Form 9-331 C
(May 1963)

SUBMIT IN [illegible]LICATE*
(Other instr[illegible]ons on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-21853

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER
SINGLE ZONE [X] MULTIPLE ZONE [ ]

RECEIVED
JUN 25 1976
O. C. C.
ARTESIA, OFFICE

2. NAME OF OPERATOR
Perry R. Bass

3. ADDRESS OF OPERATOR
Box 2760 Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
330 FWL & 1650' FSL, Sec 35, T-21-S, R-28-E
At proposed prod. zone
Same

5. LEASE DESIGNATION AND SERIAL NO.
LC067144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
----

7. UNIT AGREEMENT NAME
----

8. FARM OR LEASE NAME
Big Eddy Unit

9. WELL NO.
49

10. FIELD AND POOL, OR WILDCAT
Undesignated Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 35, T-21-S
R-28-E

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12 miles East of Carlsbad New Mexico.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
330

16. NO. OF ACRES IN LEASE
1280

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.
BEU #41 & #47

19. PROPOSED DEPTH
3850

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3180 GL

22. APPROX. DATE WORK WILL START*
July 28, 1976

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	8 5/8	24#	300	200 sks - Circ to surface
7 7/8"	5½	14#	3850	350 sks

Drilling procedure, BOPE diagram, anticipated formation tops, and Surface Use Plan attached.

RECEIVED
JUN 18 1976
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 W. B. Martin, Jr. TITLE Div. Production Clerk DATE June 14, 1976

(This space for Federal or State office use)

PERMIT NO. ________ APPROVAL DATE ________

APPROVED BY ________ TITLE ________ DATE ________

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES SEP 24 1976

*See Instructions On Reverse Side

NE MEXICO OIL CONSERVATION COMMISSI

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
PERRY R. BASS	Big Eddy Unit	49

Unit Letter	Section	Township	Range	County
L	35	21 South	28 East	Eddy

Actual Footage Location of Well:
1650 feet from the south line and 330 feet from the west line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3163.6	Delaware	Undesignated	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

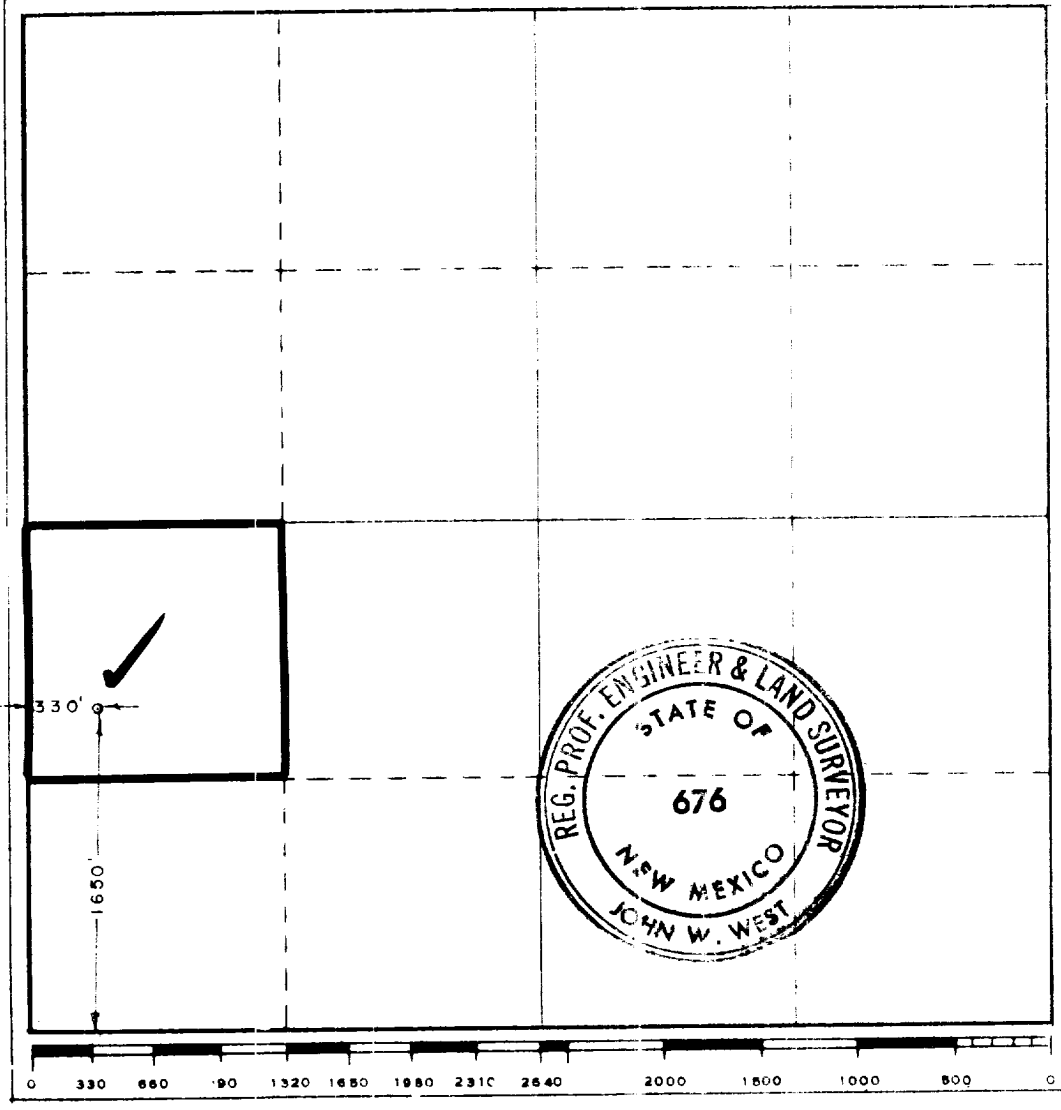
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

