

N.M. Oil Cons. Div-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 31 2005

OCU-ARTESIA

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM069627A	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Bass Enterprises Production Co. 1801		7. If Unit or CA Agreement, Name and No. NMNM71016 1796	
3a. Address P. O. Box 2760 Midland, TX 79702		8. Lease Name and Well No. POKER LAKE UNIT 251	
3b. Phone No. (include area code) (432)683-2277 47545		9. API Well No. 30-015-34404	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESE, UL I, 1980 FSL, 785 FEL, LAT. 32.11122, LON 103.54527 At proposed prod. zone SAME		10. Field and Pool, or Exploratory NASH DRAW - DELAWARE	
14. Distance in miles and direction from nearest town or post office* 14 MILES EAST OF MALAGA NM		11. Sec., T., R., M., or Blk, and Survey or Area SEC 30, T24S, R30E, MER NMP	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 785'	16. No. of Acres in lease 1922	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 7800' MD 7800' TVD	20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3180' 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.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan  | 5. Operation certification.  |
| 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). | 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 08/26/2005
Title Production Clerk		
Approved by (Signature) /s/ Joe G. Lara	Name (Printed/Typed) /s/ Joe G. Lara	Date OCT 26 2005
Title ACTING FIELD MANAGER		
Office CARLSBAD FIELD 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)

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 outside 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 Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

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 251
OGRID No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3180

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	24-S	30-E		1980	SOUTH	785	EAST	EDDY

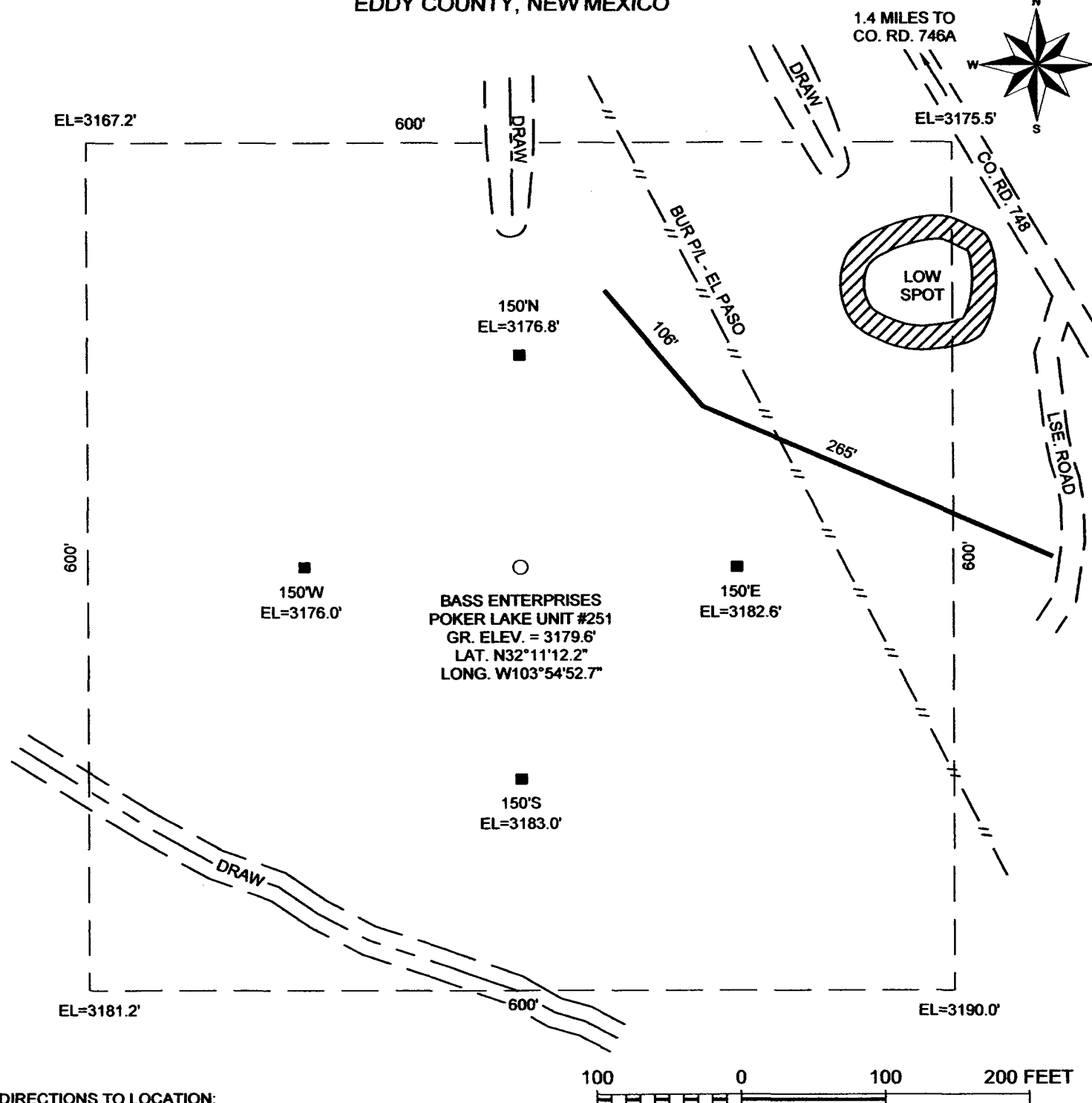
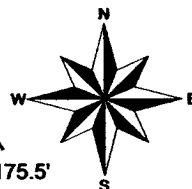
Bottom Hole Location If Different From Surface

