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### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

### IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 366 ORDER NO. R-153

THE MATTER OF THE APPLICATION OF RICHARDSON & BASS, A CO-PARTNER-SHIP, FOR APPROVAL OF THE POKER LAKE UNIT AGREEMENT, EMBRACING 68,990.83 ACRES IN EDDY COUNTY, NEW MEXICO, WITHIN TOWNSHIPS 23, 24, 25 AND 26 SOUTH, RANGES 29, 30 AND 31 EAST, NMPM.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 28, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 1st day of May, 1952, the Commission, a quorum being present, having considered said application and the evidence introduced in support thereof, and being fully advised in the premises,

#### FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the proposed unit plan will in principle tend to promote the conservation of oil and gas and the prevention of waste.

#### IT IS THEREFORE ORDERED:

SECTION 1. That this order shall be known as the

#### POKER LAKE UNIT AGREEMENT ORDER

SECTION 2. (a) That the project herein referred to shall be known as the Poker Lake Unit Agreement, and shall hereafter be referred to as the "Project". -2-Case No. 366 Order No. R-153

(b) That the plan by which the Project shall be operated shall be embraced in the form of a unit agreement for the development and operation of the Poker Lake Unit Area referred to in the Petitioner's petition and filed with said petition, and such plan shall be known as the Poker Lake Unit Agreement Plan.

SECTION 3. That the Poker Lake Unit Agreement Plan shall be, and hereby is, approved in principle as a proper conservation measure; provided, however, that notwithstanding any of the provisions contained in said unit agreement this approval shall not be considered as waiving or relinquishing in any manner any rights, duties or obligations which are now, or may hereafter, be vested in the New Mexico Oil Conservation Commission by law relative to the supervision and control of operations for exploration and development of any lands committed to said Poker Lake Unit Agreement, or relative to the production of oil or gas therefrom.

SECTION 4. (a) That the Unit Area shall be:

#### NEW MEXICO PRINCIPAL MERIDIAN

Twp. 24 S., Rge. 29 E. Sec. 1: Lot 1, SE/4 NE/4, SE/4 Sec. 12: E 1/2 Sec. 13: E 1/2 Sec. 24: E 1/2

Twp. 23 S., Rge. 30 E. Sec. 31: SE/4, E 1/2 SW 1/4Sec. 32: All Sec. 33: All Sec. 34: W 1/2 W 1/2

Twp. 24 S., Rge. 30 E. Sec. 2: S 1/2 Secs. 3 to 11, both inclusive: All Secs. 14 to 36, both inclusive: All

Twp. 25 S., Rge. 30 E. Secs. 1 to 4, both inclusive: All Sec. 5: Lots 1, 2, 3 and 4, S 1/2 N 1/2, E 1/2 SE 1/4Sec. 8 : E 1/2 E 1/2, W 1/2 SE 1/4, E 1/2 SW 1/4Secs. 9 to 17, both inclusive: All Sec. 18: Lots 3 and 4, NE 1/4, E 1/2, SW 1/4, SE 1/4Secs. 19 to 29, both inclusive: All Sec. 30: NE 1/4, E 1/2 SE 1/4Secs. 31: E 1/2 NE 1/4Secs. 32 to 36, both inclusive: All -3-. Case No. 366 Order No. R-153

Twp. 26 S., Rge. 30 E. Secs. 1 to 3, both inclusive: All Sec. 4: NE 1/4 Sec. 10: N 1/2 Sec. 11: N 1/2 Sec. 12: N 1/2

Twp. 24 S., Rge. 31 E. Secs. 19 to 22, both inclusive: All Secs. 27 to 33, both inclusive: All Sec. 34: W 1/2

Twp. 25 S., Rge. 31 E. Sec. 3: Lots 3 and 4, S 1/2 NW 1/4, SW 1/4Secs. 4 to 9, both inclusive: All Sec. 10: W 1/2Sec. 15: W 1/2 W 1/2Sec4 16 to 21, both inclusive: All Sec. 22: NW 1/4 NW 1/4, SW 1/4 SW 1/4Sec. 27: W 1/2 W 1/2Secs. 28 to 33, both inclusive: All Sec. 34: S 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4

Twp. 26 S., Rge. 31 E. Sec. 3: W 1/2 NW 1/4 Secs. 4 to 6, both inclusive: All

Total unit area: 68,990.83 acres, more or less.

(b) The unit area may be enlarged or contracted as provided in said Plan.

