

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

(Other instructions on  
reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

CONTINENTAL OIL COMPANY

3. ADDRESS OF OPERATOR

P.O. BOX 460 HOBBS, NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

660' FNL and 1980' FEL OF SEC. 12

At proposed prod. zone

SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

14,700

20. ROTARY OR CABLE TOOLS

ROTARY

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

3625.2' GR

22. APPROX. DATE WORK WILL START\*

FEB. 20, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
20"	16"	65#	700'	675	SK CIRC
14 3/4"	10 3/4"	45.5#	5200'	2960	SK CIRC
9 1/2"	7 3/8"	33.7#	13,000'	1710	SK T.O.C. 5200'
6 1/2"	5"	18#	14,700'	260	SK T.O.C. 12,700'

IT IS PROPOSED TO DRILL A STRAIGHT HOLE TO A TD OF 14,700' AND  
COMPLETE AS A MORROW GAS WELL.

SEE ATTACHMENT FOR 10 POINT WELL PLAN.

SEE ATTACHED FOR 13 POINT SURFACE USE PLAN.

THIS Acreage is DEDICATED TO A GAS PURCHASER.

RECEIVED

FEB 14 1979

U. S. GEOLOGICAL SURVEY  
HOBBS, 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 *Wm. A. Lutz*

TITLE ADMINISTRATIVE SUPERVISOR

DATE 2-13-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

USGS

APPROVED  
AS AMENDED  
FEB 23 1979  
ACTING DISTRICT ENGINEER

JFB REL  
BASS  
EXXON  
PHILLIPS  
TRIPOR

\*See Instructions On Reverse Side

ATTACHMENT TO FORM 9-331 C  
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company

Bell Lake Unit No. 19  
T24S R33E  
Lea County, New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

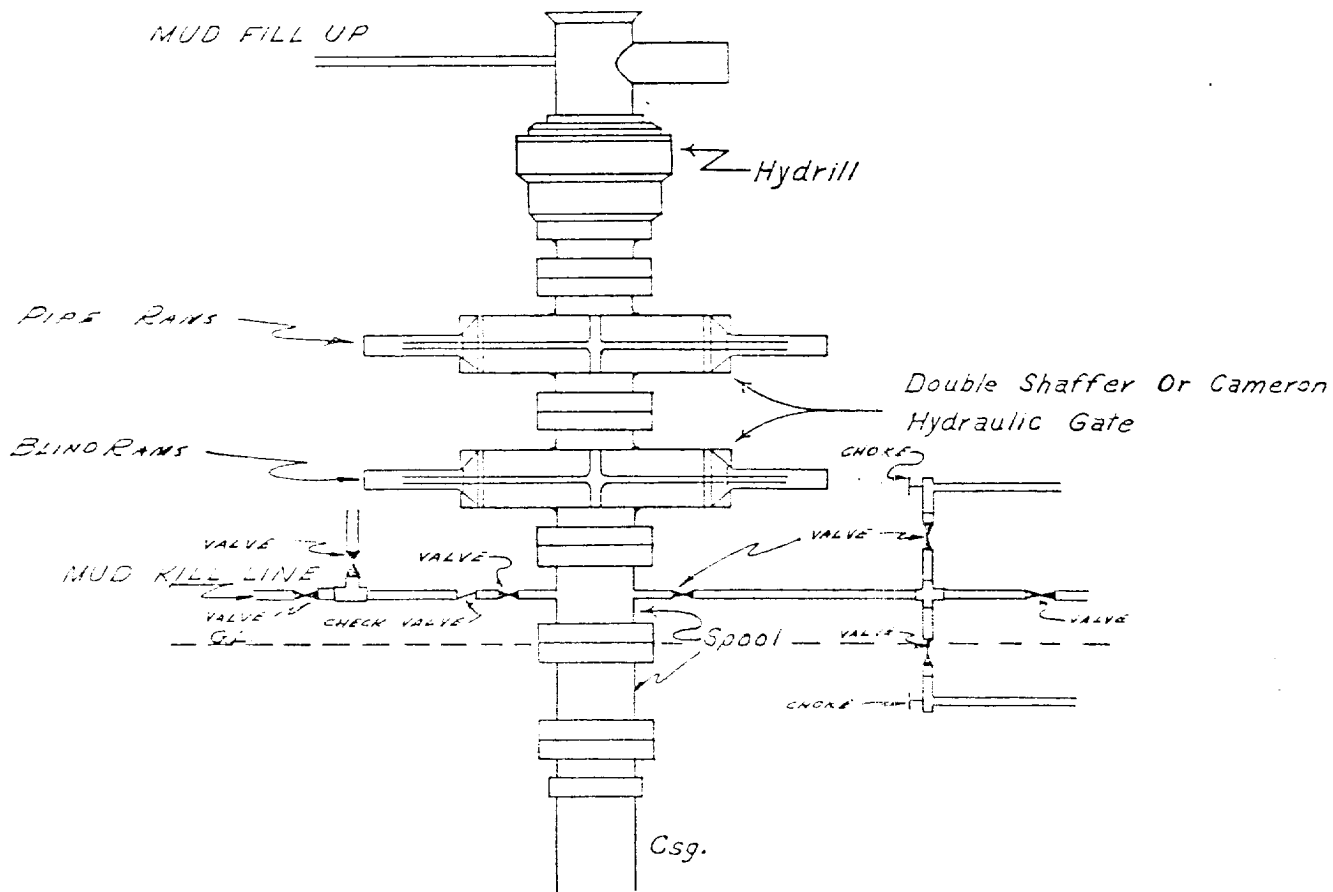
0-700'	16", 65#, H-40
0-5,200'	10 3/4", 45.5#, K-55
0-13,000'	7 5/8", 33.7#, N-80
12,700-14,700'	5", 18#, N-80
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0-700'	8.5-9.0 ppg	fresh water
700-5,200'	9.0-10.0 ppg	salt water
5,200-13,000'	8.5-8.8 ppg	fresh water gel
13,000-14,700'	12.7-13.2 ppg	non-disp.
7. The auxiliary equipment to be used is:
  - (1) kelly cocks
  - (2) floats at the bit
8. It is proposed to run GR CAL CNL FDC PDC logs at selected intervals, as shown on the attached Proposed Well Plan.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date is February 20, 1979, with a duration of approximately 115 days.