C. Alan Roberts

Name: C. Alan Roberts

Position: Division Engineer

Company: Perry R. Bass

Date: June 15, 1976

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JUL 16 1976
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 knowledge and belief.

Date Surveyed: June 12, 1976

Registered Professional Engineer and/or Land Surveyor

John W West

Certificate No. 676

FORM NO. 525

Basa Enterprises Production COMPANY

PROGNOSIS TO DRILL

LEASE: Big Eddy Unit

WELL NO: 49

DIVISION: West Texas

DISTRICT/AREA: Kermit

PROJECTED DEPTH: 3850'

EST. ELEVATION: 3180'

LOCATION: Surface - 330' FWL & 1650' FSL, Sec. 35, T-21-S, R-28-E
Eddy County, New Mexico

Proposed BH - Straight Hole

GENERAL INFORMATION:

12 miles East from Carlsbad, NM. Type Rig rotary. Distance from nearest state maintained road 10 mi.

CASING AND CEMENTING:

1. Conductor Casing -

Depth _____ ft Size _____ "OD Wt _____ #/ft Grd _____ Thd _____

Cement -

Desired Top _____ ft Type Cement _____

_____

2. Surface Casing -

Hole Size 12¼"

Clearance 1.31" Radial Clearance @ coupling

Depth 300 ft

Casing 8.625 "OD
coupling OD = 9.625"

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col		
0-300	300	24	K-55	ST&C	7200	7200	36.5	9.0		

Cement -

Desired Top Surface Type Cement (slurry wt, yield factor & est sx) cement w/± 200 sx Class C w/4% gel & 2% CaCl2 & ¼ lb cellophane flakes per sack at 13.5 lb/gal. Yield 1.69 ft^3/sk

Percent excess 173 % Caliper Survey _____ Yes, X No

Required ft^3 338

Placement time 30 min Minimum Thickening Time _____ min

Head - 8 5/8" weld on w/2 X 2" outlets w/2 X 2 1/16" 3000 psi valves.

Accessories - 3 centralizers, float shoe, float collar

3. First Intermediate Casing -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ "OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top _____ Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____ % Caliper Survey _____ Yes, _____ No

Required ft^3 _____ Placement time _____ min.

Minimum Thickening time _____ min.

Head -

Accessories -

4. Second Intermediate Casing -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ "OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top

Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____ % Caliper Survey ___ Yes, ___ No

Required ft^3 _____ Placement time _____ min.

Minimum Thickening time _____ min.

Head -

Accessories -

5. Third Intermediate Casing -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ "OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top _____ Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____ % Caliper Survey _____ Yes, _____ No

Required ft^3 _____ Placement time _____ min.

Minimum Thickening time _____ min.

