Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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 [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Texas Pacific Oil Company, Inc.

3. ADDRESS OF OPERATOR: P. O. Box 4067, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: Unit N, 1650' FWL & 990' FSL
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: NM - 14214

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Wells

9. WELL NO.: 13

10. FIELD AND POOL, OR WILDCAT: Langlie Mattix

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 4, T-25-S, R-37-E

12. COUNTY OR PARISH: Lea

13. STATE: New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 3 miles NE Jal, 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: 480+

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.: 1200'

19. PROPOSED DEPTH: 3740'

20. ROTARY OR CABLE TOOLS: Rotary

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

22. APPROX. DATE WORK WILL START*:

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	30'	Redi Mix to Surface
12 1/4"	9 5/8"	40#	1120'	550 sx. Class "C" Circulate
7 7/8"	5 1/2"	14#	3740'	500 sx. Class "C"

See Attachments

Development Plan for Surface Use
Drilling Procedure
Casing and Cementing Program
Mud and Logging Program
B.O.P. Schematic

[illegible]
Commenced [illegible]
Expires 1-22-77

GAS NOT DEDICATED
CONDITIONS OF APPROVAL

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 B. J. Knight TITLE Drilling Coordinator DATE 9-9-76

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
OCT 27 1976
ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
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.
TEXAS PACIFIC OIL COMPANY	Wells	13

Unit Letter	Section	Township	Range	County
N	4	25 South	37 East	Lea

Actual Footage Location of Well: 1650 feet from the west line and 990 feet from the south line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3198.0	Langlie Mattix	Langlie Mattix	40 Acres

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

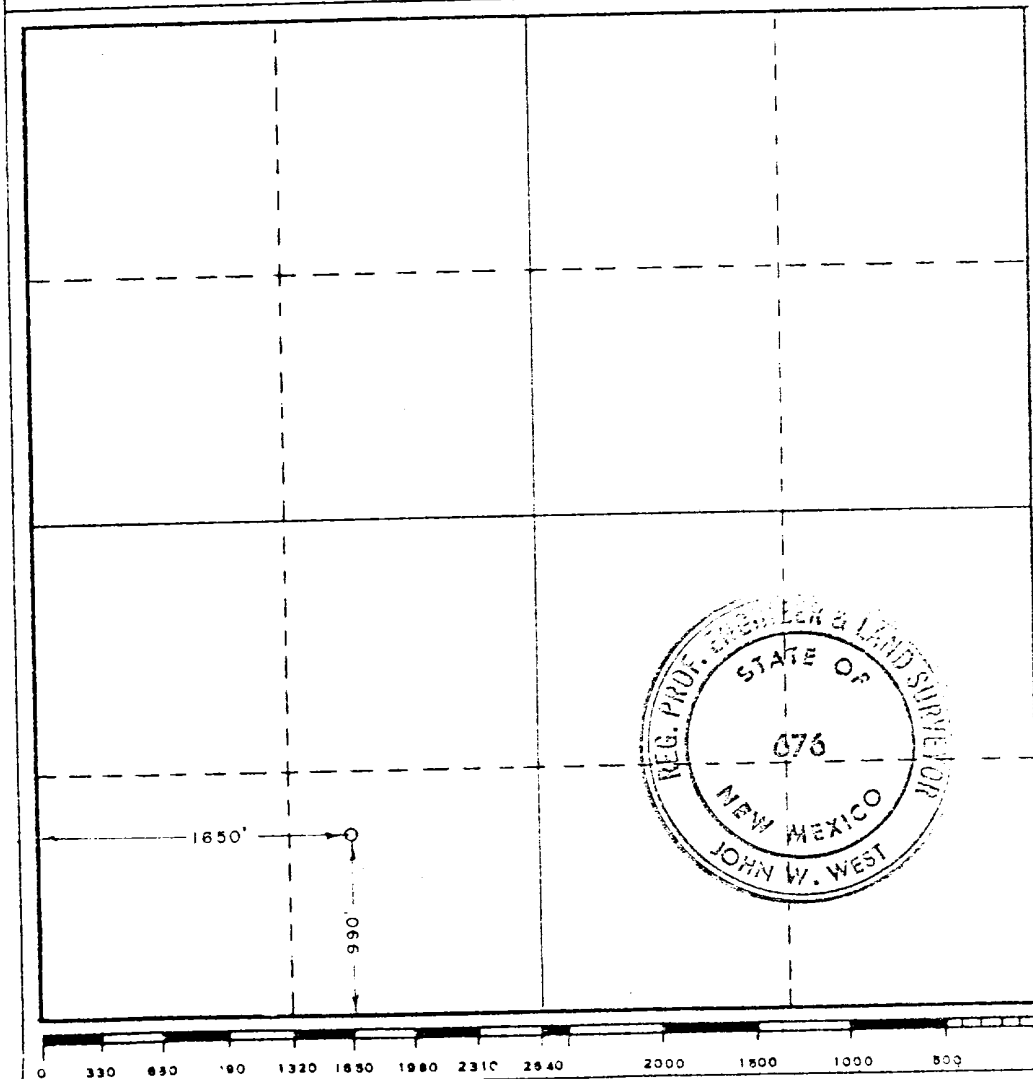
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

