

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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 ☒

RECEIVED
MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Pacific Enterprises Oil Company (USA) ✓

3. ADDRESS OF OPERATOR

P. O. Box 3083, Midland, Texas 79702

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

At surface
2030' FNL & 1980' FWL
At proposed prod. zone
same

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

9.5 miles SE of Artesia and 7.5 miles NE of Lakewood

15. DISTANCE FROM PROPOSED*

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

673.3'

16. NO. OF ACRES IN LEASE

320

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.

2200'

19. PROPOSED DEPTH

10,000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3419.9' GR

22. APPROX. DATE WORK WILL START*

March 31, 1990

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	8-5/8	32	1950'	1000 sx <u>circulated</u>
7-7/8	5-1/2	17	10,000'	1420 sx 2 stage, <u>circulated</u>

Pacific Enterprises Oil Company (USA) proposes to drill and test the Morrow formation and other possible intermediate pay zones. Approximately 1950' of 8-5/8" surface casing will be set and cemented to surface. If commercial pay is encountered, 5-1/2" production casing will be run to TD. [A stage tool will be used at 7500' or approximately 200' above all lost circulation to ensure cement is circulated to surface.]

Mud Program: 0' - 1950': Fresh water spud mud.
1950' - 8300': Fresh water with LCM as needed, 28-30 visc, no W/L control.
8300' - 10000': Mud up at 8300' with Potassium carbonate FW mud system.
MW 8.9 ppg, 34-38 visc, W/L 20 cc or less.

BOP PROGRAM: 5000 psi WP double hydraulic BOP on 8-5/8" casing. Will include annular (Hydril) preventer and rotating head. Pipe rams tested daily; blind rams tested on trips.

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

C. Robert Munkler

TITLE

Operations Engineer

DATE

2-28-90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

*See Instructions On Reverse Side

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

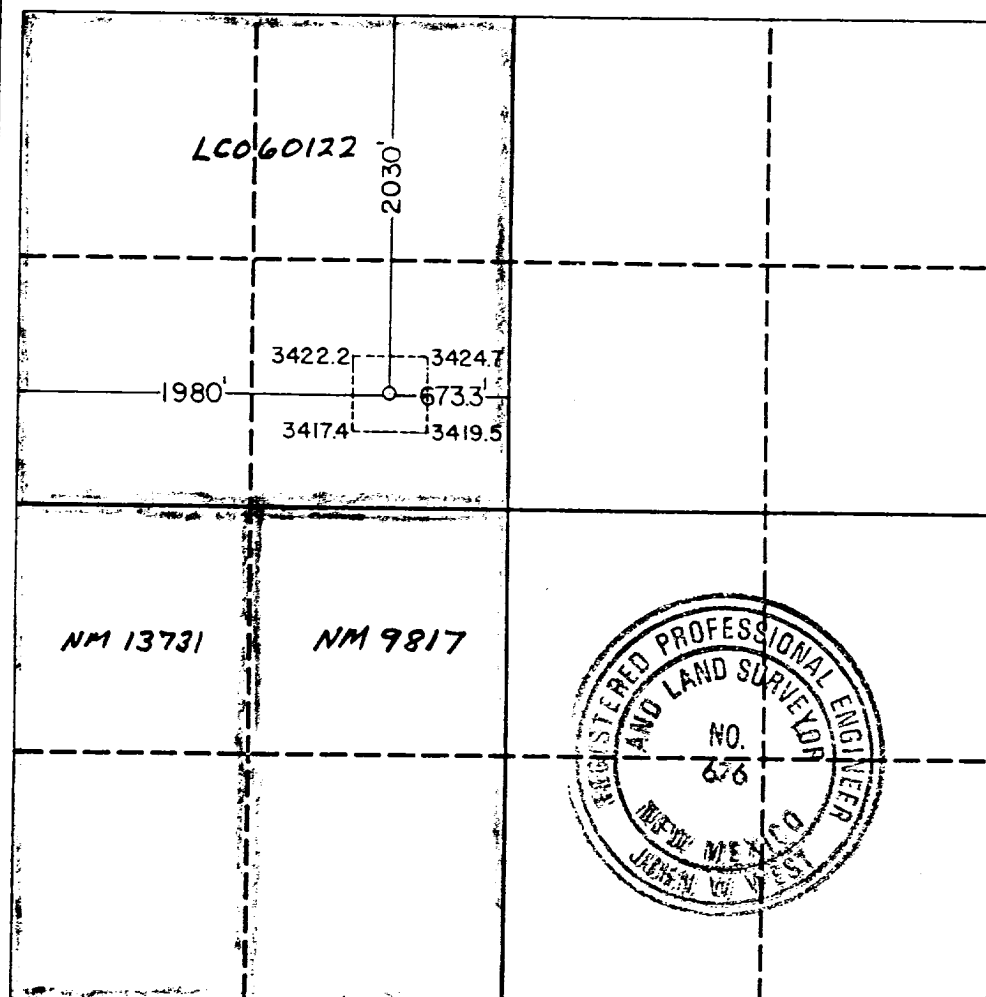
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator PACIFIC ENTERPRISES OIL CO. USA			Lease Trigg 28 Federal		Well No. 1
Unit Letter F	Section 28	Township 18 South	Range 27 East	County Eddy	
Actual Footage Location of Well: 2030 feet from the North line and 1980 feet from the West line					
Ground level Elev. 3419.9	Producing Formation Morrow		Pool Red Lake (Atoka-Morrow)	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
See Reverse Side
- If more than one lease of different ownership is dedicated to the well, have the interest 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. Forced pooling hearing will be held March 21, 1990.
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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

