

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

Exxon Corporation

3. ADDRESS OF OPERATOR

P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface1,980' FSL and 1,780 FEL of Section
At proposed prod. zone

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

39 miles SW of Portales

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest d'lg. line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION*

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

1335'

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

4300

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

4430.4 GR

22. APPROX. DATE WORK WILL START*

February 1, 1980

23.

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"	24.0	1,800'	900 cu. ft.
7 7/8"	5 1/2"	14.0	4,300'	900 cu. ft.

RECEIVED

NOV 5 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

Debra Kripling

TITLE Proration Specialist

DATE 11-1-79

(This space for Federal or State office use)

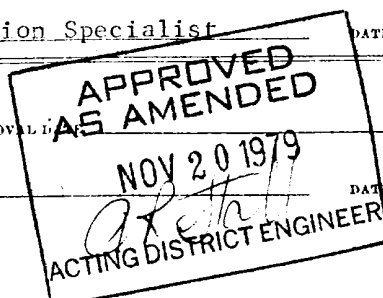
PERMIT NO.

APPROVAL

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

Federal Lse. No. _____ All distances must be from the outer boundaries of the Section.

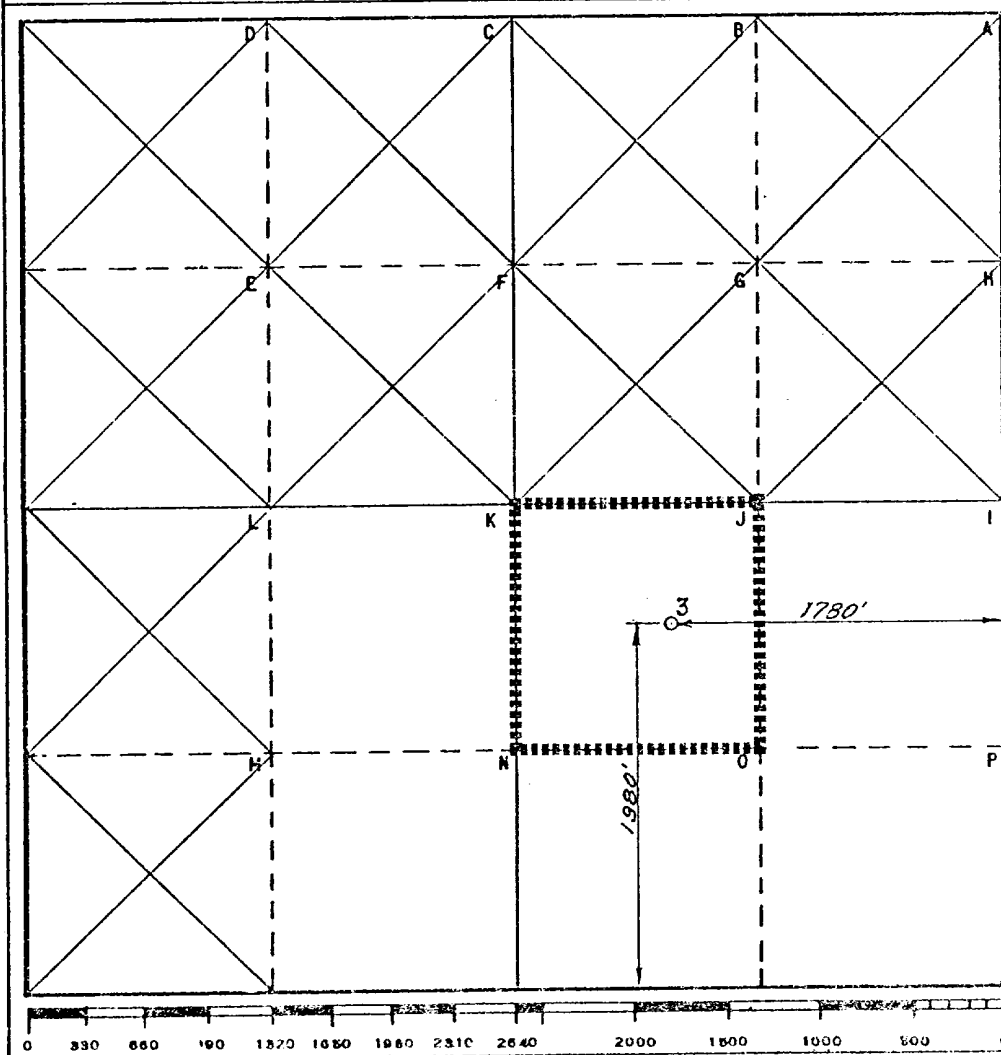
Operator Exxon Corporation			Lease Smith Federal		Well No. 3
Unit Letter J	Section 19	Township 7 South	Range 32 East	County Roosevelt	
Actual Footage Location of Well: 1980 feet from the South line and 1780 feet from the East line					
Ground Level Elev. 4430.4	Producing Formation San Andres		Pool Tomahawk San Andres		Dedicated Acreage: 40 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
Melba Knippling
Position
Proration Specialist
Company Exxon Corporation
Box 1600 Midland, Texas
Date
10-18-79