B. J. Knight

Name: B. J. Knight

Position: Drilling Coordinator

Company: Texas Pacific Oil Co., Inc.

Date: August 18, 1976

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: August 10, 1976

Registered Professional Engineer and/or Land Surveyor

John W West

Certificate No. 676

TEXAS PACIFIC OIL COMPANY

DRILLING PROCEDURE TP-105-B

DATE: July 27, 1976

AFE NO.: 7126

DISTRICT/AREA: Midland - West

LEASE NAME AND WELL NUMBER: Wells No. 13

FIELD: Langlie Mattix

LOCATION: SE/4 SW/4 Section 4 T-25-S R-37E

COUNTY/PARISH: Lea County

STATE: New Mexico

INSTRUCTIONS: List on drilling report each lost circulation zone and amount of mud lost. List on Company reports all mud, chemicals, lost circulation material and oil used in drilling mud each tour. Strap drill pipe on first trip under surface and before logging, testing, or coring. Tool pusher will be responsible to obtain and to check all tallies on tubular goods received at well, as well as check accuracy on delivery tickets of other material delivered to well.

SUPERINTENDENT'S SIGNATURE: WSH/RRH

ENGR. APPROVAL: JMW

GEOL. APPROVAL:

CASING PROGRAM

STRING	SIZE	LENGTH OF SECTION	WEIGHT	GRADE	THREAD	HOLE SIZE	ALLOWED CEMENT TIME-HRS
Conductor	13-3/8"	30'	48#	H40	STC 8RD	17-1/2"	---
Surface	9-5/8"	1120'	40#	N80	LTC 8RD	12-1/4"	18
Production	5-1/2"	3740'	14#	K55	STC 8RD	7-7/8"	---

All csg to be RGE 3.
Sandblast btm 800' of 5-1/2" csg.

CEMENT PROGRAM

Surf Csg - 550 sx Class "C" w/2% $CACL_2$, 14.8 PPG, 1.32 FT^3/sk.
Cmt must circ.
Prod Csg - 500 sx Class "C" w/ 6 lbs/sk salt, 15.0 PPG, 1.35 FT^3/sk.
Displace plug w/FW. WOC 8-10 hrs. Run Temperature Survey to determine TOC.

MUD PROGRAM

DEPTH	TYPE	MUD WEIGHT	VISCOSITY	Ph	WATER LOSS
0' - 1120'	FW Spud Mud if req'd	8.4 +	----	--	---------
1120' - 2700'	Brine Wtr	10.0 +	----	--	---------
2700' - TD	Add salt gel, starch & oil as req'd	10.0 +	30-36	11	8-10 ANY

DEVIATION FROM VERTICAL: NOT TO EXCEED 3 DEGREES PER 1000 FT NOT TO EXCEED 3 DEGREES AT TOTAL DEPTH

EXPECTED FORMATION TOPS

DESCRIPTION*	DEPTH	SUB SEA
Rustler	1120	+ 2075
Queen	3510	- 315
Grayburg	3710	- 515

LOGGING, CORING & TESTING PROGRAM: Compensated Neutron - From Density & Gamma Ray from T.D. to Surface with Density. Dual Laterlog from T.D. to 2700'.