C. Robert Winkler III

Printed Name

Operations Engineer

Position

Pacific Enterprises Oil Co.

Company

2-28-90

Date

SURVEYOR CERTIFICATION

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

February 20, 1990

Signature & Seal of
Professional Surveyor

Certificate No. JOHN W. WEST, 676

RONALD J. EDSON, 3239

2. Ownership of participating leases.

1) NW/4 Section 28

Lease No.: LC 060122. Dedicated acreage 160 acres.

Ownership: Royalty - United States of America

Working - John H. and Pauline Van Hook Trigg - 100%

2) W/2 of SW/4 Section 28

Lease No.: NM 13731. Dedicated acreage 80 acres.

Ownership: Royalty - United States of America.

Working - Bonneville Fuels Corp.	17.46065
Great Western Drilling Co.	20.93930
Read & Stevens, Inc. et al	10.70440
Exxon Company	4.07530
Amoco Production Co.	3.39040
James L. Alford, Jr.	3.39040
Mark D. Wilson	4.71010
DEKALB Corp.	1.11880
J. Hiram Moore, Betty Jane	0.50860
Moore, Michael Harrison Moore	
Featherstone Development Co.	0.10170
Yates Petroleum Corp., Yates	33.60035
Drilling Co., Myco Industries Inc.,	
Abo Petroleum Corp.	

3) E/2 of SW/4 Section 28

Lease No.: NM 9817. Dedicated acreage 80 acres.

Ownership: Royalty - same as W/2, SW/4

Working - same as W/2, SW/4

APPLICATION FOR DRILLING
PACIFIC ENTERPRISES OIL COMPANY (USA)
TRIGG 28 FEDERAL NO. 1
2030' FNL & 1980' FWL, SEC 28 - T18S - R27E
EDDY COUNTY, NEW MEXICO
LEASE NO.: LC 060122

In conjunction with Form 3160-3, Application for Permit to drill the subject well, Pacific Enterprises Oil Company (USA) submits the following ten items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is a gently sloping land form with gypsiferous and limestone outcroppings.
2. The estimated tops of geologic marker are as follows:

Queen	1075'	Wolfcamp	7150'
San Andres	1900'	Strawn	8450'
Glorieta	3575'	Atoka	9300'
Bone Spring	4125'	Morrow	9650'
3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: Fresh water from 100' to 350'

Oil & Gas: Strawn 8450' (gas), Morrow 9650' (gas).
4. Proposed Casing and Cementing Program: See Form 3160-3.
5. Pressure Control Equipment: See Form 3160-3 and Exhibit E.
6. Mud Program: See Form 3160-3.
7. Auxiliary Equipment: Blowout preventer with accumulator, gas detector, pit level monitor, flow sensors. Upper and lower kelly cock and TIW valve.
8. Testing, Logging and Coring Programs:
 - a) Cores: none planned.
 - b) Drill Stem Tests: Two possible in the Morrow formation.
 - c) Open hole logs:

Gamma Ray - Neutron log	TD - Surface
DIL, FDC, caliper	TD - SCP
9. No abnormal pressures or temperatures are anticipated. Morrow reservoir pressure expected to be 4400 psi or 8.7 ppg, equivalent mud weight. The proposed mud program will be modified to increase the weight in the event abnormal pressures are encountered.
10. Anticipated starting date: Around March 31, 1990. Drilling time will be approximately 30 days.

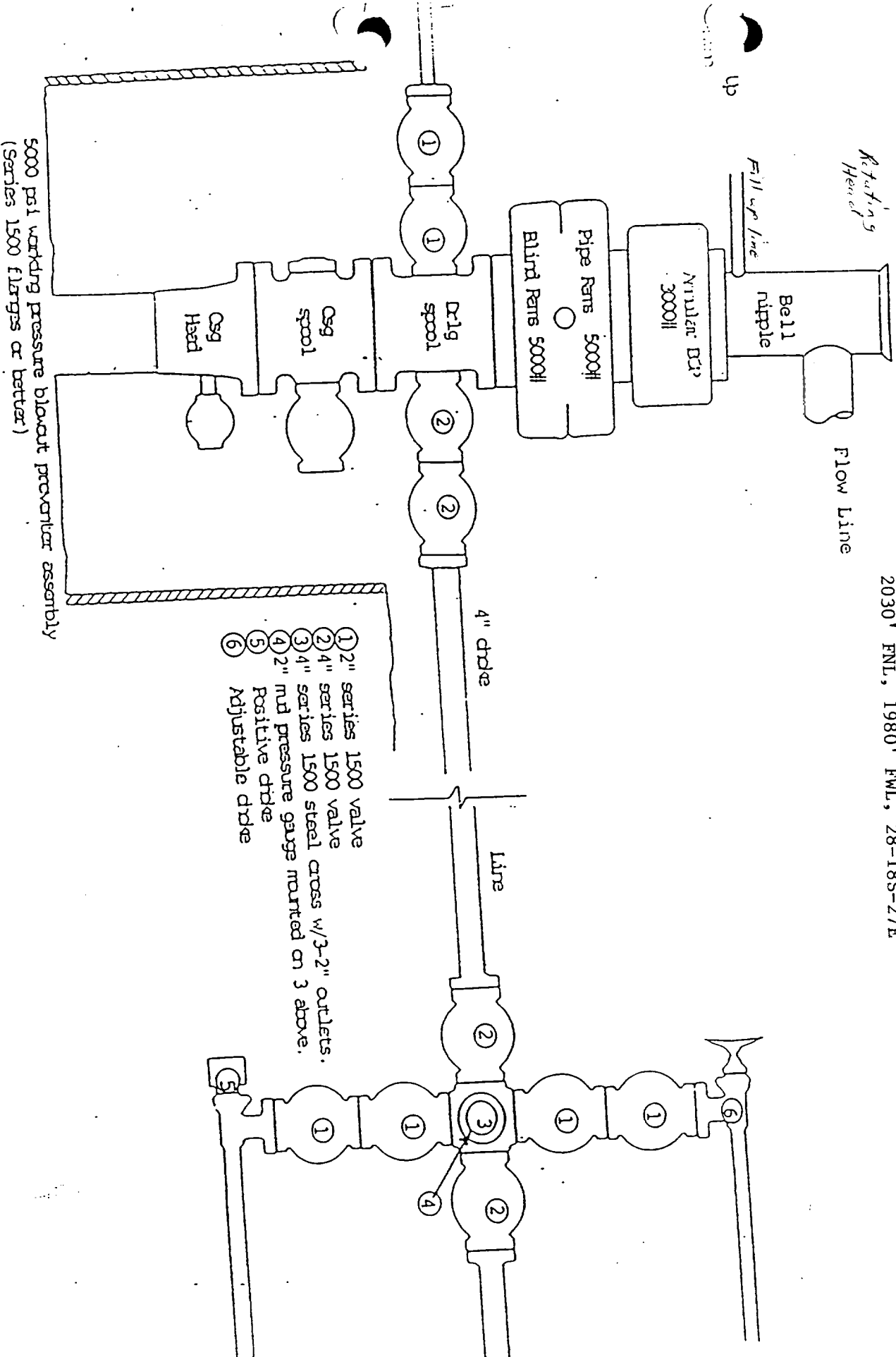
PRESSURE CONTROL EQUIPMENT

EXHIBIT "E"

PACIFIC ENTERPRISES OIL CO. (USA)

TRIGG 28 FEDERAL NO. 1

2030' FNL, 1980' FWL, 28-185-27E



MULTI JOINT SURFACE USE AND OPERATIONS PLAN
PACIFIC ENTERPRISES OIL COMPANY (USA)
TRIGG 28 FEDERAL NO. 1
2030' FNL & 1980' FWL, SEC 28, T18S, R27E
EDDY COUNTY, NEW MEXICO

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS

- A. **Exhibit A** is a portion of a USGS Topographic Lake McMillan North Quadrangle (7.5 minute series) map of the area, showing the location of the proposed wellsite and roads in the vicinity.

Directions:

1. From Artesia, NM: Go east on Hwy 82 about 12 miles to Hwy 206.
2. Turn right (south) on Hwy 206 for about 4.5 miles to Hwy 234.
3. Turn right (southwest) on Hwy 234 for about 0.5 miles to main caliche road.
4. Turn right (west) onto caliche road just prior to the ranch house. Follow road around ranch house then west about 3.6 miles. Location will be on the left shoulder of the road.