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
10-31-79

Registered Professional Engineer
and/or Land Surveyor

J. S. Hesterfeld
Certificate No.

1382

Exxon #3 Smith Federal
Located 1980' FSL and 1980' FEL of Section 19
T7S, R32E, Roosevelt County, New Mexico
Federal Lease No. NM 12693

1. The geologic name of the surface formation: Recent
2. The estimated tops of important geologic markers:

Tansill	2100'
Yates	2200'
Seven Rivers	2270'
San Andres	3300'
PHi - 1 Marker	4000'

3. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to occur:

Water	50'
Oil	3300'

4. Proposed Casing Program:

<u>String</u>	<u>Size</u>	<u>Weight/Grade</u>	<u>Condition</u>	<u>Depth Interval</u>
Surface	8 5/8"	24#/K-55	New or Used	0-1800'
Production	5 1/2"	14#/K-55	New or Used	0-4300'

5. Minimum specifications for pressure control equipment.

- a. Wellhead Equipment - Threaded type 2000 psi WP for 8 5/8" x 5 1/2" casing program and 2 7/8" tubing.
- b. Blowout Preventers - Refer to attached drawing and list of equipment titled "Type II-C" for description of BOP stack and choke manifold.
- c. BOP Control Unit - Unit will be hydraulically operated and have at least 3 control stations.
- d. Testing - When installed on 8 5/8" surface casing the BOP stack will be tested to a low pressure (200-300 psi) and to 1500 psi. Casing rams will be tested in like manner when installed prior to running production casing. An operational test of the blowout preventers will be performed on each round trip (but not more than once each day); the annular and pipe ram preventers will be closed on drill pipe, and the blind rams will be closed while pipe is out of the hole.

6. Type and Anticipated Characteristics of Drilling Fluid:

<u>Depth Interval</u> (Feet)	<u>Mud</u> <u>Type</u>	<u>Weight</u> (ppg)	<u>Funnel Visc.</u> (Sec/Qt)	<u>WL</u> (cc)	<u>pH</u>
0-1800	FW Mud	8.6-9.0	30-33	-	10.5
1800-TD	Brine	10	30-33	10	10.5

7. Auxilliary Control Equipment:

- a. Kelly Cocks: Upper and lower installed on kelly.
- b. Safety Valve: Full opening ball type to fit each type and size of drill pipe in use will be available on rig floor at all times, in open position for stabbing into drill pipe when kelly is not in the string.
- c. Trip tank to insure that hole is full and takes proper amount of fluid on trips. Will be used during drilling of production hole.
- d. Mud system monitoring equipment and floats at the bit will not be used unless conditions dictate.

8. Testing, logging, and Completion Programs.

- a. Logging: Surface casing - TD FDC/DLL
Surface - TD CNL
- b. Plan to core PHi - 1 Marker from 4000' - 4300'.
- c. Completion - Formation: San Andres 3300-4000'

Proposed Completion Procedure: Spot acid across pay zone. Run GR-CCL and perforate. Acidize with 4000 gals. 15% gelled NE HCl.

- d. Production Method: Run packer on 2 7/8" tubing and set above San Andres perforations. Produce San Andres oil up the tubing.

9. Abnormal Pressure or Other Possible Hazards:

- a. No abnormal pressure is anticipated.
- b. No H₂S problem is expected.

10. It is anticipated that the drilling and completion operations will begin about February 1, 1980 and be finished in approximately 3 weeks.