SECTION 5. That the unit operator shall file with the Commission an executed original or executed counterpart of the Poker Lake Unit Agreement within 30 days after the effective date thereof.

SECTION 6. That any party owning rights in the unitized substances who does not commit such rights to said unit agreement before the effective date thereof may thereafter become a party thereto by subscribing to such agreement or counterpart thereof, or by ratifying the same. The unit operator shall file with the Commission within 30 days an original of any such counterpart or ratification.

SECTION 7. That this order shall become effective upon approval of said unit agreement by the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, and shall terminate ipso facto upon the termination of said unit agreement. The last unit -4-Case No. 366 Order No. R-153

operator shall immediately notify the Commissioner in writing of such termina - tion.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

GUY SHEPARD, Member

R. R. SPURRIER, Secretary

SEAL

14 MILES EAST OF MALAGA, NM       EDDY       N         15. Distance from porposed*       1980'       16. No. of Acres in lease       17. Spacing Unit dedicated to this well         16. No. of Acres in lease       17. Spacing Unit dedicated to this well       18. Distance from proposed location*       990'       19. Proposed Depth       20. BLM/BIA Bond No. on file         18. Distance from proposed location*       990'       19. Proposed Depth       20. BLM/BIA Bond No. on file       21. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start*       23. Estimated duration         3236' GL       07/01/2005       12 DAYS         CARLSBAD CONTROLLED WATER E         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 letting 20 above).       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).       1. Name ( <i>Printed/Typed</i> )       Date	
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Form 3160- August 1999)       UNITED STATES DEPARTMENT OF THE INTERIOR UUN 2 5 2005       FECEIVEL JUN 2 5 2005       Expires November 30, 20 Expires November 30, 20 Stread 0 et al.         1a. Type of Work:       DRILL       REENTER SECRETARY'S POTASH B. Type of Work:       I. If Indian, Allotec or Tribe Name POKER LACK UNIT FOR PERMIT TO DRILL OR REENTER SECRETARY'S POTASH B. Type of Work:       I. If Wale or CA Agreement, Name POKER LACK UNIT Base Entreprises Production Co.       ISD 1         1a. Type of Work:       DRILL       REENTER SECRETARY'S POTASH B. Type of Work:       I. Unit or CA Agreement, Name POKER LACK UNIT Base Entreprises Production Co.       ISD 1         1b. Type of Werk:       DO NOT POKER LACK UNIT Base Entreprises Production Co.       ISD 1       I. Unit For DOKER LACK UNIT Base Entreprises Production Co.       ISD 1         1b. Type of Werk:       DO NOT POKER LACK UNIT Base Entreprises Production Co.       ISD 1       I. Unit For Boy For L 2310' FWL, LAT 32.14543, LON. 103.55203       I. Dece duel tool, get Explorator, NASH DRAW - DELAW/ I. Dece duel decident from nerest town or post office*         14 Distance in miles and direction from nearest town or post office*       I. No. of Acres in Icase       I7. Spacing Unit dedicated to this well to poperty or lass line, f. (Also to nearest freg. nit line, if any)       I. Bead Pool, get Explorator, NASH DRAW - DELAW/         15. Distance from proposed from the requirements of Onshore Oil and Gas Oter No. 1, shall be attached to this form:       I. Department freg. Infin (Also to nearest freg. nit line, if any)       I. State Bord NO	
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3a. Address P. O. Box 2760 Midland, TX 79702       3b. Phone Na. (include area code) (432)683-2277       10. Field and Pool, or Exploratory NASH DRAW - DELAW/         4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surfaceSENW, UNIT F, 1980' FNL 2310' FWL, LAT. 32.14543, LON. 103.55203 At proposed prod. zone SAME       10. Field and Pool, or Exploratory NASH DRAW - DELAW/         14. Distance in miles and direction from nearest town or post office*       12. County or Parish EDDY       13. EDDY         15. Distance from porposed ''       1980'       16. No. of Acres in lease location to nearest foot to nearest drig, unit line, if any)       19. Proposed Depth       20. BLM/BIA Bond No. on file         18. Distance from porposed locations''       990'       19. Proposed Depth       20. BLM/BIA Bond No. on file         18. Distance from porposed locations''       990'       19. Proposed Depth       20. BLM/BIA Bond No. on file         18. Distance from proposed locations''       990'       19. Proposed Depth       20. BLM/BIA Bond No. on file         21. Elevations (Show whether DF, KDB, RT, GL, etc.)       07/01/2005       12 DAYS       21. Estimated duration         13. 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 o location certification.       5. Such other site specific information and/or plans as may be require authorized officet.	-
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surfaceSENW, UNIT F, 1980' FNL 2310' FWL, LAT. 32.14543, LON. 103.55203 At proposed prod. zone SAME       11. Sec., T., R., M. or Bik, and Sur SEC 6, T24S, R30E         14. Distance in miles and direction from nearest town or post office* 14 MILES EAST OF MALAGA, NM       13. Distance from proposed in accordance with any State requirements in the set of the se	
