

EC

UNITED STATES **OCD-ARTESIA**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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		CONFIDENTIAL	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM030454	
2. Name of Operator BASS ENTERPRISES PRODUCTION CO		6. If Indian, Allottee or Tribe Name	
3a. Address P O BOX 2760 MIDLAND, TX 79702		7. If Unit or CA Agreement, Name and No. NMNM71016X	
3b. Phone No. (include area code) Ph: 432.683.2277 Fx: 432.687.0329		8. Lease Name and Well No. POKER LAKE UNIT 197	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NESW 1650FSL 1980FWL At proposed prod. zone NESW 1650FSL 1980FWL		9. API Well No. <div style="text-align: center; font-weight: bold;">30-015-32171</div>	
14. Distance in miles and direction from nearest town or post office* 21 MILES EAST OF MALAGA, NEW MEXICO		10. Field and Pool, or Exploratory WILDCAT <i>Under Poker Lake Merrow</i>	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660		11. Sec., T., R., M., or Blk. and Survey or Area Sec 33 T24S R31E Mer NMP	
16. No. of Acres in Lease 1041.87		12. County or Parish EDDY	
17. Proposed Depth 15550 MD		13. State NM	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1000		19. Spacing Unit dedicated to this well 320.00	
20. Elevations (Show whether DF, KB, RT, GL, etc.) 3441 GL		21. BLM/BIA Bond No. on file	
22. Approximate date work will start 04/01/2004		23. Estimated duration 70 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. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer. |
|--|--|

25. Signature (Electronic Submission)	Name (Printed/Typed) TAMI WILBER	Date 02/03/2004
Title PRODUCTION CLERK		
Approved by (Signature) /s/ Leslie A. Theiss	Name (Printed/Typed) /s/ Leslie A. Theiss	Date 3 MAR 2004
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval does not warrant or certify 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #27111 verified by the BLM Well Information System
For BASS ENTERPRISES PRODUCTION CO, sent to the Carlsbad
Committed to AFMSS for processing by LINDA ASKWIG on 02/03/2004 (04LA0105AE)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Witness Surface Casing

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional Operator Remarks:

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

Intermediate casing will be set through the salt/anhydrite section.

7" Production Cement will tie back 450' into the 9-5/8" intermediate casing.

An archeological survey will be obtained to expand drilling pad to 750' x 750'.

DISTRICT I

1826 E. French Dr., Hobbs, NM 58240

DISTRICT II

811 South First, Artesia, NM 88210

DISTRICT III

1006 Rio Brazos Rd., Artesia, 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	Pool Name
Property Code 001796	Property Name POKER LAKE UNIT	Well Number 197
OGED No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3441'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	33	24 S	31 E		1650	SOUTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