TOTAL CONTRACT DEPTH: 3740'

MUD SUPPLIER:

MECHANICAL RATE OF PENETRATION DEVICE REQUIRED: YES X NO

SAMPLE PROCEDURE: 10' Samples & drilling time from 1050 to ± 1125 & 2800' to 3740' or T.D. 2' Drilling time as required
Est DF 3195'

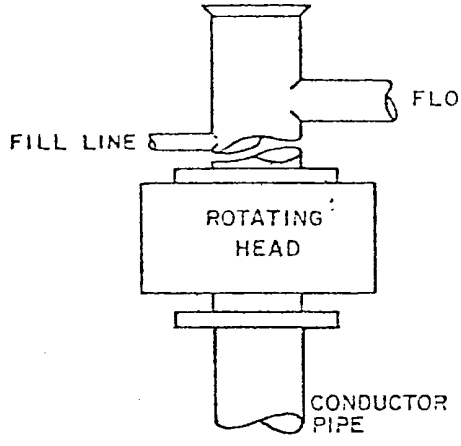
EQUIPMENT OR SERVICES MAY BE INSTALLED AT FOLLOWING:

EQUIPMENT	DEPTH
Communications	Surface
Geolograph	Surface
BOP	Surface

UNUSUALS PROBLEMS AND/OR REMARKS:

PERSONNEL

NAME & TITLE	CITY	OFFICE PHONE	RESIDENCE PHONE NUMBER
Sheldon Ward - Drilling Foreman	Midland, Tx	684-5584	682-7180
Buddy Knight - Drilling Foreman	Midland, Tx	684-5584	684-6263
Mel Schroeder - Developement Engineer	Midland, Tx	684-5584	684-9069
Tom Frizzell - Geologist	Midland, Tx	684-5584	694-7944