2. PLANNED ACCESS ROAD

- A. **Length and Width:** The proposed new access road will be approximately 100 feet in length from the point of origin to the edge of the drilling pad and be 12 feet wide. The proposed and existing access roads are color coded on Exhibit A.
- B. **Construction:** The new access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. The center line of the new road has been staked and flagged, and the route of the road is clearly visible.
- D. **Turnouts:** None required.
- E. **Culverts and Cattleguards:** None required.
- F. **Cuts and Fills:** None required.

3. LOCATION OF EXISTING WELLS

- A. The well locations in the vicinity of the proposed well are shown in **Exhibit B**.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. The only producing well on our lease is the Trigg 28 Federal "B" #2, located 460' FNL & 330' FWL of Section 28. This well produces from the Premier formation at 1618'.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. These facilities will most likely include a stakpak, two 210 barrel steel oil tanks and one 100 barrel fiberglass water tank. No electrical power will be used on the lease.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. It is planned to drill the surface hole and production with a fresh water system. The fresh water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in **Exhibit A**. We are presently looking for existing fresh water wells that might offer an alternative to trucking. If found, we will notify the BLM and revise our APD.

6. SOURCES OF CONSTRUCTION MATERIALS

- A. Any caliche required for construction of the drilling pad and the new access road will be obtained from an existing pit on Fee land in the NE/4 of the NE/4 of Section 26, T-18-S, R-27-E.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area only if cattle are run in this area. We will check with the surface tenant for likelihood of livestock.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the BLM for appropriate approval.

- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. 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.
- H. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES

- A. None required.

9. WELLSITE LAYOUT

- A. **Exhibit C** shows the dimensions of the well pad and reserve pits, and the location of major rig components. The drilling contractor has not been selected and pad will be no larger than that shown. A new rig plat will be submitted as a sundry notice.
- B. The ground surface at the drilling location is sloping down slightly toward the southwest at 0.4 degree. No cut will be required to level and pad area, which will be covered with at least 4 to 6 inches of compacted caliche.
- C. The reserve pits will be plastic lined.
- D. The 400' x 400' pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment or when dry.

11. OTHER INFORMATION

- A. Topography: The proposed location and road will be situated on a gently sloping land form with gypsiferous and limestone outcroppings. To the west, the coeval is overlain by a thick mantle of aeolian material. The ground elevation is 3419.9'.
- B. Soil: The top soil at the wellsite is composed of typic gypsiorphic-calcicgypsiorphic and typic paleorpid subgroups.
- C. Flora & Fauna: The vegetation cover at the wellsite consists of creosote bush, plains yucca, javelina bush and plains prickly pear. Wildlife in the area is typical of a semi-arid climate, consisting of coyotes, rabbits, reptiles, dove and quail.
- D. Ponds & Streams: The Pecos river is located about one mile west of the staked location.
- E. Residences and other Structures: There are no dwelling places within the vicinity of the wellsite. The are producing wells located to the west, north and east.
- F. Land Use: Cattle grazing.
- G. Surface Owner: The wellsite is located on federal surface. The surface tenant is J. W. Gissler, P. O. Box 987, Artesia, New Mexico, 88210.
- H. Archaeology: There is no evidence of any archaeological, historical, or cultural sites at the wellsite location. An archaeological survey was conducted on February 20th and 23rd, 1990 by Dr. Haskell of the New Mexico Archaeological Services, Inc., P. O. Box 1341, Carlsbad, New Mexico, 88221-1341, and the report has been submitted to the appropriate government agencies. In addition, Barry Hunt, with the BLM, inspected and approved the site at this time.

12. OPERATOR'S REPRESENTATIVES

- A. The field representatives responsible for assuring compliance with the approved surface use plan are:

PACIFIC ENTERPRISES OIL COMPANY (USA)

Operations Engineer	Office	Home
C. Robert Winkler	(915) 684-3861	(915) 683-9585
Regional Operations Manager		
Al B. Buron	(915) 684-3861	(915) 684-8914
Geologists		
Ralph Moore	(915) 684-3861	(915) 682-5313

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 currently exist; that the statements made in this plan are, to the best of knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Pacific Enterprises Oil Company (USA) and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to provisions of 18 USC 1001 for the filing of a false statement.

A handwritten signature in cursive script, reading "C. Robert Winkler III".

C. Robert Winkler III
February 28, 1990

CRW/lh

attachments

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAKE MC MILLAN NORTH QUADRANGLE