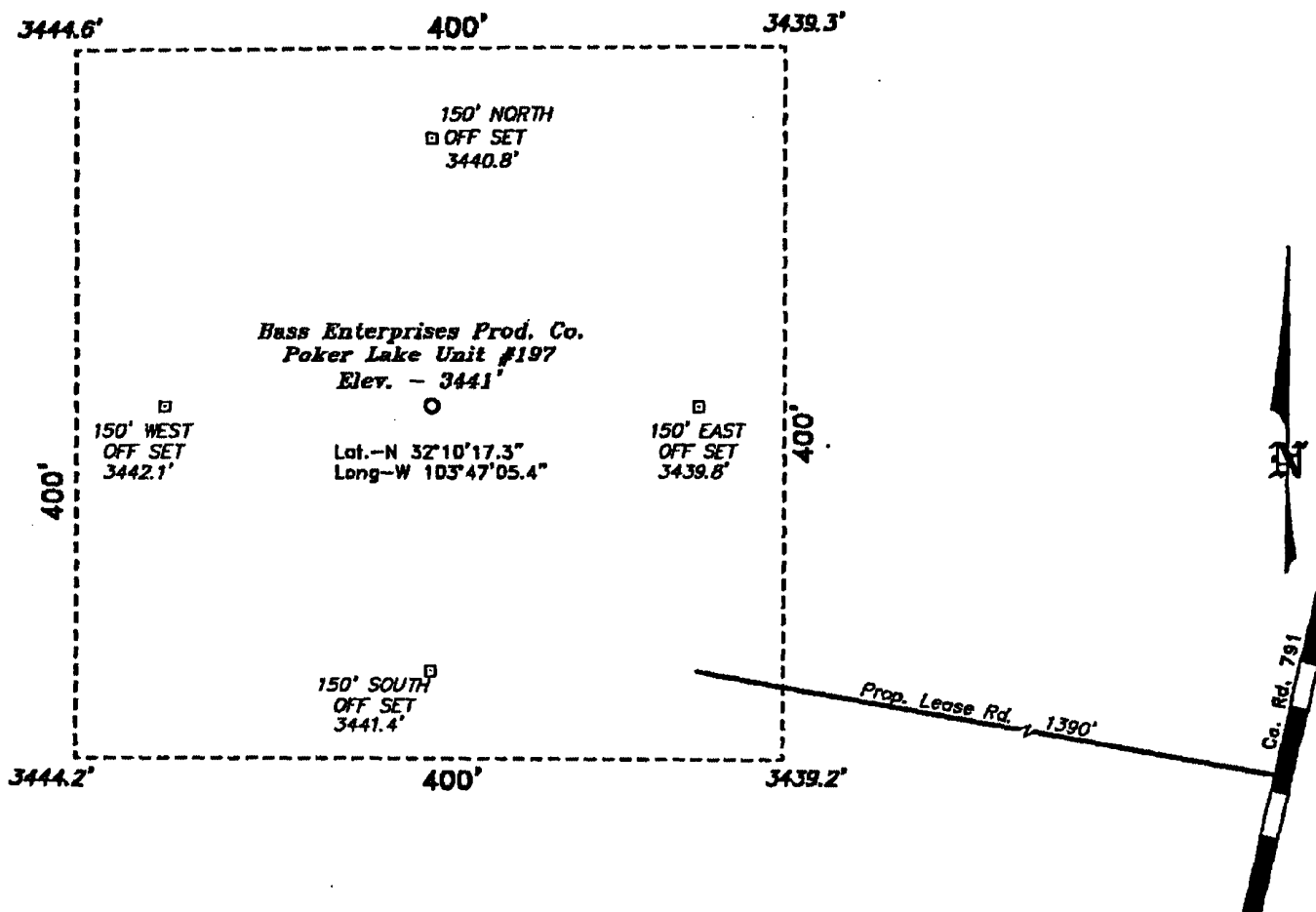
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill N	Consolidation Code	Order No.
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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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>William R. Dannels</i> Signature Williams R. Dannels Printed Name Division Drilling Supt. Title 1-28-04 Date	
	SURVEYOR CERTIFICATION 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. August 27, 2001 Date Surveyed Signature of Surveyor Professional Surveyor State of New Mexico No. 7511 Certificate No. 7977 BASIN SURVEYS	

SECTION 33, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF STATE HWY 128 & CO. RD. 788, GO SOUTHWEST ON CO. RD. 788 APPROX. 4.5 MILES TO CO. RD. 791; THENCE SOUTH ON CO. RD. 791 APPROX. 1.5 MILE TO A PROPOSED LEASE ROAD.

BASS ENTERPRISES PRODUCTION CO.

REF: Poker Lake Unit No. 197 / Well Pad Topo

THE POKER LAKE UNIT No. 197 LOCATED 1650' FROM THE SOUTH LINE AND 1980' FROM THE WEST LINE OF SECTION 33, TOWNSHIP 24 SOUTH, RANGE 31 EAST,