14. Distance in miles and direction from nearest town or post office*       12. County or Parish EDDY       13 EDDY         14. MILES EAST OF MALAGA, NM       13. Distance from proposed*       1980'         15. Distance from proposed*       1980'       16. No. of Acres in lease       17. Spacing Unit dedicated to this well         16. Distance from proposed location*       990'       18. Distance from proposed location*       990'         18. Distance from proposed location*       990'       19. Proposed Depth       20. BLM/BIA Bond No. on file         17. Spacing Unit dedicated to this well       40         21. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start*       23. Estimated duration         3236' GL       07/01/2005       12 DAYS         24. Attachments       CARLSBAD CONTROLLED WATER P         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 o         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).       5. Operation certification.         3. Surface Use Plan (if the location is on National Forest Service Office).       Name (Printed/Typed)       Date         Title       Production Clerk<	ey or Area
15. Distance from porposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)       16. No. of Acres in lease 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.       17. Spacing Unit dedicated to this well 40         18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.       19. Proposed Depth 7,580'       20. BLM/BIA Bond No. on file         21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3236' GL       22. Approximate date work will start* 07/01/2005       23. Estimated duration 12 DAYS         22. A Attachments       CARLSBAD CONTROLLED WATER E 24. Attachments       CARLSBAD CONTROLLED WATER E 18 Bond to cover the operations unless covered by an existing bond on 12 DAYS         1. Well plat certified by a registered surveyor.       4. Bond to cover the operations unless covered by an existing bond on 18 Dave).       4. Bond to cover the operations unless covered by an existing bond on 18 Dave).         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 and/or plans as may be require authorized officer.         25. Signature       Name (Printed/Typed)       Date         Title       Name (Printed/Typed)       Date         Production Clerk       Name (Printed/Typed)       Date         Title       Name (Printed/Typed)       Date         Production Clerk       Name (Prin	State
property or lease line, ft. (Also to nearest drig, unit line, if any)       1843.32       40         18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.       990' (20. BLM/BIA Bond No. on file         21. Elevations (Show whether DF, KDB, RT, GL, etc.)       22. Approximate date work will start* 07/01/2005       23. Estimated duration 12 DAYS         24. Attachments       CARLSBAD CONTROLLED WATER E         The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:       4. Bond to cover the operations unless covered by an existing bond on ltem 20 above).         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 ltem 20 above).         25. Signature       Name (Printed/Typed)       Date         Cindi Goodman       Conduct       Date         Title       Production Clerk       Name (Printed/Typed)       Date         Title       FOR STATE DIRECTOR       Office       NM STATE OFFICE	
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3236' GL       07/01/2005       12 DAYS         24. Attachments         CARLSBAD CONTROLLED WATER E         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 them 20 above).         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 them 20 above).         5. Operation certification.       6. Such other site specific information and/or plans as may be require authorized officer.         25. Signature       Name (Printed/Typed)       Date         Production Clerk       Name (Printed/Typed)       Date         Title       Production Clerk       Name (Printed/Typed)       Date         Title       FOR STATE DIRECTOR       Office       NM STATE OFFICE	
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Title     Production Clerk       Approved by (Signature)     /s/ Jesse J. Juen       Title     FOR STATE DIRECTOR         Office     NM STATE OFFICE	
Title     Production Clerk       Approved by (Signature)     /s/ Jesse J. Juen       Title     FOR STATE DIRECTOR       Office     NM STATE OFFICE	E /0 4 /0 004
Approved by (Signature)     /s/ Jesse J. Juen     Name (Printed/Typed)     Jesse J. Juen     JUN 2       Title     FOR STATE DIRECTOR     Office     NM STATE OFFICE	5/04/2005
Title         FOR         STATE DIRECTOR         Office         NM STATE OFFICE	) 2005
Application approval does not warrant or certify the the applicant holds lead or equitable title to those states in the autimation which we are interested as the second states in the second states t	- 2000
operations thereon.	
Conditions of approval, if any, are attached.	
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 States and false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.	e United
*(Instructions on reverse)	

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Witness Surface Casing

•

Salt, 18.7

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 this location.

