

BLM, DE Cons. DIV. Oct 2  
1801 W. Grand Avenue  
Artesia, NM 88218

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED  
SEP 16 2005  
COURTESY

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Bass Enterprises Production Co.

3a. Address P. O. Box 2760 Midland, TX 79702

3b. Phone No. (include area code)  
(432)683-2277

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NWSW 1730 FSL, 660 FWL, 32.14388 N LAT, 103.54369 W LON

At proposed prod. zone SAME

14. Distance in miles and direction from nearest town or post office\*

14 MILES EAST OF MALAGA NM

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

660'

16. No. of Acres in lease

2479.76

17. Spacing Unit dedicated to this well

40.00

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

1320'

19. Proposed Depth

7740' MD

20. BLM/BIA Bond No. on file

NM2204

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3270' GL

22. Approximate date work will start\*

10/01/2005

23. Estimated duration

12 DAYS

24. Attachments

CARLSBAD CONTROLLED WATER BASIN

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan

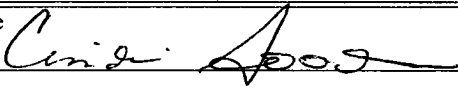
3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operation certification.

6. Such other site specific information and/or plans as may be required by the  
authorized officer.

25. Signature



Name (Printed/Typed)

Cindi Goodman

Date

06/30/2005

Title

Production Clerk

Approved by (Signature)

/s/ Linda S. C. Rundell

Name (Printed/Typed)

Linda S. C. Rundell

Date

SEP 12 2005

Title

STATE DIRECTOR

Office

NM STATE OFFICE

Application approval does not warrant or certify the 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, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

29.5, 50 ft

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS  
AND SPECIAL STIPULATIONS  
ATTACHED

Witness Surface Casing.

Surface casing to be set into the Rustler below all fresh water sands.

Production casing will be cemented using Zone Seal cement.

Drilling Procedure, BOP Diagram, Anticipated tops and surface plans attached.

This well is located inside the Secretary's Potash area and outside the R-111 Potash area.  
There are no potash leases within 1 mile of the location.

DISTRICT I  
1625 N. French St., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 47545	Pool Name Nash Draw (Delaware)
Property Code 001796	Property Name POKER LAKE UNIT	Well Number 168
OGUID No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3270'