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

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

W.O. Number: 1811

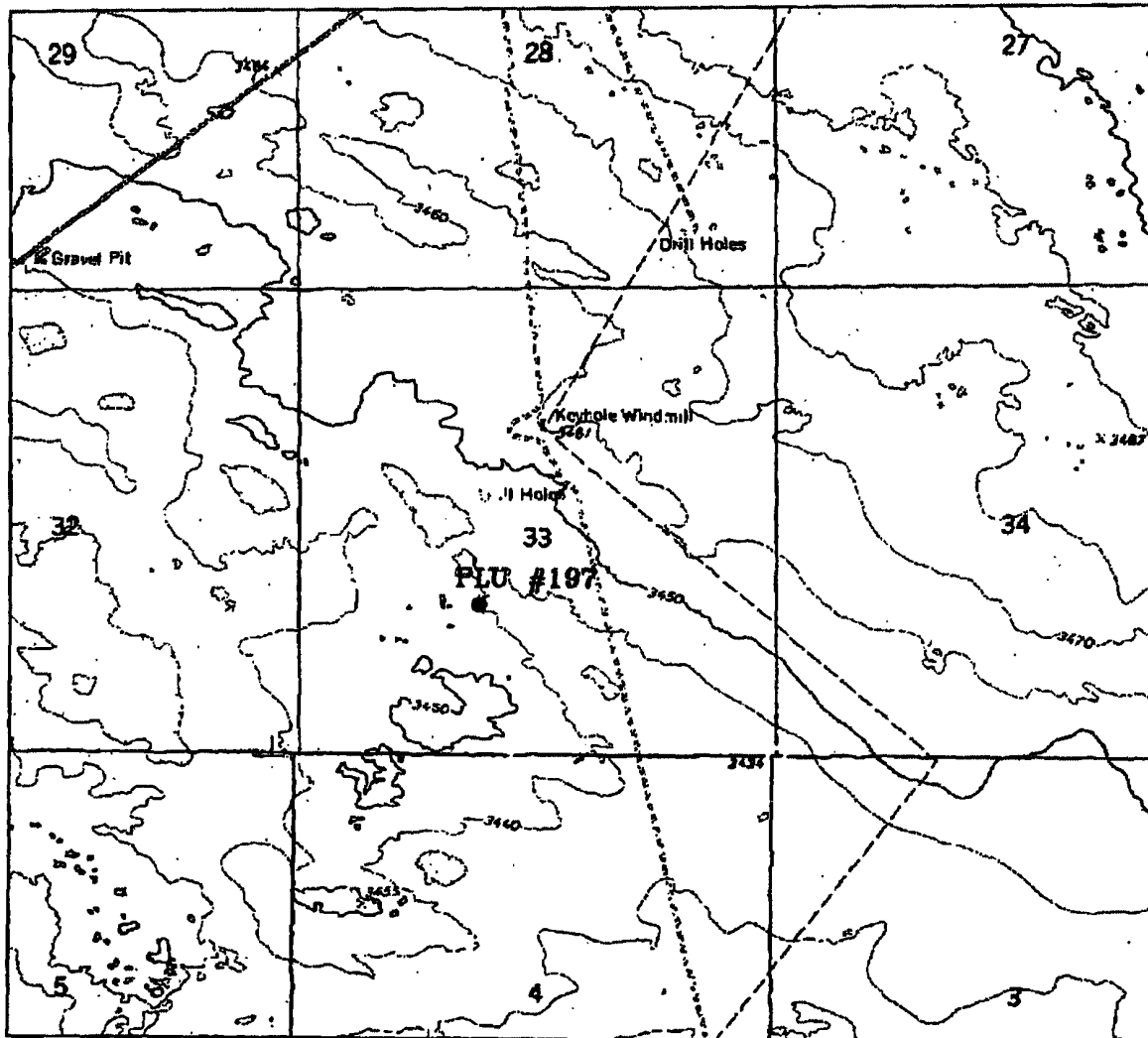
Drawn By: K. GOAD

Date: 08-28-2001

Disk: KJC CD#3 - 1811A.DWG

Survey Date: 08-27-2001

Sheet 1 of 1 Sheets



POKER LAKE UNIT #197

Located at 1650' FSL and 1980' FWL
 Section 33, Township 24 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basin-surveys.com