COUNTY: Lea  
STATE: New Mexico  
EST. 3652 KB  
EST. 3628 GL

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE IN.	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE IN.	DEPTH FT.			WEIGHT	TYPE
1000	Rustler anhy. 1350'	Lost circ. in surface beds	Geolograph O-TD	20	16	700			8.5- 9.0	Fresh Water
2000	Salado salt 1500'									
3000										
4000										
5000	Base Castile salt 4920' Ramsey ss 5250'		DIL FDC-CNL-GR 5500' - 5250'	14 3/4	10 3/4	5200			9.0- 10.0	Salt Water
6000										
7000		Poss. lost circ.								
8000										
9000	Bone Spring ls. 8900'									
10000			DLL FDC-CNL-GR BHC-(selectively) 12900' - 5500'							
11000										
12000	Wolfcamp ls. 11850'									
13000	Strawn ls. 12900'	Poss. GC mud to TD	Mudlogger 12500' - TD							
14000	Atoka ls. 13240'			9 1/2	7 5/8	13000			8.5- 8.8	Fresh Water Gel
15000	1st Morrow ss 13930'		DLL FDC-CNL-GR TD - 12900'							
	2nd Morrow ss 14270'									
	3rd Morrow ss 14420'									
	4th Morrow ss 14500'									
	TD - 14700'			6 1/2	** 5	14700	15.5- 16.5	12.5- 13.0	12.7- 13.2	Non Disp.

CONTINENTAL OIL COMPANY  
Blow-out Preventer Specifications



NOTE:

API SERIES 900

Manual and Hydraulic controls with closing unit no less than 75' from well head.  
Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,  
HYDRILL MAY OR MAY NOT BE USED.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