Arch survey done 9/23/00 by Laura Michalik

n Dr., Bodha, NM 88240

outh First, Artesia, NM 88210

DISTRICT III 1000 Eio Brazos ,Rd., Artee, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, IM 87505 State of New Mexico

<u>.</u>....

Energy, Minerals and Natural Resources Department

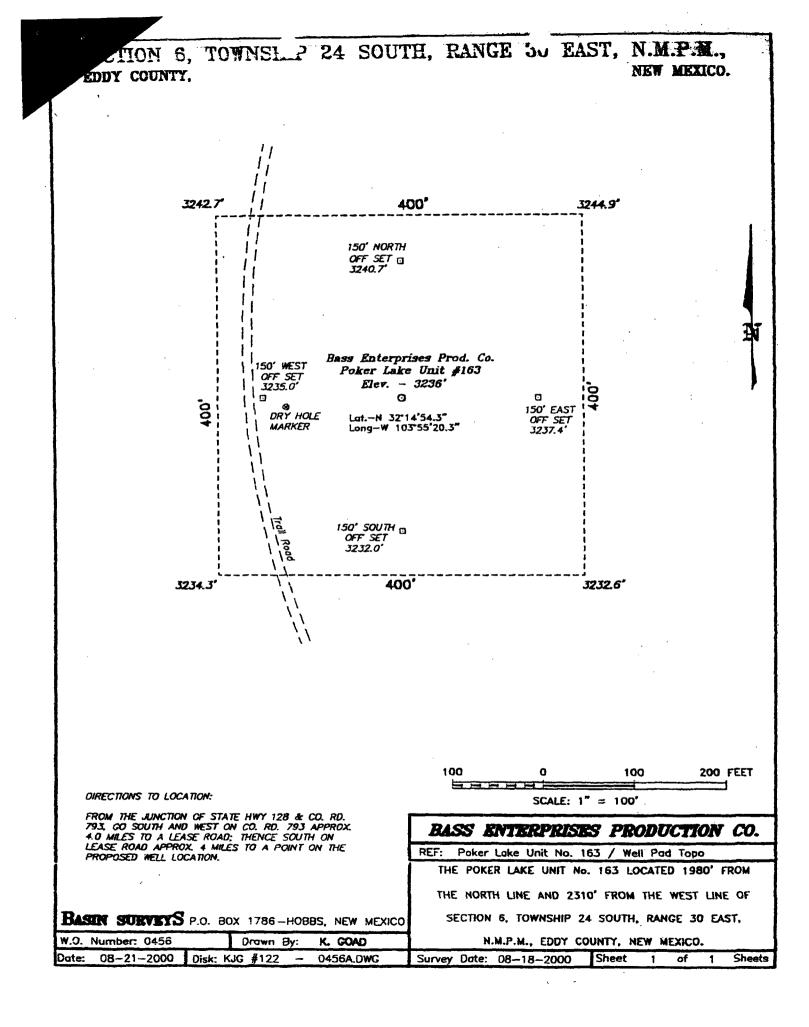
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

## OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT **Pool Code** Pool Name API Number NASH DRAW - DELAWARE 47545 Well Number **Property** Code **Property** Name 001796 POKER LAKE UNIT 163 OGRID No. **Operator** Name Elevation 001801 BASS ENTERPRISES PRODUCTION COMPANY 3236' Surface Location Feet from the North/South line Feet from the UL or lot No. Section Township Range Lot idn East/West line County F 6 24 S 30 E 1980 NORTH 2310 WEST EDDY Bottom Hole Location If Different From Surface Range Lot Idn Feet from the North/South line Feet from the UL or lot No. Section East/West line Township County Joint or Infill Consolidation Code Order No. Dedicated Acres 40 N 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 ed herein is true and complete to the best of my knowledge and belief. 086 May LOT 1 - 40.72 AC. W.R. DANNELS Printed Name 242.7 3244.9' DIVISION DRILLING SUPT. E 1339.4 A LAT - N32"14"54.3" LONG - W103"55'20.3" Title 2000 3232.6 3234 Date LOT 2 - 40.58 AC. SURVEYOR CERTIFICATION 20.6 unerokolor 20.6 unerokolor 32.0 ruu 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 supervisor, and that the same is true and correct to the best of my belief. August 18 2000 BAY L. JONES Date Sur LOT 3 - 40.42 AC. Signat Seal 4.16B Rrote 042 i cr Certific 7977 Porfigian LOT 4 - 40.28 AC. BASIN SURVEY S





