

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

Samedan Oil Corporation

## 3. ADDRESS OF OPERATOR

2207 Wilco Building, Midland, Texas 79701

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

At surface

Unit K, 1980' FS &amp; WL, Sec. 19, T-16-S, R-28-E

At proposed prod. zone

Same

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

9 miles northeast of Artesia

O. C. C.  
ARTESIA. OFFICE

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any) 1980'

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

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## 16. NO. OF ACRES IN LEASE

1459.77

## 19. PROPOSED DEPTH

9700'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3537.3' G. L.

## 22. APPROX. DATE WORK WILL START\*

October 15, 1974

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
30"	20"	Conductor	40'	Circ. to surface
11"	8 5/8"	24#	1800'	Circ. to surface
7 7/8"	4 1/2"	11.6#	9600'	400 sacks

Plan to drill 30" hole to 40', run 20" conductor pipe and cement to surface. Drill 11" hole to 1800', run 8 5/8" casing and cement to surface. Drill 7 7/8" hole to 9700', run 4 1/2" casing, WOC 12 hrs. and test to 1000#. (DSTs may be run on any formation indicating production during this stage of drilling.) If production is indicated, will complete in productive zone(s) according to the Rules and Regulations of New Mexico Oil Conservation Commission. All pipe-setting and cementing operations will be conducted according to requirements of the proper authorities.

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.

William S. McCuen

SIGNED

TITLE Production Superintendent

DATE 8-7-74

(This space for Federal or State office use)

SUBJECT TO ATTACHED DEEP WELL CONTROL

PERMIT NO.

REQUIREMENTS DATED

APPROVAL DATE

JUN 22 1973

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

H. L. BECKMAN  
ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS  
ARE NOT COMMENCED WITHIN 3 MONTHS.  
EXPIRES DEC 25 1974

See Instructions On Reverse Side

Subject to Communication  
Agreement prior to  
production

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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.

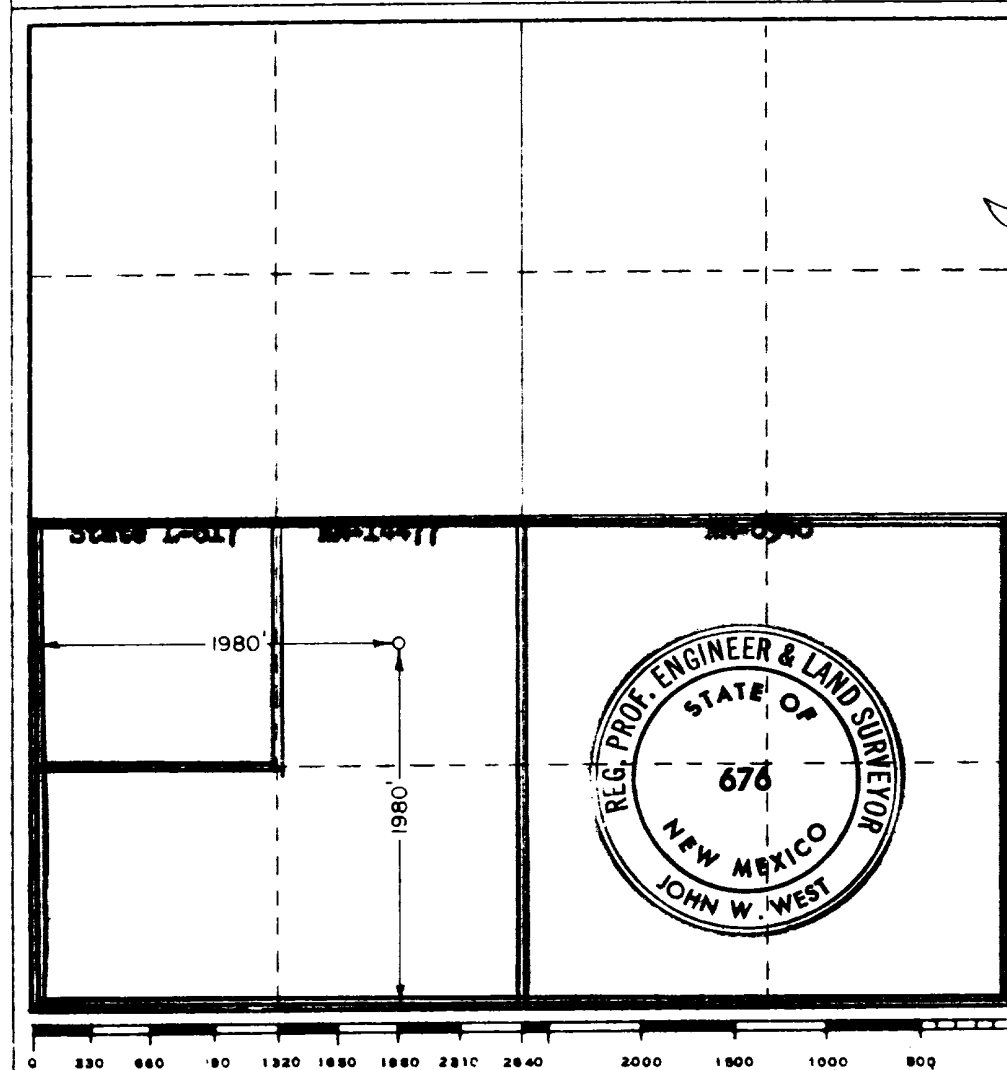
Operator <b>Samedan Oil Corporation</b>		Lease <b>Amoco Federal</b>		Well No. <b>2</b>
Unit Letter <b>K</b>	Section <b>19</b>	Township <b>16 South</b>	Range <b>28 East</b>	County <b>Eddy</b>
Actual Footage Location of Well: <b>1980</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>West</b> line				
Ground Elev. Elev. <b>3537.3</b>	Producing Formation <b>Narrow</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>380</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.) Will be communitized if commercial production is established.

