

clsf

Form 3160-3  
(July 1992)SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

FORM APPROVED

Expires: February 28, 1995

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

Oil Well ☒Gas Well ☐Other ☐Single Zone ☒Multiple Zone ☐

## 2. Name of Operator

Bass Enterprises Production Co.

## 3. Address and Telephone No.

P O Box 2760

Midland, Texas 79702-2760

(915) 683-2277

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

At Surface

1730' FSL &amp; 660' FWL, Section 5, T24S, R30E

At proposed BHL

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.

660

(Also to nearest drlg. unit line, if any)

## 16. No. of acres in Lease

2479.76

17. No. of Acres assigned  
to this Well

40

## 18. Distance from proposed location\*

to nearest well, drilling, completed,  
or applied for, on this Lease, ft.

1343'

## 19. Proposed Depth

7,740'

## 20. Rotary or Cable Tools

Rotary

## 21. Elevations (Show whether DF, RT, GR, etc.)

3270' GR

22. Approx. date work will start\*  
Upon Approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
*11"	8-5/8" WC50	24#	600'	145 sx Circ to surface.
**7-7/8"11"	5-1/2" K-55	15.5# & 17#	7740'	825 sx Circ to surface.

\*Surface casing to be set into Rusifer below all fresh water sands.

\*\*Production casing will be cemented using Zone Seal Cement.

Drilling procedure, BOP Diagram, Anticipated Tops &amp; Surface Plans attached.

This well is located inside the Secretary's Potash area and outside the R-111 Potash Area.

There is no potash leases within 1 mile of this location.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

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 [Signature] For W. R. Dannels

Title Division Drilling Supt.

Date 19 Sept 2010

(This space for Federal or State office use)

Permit No. \_\_\_\_\_ Approval Date \_\_\_\_\_

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 [Signature] Richard A. Whitney Title Assoc State Dir Date 3-28-01

\*See Instruction on Reverse Side

APPROVED FOR 1 YEAR

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.

DISTRICT I  
1625 N. French Dr., Hobbs, NM 58240

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

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		FORTY-NINER RIDGE (DELAWARE), SW
Property Code	Property Name	Well Number
	POKER LAKE UNIT	168
OGRID No.	Operator Name	Elevation
001801	BASS ENTERPRISES PRODUCTION COMPANY	3270'

Surface Location

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

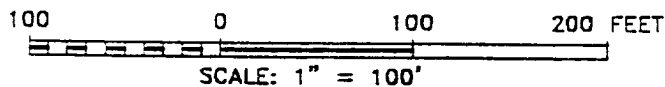
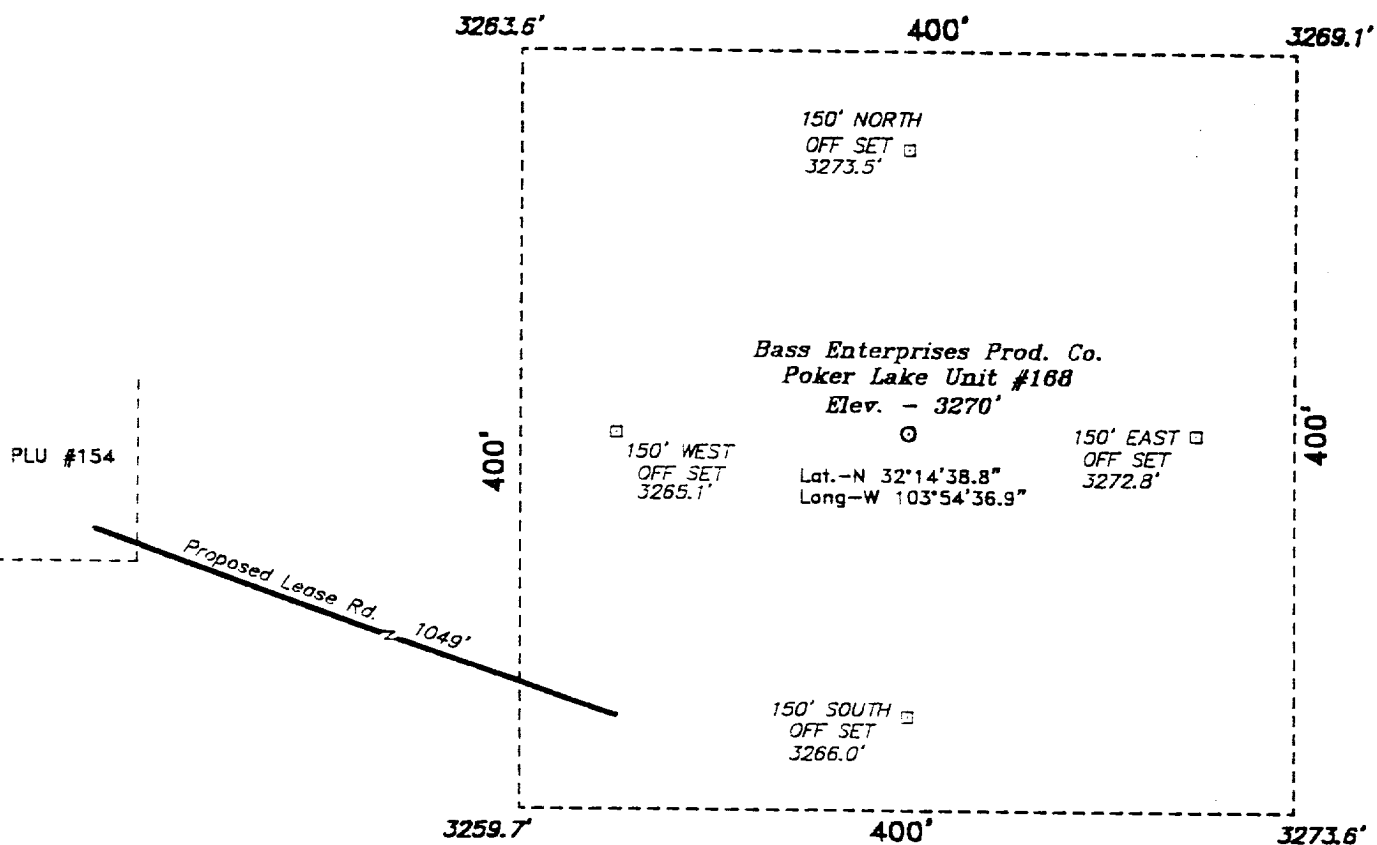
Bottom Hole Location If Different From Surface