NEW MEXICO-EDDY CO

7.5 MINUTE SERIES (TOPOGRAPHIC)

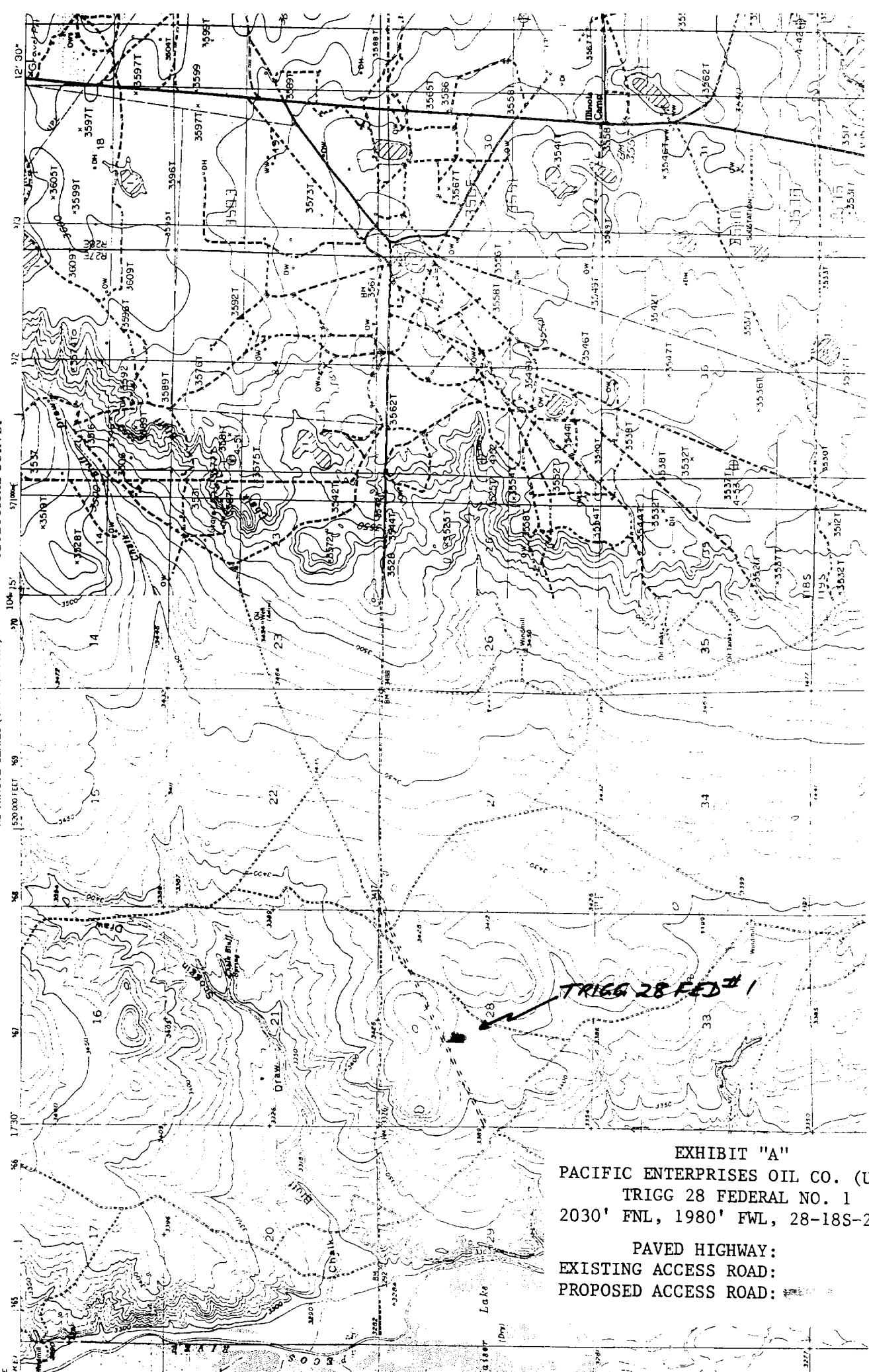


EXHIBIT "A"
PACIFIC ENTERPRISES OIL CO. (USA)
TRIGG 28 FEDERAL NO. 1
2030' FNL, 1980' FWL, 28-18S-27E

PAVED HIGHWAY:
EXISTING ACCESS ROAD:
PROPOSED ACCESS ROAD:

T
18
S

T
19
S

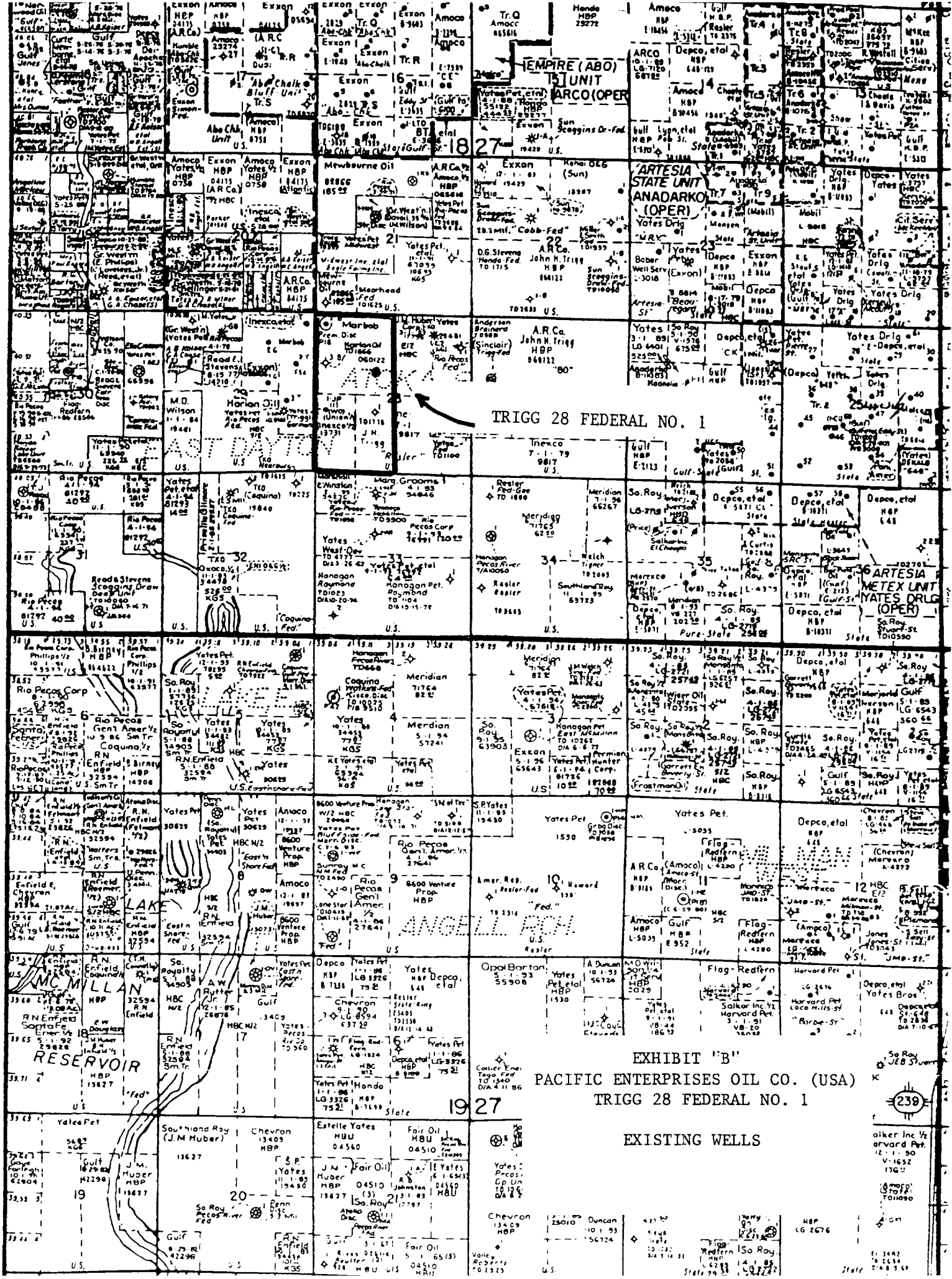


EXHIBIT "B"
PACIFIC ENTERPRISES OIL CO. (USA)
TRIGG 28 FEDERAL NO. 1

EXISTING WELLS