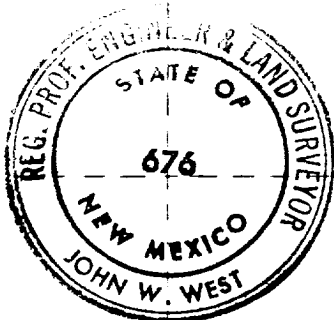
Operator <b>Continental Oil Co.</b>		Lease <b>Bell Lake Unit</b>		Well No. <b>19</b>	
Section <b>B</b>	Quarter <b>1</b>	Township <b>24 South</b>	Range <b>30 East</b>	County <b>Log</b>	
Approximate Location of Well <b>600</b> feet from the <b>North</b> line and <b>1200</b> feet from the <b>East</b> line					
Ground Level Elev <b>3640.2</b>	Producing Formation <b>MORROW</b>		Pool <b>BELL LAKE UNDESIGNATED</b>		Dedicated Acreage <b>320</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name  
*John A. Bentley*  
Position  
**ADMINISTRATIVE SUPERVISOR**  
Company  
**CONTINENTAL OIL CO.**  
Date  
**FEB. 13, 1979**

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  
**January 11, 1979**  
Registered Professional Engineer  
and/or Land Surveyor

*John W. West*  
Certificate No. **John W. West 676**  
Roughly 2 1/2 in. x 1 1/2 in.

SURFACE USE PLAN  
Continental Oil Company  
Bell Lake Unit No. 19  
Sec. 12, T-24S, R-33E  
Lea County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject well. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 660' FNL and 1980' FEL, Section 12, T-24S, R-33E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location (outlined in red on map) are as follows: From the Conoco station in Eunice, N. M., travel 2.5 miles south on Loop 18. Turn west on the Delaware Basin Road and travel 30.5 miles to the cattleguard. Through the cattleguard, 0.7 mile of road stakes go west to the location.
- C,D,E. Access roads are shown on Exhibits "B" & "C".
- F. No improvement or maintenance are anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New road required will be 12' wide and 3640' long. This new road is labeled and coded on Exhibits "B" and "C".
- B. Turnouts: Two
- C. Drainage Design: New road will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: No culverts; a 2' cut from SW to NE, 100' long is required.
- E. Surfacing Material: Six inches of caliche, bladed, waterbed, and compacted.
- F. Gates, Cattleguards, Fences: A fence is 660' north of the location. A cattleguard is approximately 3/4 mile east.
- G. The proposed road is staked.

3. Location of Existing Wells

See Exhibit "C".

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: Transwestern Plant is 3/4 miles north. If required, a tank battery will be erected on the proposed pad.
- B. Producing Facilities: Other than the tank battery, no additional producing facilities will be required.
- C. Oil Gathering Lines: Any flowlines will lay on the surface of the proposed pad.
- D. Other Lines: A Conoco disposal line is 1.5 miles north of the location.
- E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply

There is a water well at the Bell Lake Battery. If required, a temporary line will be run in a straight line to the location. Brine water will be hauled from Eunice, New Mexico.

6. Source of Construction Materials

Caliche will be hauled from an existing pit in the SE/4 of SW/4, Sec. 12, T-24S, R-33E. The pit approximately 0.6 miles south of the location on the west side of the highway.

7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

8. Ancillary Facilities

None

9. Well Site Layout

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

10. Plans for Restoration of Surface

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information

- A. Terrain: flat
- B. Soil: sandy
- C. Vegetation: mesquite, sagebrush, grass
- D. Surface Use: grazing
- E. Ponds and Streams: None within one mile
- F. Water Wells: None within one mile
- G. Residences and Buildings: None within one mile
- H. Arroyos, Canyons, Etc.: None
- I. Well Sign: Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- J. Open Pits: All pits containing mud or other liquids will be fenced.
- K. Archaeological Resources: None observed

12. Operator's Representative

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

Production and Drilling  
C. R. Paschal or H. C. Pokrandt  
1001 North Turner  
Hobbs, New Mexico 88240  
Phone: 393-4141

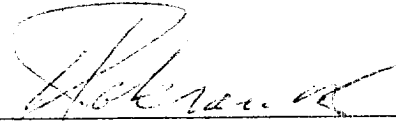


13. Certification

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 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 Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