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

LOT 4 - 39.98 AC.	LOT 3 - 39.96 AC.	LOT 2 - 39.92 AC.	LOT 1 - 39.90 AC.
<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature</p> <p>W.R. DANNELS</p> <p>Printed Name</p> <p>DIVISION DRILLING SUPT.</p> <p>Title</p> <p>11 Sept 2000</p> <p>Date</p>			
<p><b>SURVEYOR CERTIFICATION</b></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 Surveyed</p> <p></p> <p>Signature of Gary L. Jones</p> <p>Professional Surveyor</p> <p>NEW MEXICO</p> <p>7977</p> <p>W.O. No. 0481</p> <p>Certified by Gary L. Jones 7977</p> <p>PROFESSIONAL LAND SURVEYOR</p> <p>DRIVEN SURVEYS</p>			

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



**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**

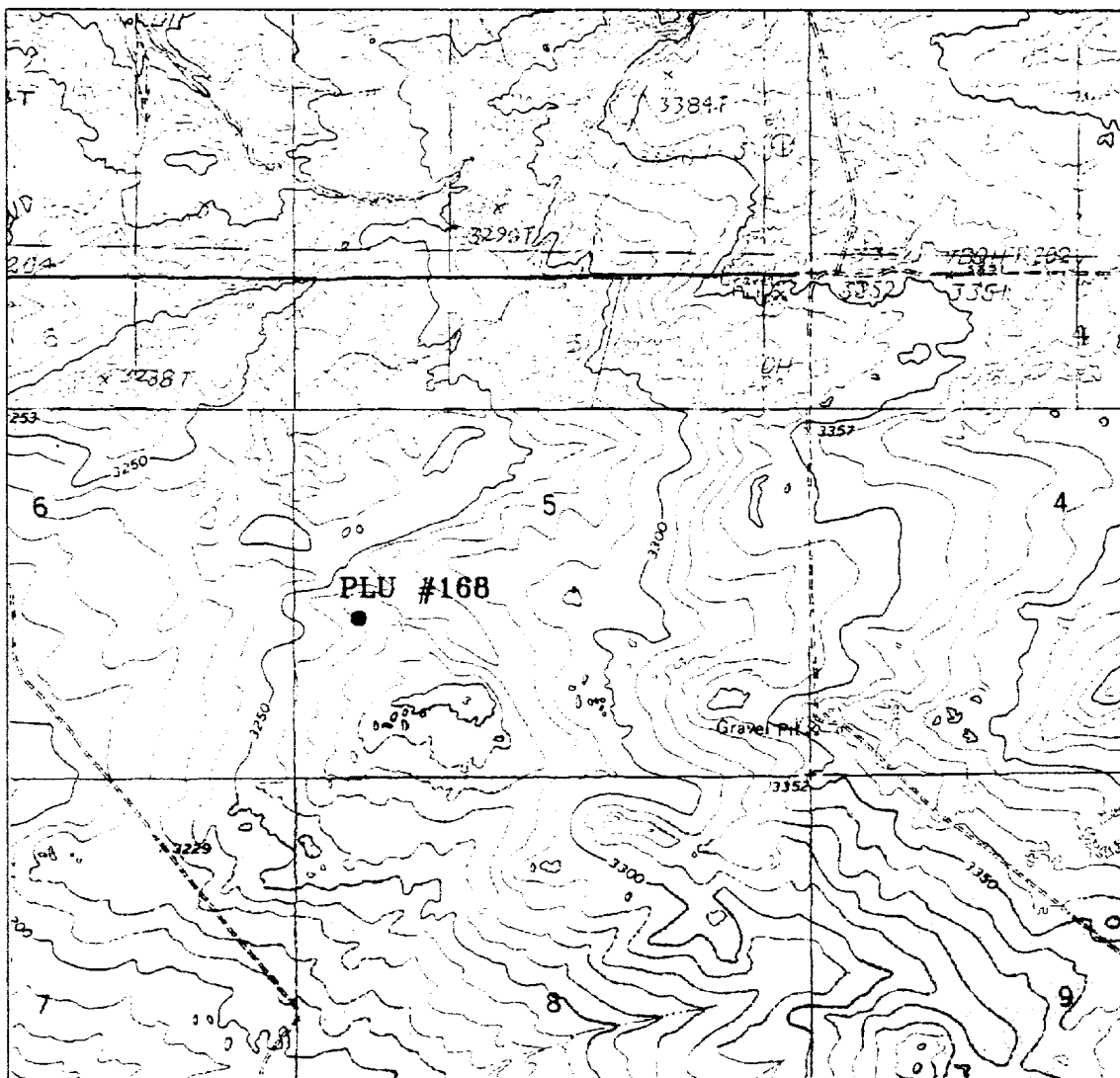
Date: 08-23-2000 Disk: KJG #122 - 0461A.DWG

**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



# **POKER LAKE UNIT #168**

Located at 1730' FSL and 660' FWL

Section 5, Township 24 South, Range 30 East,  
N M P M Eddy County, New Mexico.