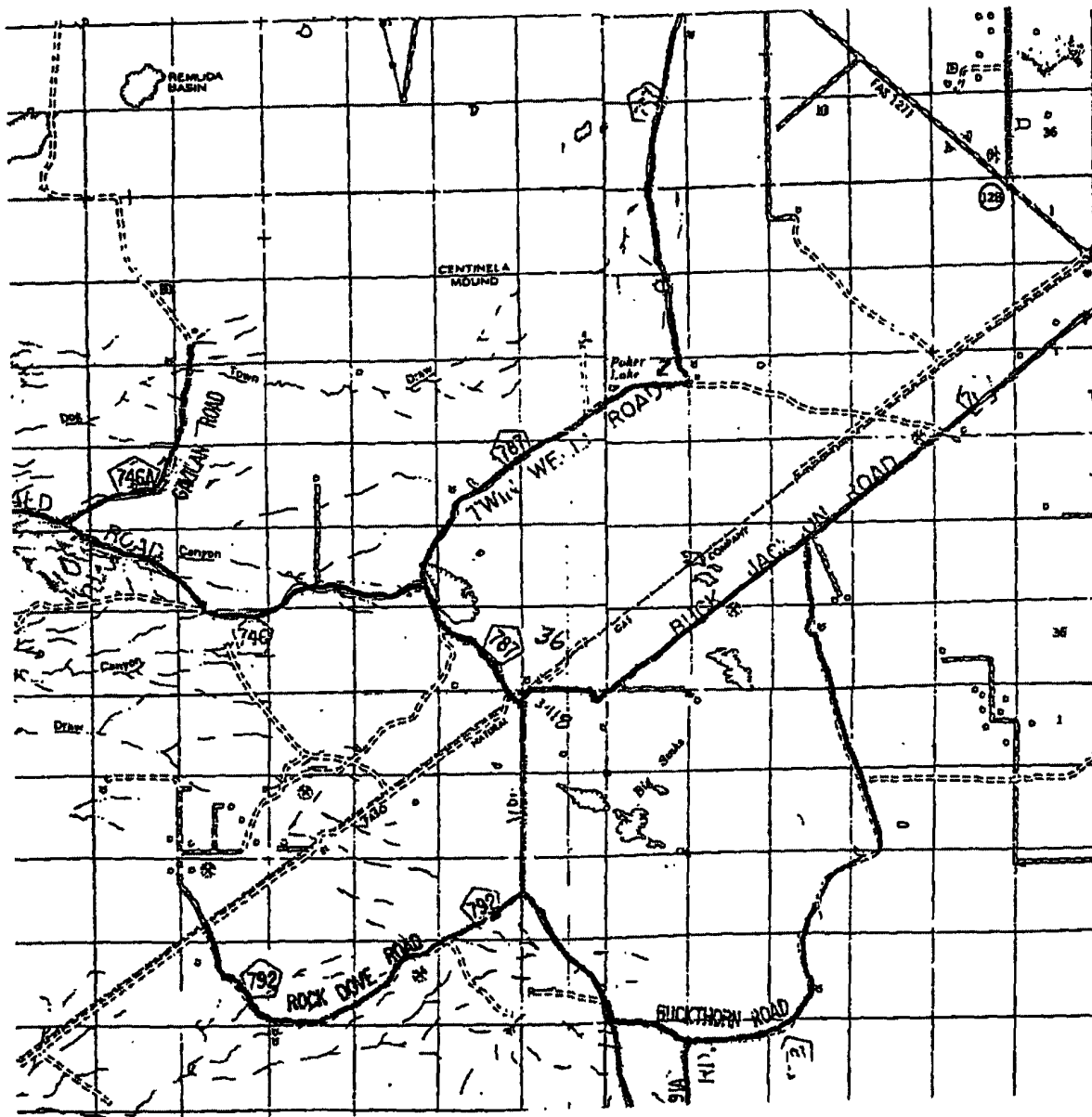
W.O. Number: 1811AA - KJG CD#3

Survey Date: 08-27-2001

Scale: 1" = 2000'

Date: 08-28-2001

**BASS ENTERPRISES
 PRODUCTION CO.**



POKER LAKE UNIT #197

Located at 1650' FSL and 1980' FWL
 Section 33, Township 24 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.

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P.O. Box 1788
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 382-3074 - Fax
 basin-surveys.com

W.O. Number: 1811AA - KJG CD/3

Survey Date: 08-27-2001

Scale: 1" = 2 MILES

Date: 08-28-2001

BASS ENTERPRISES
PRODUCTION CO.

EIGHT POINT DRILLING PROGRAM BASS ENTERPRISES PRODUCTION CO.

