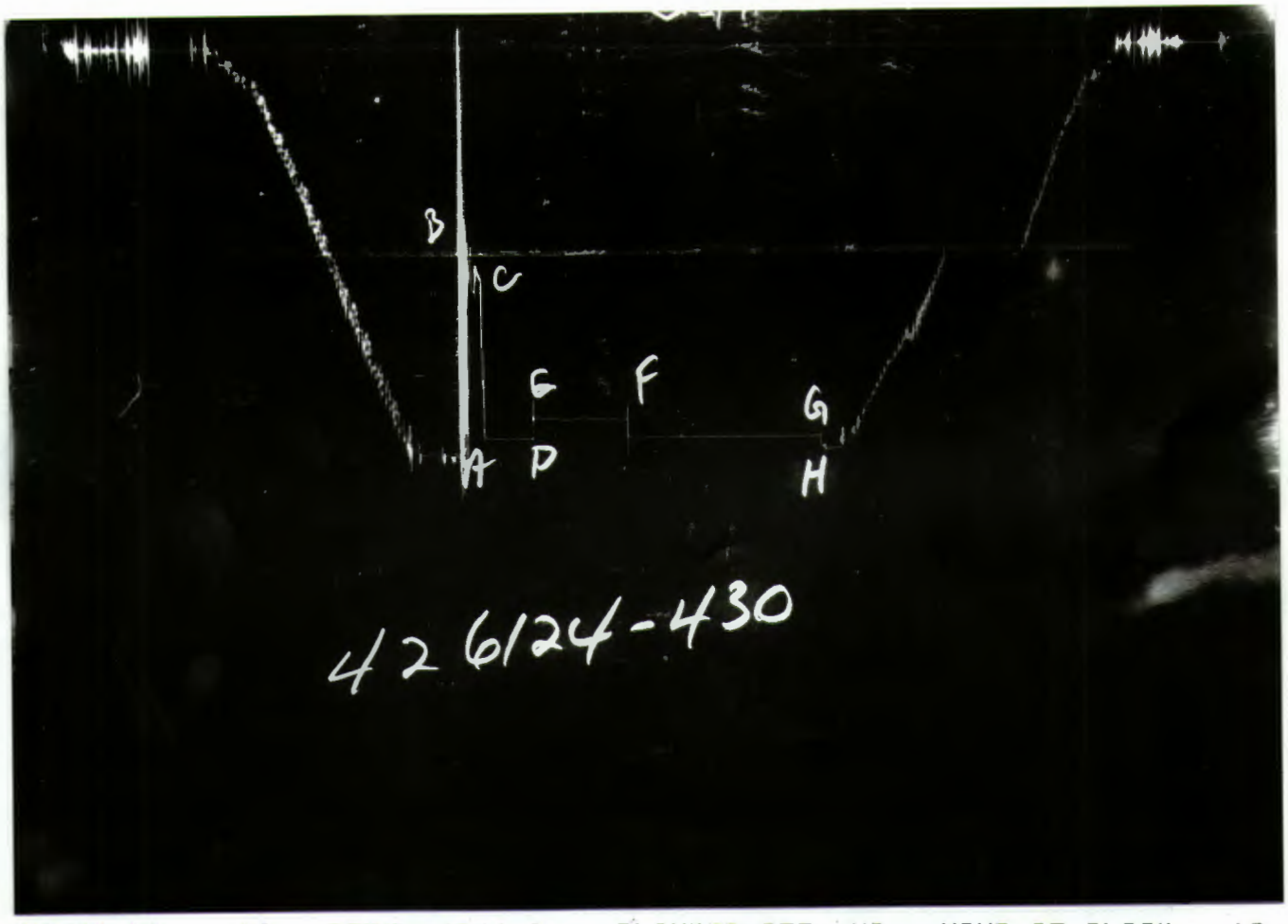
FORELAND CORPORATION

LEASE : GHOST RANCH

WELL NO.: 58-35R

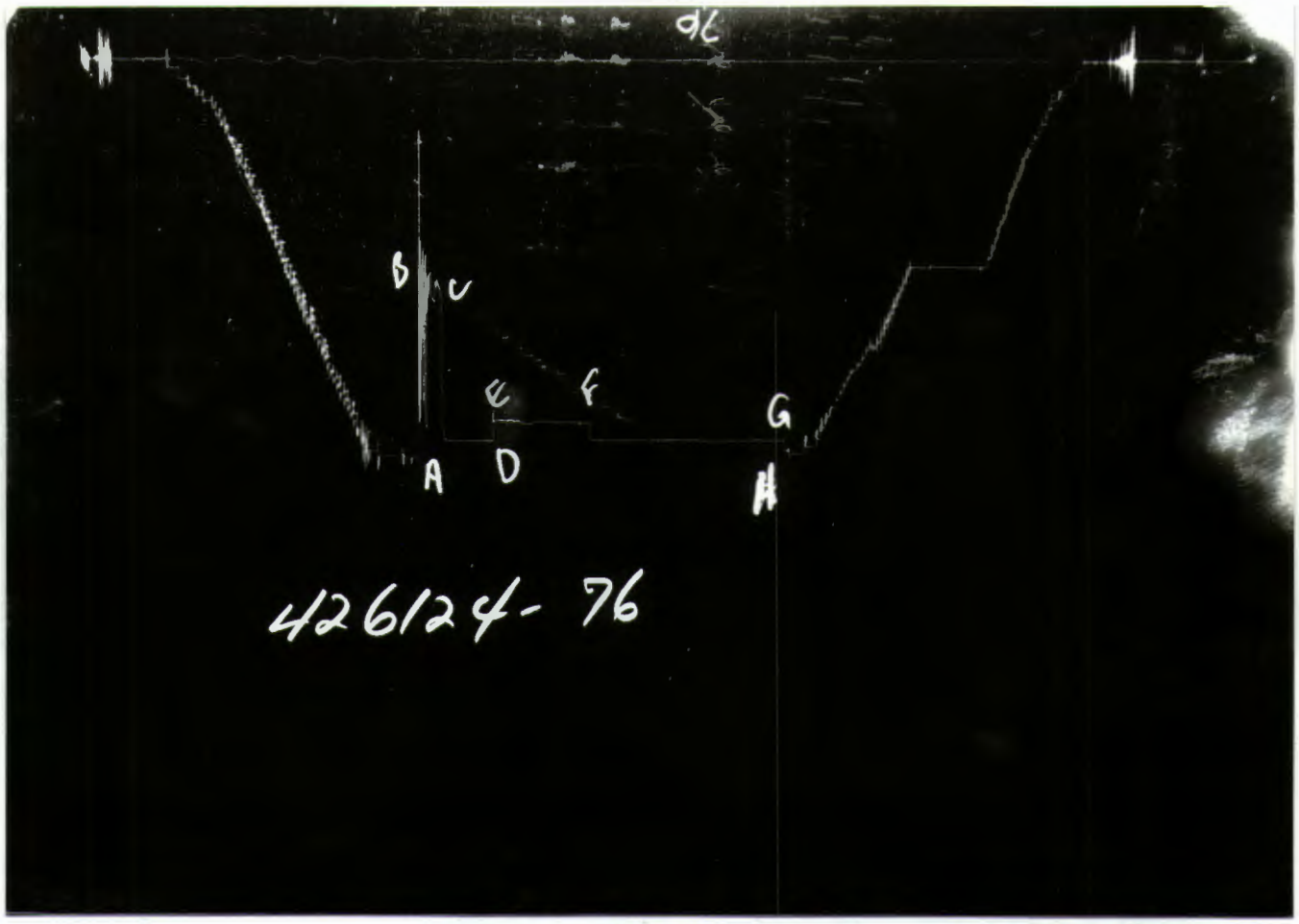
TEST NO.: 1

TICKET NO. 42612400
11-AUG-98
VERNAL



GAUGE NO: 430 DEPTH: 4954.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2232	2229.0			
B	INITIAL FIRST FLOW	1147	619.4	15.0	14.9	F
C	FINAL FIRST FLOW	1227	1850.9			
C	INITIAL FIRST CLOSED-IN	1227	1850.9	30.0	31.0	C
D	FINAL FIRST CLOSED-IN	2114	2137.5			
E	INITIAL SECOND FLOW	1997	2016.0	60.0	59.2	F
F	FINAL SECOND FLOW	2023	2038.8			
F	INITIAL SECOND CLOSED-IN	2023	2038.8	120.0	119.9	C
G	FINAL SECOND CLOSED-IN	2114	2134.2			
H	FINAL HYDROSTATIC	2219	2204.9			