Surface Location

UL or lot No. L	Section 5	Township 24 S	Range 30 E	Lot Idn	Feet from the 1730	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
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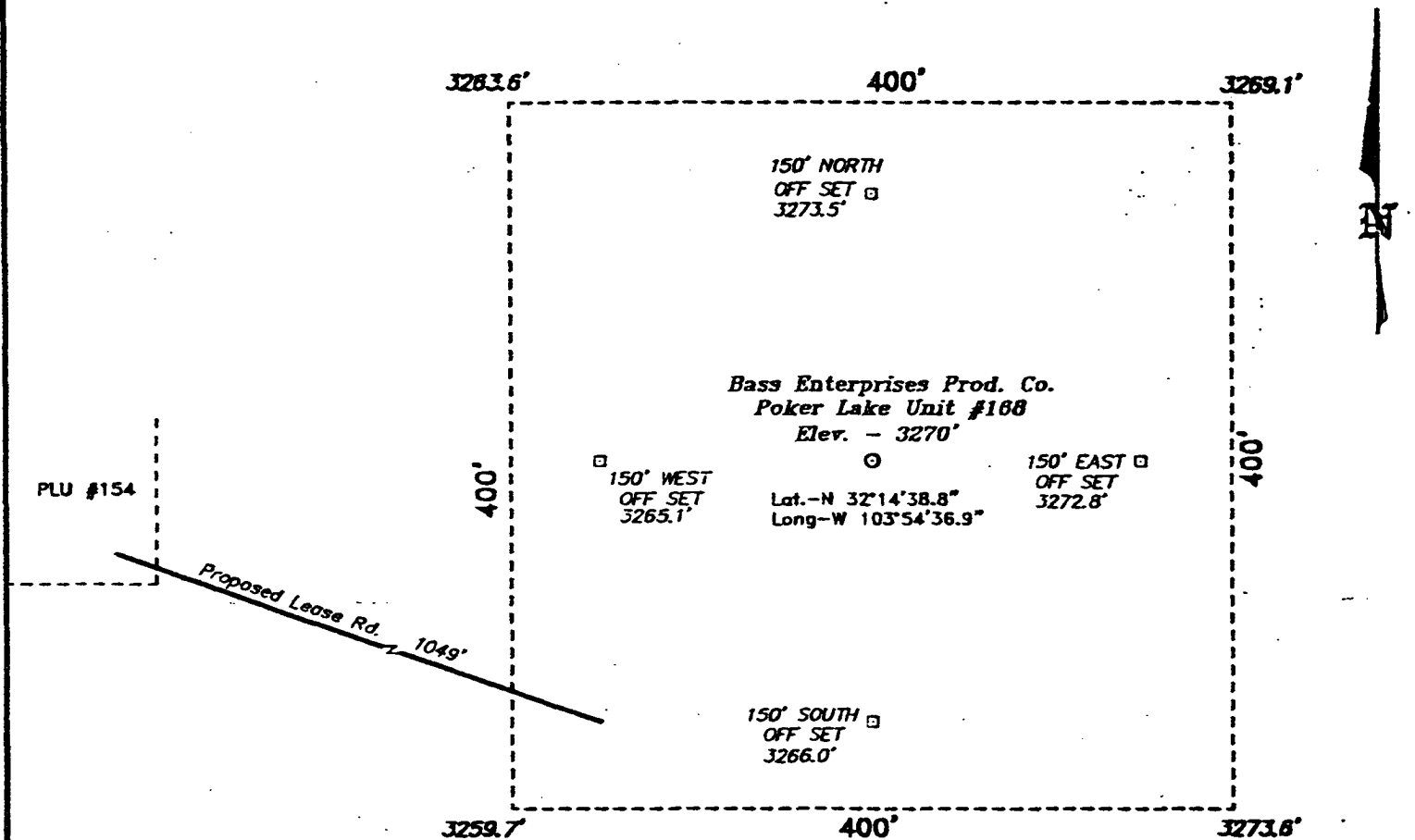
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill N	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 4 - 39.98 AC.	LOT 3 - 39.96 AC.	LOT 2 - 39.92 AC.	LOT 1 - 39.90 AC.
<p>LAT - N32°14'38.8" LONG - W103°54'36.9"</p> <p>3263.6' 3263.1' 660' 3259.7' 3273.6'</p> <p>1730'</p>			
<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>William R. Dannels</u> Signature W.R. DANNELS Printed Name DIVISION DRILLING SUPT. Title 6/6/03 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>August 21, 2000</p> <p>Date Signed Signature of L. JONES Professional Surveyor W.Q. NO. 7977 Certification No. 7977 PROFESSIONAL LAND SURVEYOR DANIEL SURVEYS</p>			

**SECTION 5, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.**



100 0 100 200 FEET  
SCALE: 1" = 100'

**DIRECTIONS TO LOCATION:**

FROM THE JUNCTION OF STATE HWY 128 & CO. RD. 793, GO SOUTH AND WEST ON CO. RD. 793 APPROX. 4.0 MILES TO A LEASE ROAD; THENCE SOUTH ON LEASE ROAD APPROX. 3.0 MILES TO A POINT WHICH LIES APPROX. 1.0 MILE WEST OF THE PROPOSED WELL LOCATION.

**BASIN SURVEYS** P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 0461 Drawn By: K. GOAD

Date: 08-23-2000 Disk: KJG #122 - 0461A.DWG

**BASS ENTERPRISES PRODUCTION CO.**

REF: Poker Lake Unit No. 168 / Well Pad Topo

THE POKER LAKE UNIT No. 168 LOCATED 1730' FROM  
THE SOUTH LINE AND 660' FROM THE WEST LINE OF  
SECTION 5, TOWNSHIP 24 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 08-21-2000 Sheet 1 of 1 Sheets

**EIGHT POINT DRILLING PROGRAM  
BASS ENTERPRISES PRODUCTION CO.**

**NAME OF WELL: POKER LAKE UNIT #168**

**LEGAL DESCRIPTION - SURFACE: 1730' FSL & 660' FWL, Section 5, T-24-S, R-30-E, Eddy County, New Mexico.**

**POINT 1: ESTIMATED FORMATION TOPS**

(See No. 2 Below)