BLOWOUT PREVENTER SPECIFICATION
EQUIPMENT DESCRIPTION

TYPE II-C

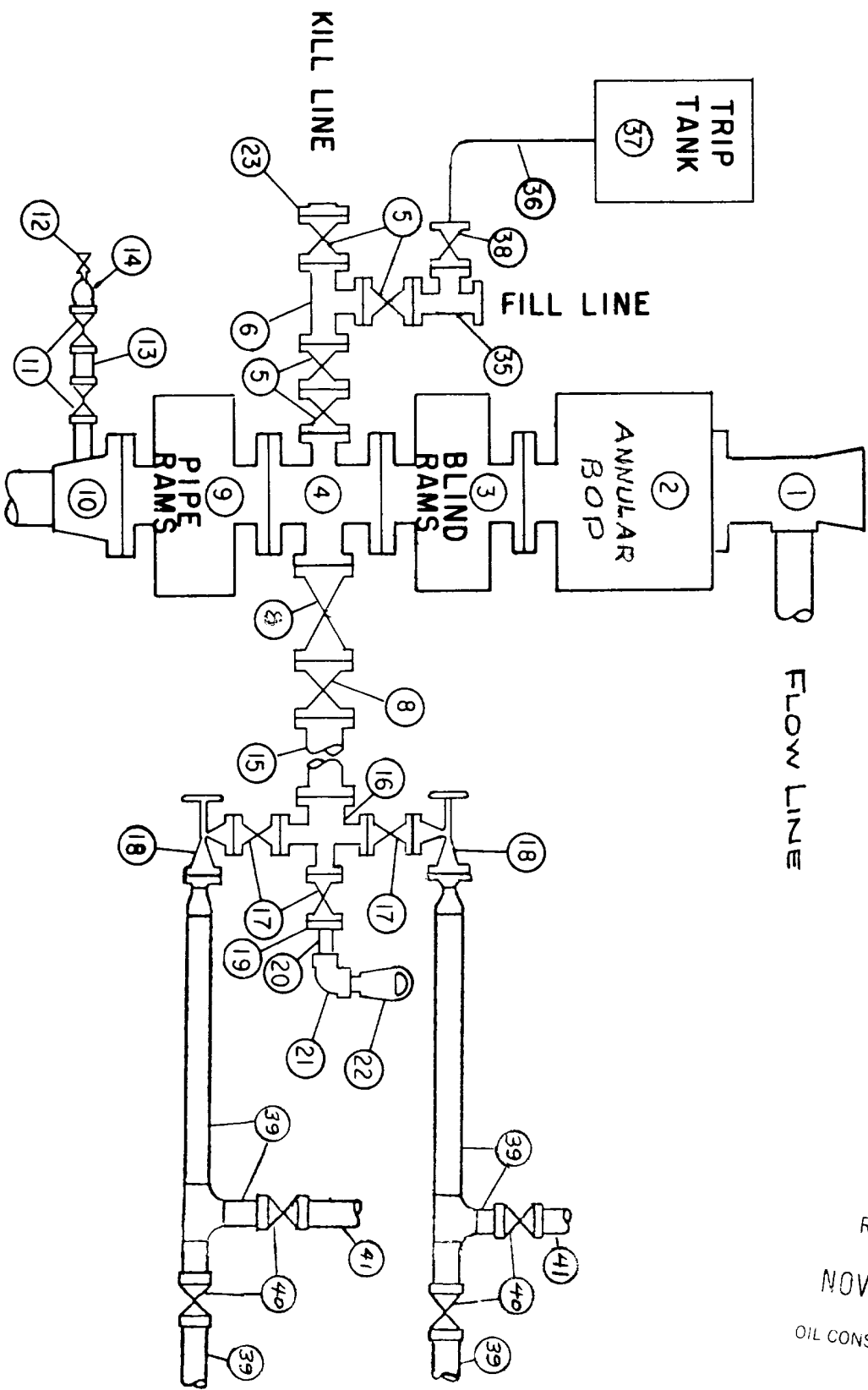
All equipment should be at least 2000 psi WP or higher unless otherwise specified.