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

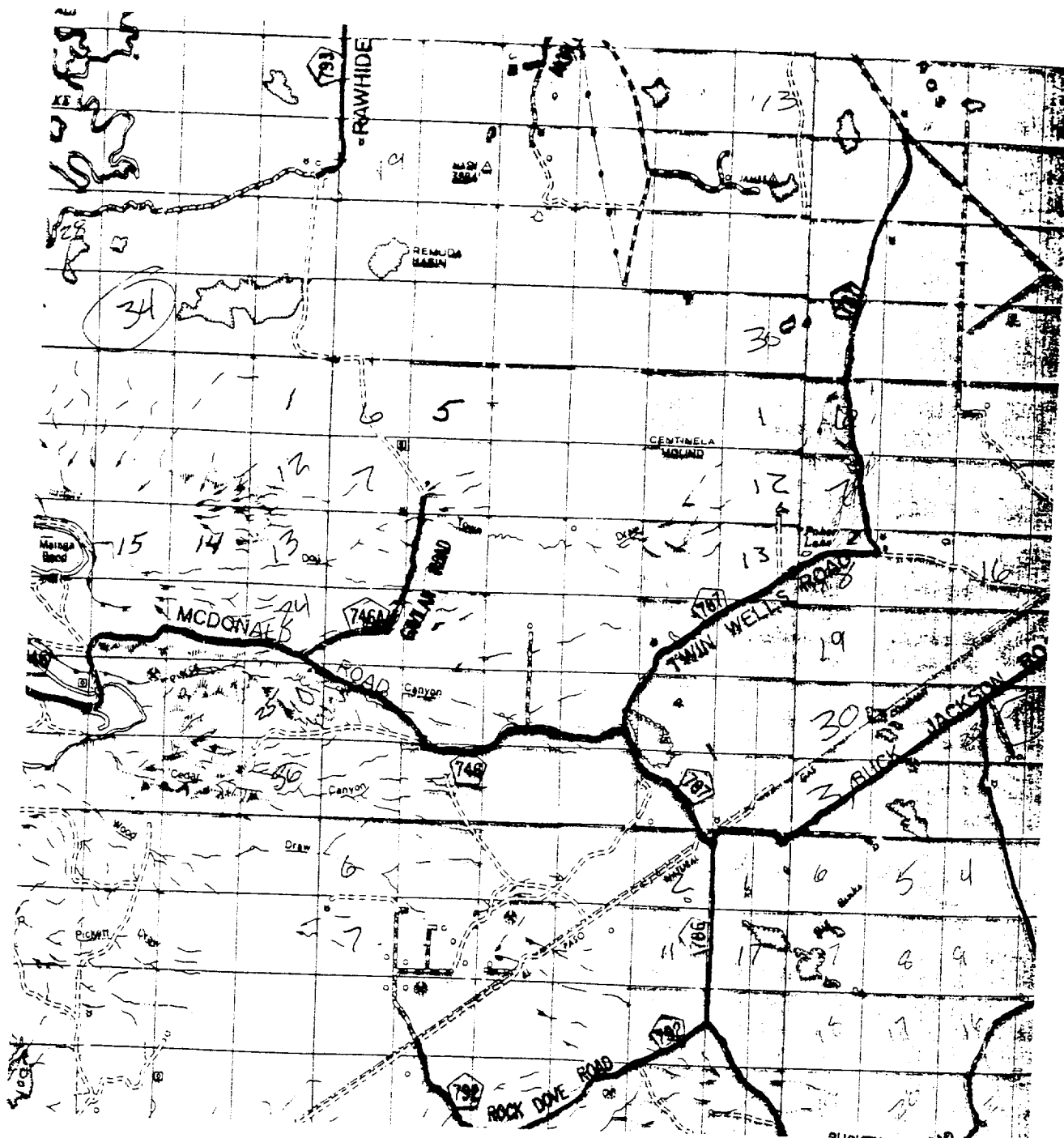
W.O. Number: 0461AA - KJG #122

Survey Date: 08-21-2000

Scale: 1" = 2000'

Date: 08-23-2000

**BASS ENTERPRISES  
PRODUCTION CO.**



# POKER LAKE UNIT #168

Located at 1730' FSL and 660' FWL  
 Section 5, Township 24 South, Range 30 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  
[basinsurveys.com](http://basinsurveys.com)

W.O. Number: 0461AA - KJG #122

Survey Date: 08-21-2000

Scale: 1" = 2 MILES

Date: 08-23-2000

**BASS ENTERPRISES**  
**PRODUCTION CO.**

**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 3285' (est)  
GL 3270'

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Salt	674'	+2,611'	Barren
B/Salt	3,367'	- 82'	Barren
T/Lamar	3,599'	- 314'	Barren
T/Ramsey	3,626'	- 341'	Oil/Gas
T/Lwr Brushy Canyon 8A	7,110'	- 3,825'	Oil/Gas
T"Y" Sand	7,265'	- 3,980'	Oil/Gas
T/Bone Spring	7,386'	- 4,101'	Oil/Gas
TD	7,740'	- 4,455'	

**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

**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**

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0' - 600'	FW Spud Mud	8.5 - 9.2	45-35	NC	NC	NC	NC