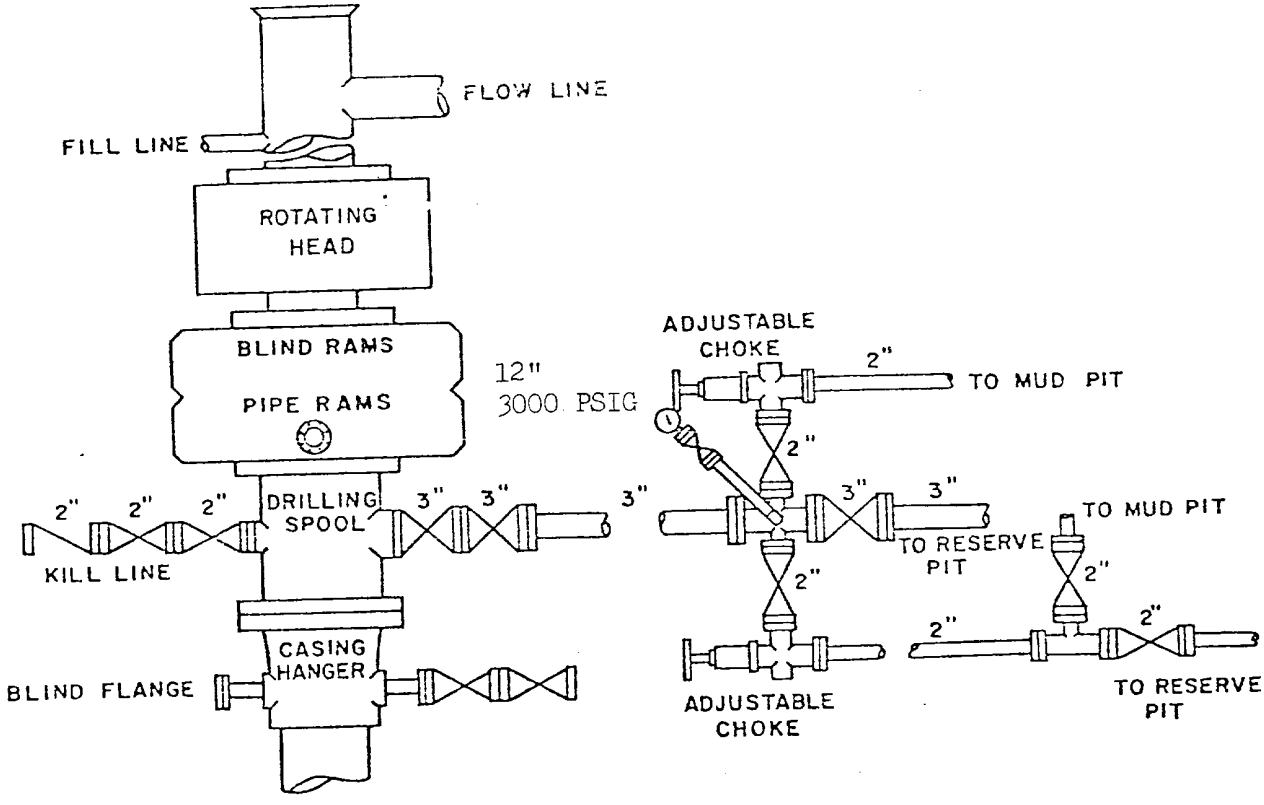


12" 3000 PSIG

SCALE: NONE	DATE	EST. NO.	DRG. NO.
DRAWN BY CRF			
CHECKED BY RDH	8-17-76		
APPROVED BY			

TEXAS PACIFIC OIL CO. INC.

Wells #13
Langlie Mattix Pool
Sec. 4, T-25-S, R-37-E
Lea County, New Mexico



All kill lines and choke manifold lines will be 3000 PSIGWP

SCALE: NONE	DATE	EST. NO.	DRG. NO.
DRAWN BY CRF			
CHECKED BY RDH	8-17-76		
APPROVED BY			

TEXAS PACIFIC OIL CO. INC.
Wells #13

Langlie Mattix Pool
Sec. 4, T-25-S, R-37-E
Lea County, New Mexico

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
TEXAS PACIFIC OIL COMPANY, INC.
WELLS WELL NO. 13
1650' FWL & 990' FSL, SEC. 4, T-25-S, R-37-E
LEA COUNTY, NEW MEXICO

1. Existing Roads:

   A. Exhibit "A" is a portion of the Jal NW and Jal Quadrangle Topographic Map showing the location of the proposed well as staked. Directions to location: From intersection of Highways #128 and 18 in Jal, New Mexico, go North on Highway 18 2.8 miles, passing gravel pit on right side road, turn right crossing guard, with a blue and white posted sign, on gravel road. Go one mile to tee in road, turn right, go .3 mile then left .3 mile, turn right on lease road to Texas Pacific Oil Company, Inc. Wells #12. The proposed new road continues south approximately 1155' to the proposed location of Wells #13. The new proposed road is staked and flagged.

   B. Exhibit "A" is a plat showing all primary roads in the area. Other trails on secondary roads not shown go to wells on other leases that are not applicable to this well.

2. Planned Access Road:

   The new road will be 12 feet wide and 1155 feet long. This new road is labeled and color coded red on Exhibit "A".

   Surfacing material will be six inches of caliche, water, compacted and graded. The road will be sloped from the center to each side with not more than a drop of 6 inches.

   There will be no major cuts or fills required.

3. Locations of Existing Wells:

   Existing wells within a one-mile radius are shown on Exhibit "B".

4. Location of Existing and/or Proposed Facilities:

   A. Location of the existing tank battery and flow line are shown on Exhibit "B". There are no water disposal lines on injection lines. The flow line is not buried.

   B. If the proposed well is completed for production, the location of the new flow line to the existing tank battery is shown on Exhibit "B". The flow line will be laid along the edge of the right of way of the new road.

5. Location and Type of Water Supply:

   Water for drilling will be purchased from a local supplier and trucked to the well site over the existing and proposed roads shown on Exhibit "A".