**POINT 2: WATER, OIL, GAS AND/OR MINERAL BEARING FORMATIONS**

Anticipated Formation Tops: KB 3288' (est)  
GL 3270'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Salt	677'	+2,611'	Barren
B/Salt	3,370'	- 82'	Barren
T/Lamar	3,602'	- 314'	Barren
T/Ramsey	3,629'	- 341'	Oil/Gas
T/Lwr Brushy Canyon 8A	7,113'	- 3,825'	Oil/Gas
T/Y" Sand	7,268'	- 3,980'	Oil/Gas
TD	7,740'	- 4,452'	

**POINT 3: CASING PROGRAM**

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
16"	0' - 40'	Conductor	Contractor Discretion
8-5/8", 24#, WC-50, LTC	0' - 600'	Surface	New
5-1/2", 15.50#, K-55, LT&C	0' - 6,500'	Production	New
5-1/2", 17#, K-55, LT&C	6,500' - 7,740'	Production	New

**WITNESS**

**POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)**

A BOP equivalent to Diagram 1 will be nipped up on the surface casing head. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to 70% of internal yield pressure of casing. In addition to the high pressure test, a low pressure (200 psi) test will be required. These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Fifteen days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip.

**POINT 5: MUD PROGRAM**

<u>DEPTH</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>FV</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>	<u>Ph</u>
0' - 600'	FW Spud Mud	8.5 - 9.2	45-35	NC	NC	NC	NC
600' - 5600'	BW	9.8 -10.2	28-30	NC	NC	NC	9.5-10.5
5600' - TD'	BW/Diesel	8.8 -9.0	32-40	8	2	<25 cc	9.5-10.0

*\*May increase vis for logging purposes only.*

**POINT 6: TECHNICAL STAGES OF OPERATION****A) TESTING**

None anticipated.

**B) LOGGING**

GR-CNL-LDT-AIT from TD to Base of Salt (+/-3,370'). Run GR-CNL-CAL from Base of Salt to surface.

**C) CONVENTIONAL CORING**

None anticipated.

**D) CEMENT**

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FT OF FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT<sup>3</sup>/SX</u>
<b>SURFACE:</b>	Circulate cement to surface					
Lead 0 - 300' (100% excess)	130	300	Permian Basin Critical Zone + 1/4# Flocele	10.4	12.8	1.9
Tail 300-600' (100% excess)	233	300	Prem Plus + 2% CaCl <sub>2</sub> + 1/4# Flocele	6.33	14.8	1.35

**PRODUCTION:**

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FILL</u>	<u>TYPE</u>	<u>GAL/SX</u>	<u>PPG</u>	<u>FT<sup>3</sup>/SX</u>	<u>COMPRESSIVE NITROGEN STRENGTH</u>
Base Slurry 3300-7740' (50% excess)	705	4400'	Prem Plus + 2% Zone Sealant 2000	6.32	9.1-14.5	2.3-1.39	300/600 scf/bbl 1200

E) **DIRECTIONAL DRILLING**

No directional services anticipated.

**POINT 7: ANTICIPATED RESERVOIR CONDITIONS**

Normal pressures are anticipated throughout Delaware section. A BHP of 3343 psi (max) or MWE of 8.7 ppg is expected. Lost circulation may exist in the Delaware section from 3,599'-7,389'. No H<sub>2</sub>S is anticipated.

Estimated BHT is 146° F.

**POINT 8: OTHER PERTINENT INFORMATION**

A) **Auxiliary Equipment**

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) **Anticipated Starting Date**

Upon approval

12 days drilling operations

14 days completion operations

GEG/cdg  
June 30, 2005

## **MULTI-POINT SURFACE USE PLAN**

**NAME OF WELL: POKER LAKE UNIT #168**

**LEGAL DESCRIPTION - SURFACE:** 1730' FSL & 660' FWL, Section 5, T-24-S, R-30-E, Eddy County, New Mexico.

### **POINT 1: EXISTING ROADS**

A) Proposed Well Site Location:

See Exhibit "A" , "B" and survey plats.

B) Existing Roads:

From Carlsbad, New Mexico, go 8 miles south on Highway 285 to Highway 31. Turn north and 7 miles on Highway 31. Turn east on Highway 128 and go 4 miles to Rawhide Road ( located between mile markers 4 and 5 ). Turn southeast onto Rawhide Road and go approximately 6.5 miles southerly.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A", "B", and survey plats.