600' - 6900'	BW	9.8 -10.2	28-30	NC	NC	NC	9.5-10.5
6900' - 7300'	BW/Starch	9.8 -10.2	28-32	NC	NC	<100 cc	9.5-10.5
7300' - TD	BW/Starch	9.8 -10.2	38-42	4	8	<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 (+/-3,367'). Run GR-CNL 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
SURFACE: Circulate cement to surface						
Lead 0 - 400' (100% excess)	75	400	Permian Basin Filler 1 + 1 / 4# Celloflake	17.65	11.4	2.85
Tail 400-600' (100% excess)	70	200	Permian Basin Critical Zone	8.37	13.5	1.63

**PRODUCTION:** Circulate with Zone Seal Cement.

INTERVAL	AMOUNT SXS	FILL	TYPE	GAL/SX	PPG	FT <sup>3</sup> /SX	COMPRESSIVE NITROGEN	STRENGTH
Lead 0-4500' (10% excess)	390	4500'	Premium Plus + 1% Zone Sealant 2000	6.32*	11.9*	2.20*	250/100 scf/bbl	1200
Tail 4500-7740' (10% excess)	390	3240'	Premium Plus + 1% Zone Sealant 2000	6.32*	12.5*	1.65*	250/100 scf/bbl	2500
CAP 0-300'	45	300'	Premium Plus + 2% CaCl <sub>2</sub>	6.32	14.80	1.32	—	3650

\* Average for that interval

E) **DIRECTIONAL DRILLING**

No directional services anticipated.