1. Bell nipple.
2. Hydril or Shaffer bag type preventer.
3. Ram type pressure operated blowout preventer with blind rams.
4. Flanged spool with one 4-inch and one 2-inch (minimum) outlet.
5. 2-inch (minimum) flanged plug or gate valve.
6. 2-inch by 2-inch by 2-inch (minimum) flanged tee.
8. 4-inch flanged gate or plug valve.
9. Ram type pressure operated blowout preventer with pipe rams.
10. Flanged type casing head with one side outlet (furnished by Exxon).
11. 2-inch threaded (or flanged) plug or gate valve (furnished by Exxon).
Flanged on 5000# WP, threaded on 3000# WP or less.
12. Needle valve (furnished by Exxon).
13. 2-inch nipple (furnished by Exxon).
14. Tapped bull plug (furnished by Exxon).
15. 4-inch flanged spacer spool.
16. 4-inch by 2-inch by 2-inch by 2-inch flanged cross.
17. 2-inch flanged plug or gate valve.
18. 2-inch flanged adjustable choke.
19. 2-inch threaded flange.
20. 2-inch XXH nipple.
21. 2-inch forged steel 90° Ell.
22. Cameron (or equal.) threaded pressure gage.
23. Threaded flange.
35. 2-inch flanged tee.
36. 3-inch (minimum) hose. (Furnished by Exxon).
37. Trip tank. (Furnished by Exxon).
38. 2-inch flanged plug or gate valve.
39. 2-1/2-inch pipe, 300' to pit, anchored.
40. 2-1/2-inch SE valve.
41. 2-1/2-inch line to steel pit or separator.

NOTES:

1. Items 3, 4 and 9 may be replaced with double ram type preventer with side outlets between the rams.
2. The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
3. Kill line is for emergency use only. This connection shall not be used for filling.
4. Replacement pipe rams and blind rams shall be on location at all times.
5. Only type U, LWS and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
6. Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.

MIDLAND DRILLING ORGANIZATION BLOWOUT PREVENTER SPECIFICATION TYPE II - C



RECEIVED
 NOV 27 1970
 OIL CONSERVATION DIV

SURFACE USE PLAN

Exxon Corporation-Development Wells

Exxon #3 Smith Federal

Located 1980' FSL and ~~1980'~~^{1780'} FEL of Section 19
T7S, R32E, Roosevelt County, New Mexico
Federal Lease No. NM 12693

1. EXISTING ROADS - Detailed map showing drillsite location in relation to a town or known point and all existing roads within one mile of the drillsite are shown on Exhibits "A".

From Kenna, New Mexico, go south approximately 7 miles to a "Y" and take the left hand branch and proceed approximately 4 1/2 miles to the location.

2. It is planned to construct approximately 500 feet of new road as shown on Exhibit "A"

- (1) Width of the new road to be constructed will be approximately 12 feet.
- (2) No grade change will be made in any part of the existing access road or the new road to be constructed in excess of 5 percent.
- (3) No turnouts will be necessary.
- (4) No special drainage features will be necessary.
- (5) No culverts will be required.
- (6) Caliche will be on the road.
- (7) No cattleguards will be required.

- (8) The proposed new road is center-line flagged.

3. LOCATION OF EXISTING WELLS WITHIN ONE MILE RADIUS -

- (1) Water wells - There are no known water wells within 1 mile of the drillsite.
- (2) Abandoned wells - Dry holes are shown on Exhibit "D" within 1 mile of drillsite.
- (3) Temporarily abandoned wells - None
- (4) Disposal wells - None

SURFACE USE PLAN

- (5) Drilling wells - None
- (6) Producing wells - Shown on Exhibit "D"
- (7) Shut-in wells - None
- (8) Injection wells - None
- (9) Monitoring or observation wells for other resources - None
- 4. TANK BATTERIES, PRODUCTION FACILITIES AND LEASE PIPELINES -
 - A. Exxon has no existing storage facilities in this field.
 - B. In the event of production, new facilities are shown on Exhibit "C".
 - 1) Proposed location and attendant lines by flagging if off of well pad.
 - 2) Dimensions of facilities are shown on Exhibit "C".
 - 3) Production facilities will be constructed on a caliche pad as shown on Exhibit "C". Flow lines to be laid on the surface along the roads.
 - C. Rehabilitation will be done on any disturbed areas no longer needed for operations after completion of the production facilities. This will consist of reshaping the existing surface and seeding as specified.
- 5. LOCATION AND TYPE OF WATER SUPPLY -
 - A. Water will be from off the lease.
 - B. Water will be hauled over existing roads.
 - C. No water well will be drilled.
- 6. SOURCE OF CONSTRUCTION MATERIALS -
 - A. Caliche will be obtained from a pit in the area.
 - B. No construction materials will be used from Federal lands.
 - C. Caliche secured from private sources will be used where needed on the road and drillsite.
 - D. All access roads are shown on Exhibit "A".
- 7. WASTE DISPOSAL -
 - (1) Drill cuttings will be disposed of in the reserve pit.
 - (2) Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.
 - (3) Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.