GAUGE NO: 76 DEPTH: 5010.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2250	2259.2			
B	INITIAL FIRST FLOW	1261	1007.3	15.0	14.9	F
C	FINAL FIRST FLOW	1344	1877.2			
C	INITIAL FIRST CLOSED-IN	1344	1877.2	30.0	31.0	C
D	FINAL FIRST CLOSED-IN	2154	2166.2			
E	INITIAL SECOND FLOW	2044	2044.7	60.0	59.2	F
F	FINAL SECOND FLOW	2058	2062.8			
F	INITIAL SECOND CLOSED-IN	2058	2062.8	120.0	119.9	C
G	FINAL SECOND CLOSED-IN	2154	2163.2			
H	FINAL HYDROSTATIC	2236	2232.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: SLIDE BLOCK #2
NET PAY (ft): 33.0
GROSS TESTED FOOTAGE: 36.5 PACKER TO T.D.
ALL DEPTHS MEASURED FROM: K.B.
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 6.125
ELEVATION (ft): 4763.0 AT KELLY BUSHING
TOTAL DEPTH (ft): 5013.0
PACKER DEPTH(S) (ft): 4968, 4977
FINAL SURFACE CHOKE (in): 0.12500 B. HOSE
BOTTOM HOLE CHOKE (in): 0.620
MUD WEIGHT (lb/gal): 8.80
MUD VISCOSITY (sec): 40
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 146 @ 5009.0 ft

TICKET NUMBER: 42612400
DATE: 08-06-98 TEST NO: 1
TYPE DST: OPEN HOLE
FIELD CAMP: VERNAL
TESTER: RANDY RIPPLE
WITNESS: PAT CAIN
DRILLING CONTRACTOR: CAZA #63

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
RECOVERY WATER	10.000 @ 97 °F	800 ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

2525 FT OF WATER

MEASURED FROM TESTER VALVE

REMARKS:

CHARTS INDICATE SIGNIFICANT PLUGGING DURING THE FIRST FLOW PERIOD. THE PLUGGING INCREASED TO THE POINT OF THE TOOLS BEING NEARLY PLUGGED DURING THE FINAL FLOW PERIOD.

TYPE & SIZE MEASURING DEVICE: _____ TICKET NO: 42612400

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
08-06-98					
0600					ON LOCATION
0748					PICKED UP TOOLS
0850					SET TOOLS IN SLIPS; GREASED CROWN
					AND BLOCKS
1200	B.H.				HYDROSPRING OPENED THRU 1/8" BUBBLE
					HOSE
1203	B.H.				BLOW TO BOTTOM OF BUCKET
1205	B.H.	10.0 OZ			17" BLOW
1210	B.H.	20.5 OZ			35" BLOW
1215	B.H.	2.0 PSI			CLOSED TOOL
1245	B.H.				OPENED TOOL WITH 1/4" BLOW
1250	B.H.	3.0 OZ			
1255	B.H.	6.0 OZ			
1300	B.H.	7.5 OZ			
1305	B.H.	7.8 OZ			
1310	B.H.	8.0 OZ			
1315	B.H.	8.5 OZ			
1320	B.H.	9.0 OZ			
1325	B.H.	9.0 OZ			
1330	B.H.	9.3 OZ			
1335	B.H.	9.5 OZ			
1340	B.H.	9.5 OZ			
1345	B.H.	9.5 OZ			CLOSED TOOL
1545					BYPASSED PACKERS; RIGGED DOWN
					SURFACE EQUIPMENT
1715					HIT FLUID; DROPPED BAR AND REVERSED
					OUT
1751					PULLED OUT OF THE HOLE
1900					BROKE OUT AND LOADED TOOLS
2000					JOB COMPLETED

TICKET NO: 42612400	
CLOCK NO: 6755	HOUR: 12

GAUGE NO: 430	
DEPTH: 4954.0	

FIRST FLOW

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
B 1	0.0	619.4			
2	2.0	1464.5	845.1		
3	4.0	1091.3	-373.2		
4	6.0	1298.7	207.4		
5	8.0	1172.9	-125.8		
6	10.0	1370.1	197.2		
7	12.0	1226.7	-143.4		
8	14.0	1712.1	485.3		
C 9	14.9	1850.9	138.8		