### **POINT 2: NEW PLANNED ACCESS ROUTE**

A) Route Location:

See Exhibit "A" and "B". Proposed road is  $\pm 1050'$  in length.

B) Width

12' wide.

C) Maximum Grade

Not applicable.

D) Turnout Ditches

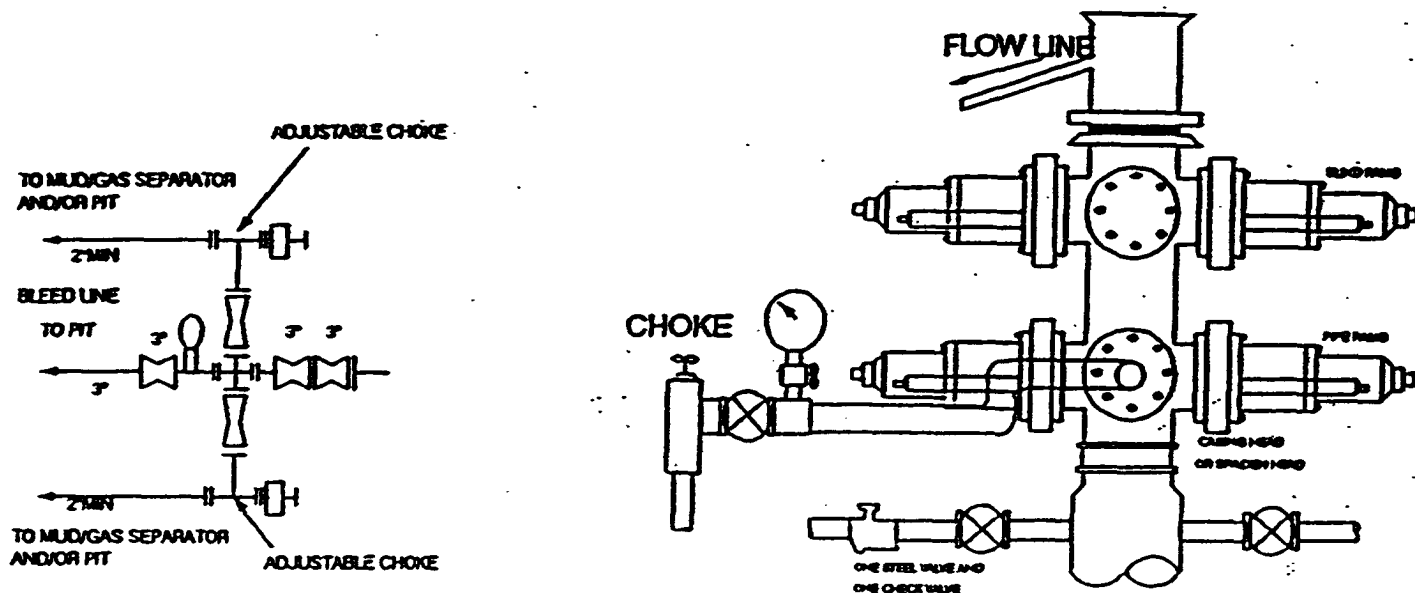
Spaced per BLM requirements.

E) Culverts, Cattle Guards, and Surfacing Equipment

None.



# 2000 PSI WP



## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate blowout preventer with lower rams for pipe and upper rams blind, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G. Valve to control flow through drill pipe to be located on rig floor.
- H. All chokes will be adjustable. Choke spool may be used between rams.

DIAGRAM 1

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Bass Enterprises Production Company  
Well Name & No. Poker Lake Unit #168 - RESUBMITTAL  
Location: 1730' FSL, 660' FWL, Section 5, T. 24 S., R. 30 E., Eddy County, New Mexico  
Lease: NM-068430

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

- A. Well spud
- B. Cementing casing: 8-5/8 inch 5-1/2 inch
- C. BOP tests

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

5. Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface; cable speed not to exceed 30 feet per minute.

### II. CASING:

1. The 8-5/8 inch surface casing shall be set at approximately 600 feet and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the 5-1/2 inch production casing is to be sufficient to reach at least 500 feet above the top of the uppermost productive hydrocarbon bearing interval.

3. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

### III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 8-5/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2000 psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.