2/13/77

Date



H. C. Pokrandt

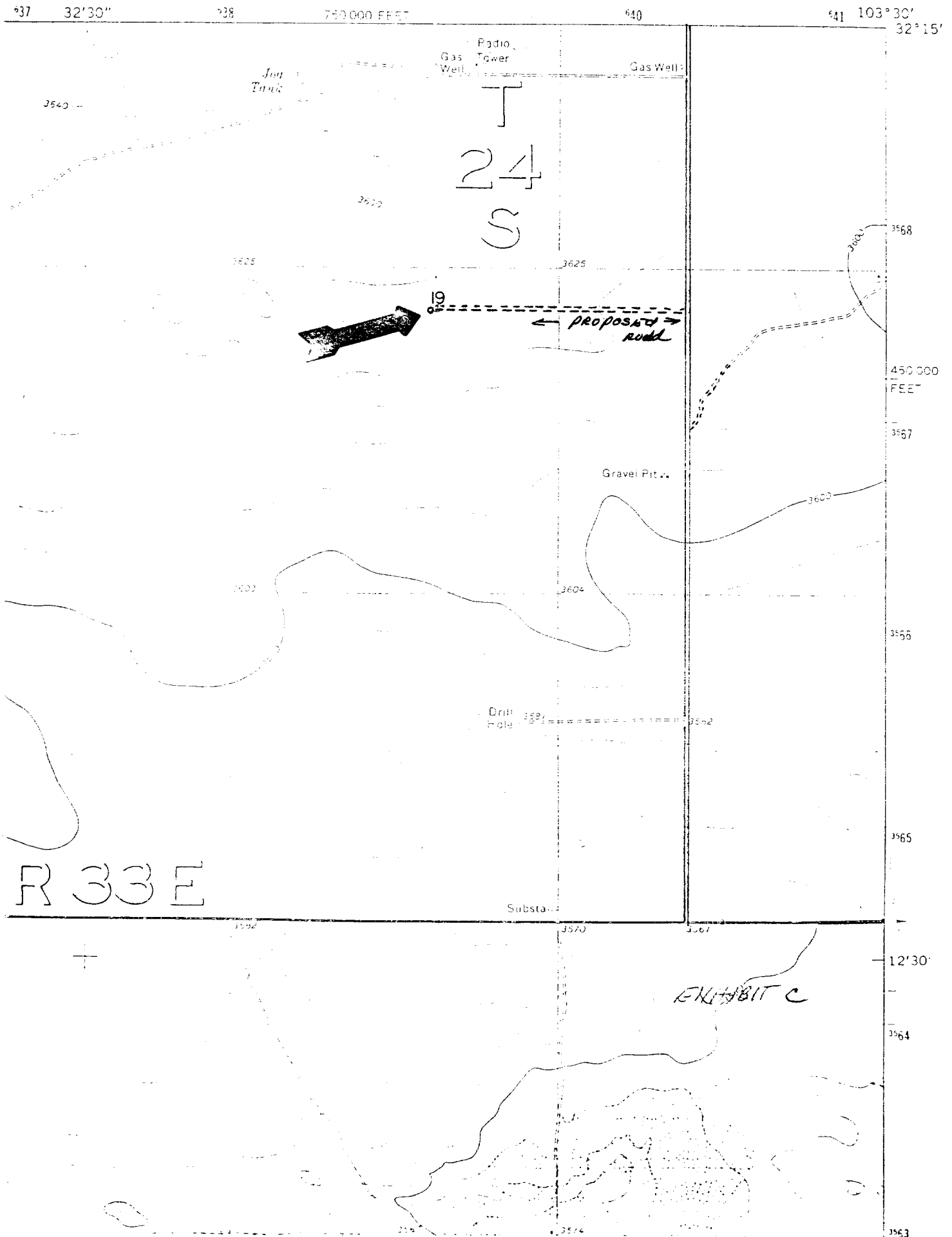
Production Superintendent

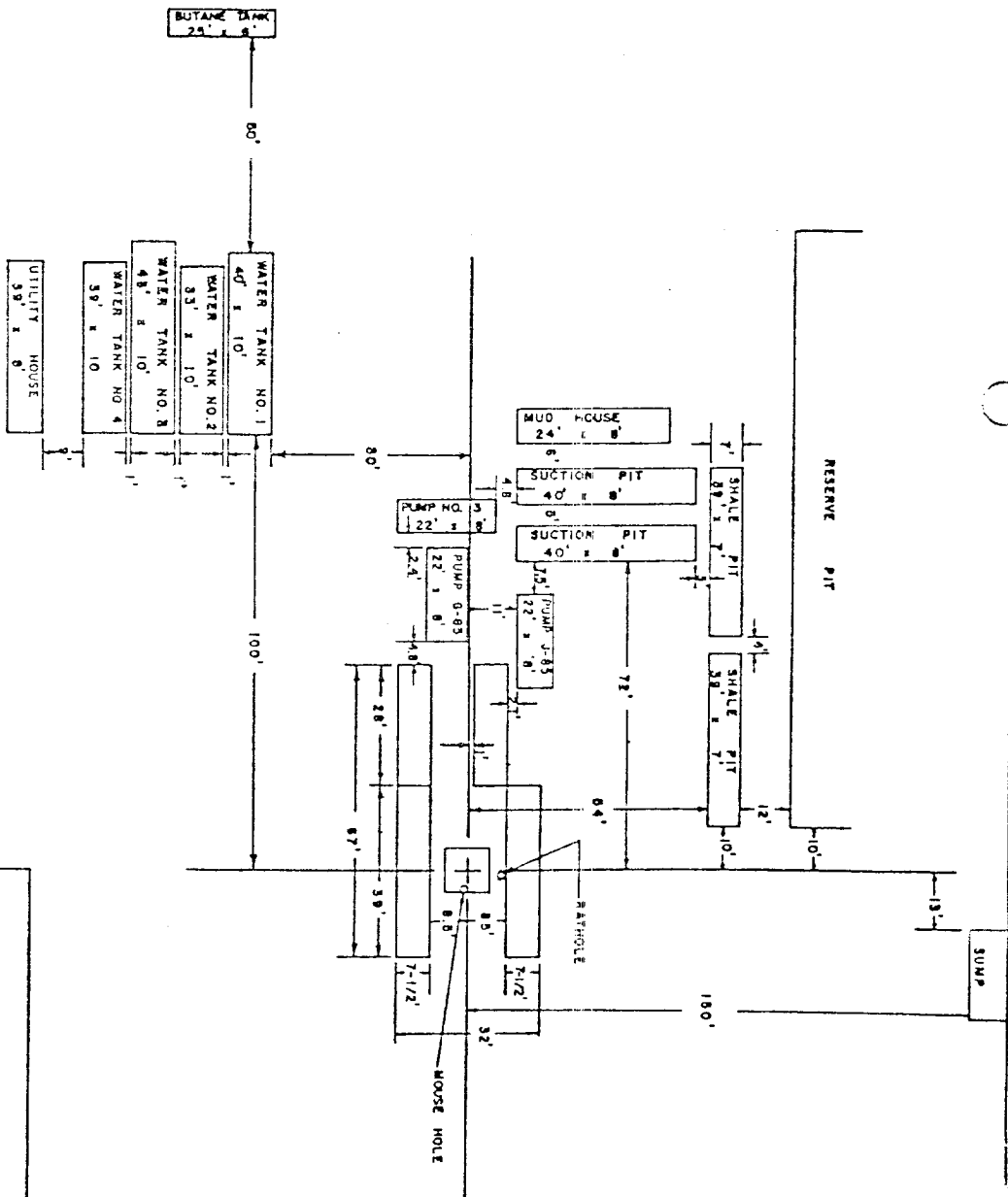
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6048-1000  
(10/10/00)





A. W. THOMPSON INC.

RIG NO. 11

SUBSTRUCTURE	HEIGHT	25'
RATHOLE: 7'-1/2" NORTH	8' EAST	24' DEEP-1/4 BUBBLE
MOUSE HOLE: 4' EAST	8' SOUTH	11' DEEP
		SLOPE 1"-2"

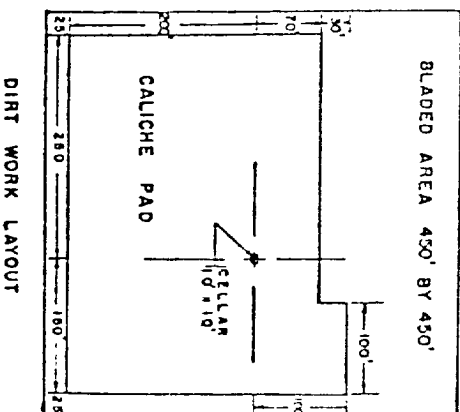


EXHIBIT D

FILE

FILE