SURFACE USE PLAN

- (4) Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
 - (5) Current laws and regulations pertaining to disposal of human waste will be complied with.
 - (6) If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.
8. ANCILIARY FACILITIES - No camps, airstrips, et cetera, will be constructed.
9. WELL SITE LAYOUT -
 1. Refer to Exhibit "B" for well site layout.
 2. Dimensions may vary slightly depending on size of drilling rig available.
 3. Rig orientation, parking areas and access are shown on Exhibits B and C.
 4. The reserve pits will be lined with plastic.
10. RESTORATION OF SURFACE -
 1. At the time of completion and abandonment of the well, the pits will be backfilled and the entire disturbed area will be sloped to coincide with the adjacent undisturbed area. The top soil will be distributed over the entire disturbed area. Prior to leaving the drillsite upon rig move out and before reshaping any pit that is to remain open for drying will be fenced until backfilling and reshaping can be done.
 2. When well is abandoned drill pad and other disturbed areas will be rehabilitated as per BLM recommendations.
 3. Any rehabilitation of the drill pad will comply with BLM specifications.
 4. Any oil on pits will be removed or otherwise disposed of to USGS and BLM approval.
 5. Rehabilitation operations will be completed as soon as practical after abandonment of the well and no later than the Fall after abandonment.
11. OTHER INFORMATION -
 1. The terrain is flat prairie. The soil is sandy and the vegetation is sparse.
 2. The surface is used for grazing and is owned by the Federal Government.
 3. There are no occupied dwellings, archaeological, historical or cultural sites within one mile.

SURFACE USE PLAN

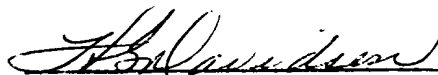
12. OPERATOR'S REPRESENTATIVE - Field representative who can be contacted concerning compliance of this Surface Use Plan is:

H. G. Davidson
P. O. Box 1600
Midland, TX 79702
Office Phone: (915) 683-0263
Home Phone: (915) 694-5324

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 Exxon Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. A copy of this plan will be posted at the well site during the drilling of the well for reference by all contractors and subcontractors.

Date

10-22-79


H. G. DAVIDSON
Division Drilling Manager

MK:dc

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐
well well other

2. NAME OF OPERATOR

Exxon Corporation

3. ADDRESS OF OPERATOR

P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1980' FSL & 1780' FEL of Section

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

☐
☐
☐
☐
☐
☐
☐
☐

(other) Change of Exhibits "A" and "C"