NAME OF WELL: POKER LAKE UNIT #197

LEGAL DESCRIPTION - SURFACE: 1650' FSL & 1980' FWL, Section 33, T24S, R31E, 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 3467' (est)
GL 3441'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUB SEA TOP</u>	<u>BEARING</u>
T/Rustler	617'	+2,850'	Barren
T/Salt	937'	+2,530'	Barren
B/Salt	4,122'	- 655'	Barren
T/Lamar Lime	4,342'	- 875'	Barren
T/Delaware Sands	4,382'	- 915'	Oil/Gas
T/Bone Spring	8,197'	- 4,730'	Oil/Gas
T/Wolfcamp	11,547'	- 8,080'	Oil/Gas
T/Wolfcamp Detrital	12,867'	- 9,400'	Oil/Gas
T/Atoka	13,837'	-10,370'	Oil/Gas
T/Morrow	14,592'	-11,125'	Oil/Gas
T/Middle Morrow	15,092'	-11,625'	Oil/Gas
T/Lower Morrow	15,532'	-12,065'	Oil/Gas
TD	15,550'	-12,083'	

POINT 3: CASING PROGRAM

<u>TYPE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
20"	0' - 40'	Conductor	New
13-3/8", 54.5#, J-55, STC	0' - 875'	Surface	New
9-5/8", 40#, N-80, LTC	0' - 2,000'	Intermediate	New
9-5/8", 40#, K-55, LTC	2,000' - 4,350'	Intermediate	New
7", 26#, P-110, LTC	0' - 11,000'	Intermediate	New
7", 26#, S-95, LTC	11,000' - 12,700'	Intermediate	New
4-1/2", 15#, P-110, STL	12,700' - TD	Production Liner	New

WITNESS

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAMS)

A BOP equivalent to Diagram 1 will be nipped up on the surface, first, and second intermediate casings. Bass requests a waiver on Onshore Order #2 which states the BOPs and associated equipment must be tested to the rated working pressure or 70% of the internal yield pressure. Our plans are to test the BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. hydrostatically to 1,000 psi on the surface installation, then 3,000 psi on the first intermediate and 10,000 psi on the second intermediate casing. The annular will be tested to 2500 psi. In addition to the high pressure test, a low pressure (250 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. See attached Diagram 1 for the minimum criteria for the choke manifold.

POINT 5: MUD PROGRAM

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0' - 875'	FW	8.5 - 9.2	45-35	NC	NC	NC	9.5
875' - 4,350'	CBW	9.2 - 10.0	28-30	NC	NC	NC	9.5
4,350' - 11,500'	FW	8.6 - 8.9	28-30	4	2	NC	9.5
11,500' - 12,700'	CBW	8.6 - 9.0	28-30	6	4	NC	9.5
12,700' - TD	CBW/Polymer	9.0 - 13.5	32-55	12-20	12-22	10-15	9.5 - 10.0

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

Dill stem test may be performed on significant shows in zones of interest, but none are anticipated.

B) LOGGING

Run #1:

GR-CNL-LDT-LLD run from TD to 1st ICP, GR-CLN to surface. May run logging suite across Delaware prior to drilling below 7400' if mud log shows warrant.

Run #2:

GR-CNL-LDT-LLD run from TD to second ICP, FMI across Wolfcamp as needed.

C) CORING

No cores are anticipated.

POINT 6: TECHNICAL STAGES OF OPERATION – Cont'd...

Page 3

D) CEMENT:

<u>INTERVAL</u> <u>SURFACE</u>	<u>AMOUNT</u> <u>SXS</u>	<u>FT OF</u> <u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
Lead 0'-575' (100% excess)	560	575	Permian Basin Critical Zone + 1/8#/sx Pol-e-flake	10.30	12.80	1.89
Tail 575'-875' (100% excess)	340	300	Premium Plus + 2% CaCl ₂ + 1/8#/sx Pol-e-flake	6.32	14.80	1.34

INTERMEDIATE

<u>INTERVAL</u>	<u>AMOUNT</u> <u>SXS</u>	<u>FT OF</u> <u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
Lead 0'-3800' (100% excess)	910	3800	Interfill C + 1/8#/sx Pol-e-flake	14.10	11.90	2.45
Tail 3800'-4350' (100% excess)	290	550	Premium Plus + 2% CaCl ₂	6.34	14.80	1.34

PRODUCTION (Two stage w/DV tool @ 9000' and circulate cement to 3950')