Head -

Accessories -

6. Intermediate Liner Ca[illegible] -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ "OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top _____ Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____% Caliper Survey _____ Yes, _____ No

Required ft ^{3} _____ Placement time _____ min.

Minimum Thickening time _____ min.

Head -

Accessories -

7. Production/Liner Casing

Hole Size 7 7/8" Clearance 0.8125" radial clearance @ couplings

Depth 3850' ft

Casing 5.5" "OD
Coupling O.D. 6.05"

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col.	TB	BB
3850	3850	14 lb	K-55	S.S.C.	53,900	53,900	3.51	1.56	2.61	2.61

Design Conditions -

BHP 1668 psi TP 0 psi Drilling Mud 10 #/gal

Completion Fluid 8.33 #/gal

Cement -

Desired Top 1600 ft Type Cement (slurry wt, yield factor & est sx) cement w/+ 250 sacks 50-50 Class C Pozmix A w/6% salt and .5% friction reducer, density 13.9 lb/gal. Yield 1.36 ft^3/sk. Tail with 100 sx Class C neat mixed to 14.8 lb/gal. Yield 1.32 ft^3/sk

Percent excess 21 % Caliper Survey X Yes, _____ No

Required ft^3 472 Placement time 45 min.

Minimum Thickening time _____ min. Reciprocate while cementing X Yes _____ No.

Head - 5½" X 2 3/8 EUE Larkin pack off type.

Accessories - 10 centralizers, sandblast and ruff-coat across producing zone.

DRILLING MUD

1. Surface Hole -

Mud Type Native, gel, lime

Properties at Casing Point: Wt 8.6 #/gal Visc 35 sec.

WL NC sec.

2. Below Surface Casing -

Properties:

Interval	Mud Type	Weight	PV/YP	Water Loss
300-3300	Brine	10 lb	---	NC
3300-3850	Brine-gel	10 lb	6/4	15cc
Have WL less than 15cc by 3300				

3. Remarks -

Centrifuge _____ Degasser _____ Diesel Content _____ %

after breakover Desander _____ Pit-O-Graph _____

HOLE DEVIATION:

1. Vertical Hole -

Limits of Deviation:

Interval	Maximum Deviation

Surveys required every 500

Maximum Change in Deviation: 1 °/100'.

2. Directional .

Direction _____

Deviation -

	MD	TVD	Deviation
Vertical Hole			
Build Angle, _____°/100'			
Maintain Angle, _____°			
Drop Angle, 1°/100'			
Maintain Angle			

Target (s)

Maximum Change in Deviation _____°/100'.

LOG RUNS:

Depth				
3850-300'	DLL GR w/Rxo curve & GR 300'	- surface		
3850-300	BHC-Sonic w/GR & Caliper			
3850-2000	4-arm HRC dipmeter			

Remarks: * At discretion of wellsite geologist or Engineer

Approximately 60 sidewall cores will be taken after logging. No conventional coring will be done.

DRILLING SAMPLES:

Catch 2 sets of drilling samples (5" x 10½" bag) at 10' intervals from 0 ft to TD. Samples will be maintained at the wellsite unless otherwise specified as follows:

Sample sack should be completely labeled with operator's name, well name, and number.

RIG PROCEDURES:

1. Blowout Prevention -
   a. Nipple up 2 BOPs ~~(X)(X)(X)(X)(X)(X)(X)~~, (2 rams) on surface pipe as shown on attached diagram.
   b. Nipple up _____ BOPs (1-Hydril and 2-ORC's) on intermediate or production casing as shown on attached diagram.
   c. Test BOPs to working pressure for 30 min upon installation and every 30 days thereafter.
   d. Tighten BOP and head bolts once each week.
   e. Work BOPs daily.
2. Measurements -
   a. Tally drill pipe at casing points, logging points, and otherwise as required by Company representative.
   b. Prepare detailed sketch to include length, OD, ID, and type connections of all tools run into hole on Company time.

3. Miscellaneous -

a. Drill string should be stabilized while drilling all hole sizes.

b. Continuous check on hydraulics should be made.

c. Run consistometer tests on all cement used for production casing.

d. After cement job, release pressure immediately if back pressure valves are holding, and begin nipple-up operations.

e. Pressure test surface casing to 1000 psi before drilling plug; intermediate and production casing and/or liners to 1500 psi.