**POINT 7: ANTICIPATED RESERVOIR CONDITIONS**

Normal pressures are anticipated throughout Delaware section. A BHP of 3341 psi (max) or MWE of 8.7 ppg is expected. Lost circulation may exist in the Delaware section from 3,599'-7,386''. 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

SLA

September 19, 2000

## **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".

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**

Page 2

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

### **POINT 4: LOCATION OF EXISTING OR PROPOSED FACILITIES**

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

Oil/Gas production facilities are located at PLU #140 wellsite.

- B) New Facilities in the Event of Production:

Existing production facilities will be used via flowlines laid to existing facilities and additional separators/treaters will be added as necessary.

- C) Rehabilitation of Disturbed Areas Unnecessary for Production:

Following flowline construction, 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 the surrounding topography - See Point 10.

### **POINT 5: LOCATION AND TYPE OF WATER SUPPLY**

- A) Location and Type of Water Supply

Fresh water will be hauled from Diamond and Half Water Station 35 miles east of Carlsbad, New Mexico or other commercial facilities. Brine water will be hauled from Bass' Poker Lake Unit #140 battery or commercial facilities.

- B) Water Transportation System

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

### **POINT 6: SOURCE OF CONSTRUCTION MATERIALS**

- A) Materials

Exhibit "A" shows location of caliche source.

- B) Land Ownership

Federally owned.

- 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" and "B".

**POINT 7: METHODS FOR HANDLING WASTE MATERIAL**

A) Cuttings

Cuttings will be contained in the reserve pit.

B) Drilling Fluids

Drilling fluids will be contained in the reserve pit.

C) Produced Fluids

Water production will be contained in the 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 indicate potential productive zones. The reserve pit will be fenced and netted and the fence maintained until the pit is backfilled. Reasonable cleanup will be performed prior to the final restoration of the site.

**POINT 8: ANCILLARY FACILITIES**

None required.

**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 Exhibits "A" and "C".

C) Lining of the Pits

The reserve pit will be lined with plastic.

**POINT 10: PLANS FOR RESTORATION OF THE SURFACE**

A) Reserve Pit Cleanup

The pits will be fenced immediately after construction and shall be maintained until they are backfilled. Previous to backfill operations, 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

The 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

The 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) Rehabilitation's Timetable

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.

E) Surface Water

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

F) Water Wells

There are no water wells within 1 mile of location.

G) Residences and Buildings

None in the immediate vicinity.

H) Historical Sites

None observed.

I) Archeological Resources

An archeological survey will be obtained for this area. Before any construction begins, a 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 from the south is on federally owned land while part of the access road from the north would be on state land.

K) Well signs will be posted at the drilling site.

L) Open Pits

All pits containing liquid or mud will be fenced 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  
(915) 683-2277

**PRODUCTION**

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

Keith E. Bucy  
Box 2760  
Midland, Texas 79702  
(915) 683-2277

**POINT 13: CERTIFICATION**

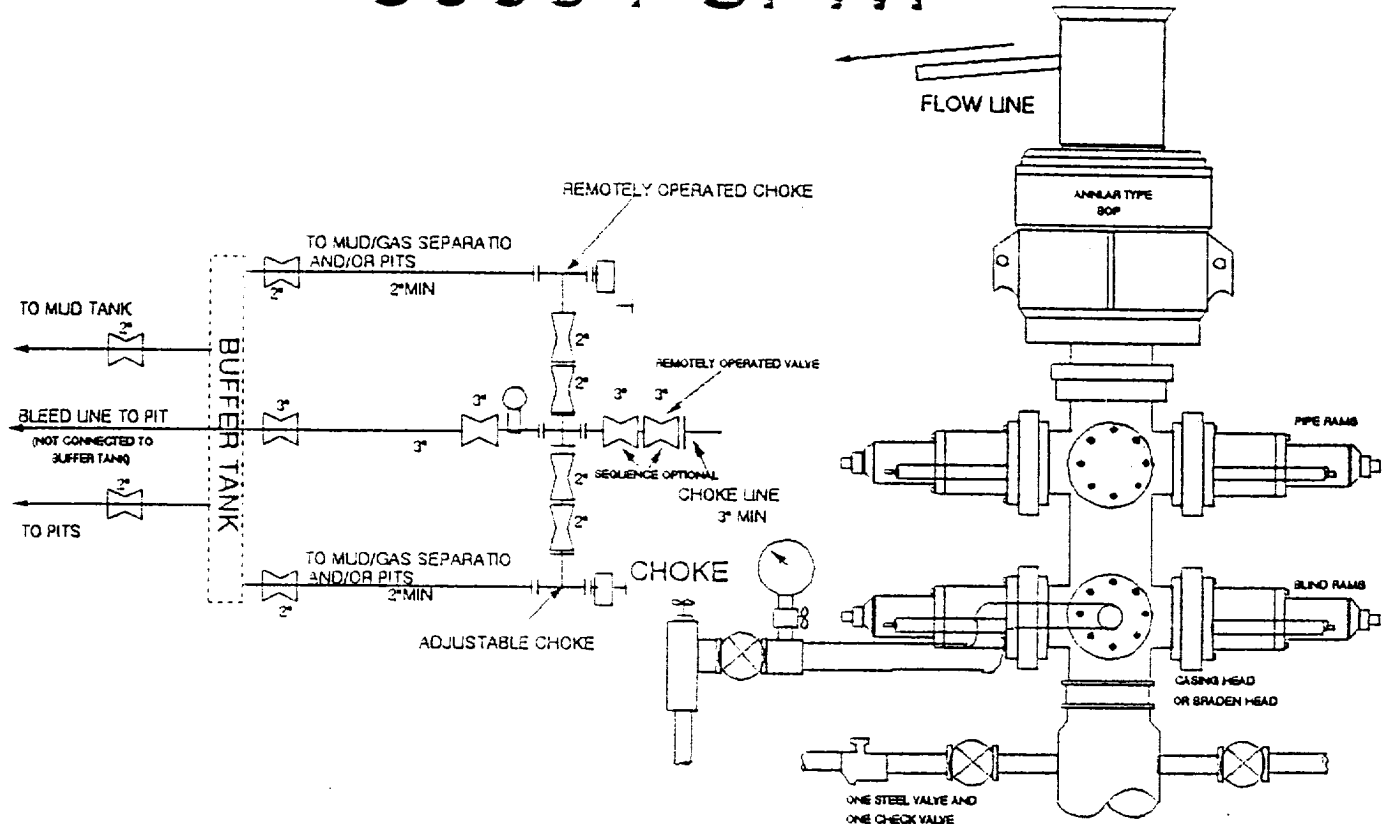
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated 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.