<u>INTERVAL</u>	<u>AMOUNT</u> <u>SXS</u>	<u>FT OF</u> <u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
1 st Stage						
Lead 9000'-12,000' (50% excess)	280	3000	Interfill H + 5 pps Gilsonite + 0.5% Halad 9 + 1/8 pps Pol-e-flake	13.61	11.90	2.46
Tail 12,000'-12,700' (50% excess)	100	700	Super H + 0.5% Halad 344 + 0.4% CFR3 + 5 pps Gilsonite + 1 pps Salt + 0.2% HRT	8.20	13.00	1.67
2 nd Stage						
Lead 3800'-8,300' (50% excess)	420	4500	Interfill H + 1/8 pps Pol-e-flake + 0.5% Halad 9	14.00	11.90	2.45
Tail 8,300'-9,000' (50% excess)	100	700	Super H + 0.5% Halad 344 + 0.4% CFR3 + 5 pps Gilsonite + 1 pps Salt + 0.2% HRT	8.20	13.00	1.67
PRODUCTION LINER						
12,400'-15,550' (25% excess 300' overlap)	370	3150	Class H + 0.8% Halad 322 + 0.8% Halad 344 + 0.2% HR-7 + 5 pps Microbond M	5.68	15.40	1.28

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware and Bone Spring. The Lower Wolfcamp may be abnormally pressured with a BHP of 8200 psi or an equivalent mud weight of 12.2 ppg. The Atoka may be abnormally pressured with expected BHP of 9680 psi (max) or an equivalent mud weight of 13.5 ppg. The Morrow expected BHP is 8300 (max) or an equivalent mud weight of 10.5 ppg @ the base of the zone. Due to the tight nature of the reservoir rock (high pressure, low volume), the well will be drilled under balanced utilizing a rotating head. No H2S is anticipated.

POINT 8: OTHER PERTINENT INFORMATION**A) Auxillary Equipment**

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

B) Anticipated Starting Date

Upon approval

70 days drilling operations

25 days completion operations

BGH/mac
February 3, 2004

MULTI-POINT SURFACE USE PLAN

NAME OF WELL: POKER LAKE UNIT #197

LEGAL DESCRIPTION - SURFACE: 1650' FSL & 1980' FWL, Section 33, T24S, R31E, Eddy County, New Mexico.

POINT 1: EXISTING ROADS

A) Proposed Well Site Location:

See Exhibit "A".

B) Existing Roads:

From State Hwy 128 & CR 788, go southwest 4.5 miles on Buck Jackson county road, then turn south on county road 791 (Buckthorn road) and go 1.5 miles to proposed caliche road and turn west for approximately 0.3 miles into location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "A".

POINT 2: NEW PLANNED ACCESS ROUTE

A) Route Location:

See Exhibit "A and survey plats. The new road will be approximately 1,390' long.

B) Width

12' wide.

C) Maximum Grade

Not applicable.

D) Turnout Ditches

Spaced per BLM requirements.

E) Culverts, Cattle Guards, and Surfacing Equipment

None.

POINT 3: LOCATION OF EXISTING WELLS

Exhibit "B" indicates existing wells within the surrounding area.

POINT 4: LOCATION OF EXISTING OR PROPOSED FACILITIES

- A) Existing facilities within one mile owned or controlled by lessee/operator:

PLU #50 located in Section 4, T25S, R31E.

- B) New Facilities in the Event of Production:

Will build new facilities on this location.

- C) Rehabilitation of Disturbed Areas Unnecessary for Production:

Those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in with the surrounding topography (See Point 10).

POINT 5: LOCATION AND TYPE OF WATER SUPPLY

- A) Location and Type of Water Supply

Brine water will be hauled from commercial facilities. Fresh water to be hauled from Carlsbad, New Mexico; Mills Ranch; or Diamond and Half Water Station.

- B) Water Transportation System

Water hauling to the location will be over existing and proposed roads.

POINT 6: SOURCE OF CONSTRUCTION MATERIALS

- A) Materials

Surface caliche will be used if possible. If not found on location, caliche service will be nearest BLM – approved open pit.

- B) Land Ownership

Federally owned land for both surface location and bottom hole location.

- C) Materials Foreign to the Site

No construction materials foreign to this area are anticipated for this drill site.

- D) Access Roads

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

POINT 7: ANTICIPATED RESERVOIR CONDITIONS**A) Cuttings**

Cuttings will be contained in the plastic lined reserve pit.

B) Drilling Fluids

Drilling fluids will be contained in the plastic lined reserve pit.