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 1 40.28 ACRES	40.00 ACRES	<p>LAT. N32°11'12.2" LONG. W103°54'52.7" 3167.2 3175.5 785' 3181.2 3190.0 1980'</p>	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature W.R. DANNELS Printed Name DIVISION DRILLING SUPT. Title 8/26/05 Date
LOT 2 40.31 ACRES	40.00 ACRES		
LOT 3 40.35 ACRES	40.00 ACRES		
LOT 4 40.38 ACRES	40.00 ACRES		
			<b>SURVEYOR CERTIFICATION</b>  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.   Date Surveyed Signature & Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS

1.4 MILES TO  
CO. RD. 746A



FROM THE INTERSECTION OF CO. RD. 746A AND CO. RD. 748,  
TAKE CO. RD. 748 SE APPROX. 1.4 MILES TO A LEASE ROAD  
THAT GOES OFF IN A SOUTHWESTERY DIRECTION. TAKE  
LEASE ROAD APPROX. 60 FEET TO THE BEGINNING OF PROPOSED  
LEASE ROAD TO PLU#251

THE POKER LAKE UNIT No. 251 LOCATED  
1980' F.S.L. AND 785' F.E.L., SECTION 30  
TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

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

W.O. Number: 5644

**S.STANFIELD**

Date: 8-1-2005

Disk: C:\DRAWINGS\BASS\BASS5644-1

Survey Date: 7-27-2005

Sheet 1 of 1 Sheets

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

**NAME OF WELL: Poker Lake Unit #251**

**LEGAL DESCRIPTION - SURFACE: 1980' FSL & 785' FEL, Section 30, 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 3195' (est)      GL 3180'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Rustler	Not Present		
T/Salt	280'	+2900'	Barren
T/Ramsey Sand	3460'	-280'	Oil/Gas
T/Lwr Brushy Canyon "8" A	7020'	-3835'	Oil/Gas
TD	7800'	-4620'	

**POINT 3: CASING PROGRAM**

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
16"	0' - 40'	Conductor	Contractor Discretion
11-3/4", 42#, H-40, ST&C	0' - 270'	Surface	New
8-5/8", 32#, J-55, LT&C	0' - 3410'	Intermediate	New
5-1/2", 15.5#, J-55, LT&C	0' - 6400'	Production	New
5-1/2", 17#, J-55, LT&C	6400' - 7800'	Production	New

**WITNESS**

\*If there is no flowing sand or Loss Circulation this string will not be run.