5. LEASE

N. M. 12693

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Smith Federal

9. WELL NO.

3

10. FIELD OR WILDCAT NAME

Tomahawk San Andres

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 19, T 7 S, R 32 E

12. COUNTY OR PARISH

Roosevelt

13. STATE

New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

4430.4 GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached are Exhibits "A" and "C" with changes.

Caliche will be obtained from a pit in the SW/4 of Sec. 21, T7S, R32E

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

Melvin Tripleing

TITLE Proration Specialist DATE 11-2-79

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

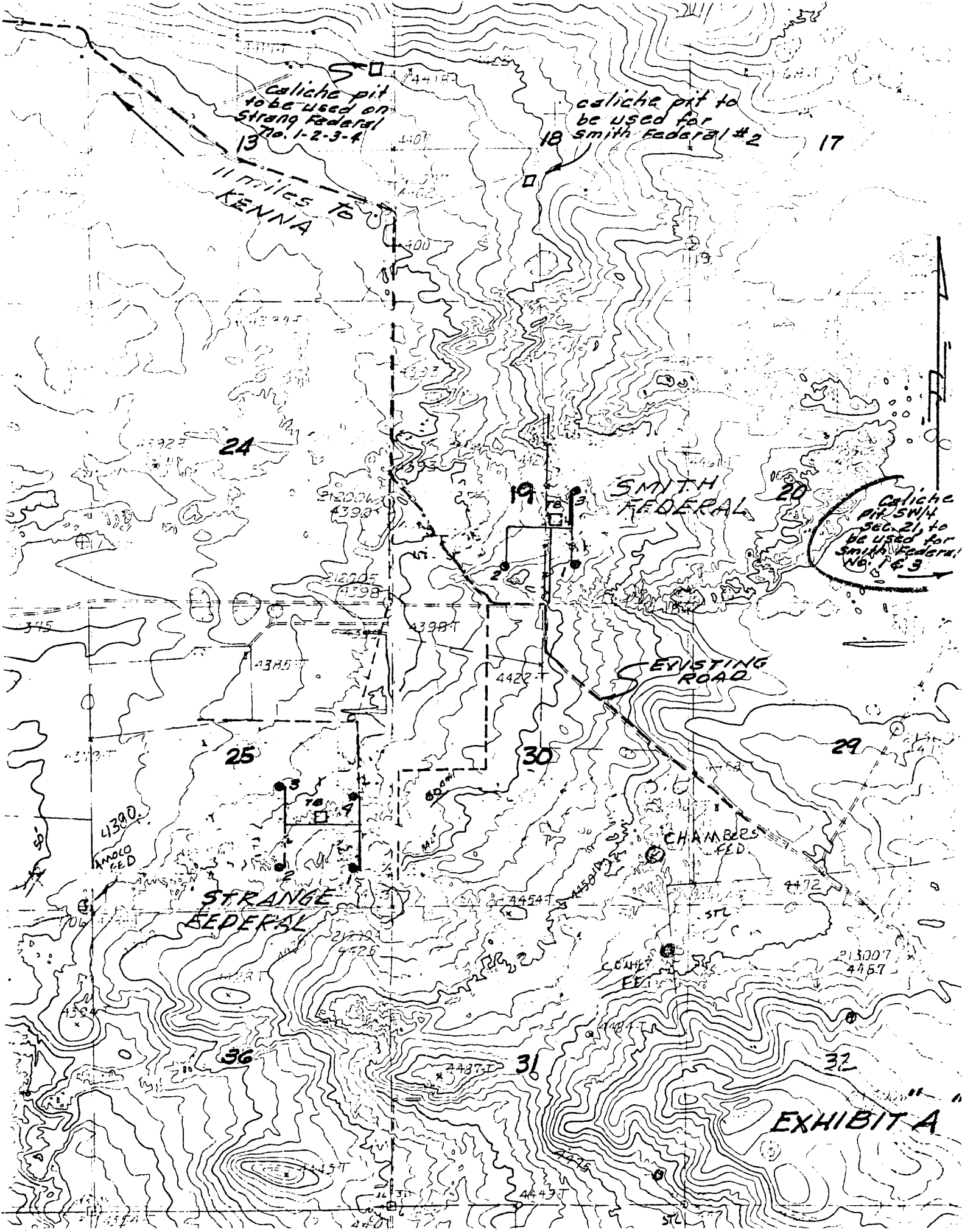
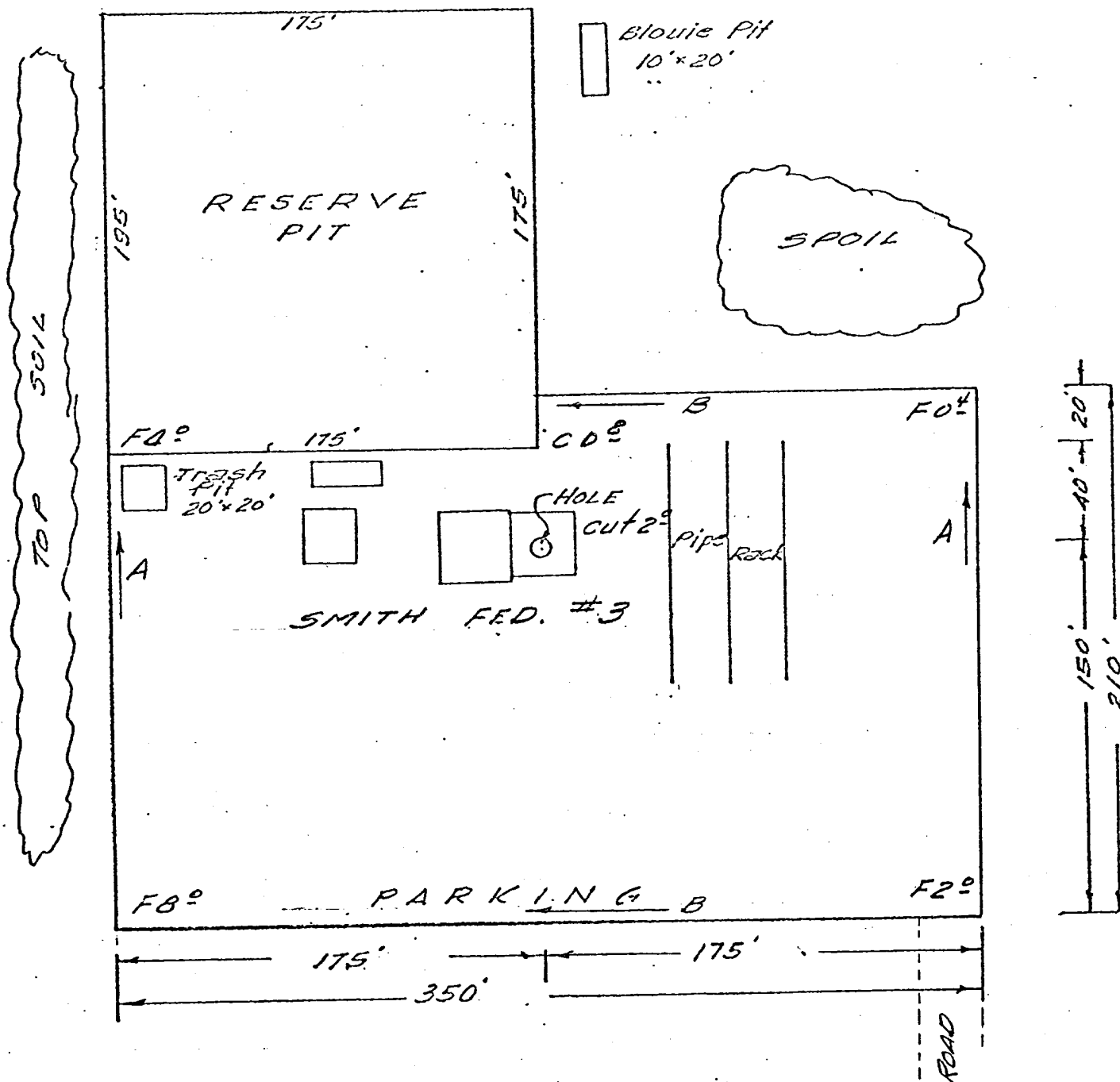
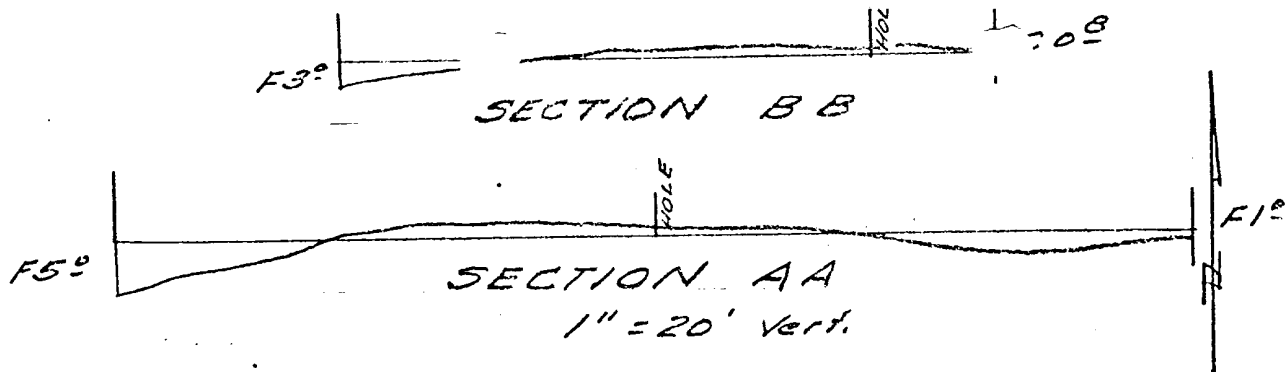