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.

*William S. McCuen*

Name  
**William S. McCuen**  
Position  
**Production Superintendent**  
Company  
**Samedan Oil Corporation**  
Date  
**August 7, 1974**

**RECEIVED**  
**SEP - 2 1974**  
**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 survey 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  
**July 31, 1974**  
Registered Professional Engineer and/or Land Surveyor

*John W. West*  
Certificate No. **676**

Amoco Federal No. 2  
1980' FS & WL  
Sec. 19, T-16-S, R-28-E  
Eddy County, New Mexico

The following is a discussion of the pertinent information concerning any possible effect which Samedan's proposed drilling of the above well may have on the environment or surface condition of the southwest quarter (SW/4) of Section 19, T-16-S, R-28-E, and surrounding acreage.

Item 1: Attached, as a portion of the "Development Plan", are plats, labeled Plat No. 1 and Plat No. 2, showing the existing ranch and county roads to be used in reaching the proposed location, the presence of all surface water supplies within one (1) mile, and the proposed layout of the drilling pad, rig, and mud pits to be used in drilling the above well. These items are discussed further below.

Item 2: Drilling Pad and Pit Location - The drilling pad and reserve pits will be constructed as shown on Plat No. 1. The location will be cleared and leveled and used in its natural condition without caliche. The reserve pit will be lined with a suitable plastic or rubber lining to prevent the loss of drilling fluids by seepage into the surface.

Item 3: Roads - Access to the proposed location will be gained by use of the existing county roads and unimproved ranch roads. The unimproved ranch roads will be graded and leveled sufficient to provide access to vehicular traffic, with minor improvement only as required.

Item 4: Producing Facilities and Flowlines - In the event that the proposed well is completed as a producer, necessary surface producing facilities will be installed on the drilling pad at the well. Only enough flowline would be required to connect the well to such facilities.

Item 5: - Drilling Water Supply - Drilling water will be obtained through arrangements with the surface owner (or lessee on Federal land) and will be taken from the existing surface water supplies or wells within approximately three (3) miles of the proposed location.

Item 6: - Waste Disposal - Wastes (such as drilling mud sacks, barrels, containers, scrap material, and junk) resulting from the drilling of this well will be disposed of in a burn pit adjoining reserve pit.

Item 7: Disposal of Brine and Produced Salt Water - Waste brine and produced salt water will be collected in metal storage tanks and trucked to an approved disposal well.

Item 8: - Restoration of Surface - Following completion of the well, the mud pits will be filled and leveled consistent with the general terrain, and every effort will be made to leave the surface as undisturbed as possible.

Item 9: - Blowout Prevention and Drilling Mud Program - See copy of attached proposed drilling program.