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

A BOPE equivalent to requirements of Onshore Oil & Gas Order No. 2 – 2000 psi system (Diagram 1) will be nipped up on the surface casing head. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. when installed on the surface casing head will be hydro-tested to 70% of internal yield pressure of casing or 1000 psig whichever is less with the rig pump. The BOPE when rigged up on the intermediate casing spool will be as described in Diagram 2 and will be tested to 3000 psig by independent tester. (As per Onshore Oil & Gas Order No 2 – 3000 psig system) In addition to the high pressure test, a low pressure (200 psig) 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**

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0' - 270'	FW Spud Mud	8.5 - 9.2	38-70	NC	NC	NC	10.0
270' - 3410'	Brine Water	9.8 - 10.2	28-30	NC	NC	NC	9.5 - 10.5**
3410' - 6000'	FW	8.8 - 9.2	30-34	NC	NC	NC	9.5 - 10.5**
6000' - 6900'	FW/Starch	8.8 - 9.2	30-34	8	2	<100 cc	9.5 - 10.5**
6900' - TD	FW/Starch	8.8 - 9.2	30-34	8	2	<25 cc	9.5 - 10.5**

**\*\* If there is no intermediate casing set @ 3410', the drilling fluid will be 10 ppg BW to 5600' where it will be converted to BW/Diesel with properties as follows: 8.8 - 9 ppg, 32 - 40 funnel secs vis, YP2, PV 8, FL 25 cc or less, Ph 9.5 - 10.**

**NOTE: 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 (+/- 3300').  
GR-CNL-CAL from base of Salt to surface.

**C) CONVENTIONAL CORING**

None anticipated.

**D) CEMENT**

INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	PPG	FT <sup>3</sup> /SX		
<b>SURFACE:</b>								
Lead 0 - 270' (100% excess circ to surface)	240	270	Prem Plus + 2% CaCl <sub>2</sub> + 1/4# Flocele	6.33	14.8	1.35		
<b>INTERMEDIATE:</b>								
Lead 1000' - 2910' (200% excess)	1040	1910	Interfill C	14.11	11.9	2.45		
Tail 2910' - 3410' (200% excess)	200	500	Prem Plus + 2% CaCl <sub>2</sub>	6.37	14.8	1.35		
<b>PRODUCTION:</b>								
Base Slurry w/nitrogen 2960-7800' (50% excess)	700	4840	Premium Plus + 2% Zone Sealant 2000	6.76	9.1-14.5	2.3-1.39	Nitrogen 300/600 scf/bbl	COMPRESSIVE Strength 1200

**E) DIRECTIONAL DRILLING**

No directional services anticipated.

**POINT 7: ANTICIPATED RESERVOIR CONDITIONS**

Normal pressures are anticipated throughout Delaware section. A BHP of 3285 psi (max) or MWE of 8.7 ppg is expected. Lost circulation may exist in the Delaware Section from 3460-7800'. No H<sub>2</sub>S is anticipated.

**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

OCL/cdg  
August 26, 2005

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

**NAME OF WELL: Poker Lake Unit #251**

**LEGAL DESCRIPTION - SURFACE:** 1980 FSL & 785' FEL, Section 30, T-24-S, R-30-E, Eddy County, New Mexico.

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

A) Proposed Well Site Location:

See Exhibit A and Survey Plats

B) Existing Roads:

From Carlsbad, New Mexico, go 8 miles south on Highway 285 to Highway 31. Turn north and go 7 miles on Highway 31. Turn east on Highway 128 and go 4 miles to Rawhide Road (located between mile markers 4 and 5). Go south for 3.8 miles to lease road, then east for 0.25 mile, then south 0.9 miles, then east 0.3 mile, then southeasterly for 5.5 miles, to windmill then westerly for 1.2 miles to Co. Road 748, then southeasterly for approximately 1.0 miles to lease road.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit B and Survey Plats.