19 Sept 2001  
Date

WRD William R. Dannels

WRD/SLA

# 5000 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

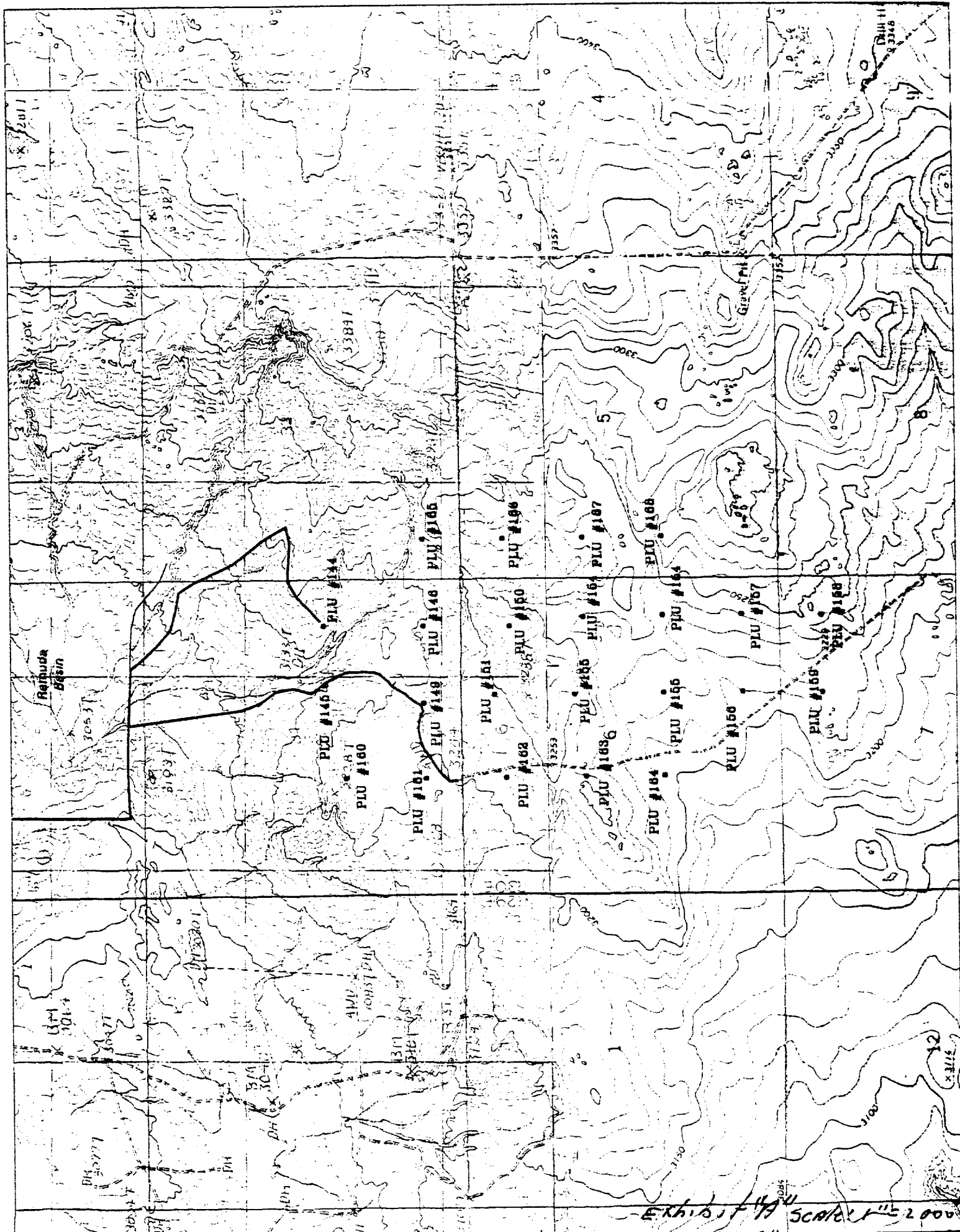


EXHIBIT 11 SCALE 1" = 2,000'