6. Source of Construction Materials:

Caliche for surfacing the road and the well pad will be obtained from an existing pit in the SW/4 NW/4 Sec. 4, T-25-S, R-37-E. The pit is on land owned by the Trust Jal Public Library, Mr. Carl Martin, Chairman of Trustees.

7. Methods of Handling Waste Disposal:

A. Drill cuttings will be disposed of in the drilling pits.

B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.

C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

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

E. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "C".

F. All trash and debris will be buried or removed from the wellsite after completion of operations.

8. Ancillary Facilities:

A. None Required.

9. Wellsite Layout:

A. Exhibit "C" shows the relative locations and dimensions of the well pad, mud pit and trash pit.

B. A four foot cut on the west side of the wellsite will be required.

C. The reserve pit will be plastic lined.

D. The pad and pit area has been staked and flagged.

10. Plans for Restoration of the Surface:

A. After completion of drilling and completion operations, all equipment and material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave wellsite in as aesthetically pleasing condition as possible

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

B. Any unguarded pits containing fluids will be fenced until they are filled.

C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner, and in accordance with Bureau of Land Management specifications.

11. Other Information:

A. Topography - Land surface is caliche rock and sand with scattered slopes.

B. Vegetative cover is 95% broomweeds, 5% native grass and scattered mesquite trees. Wildlife is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

C. Ponds and Streams - There are no rivers, streams, lakes or ponds in the area.

D. Residences and other structures - The nearest occupied dwelling is a ranch house approximately one mile NW of the wellsite.

E. Impact on the environment will be kept to a minimum.

12. Lessee's or operator's representative office phone - 915-684-5584

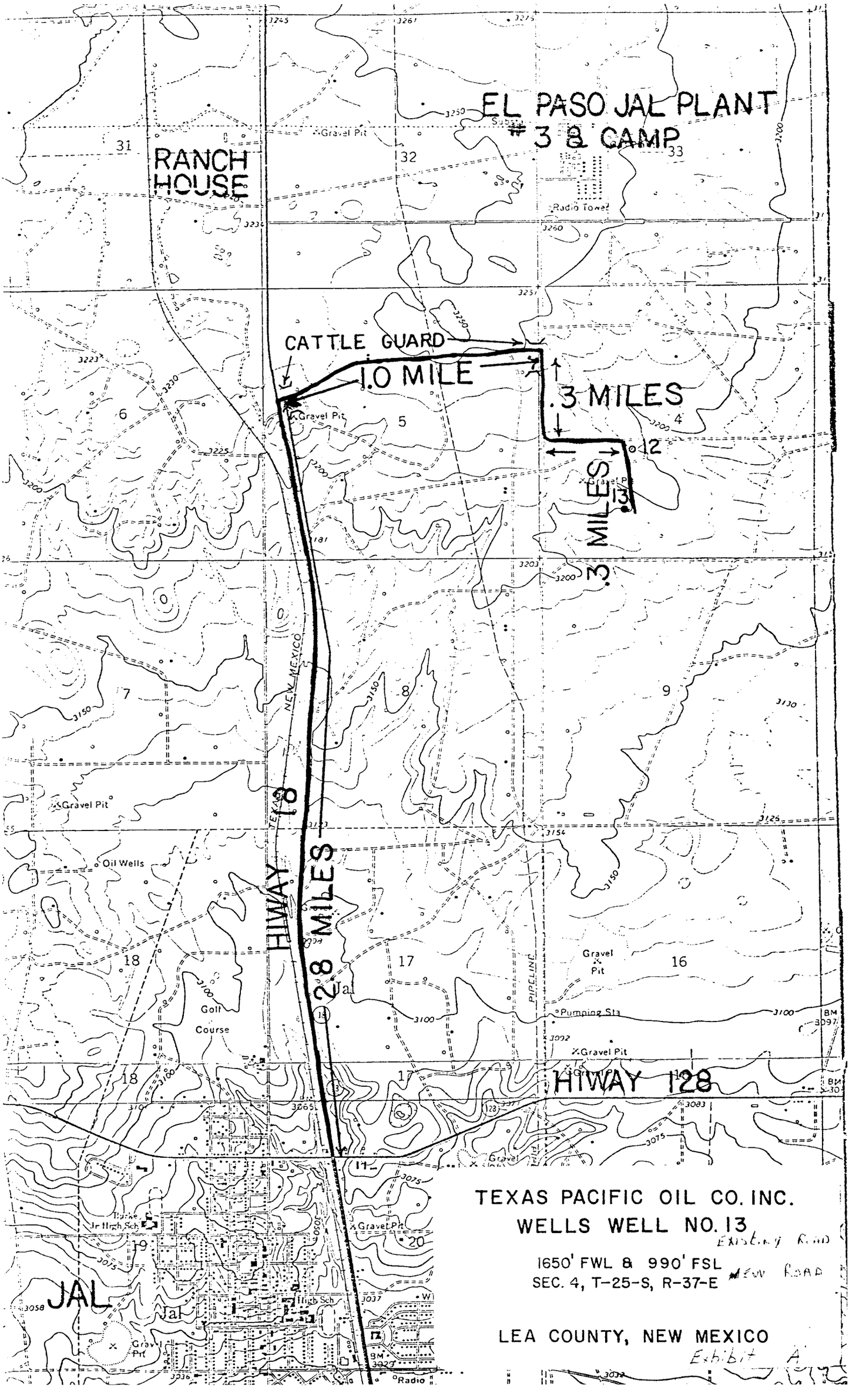
a.	James Cosper	Drilling Foreman	Home: 915-362-1445
b.	B. J. Knight	Drilling Coordinator	Home: 915-684-6263
c.	Tom Frizzell	Geologist	Home: 915-694-7944