FIRST CLOSED-IN

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
C 1	0.0	1850.9			
2	1.0	2122.4	271.5	0.9	1.218
3	2.0	2132.2	281.4	1.7	0.936
4	3.0	2135.1	284.3	2.5	0.777
5	4.0	2136.2	285.3	3.1	0.677
6	5.0	2137.0	286.1	3.7	0.604
7	6.0	2137.4	286.5	4.3	0.542
8	7.0	2137.4	286.5	4.8	0.497
9	8.0	2137.5	286.6	5.2	0.456
10	9.0	2137.5	286.6	5.6	0.425
11	10.0	2137.5	286.6	6.0	0.397
12	12.0	2137.5	286.6	6.7	0.351
13	14.0	2137.5	286.6	7.2	0.316
14	16.0	2137.5	286.6	7.7	0.286
15	18.0	2137.5	286.6	8.2	0.263
16	20.0	2137.5	286.6	8.6	0.242
17	22.0	2137.5	286.6	8.9	0.225
18	24.0	2137.5	286.6	9.2	0.210
19	26.0	2137.5	286.6	9.5	0.197
20	28.0	2137.5	286.6	9.7	0.186
D 21	31.0	2137.5	286.6	10.1	0.171

SECOND FLOW

REF	MINUTES	PRESSURE	ΔP
E 1	0.0	2016.0	
2	5.0	2022.4	6.4
3	10.0	2023.8	1.3
4	15.0	2025.6	1.8
5	20.0	2035.6	10.0
6	25.0	2032.8	-2.8
7	30.0	2025.5	-7.4
8	35.0	2026.1	0.7
9	40.0	2032.2	6.1
10	45.0	2032.3	0.1
11	50.0	2032.8	0.5
12	55.0	2034.8	2.0
F 13	59.2	2038.8	3.9

SECOND CLOSED-IN

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
F 1	0.0	2038.8			
2	1.0	2133.0	94.2	1.0	1.876
3	2.0	2135.4	96.6	2.0	1.578
4	3.0	2135.5	96.7	2.9	1.406
5	4.0	2135.5	96.7	3.8	1.289
6	5.0	2135.6	96.9	4.7	1.196
7	6.0	2135.6	96.9	5.5	1.129
8	7.0	2135.6	96.9	6.4	1.062
9	8.0	2135.6	96.9	7.2	1.011
10	9.0	2135.6	96.9	8.0	0.966
11	10.0	2135.6	96.9	8.8	0.926
12	12.0	2135.6	96.9	10.3	0.856
13	14.0	2135.6	96.9	11.8	0.798
14	16.0	2135.6	96.9	13.2	0.750
15	18.0	2135.6	96.9	14.5	0.710
16	20.0	2135.6	96.9	15.8	0.672
17	25.0	2135.6	96.9	18.7	0.599
18	30.0	2135.6	96.9	21.3	0.540
19	40.0	2135.5	96.7	26.0	0.455
20	50.0	2135.5	96.7	29.9	0.395
21	60.0	2135.1	96.3	33.2	0.349
22	70.0	2135.1	96.3	36.0	0.314
23	80.0	2135.0	96.2	38.5	0.285
24	90.0	2134.7	96.0	40.6	0.261
25	100.0	2134.3	95.6	42.6	0.241
26	110.0	2134.2	95.4	44.3	0.224
G 27	119.9	2134.2	95.4	45.8	0.209

REMARKS:

TICKET NO: 42612400

CLOCK NO: 3806 HOUR: 12

GAUGE NO: 76

DEPTH: 5010.0

FIRST FLOW

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
B 1	0.0	1007.3			
2	2.0	1488.7	481.4		
3	4.0	1119.6	-369.1		
4	6.0	1317.0	197.4		
5	8.0	1195.0	-122.0		
6	10.0	1364.6	169.6		
7	12.0	1265.1	-99.5		
8	14.0	1720.2	455.1		
C 9	14.9	1877.2	157.0		