COMPLETION:

Procedure for completion will be outlined on separately issued Prognosis to Complete.

NOTIFICATION:

1. In case of emergency, please notify the following:	OFFICE	HOME
Leroy Hurt	A/C 915-684-5723	A/C 915-943-2849
Alan Roberts	A/C 915-684-5723	A/C 915-694-1568
Jim Pullig	A/C 915-684-5723	A/C 915-694-7645
2. Prior to logging, please notify:		
Bill Ford	A/C 915-684-5723	A/C 915-683-3850
Howard Hodges	A/C 915-684-5723	A/C 915-697-3634

PREPARED BY: Louie M. Cure CHECKED BY: APPROVED BY:

Louie M. Cure

Attachments: Estimated Drilling Time
Minimum BOP Hook-up
Sample Catching Instructions
Proposed Mud Program
Location Plat

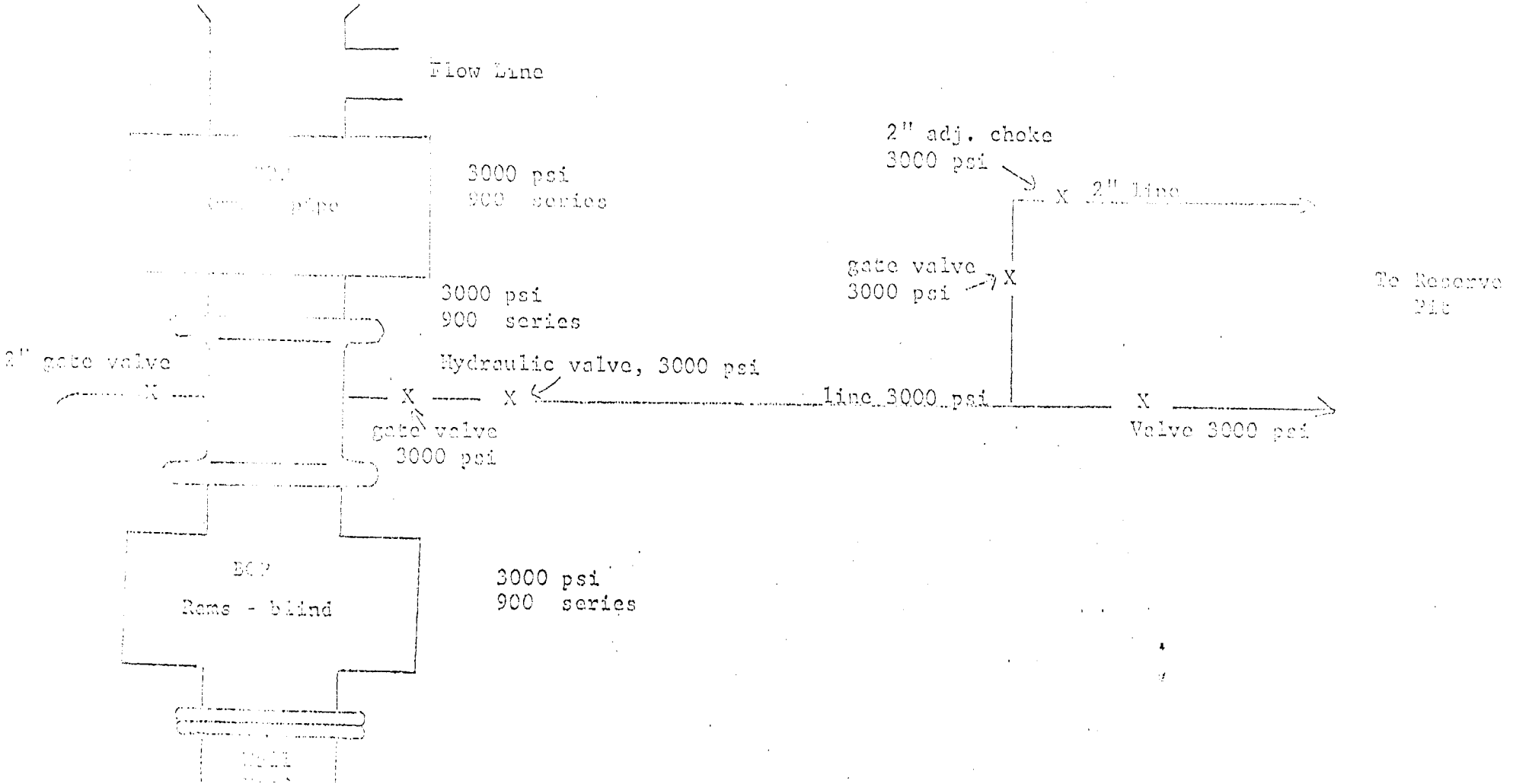
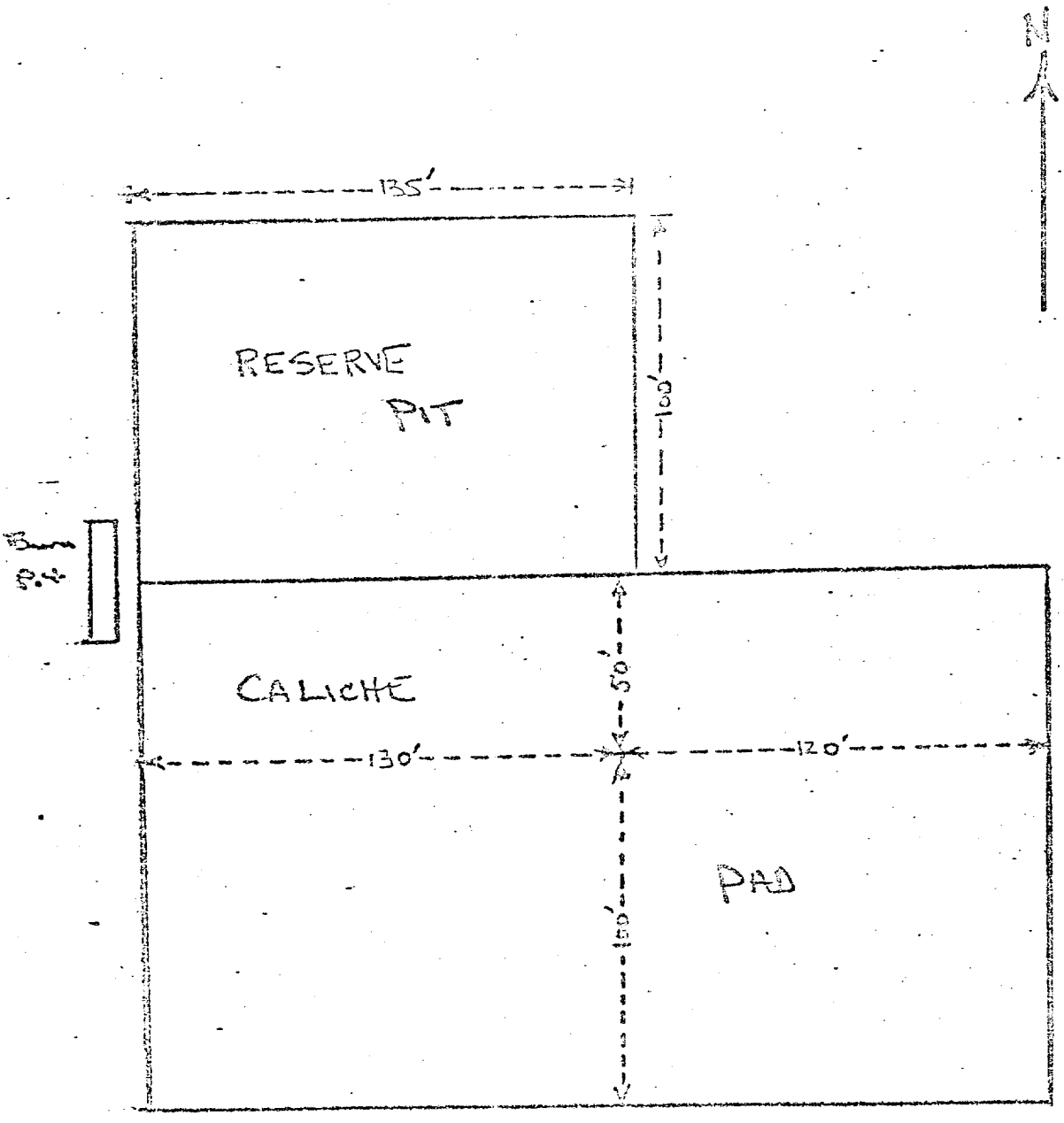