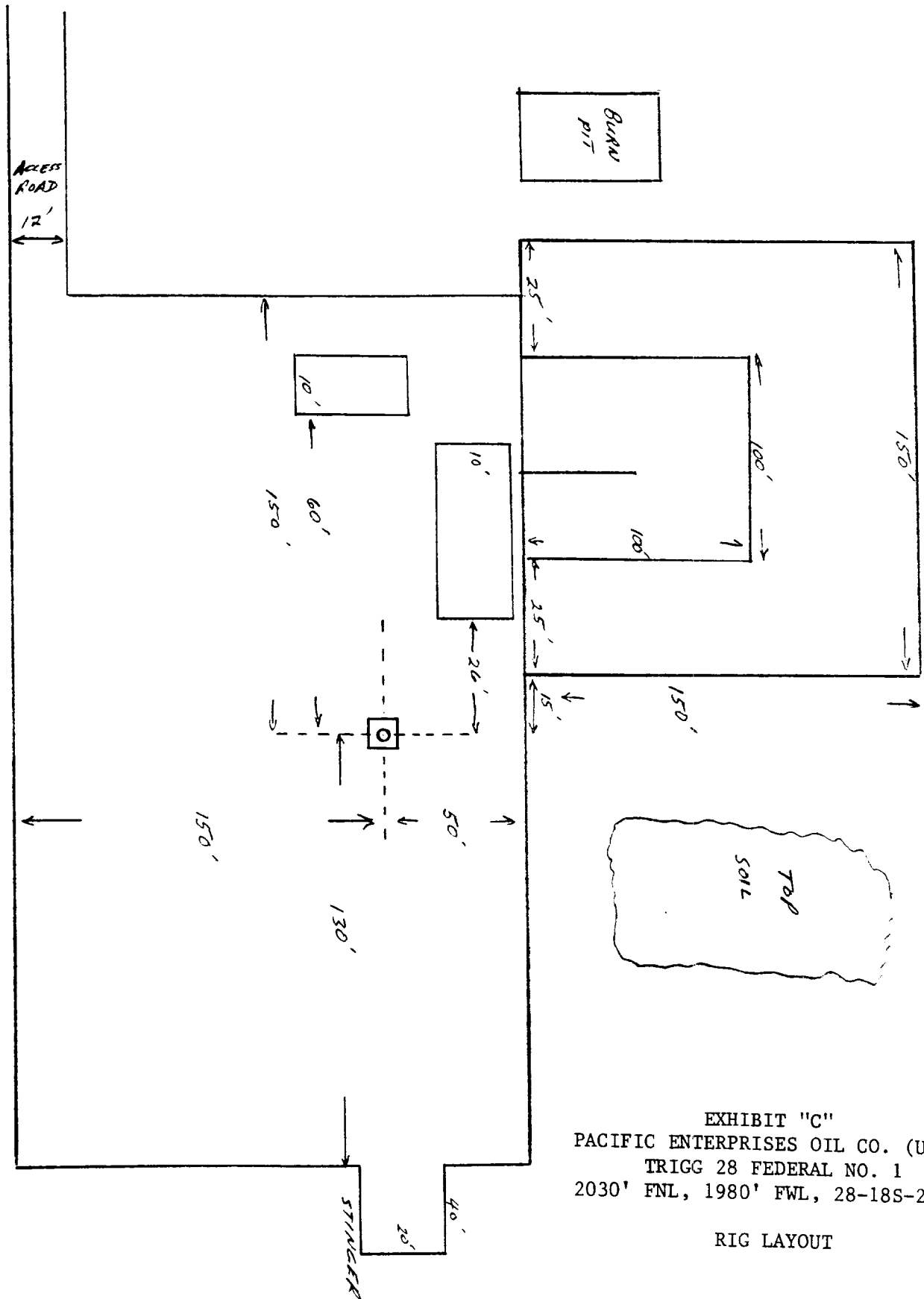


EXHIBIT "C"
PACIFIC ENTERPRISES OIL CO. (USA)
TRIGG 28 FEDERAL NO. 1
2030' FNL, 1980' FWL, 28-18S-27E
RIG LAYOUT