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

#### NAME OF WELL: POKER LAKE UNIT #163

LEGAL DESCRIPTION - SURFACE: 1980' FNL & 2310' FWL, Section 6, 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 3251' (est)
	GL 3236'

	ESTIMATED	ESTIMATED	_
FORMATION	TOP FROM KB	SUBSEA TOP	BEARING
T/Salt	607'	+2,644'	Barren
B/Salt	3,276'	- 25'	Barren
T/Lamar	3,509'	- 258'	Barren
T/Ramsey	3,536'	- 285'	Oil/Gas
T/Lwr Brushy Canyon 8A	6,983'	- 3,732'	Oil/Gas
T/"Y" Sand	7,163'	- 3,912'	Oil/Gas
T/Bone Spring	7,221'	- 3,970'	Oil/Gas
TD	7,580'	- 4,329'	

#### POINT 3: CASING PROGRAM

TYPE	INTERVALS	PURPOSE	CONDITION
16"	0' - 40'	Conductor	Contractor Discretion
8-5/8", 24#, WC-50, LTC	0' - 525'	Surface	New WITNESS
5-1/2", 15.50#, K-55, LT&C	0' - 6,500'	Production	New WIINESS
5-1/2", 17#, K-55, LT&C	6,500' - 7,580'	Production	New

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

A BOP equivalent to Diagram 1 will be nippled 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 or 1000 psig whichever is less with rig pump. 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_	<u>PV</u>	<u>YP</u> _	<u>_FL</u>	<u>_Ph</u>		
0' - 525'	FW Spud Mud	8.5 - 9.2	45-35	NC	NC	NC	NC		
525' - 5600'	BW	9.8 -10.2	28-30	NC	NC	NC	9.5-10.5		
5600' - TD	BWEMud	8.9 - 9.1	38-50	6	10	<100 cc	9.5-10.5		
*Will increase vis for logging purposes only.									

#### **POINT 6: TECHNICAL STAGES OF OPERATION**

A) TESTING

None anticipated.

B) LOGGING

GR-CNL-LDT-LLD from TD to Base of Salt (+/-3,276'). Run GR-CNL from Base of Salt to surface.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

INTERVAL	AMOUNT SXS	ft of <u>Fill</u>	ТҮРЕ	GALS/SX	PPG	FT <sup>3</sup> /SX		
SURFACE: Lead 0 - 325' (100% excess)	Circulate cement to surf 50	face 225	Permian Basin Filler 1 + 1 / 4# Celloflake	17.65	11.4	2.85		
Tail 325-525' (100% excess)	200	300	Permian Basin Critical Zone	8.37	13.5	1.63		
PRODUCTION:							Nitrogen	Compressive Strength
Base Slurry w/nitrogen 3000-TD	750 4	\$580	Premium Plus + 2% Zone Sealant 2000	6.32	9.1-14.5	1.39-2.30	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 3266 psi (max) or MWE of 8.7 ppg is expected. Lost circulation may exist in the Delaware section from 3536'-7580'. No H<sub>2</sub>S is anticipated.

Estimated BHT is 146° F.



#### NAME OF WELL: POKER LAKE UNIT #163

LEGAL DESCRIPTION - SURFACE: 1980' FNL & 2310' FWL, Section 6, 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".

B) Width

12' wide.

C) Maximum Grade

Not applicable.

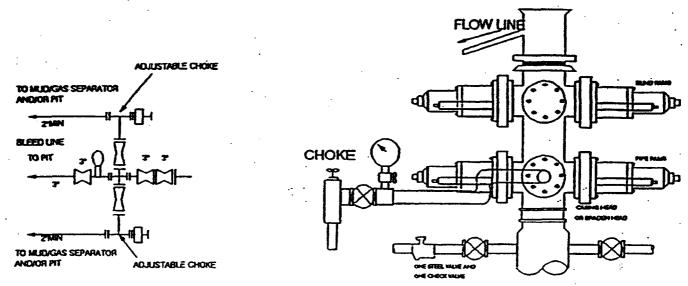
D) Turnout Ditches

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