SAMEDAN OIL CORPORATION  
WELL PROGRAM SHEET  
August 22, 1974

WELL: Amoco Federal No. 2

FIELD: Undesignated Morrow

OPERATOR: Samedan Oil Corporation

ESTIMATED

TOTAL DEPTH: 9700'

OBJECTIVE: Morrow

1. LOCATION: 1980' FSL & 1980' FWL, Sec. 19, T-16-S, R-28-E, Eddy Co., NM
2. ELEVATION: 3537'
3. MEASUREMENTS:

All measurements will be taken from the Kelly Bushing. The permanent datum will be the bradenhead flange. The distance from the bradenhead flange to the Kelly Bushing will be recorded on the logs and drilling report. An instrument will be utilized to record drilling time.

4. HOLE SIZE:

0' to 1800' - 12 1/4"  
1800' to T.D. - 7 7/8"

5. HOLE DEVIATION:

Maximum allowable hole deviation will be 5°, limited to 1 1/2° per 100'. Deviation surveys will be run at least once each 500', and the results of each survey will be recorded on the Daily Drilling Report.

6. ESTIMATED FORMATION TOPS:

San Andres	1690'	Upper Penn Mkr.	7480'
Glorieta	3170'	Atoka	8850'
Tubb Sand	4415'	Morrow	9050'
Abo	5160'	Upper Miss. Lime	9345'
Wolfcamp	6410'		

7. DRILLING SAMPLES:

Catch two (2) sets of 10' samples from 1000' to T.D. Ten (10) foot drilling time to be recorded (original and one copy) from 1000' to T.D.

8. BLOWOUT PREVENTERS:

Dual ram, 3000 psi, W.P., hydraulically-operated preventers plus a 3000 psi W.P. Hydril to be installed on 8 5/8" csg. prior to drilling plugs and to be equipped to Samedan's specifications.

9. DRILLING MUD:

0' to 1800' - Drill out of conductor with fresh water and control viscosity at 31-32 sec/1000 cc. Keep weight below 10#/gal. Use paper to control seepage. Possible lost circulation in upper part of hole.

1800' to 6400' - Drill out of 8 5/8" csg. with fresh water, while circulating through reserve pit. Use lime for controlled flocculation of solids.

6400' to 8000' - To the existing fluid, add brine water to increase weight to 8.8 to 9.0#/gal. To mud up early use procedure outlined for 8000'.

8000' to 8800' - at 8000' mud up in steel pits with brine water to maintain a weight of 8.8 to 9.0#/gal. Maintain a viscosity of 35 to 36 sec./1000 cc and a fluid loss of 8 to 10 cc. Add 3-5% KCL to system at 8500'. Spike system with nitrate to maintain a concentration of 100 ppm. Have double deck shale shaker in operation at 8000'.

8800' to T.D. - Maintain weight at 9.0#/gal. and viscosity at 35 to 36 sec/1000 cc. Reduce fluid loss to 3 to 5 cc. Maintain KCL in system.

10. CASING PROGRAM:

Conductor - 40' of 20"

Surface - 1800' of 8 5/8" 24# K-55 ST & C

Oil String - 9600' 4 1/2" 11.6# K-55 ST & C

11. CEMENTING:

Conductor - Ready-Mix

Surface Casing - Run 8 5/8" casing with notched Texas pattern guide shoe. Insert baffle plate and 3 centralizers. Use top and bottom plugs. Cement with sufficient lite wate cement with 2% gel and 400 sacks Class "H" cement with 2% calcium chloride to circulate to surface. 18 hr. WOC. Test casing to 800 psi for 30 mins. prior to drilling plug.