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

A) Route Location:

Approximately 370' of new road is required.

B) Width

12'

C) Maximum Grade

Grade to match existing topography or as per BLM requirements.

D) Turnout Ditches

Spaced per BLM requirements.

E) Culverts, Cattle Guards, and Surfacing Equipment

If required, culverts and cattle guards will be set per BLM Specs.

### **POINT 3: LOCATION OF EXISTING WELLS**

Exhibit A indicates existing wells within the surrounding area.



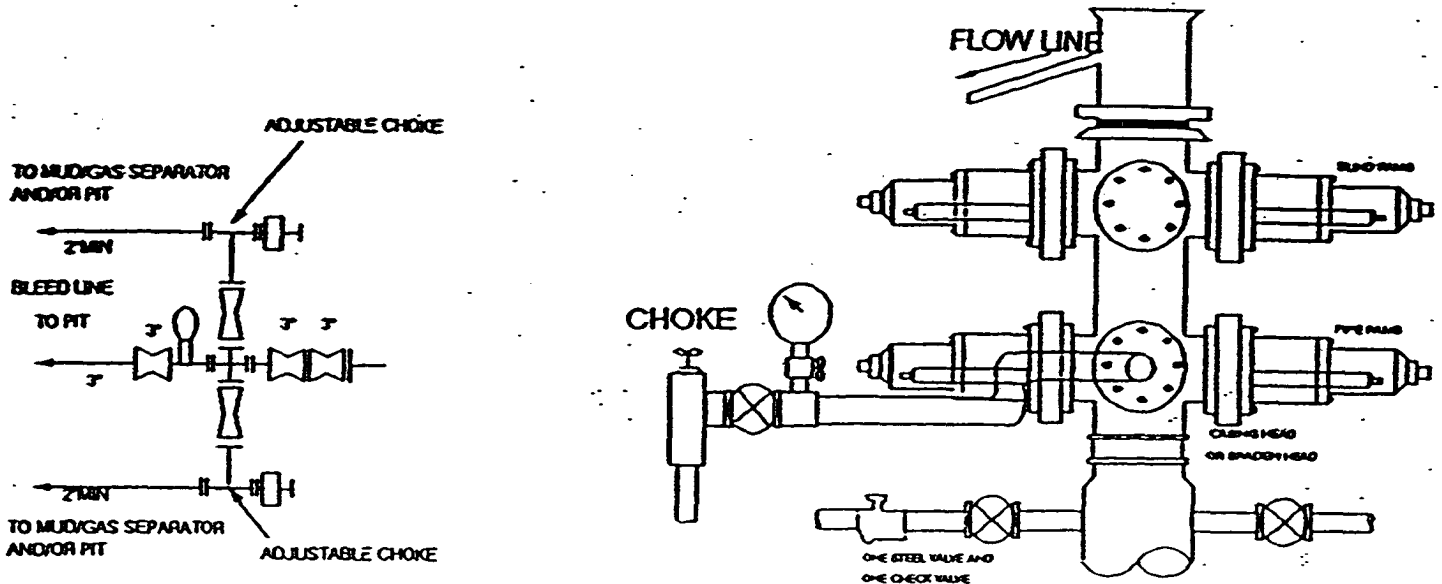
Poker Lake Unit #. 251  
Grey Wolf Rig 15