# BASS ENTERPRISES PRODUCTION CO. POKER LAKE UNIT WELLS

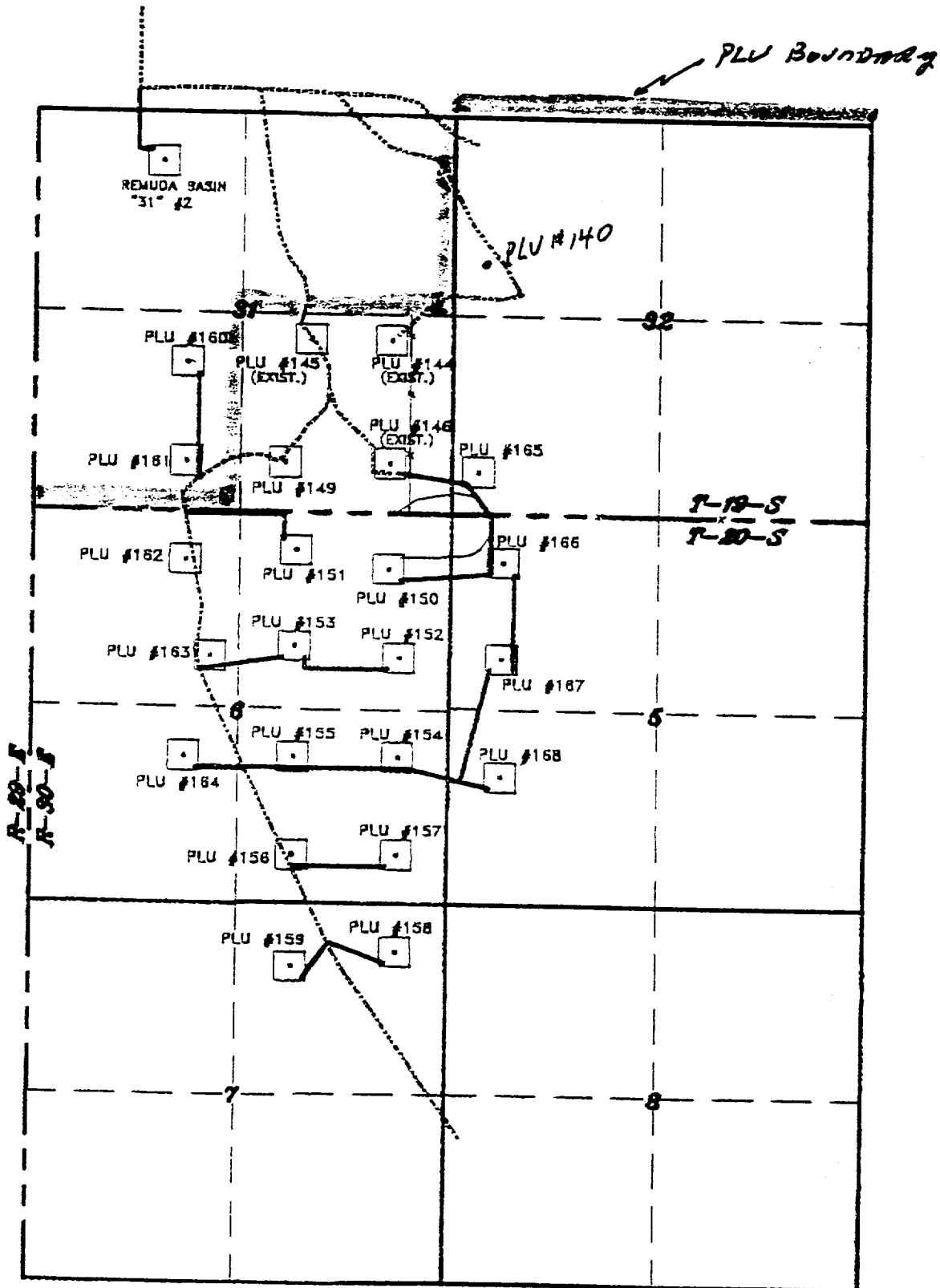