Oil String - To be developed if required

12. LOGGING:

Compensated Acoustic Velocity Log  
Guard Log  
Forxo Log

13. FORMATION TESTING:

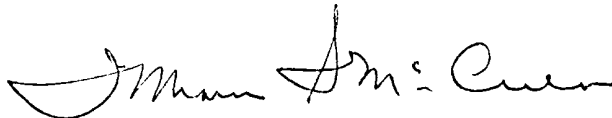
Wolfcamp  
Atoka  
Morrow

14. CORING:

None

15. MUD LOGGING: Will be used from 6400' to T.D.

16. COMPLETION PROGRAM: To be furnished as required.



William S. McCuen  
Production Superintendent

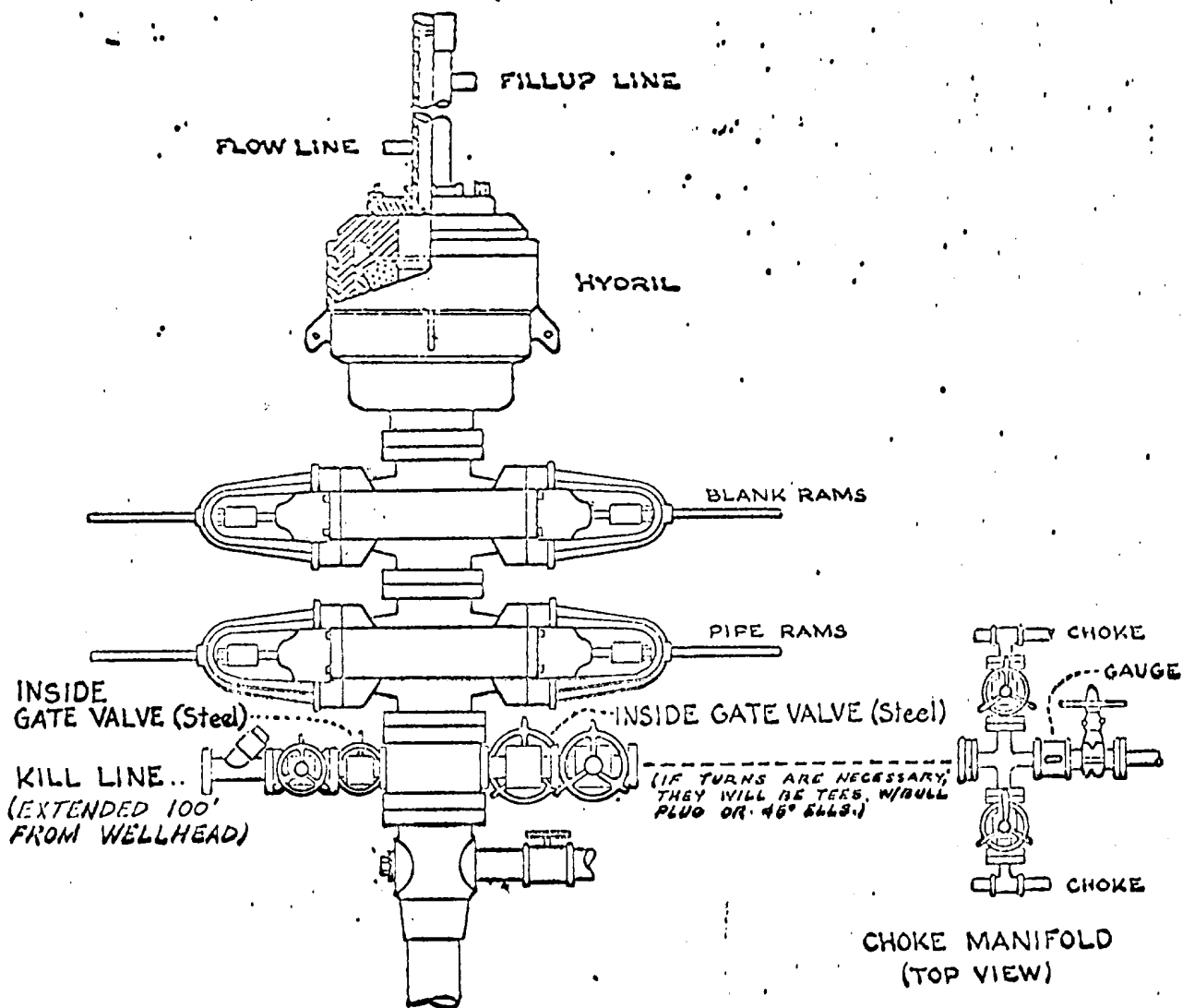
Bob E. Frizzell  
Hobbs, NM  
505-393-2512 (Off.)  
505-392-6080 (Res.)  
505-393-7266 (Mob.)

Ron Mercer  
Midland, TX  
915-683-5536 (Off.)  
915-694-4991 (Res.)

Bill McCuen  
915-683-5536 (Off.)  
915-694-7342 (Res.)

Cliff W. Matthews  
Midland, TX  
915-683-5536 (Off.)  
915-682-0354 (Res.)