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Pacific Oil Company, Inc., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

9-10-76
Date

B.J. Knight rest
B. J. Knight
Drilling Coordinator



TEXAS PACIFIC OIL CO. INC.

WELLS WELL NO. 13

Existing Road

1650' FWL & 990' FSL

SEC. 4, T-25-S, R-37-E

New Road

LEA COUNTY, NEW MEXICO

Exhibit A

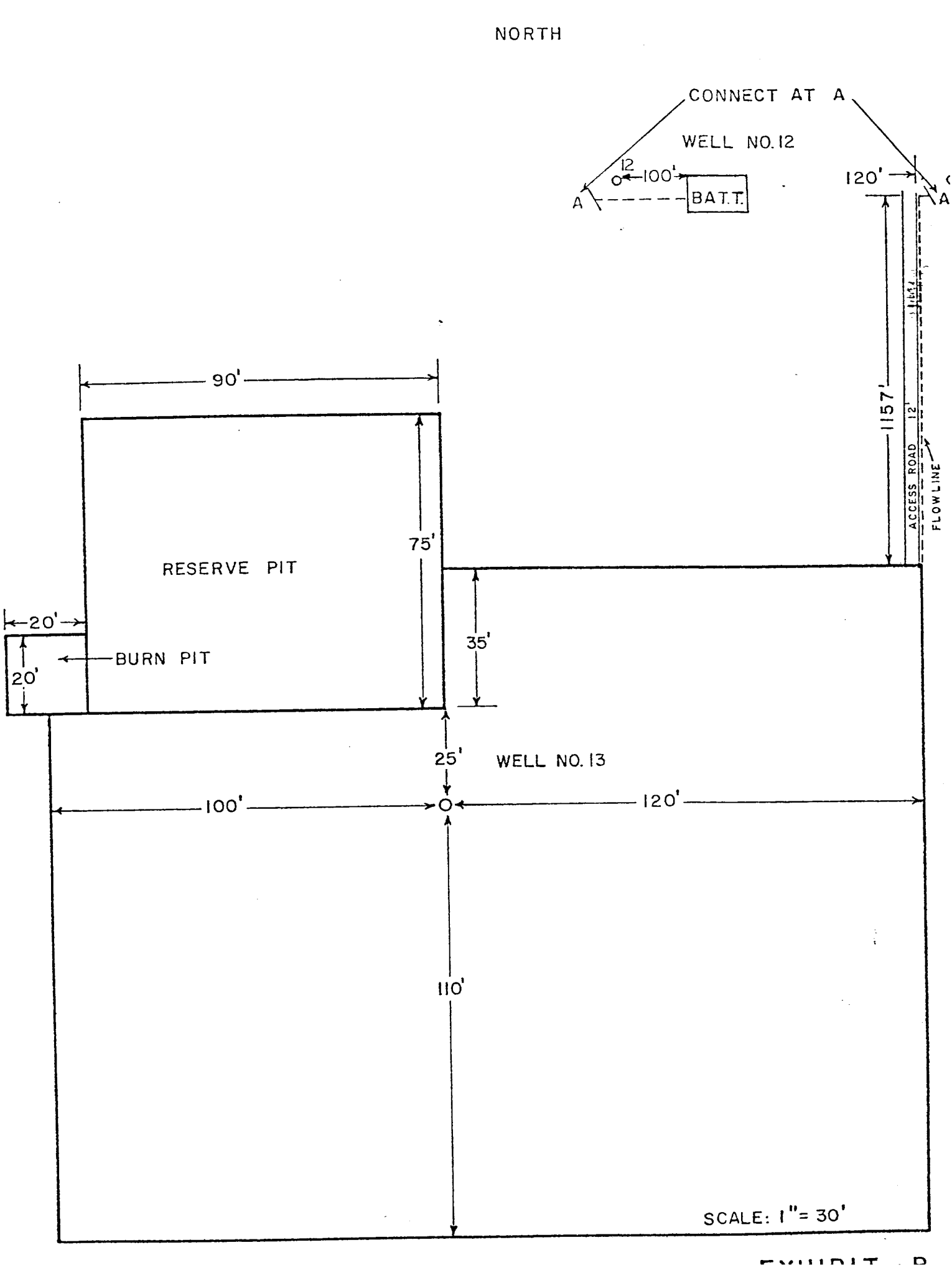
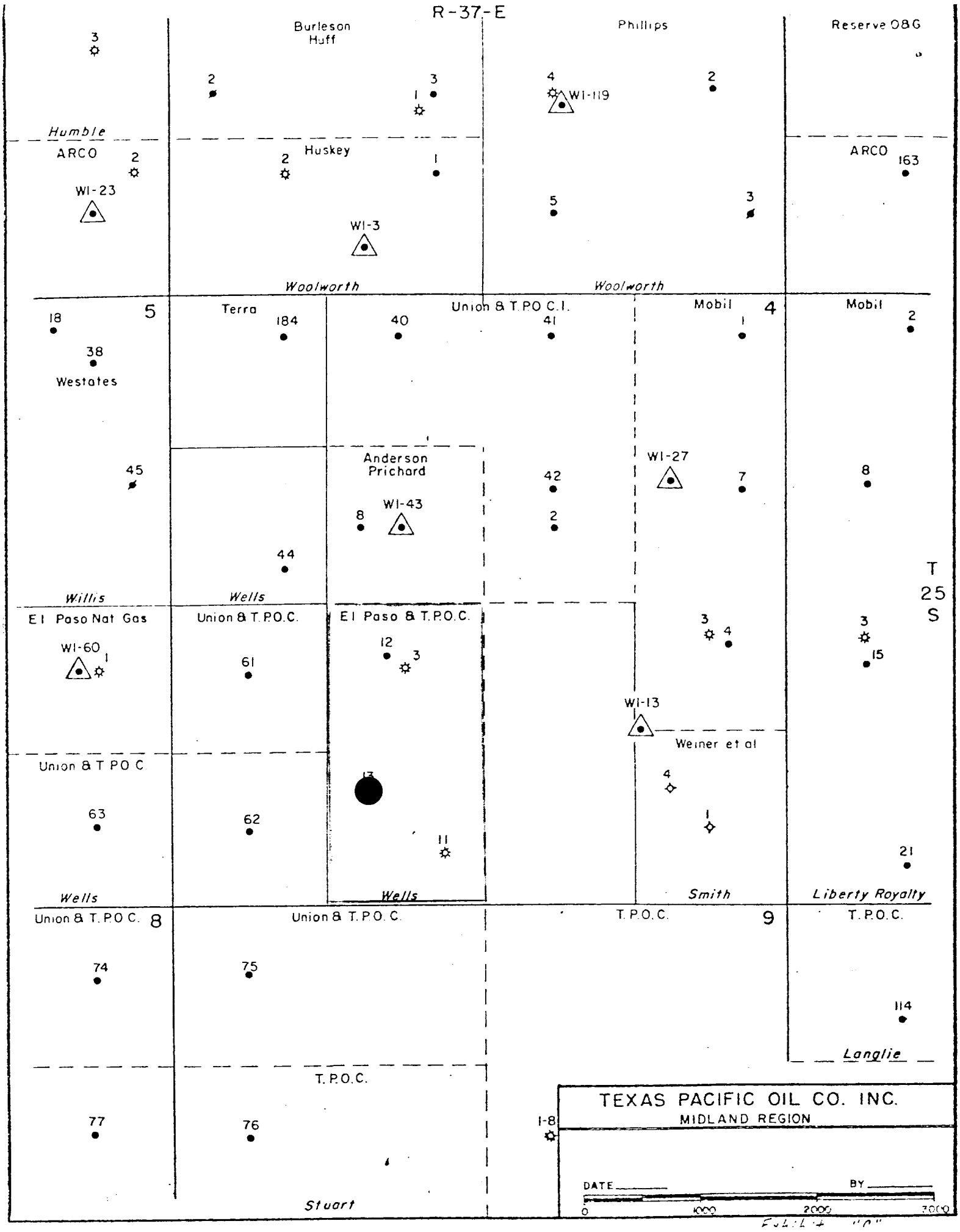