C) Produced Fluids

Water production will be contained in the plastic lined reserve pit.

Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks. Prior to cleanup operations, any hydrocarbon material in the reserve pit will be removed by skimming or burning, as the situation would dictate.

D) Sewage

Current laws and regulations pertaining to the disposal of human waste will be complied with.

E) Garbage

Portable containers will be utilized for garbage disposal during the drilling of this well.

F) Cleanup of Well Site

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicates potential productive zones. In any case, the "mouse" hole and the "rat" hole will be covered. The reserve pit will be bird netted and fenced only in the event of livestock present. The fence will be maintained until the pit is backfilled. Reasonable cleanup will be performed prior to the final restoration of the site.

POINT 8: ANCILLARY FACILITIES**A) None.****POINT 9: WELL SITE LAYOUT****A) Rig Orientation and Layout**

Exhibit "C" shows the dimensions of the well pad and reserve pits, and the location of major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.

B) Locations of Pits and Access Road

See Exhibit "A" and "B".

C) Lining of the pits

The reserve pits will be lined with plastic.

POINT 10: PLANS FOR RESTORATION OF THE SURFACE**A) Reserve Pit Cleanup**

The pits will be fenced immediately after spudding only in the event of livestock present and maintained until backfilled. Prior to back filling, any hydrocarbon material on the pits' surfaces shall be removed. The fluids and solids contained in the pits shall be backfilled with soil excavated from the site and soil adjacent to the reserve pits. The restored surface of the pits shall be contoured to prevent impoundment of surface water flow. Water-bars will be constructed as needed to prevent excessive erosion. Topsoil, as available, shall be placed over the restored surface in a uniform layer. The area will be seeded according to the Bureau of Land Management stipulations during the appropriate season following restoration.

B) Restoration Plans - Production Developed

Reserve pits will be backfilled and restored as described above under Item A. In addition, those areas not required for production will be graded to blend with the surrounding topography. Topsoil, as available, will be placed upon those areas and seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C) Restoration Plans - No Production Developed

Reserve pits will be restored as described above. With no production developed, the entire surface disturbed by construction of the well site will be restored. The site will be contoured to blend with the surrounding topography and provide drainage of surface water. The topsoil, as available, shall be replaced in a uniform layer and seeded according to the Bureau of Land Management's stipulations.

D) Rehabilitations Time table

Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

POINT 11: OTHER INFORMATION**A) Terrain**

Relatively flat.

B) Soil

Caliche and sand.

C) Vegetation

Sparse, primarily grasses and mesquite with very little grass.

D) Surface Use

Primarily grazing.

POINT 11: OTHER INFORMATION – Con't...**E) Surface Water**

There are no ponds, lakes, streams, or rivers within several miles of the wellsite.

F) Water Wells

There is one windmill located west northwest of this location.

G) Residences and Buildings

No buildings within several miles of well site.

H) Historical Sites

None observed.

I) Archeological Resources

An archeological survey for a 400' X 400' pad was submitted by Laura Michalik on Oct 31, 2001. An archeological survey to expand the drill site to 750' X 750' will be obtained for this area. Before any construction begins, full and complete archeological survey will be submitted to the Bureau of Land Management. Any location or construction conflicts will be resolved before construction begins.

J) Surface Ownership

The well site and access road are both on federally owned land. No ROW will be required.

K) Well signs will be posted at the drilling site.**L) Open Pits**

All pits containing liquid or mud will be fenced only in the event of livestock present and bird netted.

POINT 12: OPERATOR'S FIELD REPRESENTATIVE

(Field personnel responsible for compliance with development plan for surface use).