# **BLOWOUT PREVENTER** **FOR** **MEDIUM PRESSURE WELLS** **(900 SERIES MIN.)**

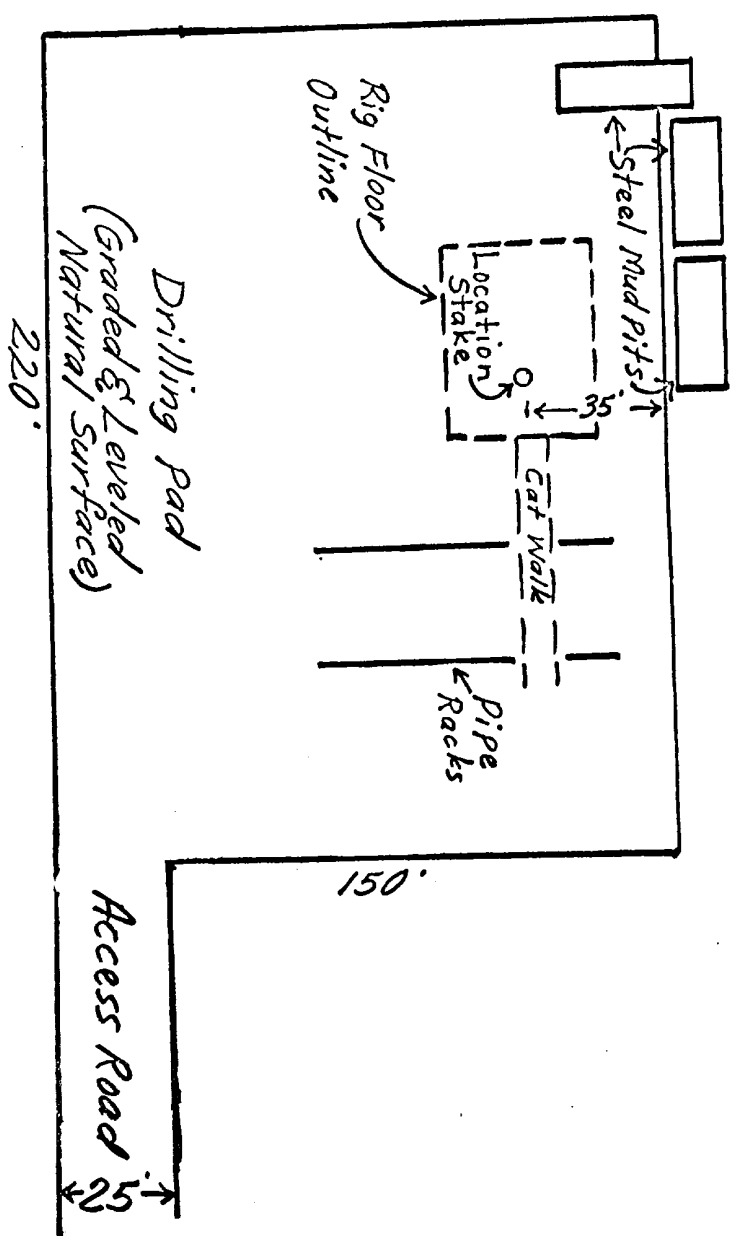
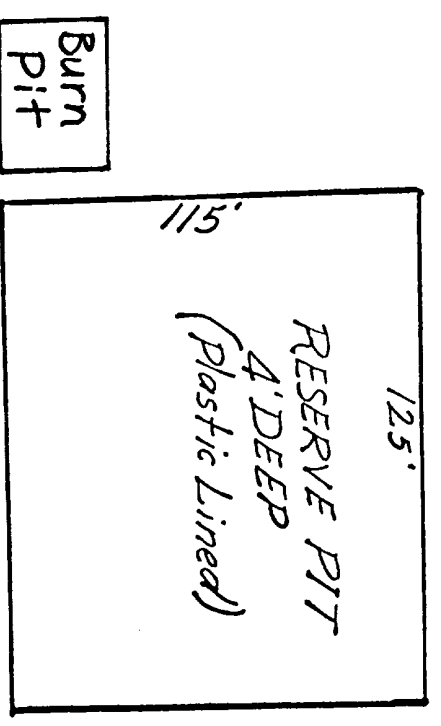
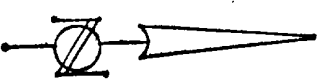


NOTE: Choke manifold to be either 3" or 4".  
 To be 900 Series, Minimum.

## **REQUIREMENTS**

1. Kill Line and Choke Manifold maybe connected to Braden Head at Area Supervisor's discretion in event of low substructure.
2. Hydraulic closing unit required.
3. Steel lines from BOP to closing unit required.

**SAMEDAN OIL CORPORATION**  
 ARDMORE, OKLAHOMA  
 223-4110



Sarnedan Oil Corporation  
Amoco Federal No.2  
SW/4 Sec.19,T-16-S,R-28-E  
Eddy County, New Mexico  
Scale: 1" = 50'

PLAT NO. 1