FIRST CLOSED-IN

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
C 1	0.0	1877.2			
2	1.0	2148.8	271.6	0.9	1.208
3	2.0	2158.5	281.3	1.7	0.936
4	3.0	2162.5	285.3	2.5	0.776
5	4.0	2164.5	287.4	3.2	0.672
6	5.0	2164.7	287.5	3.7	0.603
7	6.0	2165.2	288.1	4.3	0.544
8	7.0	2165.2	288.1	4.8	0.497
9	8.0	2165.2	288.1	5.2	0.457
10	9.0	2165.4	288.2	5.6	0.425
11	10.0	2165.7	288.5	6.0	0.396
12	12.0	2166.1	288.9	6.6	0.352
13	14.0	2166.1	288.9	7.2	0.315
14	16.0	2166.1	288.9	7.7	0.286
15	18.0	2166.1	288.9	8.2	0.262
16	20.0	2166.1	288.9	8.5	0.243
17	22.0	2166.2	289.0	8.9	0.225
18	24.0	2166.2	289.0	9.2	0.210
19	26.0	2166.2	289.0	9.5	0.197
20	28.0	2166.2	289.0	9.7	0.185
D 21	31.0	2166.2	289.0	10.1	0.171

SECOND FLOW

REF	MINUTES	PRESSURE	ΔP
E 1	0.0	2044.7	
2	5.0	2049.1	4.4
3	10.0	2046.5	-2.6
4	15.0	2052.3	5.8
5	20.0	2064.1	11.7
6	25.0	2061.3	-2.8
7	30.0	2052.7	-8.6
8	35.0	2050.8	-1.9
9	40.0	2060.7	10.0
10	45.0	2060.9	0.1
11	50.0	2060.9	0.0
12	55.0	2062.4	1.5
F 13	59.2	2062.8	0.4

SECOND CLOSED-IN

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
F 1	0.0	2062.8			
2	1.0	2156.2	93.4	0.9	1.895
3	2.0	2161.2	98.4	2.0	1.580
4	3.0	2161.9	99.1	2.9	1.405
5	4.0	2161.9	99.1	3.8	1.290
6	5.0	2162.3	99.5	4.7	1.199
7	6.0	2162.6	99.8	5.6	1.124
8	7.0	2164.1	101.3	6.4	1.064
9	8.0	2164.7	101.9	7.2	1.012
10	9.0	2165.2	102.4	8.0	0.967
11	10.0	2165.2	102.4	8.8	0.925
12	12.0	2165.2	102.4	10.3	0.857
13	14.0	2165.2	102.4	11.7	0.800
14	16.0	2164.7	101.9	13.1	0.751
15	18.0	2164.7	101.9	14.5	0.708
16	20.0	2164.7	101.9	15.8	0.672
17	25.0	2164.7	101.9	18.7	0.599
18	30.0	2164.7	101.9	21.4	0.540
19	40.0	2164.0	101.2	26.0	0.455
20	50.0	2162.7	99.9	29.9	0.395
21	60.0	2164.1	101.3	33.1	0.349
22	70.0	2164.0	101.2	36.0	0.314
23	80.0	2163.9	101.0	38.5	0.285
24	90.0	2163.3	100.5	40.6	0.261
25	100.0	2161.8	99.0	42.6	0.241
26	110.0	2163.0	100.2	44.3	0.224
G 27	119.9	2163.2	100.3	45.8	0.209

REMARKS:

TICKET NO. 42612400

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	3.500	2.764	4573.3	
3	DRILL COLLARS	4.625	2.250	273.8	
50	IMPACT REVERSING SUB	5.000	2.250	1.0	4847.6
51	PUMP OUT REVERSING SUB	5.000	2.250	1.0	4848.6
3	DRILL COLLARS	4.625	2.250	90.6	
5	CROSSOVER	4.750	2.938	0.7	
12	DUAL CIP VALVE	3.875	0.870	6.1	
60	HYDROSPRING TESTER	3.875	0.620	5.9	4951.0
80	AP RUNNING CASE	3.875	2.250	4.9	4954.0
15	JAR	3.875	1.250	5.0	
16	VR SAFETY JOINT	3.875	0.750	2.5	
70	OPEN HOLE PACKER	5.500	0.750	4.9	4968.0
18	DISTRIBUTOR VALVE	3.875	1.000	3.0	
70	OPEN HOLE PACKER	5.500	0.750	6.1	4976.5
20	FLUSH JOINT ANCHOR	4.125	1.875	30.0	
81	BLANKED-OFF RUNNING CASE	4.125		4.2	5010.0
	TOTAL DEPTH				5013.0

EQUIPMENT DATA