NORTH
CONNECT AT A
WELL NO. 12
12
100'
BAT. T.
A
A
120'
1157'
ACCESS ROAD 12'
FLOWLINE
90'
75'
RESERVE PIT
20'
BURN PIT
20'
35'
25'
WELL NO. 13
100'
120'
110'
SCALE: 1" = 30'

EXHIBIT B


R-37-E
Burleson
Huff
Phillips
Reserve O&G
Humble
ARCO
Huskey
WI-23
WI-3
WI-119
ARCO
163
Woolworth
Woolworth
5
Terra
Union & T.P.O.C.I.
Mobil
4
Mobil
18
38
Westates
184
40
41
1
2
45
Anderson
Prichard
WI-43
42
2
WI-27
7
8
44
T
25
S
Willis
Wells
El Paso Nat Gas
Union & T.P.O.C.
El Paso & T.P.O.C.
WI-60
61
12
3
3
4
3
15
WI-13
Weiner et al
Union & T P O C
63
62
13
11
4
1
21
Wells
Wells
Smith
Liberty Royalty
Union & T.P.O.C.
8
Union & T.P.O.C.
T.P.O.C.
9
T.P.O.C.
74
75
114
Langlie
T.P.O.C.
77
76
1-8
Stuart
TEXAS PACIFIC OIL CO. INC.
MIDLAND REGION
DATE
BY
0
1000
2000
3000

U. S. GEOLOGICAL SURVEY
P. O. Box 1157
Hobbs, New Mexico 88240

HOBBS DISTRICT

Texas Pacific Oil Co., Inc.
No. 13 Wells
SE¼SW¼ Sec. 4-25S-37E
Lea County, New Mexico

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to the attached sheet for general requirements for drilling and producing operations.

2. Notify this office (telephone (505) 393-3612) when the well is spudded and in sufficient time for a representative to witness cementing operations.

3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.

4. Secure prior approval before changing the approved drilling program or commencing plugging operations, plug-back work, casing repair work, or corrective cementing operations.

5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.

6. A kill-line is to be properly installed and is not to be used as a fill-up line.

7. Blowout preventers are to have proper casing rams when running casing.

8. Drill string safety valve(s) to fit all pipe in the drill string to be maintained on the rig floor while drilling operations are in progress.

9. Blowout prevention drills are to be conducted as necessary to assure that equipment is operational and that each crew is properly trained to carry out emergency duties. All BOP tests and drills are to be recorded on the driller's log.

10. Minimum required fill of cement behind the 5½" casing is to the base of the salt section.

11. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.