Flow Line
3000 psi
900 series
2" adj. choke
3000 psi
X 2" line
gate valve
3000 psi
X
To Reserve
Pit
3000 psi
900 series
2" gate valve
X
Hydraulic valve, 3000 psi
X
X
line 3000 psi
X
Valve 3000 psi
gate valve
3000 psi
Rams - blind
3000 psi
900 series

EXHIBIT 'B'

BIG EDDY # 47



BASS ENTERPRISES PRODUCTION COMPANY
BIG EDDY UNIT No. 49
EDDY COUNTY, NEW MEXICO

ANTICIPATED FORMATION TOPS

B/Salt	1920' (+1273')
Delaware Lime	2680' (+500')
Delaware Sandstone	2800' (+380')
B/Purple Carbonate	3555' (-375')

BASS ENTERPRISES PRODUCTION CO.
800 Vaughn Building
P. O. BOX 2760
MIDLAND, TEXAS 79701

June 11, 1976

SURFACE USE PLAN

Bass Enterprises Production Company Big Eddy Unit No. 49
330' FNL & 1650' FWL, Section 35, T-21-S, R-28-E
Eddy County, New Mexico

1. Access to Location - Exhibit A

Access to BEU #49 is obtained by traveling approximately 2½ miles NE of Carlsbad on Hwy 62-180, turning right at the Sheriffs Posse roping arena, continuing on this road for approximately 6 9/10 miles, turning left at this point onto a lease road for approximately 1 mile leading to previously drilled BEU #41. The BEU #49 location is approximately 3/10 of a mile SW of BEU #41.

2. New Roads to Build

It will be necessary to construct approximately 3/10 of a mile of new road from the existing road to previously drilled BEU #41, to BEU #49 location.

3. Location and Pad - Exhibit B

A location 150' X 250' will be required for the drilling of the Big Eddy Unit #49. The pad will be covered with 6" of caliche which will be watered, rolled, and compacted. A 100' X 140' reserve pit will be built on the north side of the pad. The reserve pit will be lined with impermeable plastic. A burn pit for trash will be located as indicated on Exhibit B.

4. Location of Existing Wells

BEU #41 is located approximately 3/10 of a mile East of this subject well. BEU #48 is located approximately ½ mile NE of this well.

5. Setting and Environment

The terrain is fairly flat at the well site with low lying sandhills. Vegetation is sparse being primarily mesquite with very little grass. The only use for the area is grazing. The area is very sandy. Environmental risk is very low.

6. Distances to Water, Residences, etc.

There are no surface waters, residences, etc. within one mile of the location. There is a windmill approximately 3/4 mile SW of subject location.

7. Well Indentification

Well signs will be posted at the exit onto the BEU #47 lease road, and at the BEU #49 location.

8. Open pits

All pits containing liquid mud or chemicals will be fenced or guarded.

9. Tank Battery and Lease Lines

If a commercial well is obtained a production battery will be constructed on the southeast corner of the pad.

10. Waste Disposal

All drill cuttings will be disposed of in the reserve pit. Trash barrels will be available at the location and all detrimental waste will be burned, carried away, or buried with a minimum cover of 24" of dirt.

11. Water Supply

Fresh water and brine will be hauled to the location by commercial haulers.

12. Archaeological Resources

None were observed.

13. Restoration of Resources

Pits will be backfilled and leveled as soon as practical after the well has been drilled. Upon final abandonment of the well, the site will be restored as close as practical to its original state.

14. Operators Representatives

Field personnel who can be contacted concerning compliance with this Surface Use Plan are as follows:

DRILLING

Leroy Hurt
P. O. Box 2760
Midland, TX 79701

Alan Roberts
P. O. Box 2760
Midland, TX 79701

PRODUCTION

Al Gallas
P. O. Box 1043
Kermit, Texas 79745

Alan Roberts
P. O. Box 2760
Midland, TX 79701

16. 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 as they actually exist, that the statements made in this plan are to the best of my knowledge true and correct, and the proposed work performed by Bass Enterprises Production Company and its contractors and sub-contractors will conform to this plan.

C. A. Roberts

LAH/dh


I N D I A N
F L A T S
Andrews Well
Dublin Ranch
Dickson Farm
Draw
ROAD
CANAL