Exhibit 'B'  
Scale 1" = 1000'

# POKERLAKE UNIT No. 168

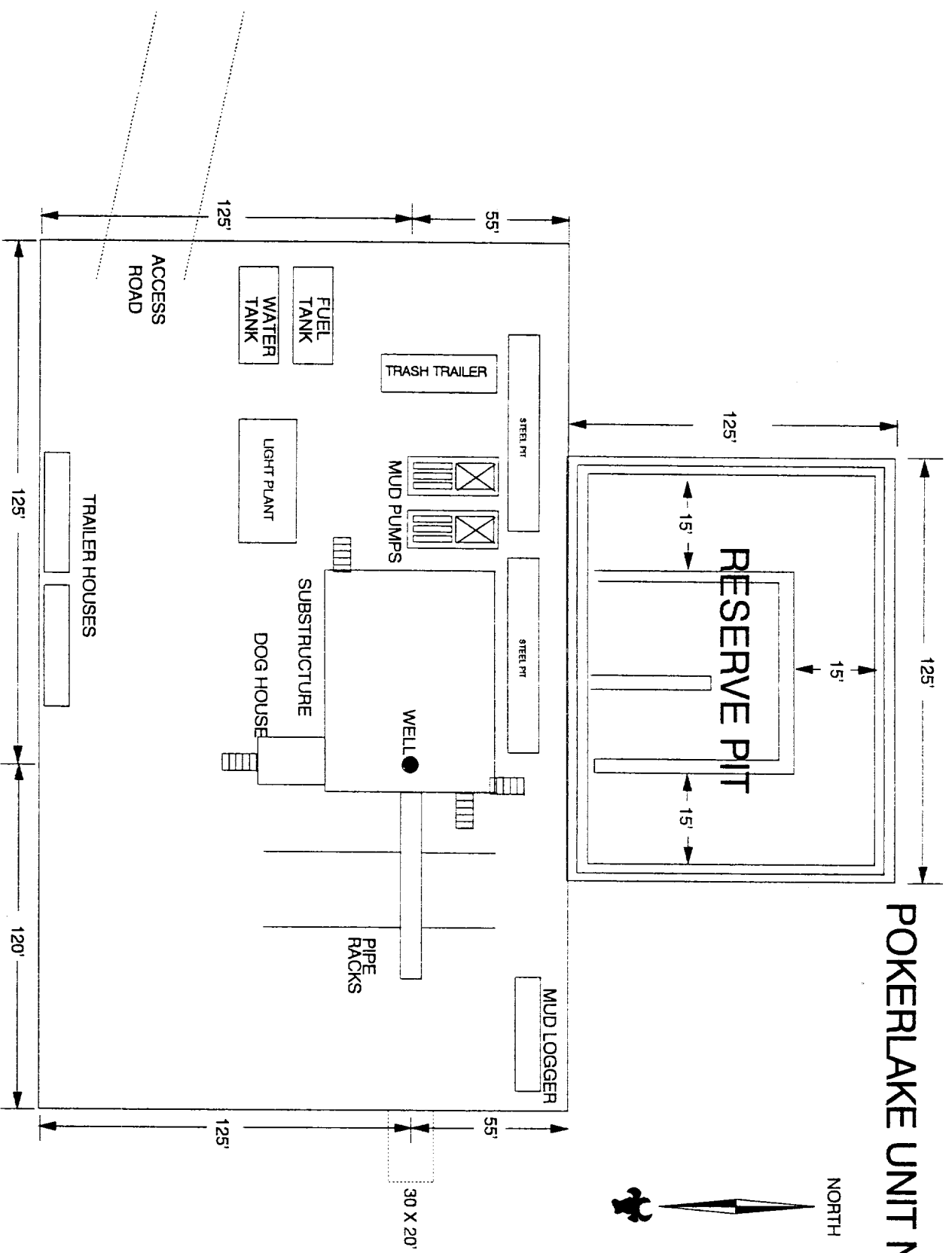


EXHIBIT "C"