DRILLING

William R. Dannels
Box 2760
Midland, Texas 79702
(432) 683-2277

PRODUCTION

Mike Waygood
3104 East Green Street
Carlsbad, New Mexico 88220
(505) 887-7329

Kent Adams
Box 2760
Midland, Texas 79702
(432) 683-2277

POINT 13: CERTIFICATION

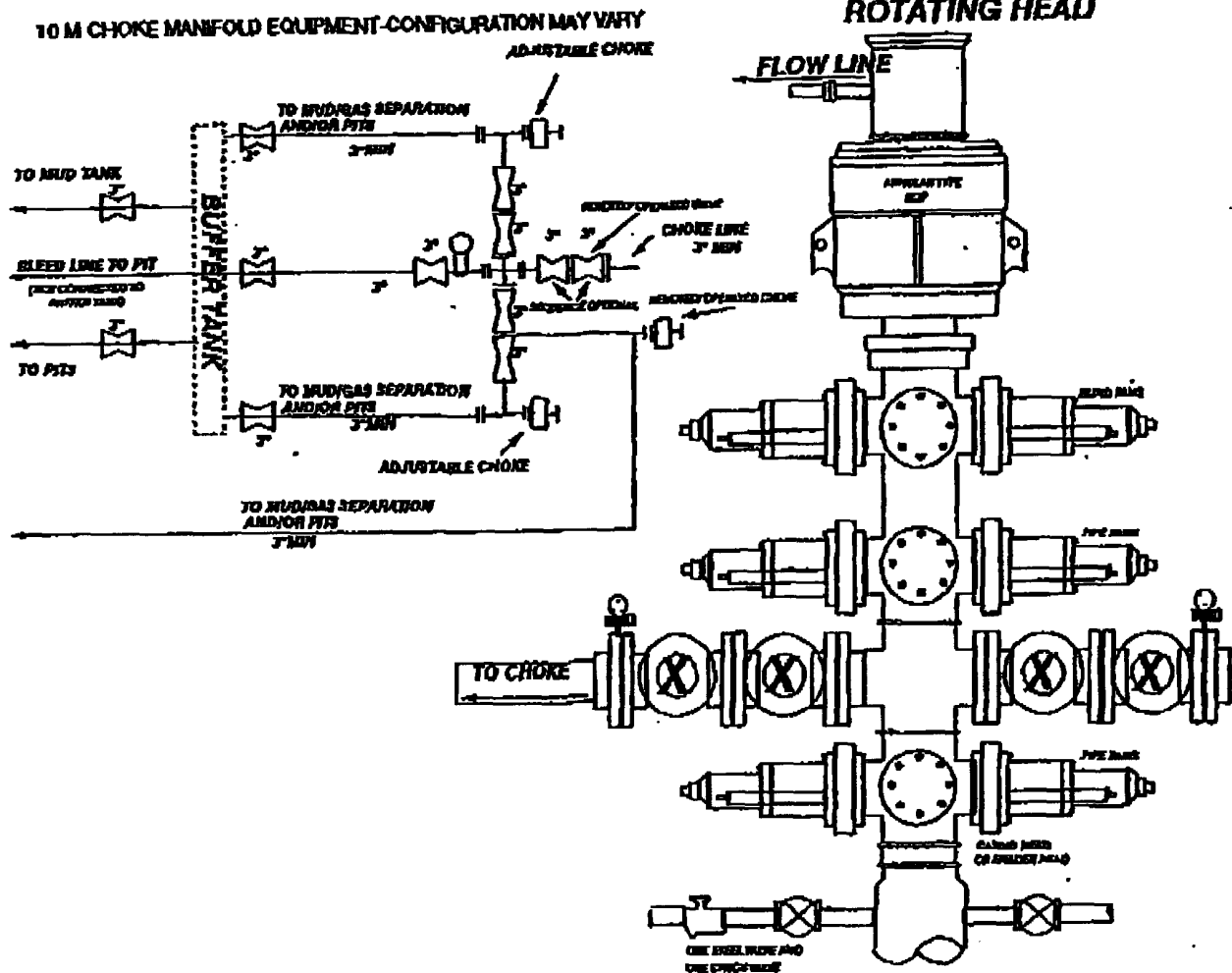
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bass Enterprises Production Co. and it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

1-28-04
Date

William R. Dannels
William R. Dannels

BGH:mac

10-M. WP BOPE WITH 5-M WP ANNULAR



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS:

- A. Opening between the ram to be flanged, studded, or clamped.
- B. All connections from operating manifolds to preventers to be all steel hose or tube a minimum of one inch diameter.
- C. 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 preventors.
- D. ALL connections to and from preventer to have a pressure rating equivalent to that of the BOPs.
- E. Manual controls to be installed before drilling cement plug.
- F. Kelly cock to be installed on kelly.
- G. Inside blowout preventer to be available on rig floor.
- H. Dual operating controls: one located by drillers position and the other located a safe distance from the rig floor.
- I. All chokes will be adjustable.