## Grey Wolf Rig 15

Stair step boundry  
/ if sandy location



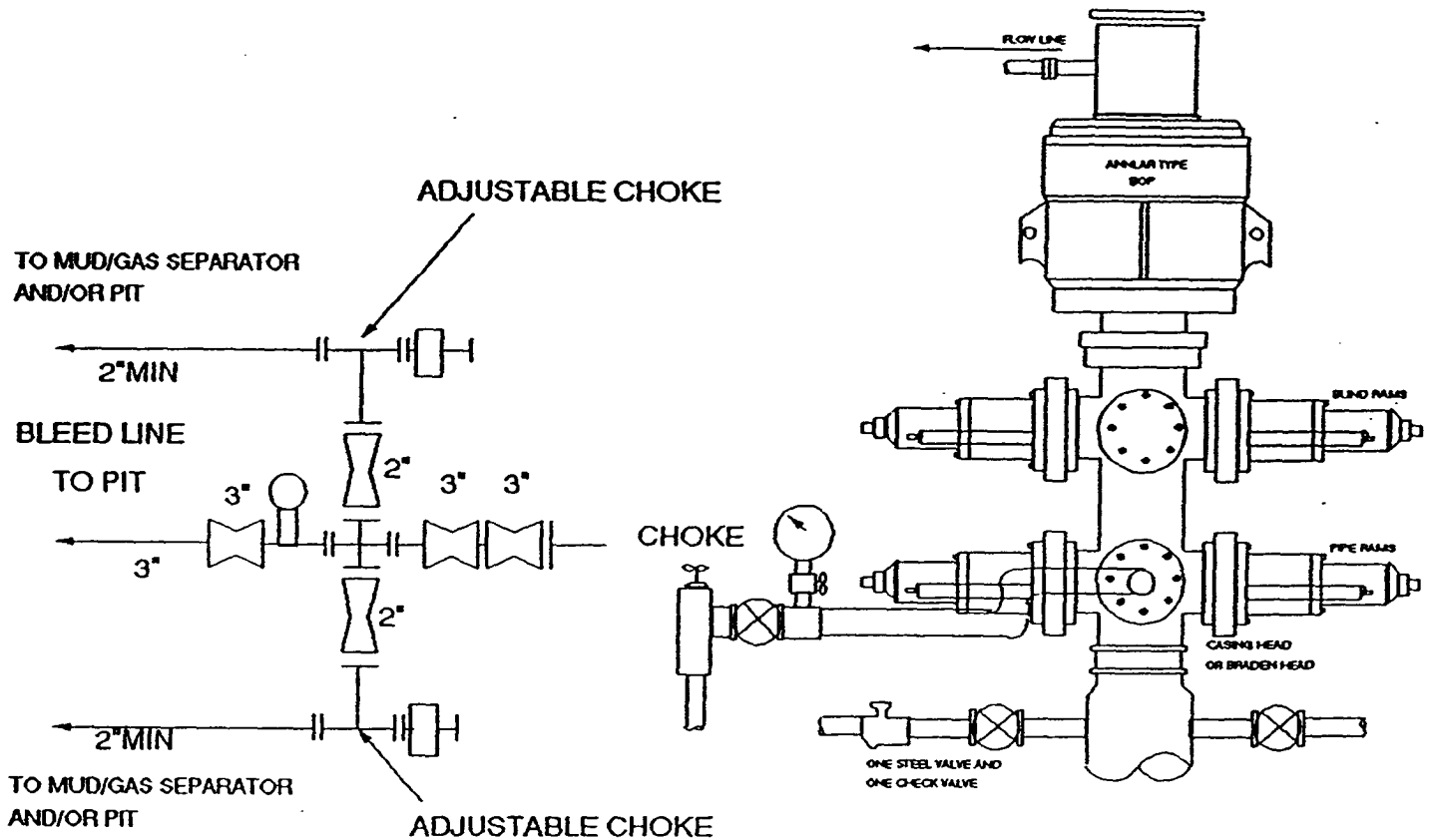
# 2000 PSI WP



## 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.

# 3000 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.

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Bass Enterprises Production Company  
Well Name & No. Poker Lake Unit #251  
Location: 1980' FSL, 785' FEL, Section 30, T. 24 S., R. 30 E., Eddy County, New Mexico  
Lease: LC-069627-A

### 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: 11-3/4 inch 8-5/8 inch (if needed) 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.

### II. CASING:

1. The 11-3/4 inch surface casing shall be set at approximately 270 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 8-5/8 inch intermediate casing (if needed) shall be set at approximately 3410 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.

3. 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.

### 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. Surface casing may be tested with the rig pumps.

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.