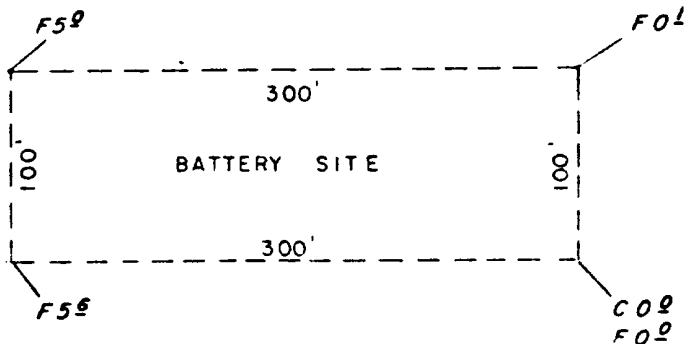
EXHIBIT A



RIG LAYOUT
1" = 60'

EXHIBIT "B"

Scale: 1" = 100'



Scale: 1" = 300'

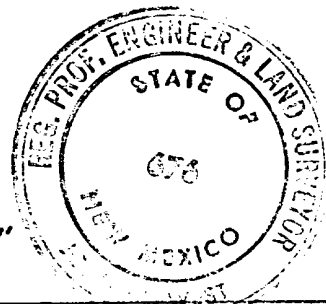
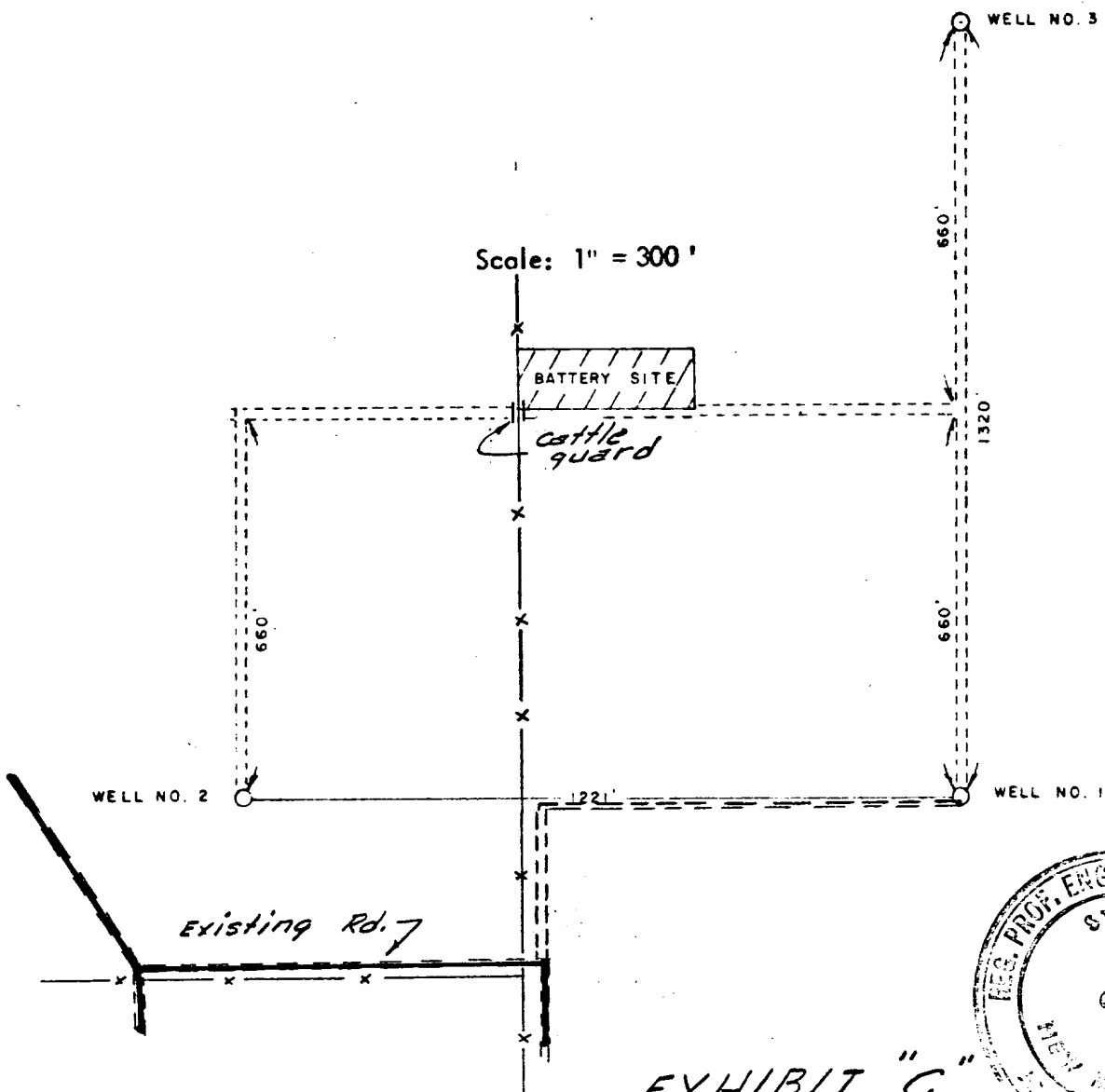


EXHIBIT "C"

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John W. West
JOHN W. WEST

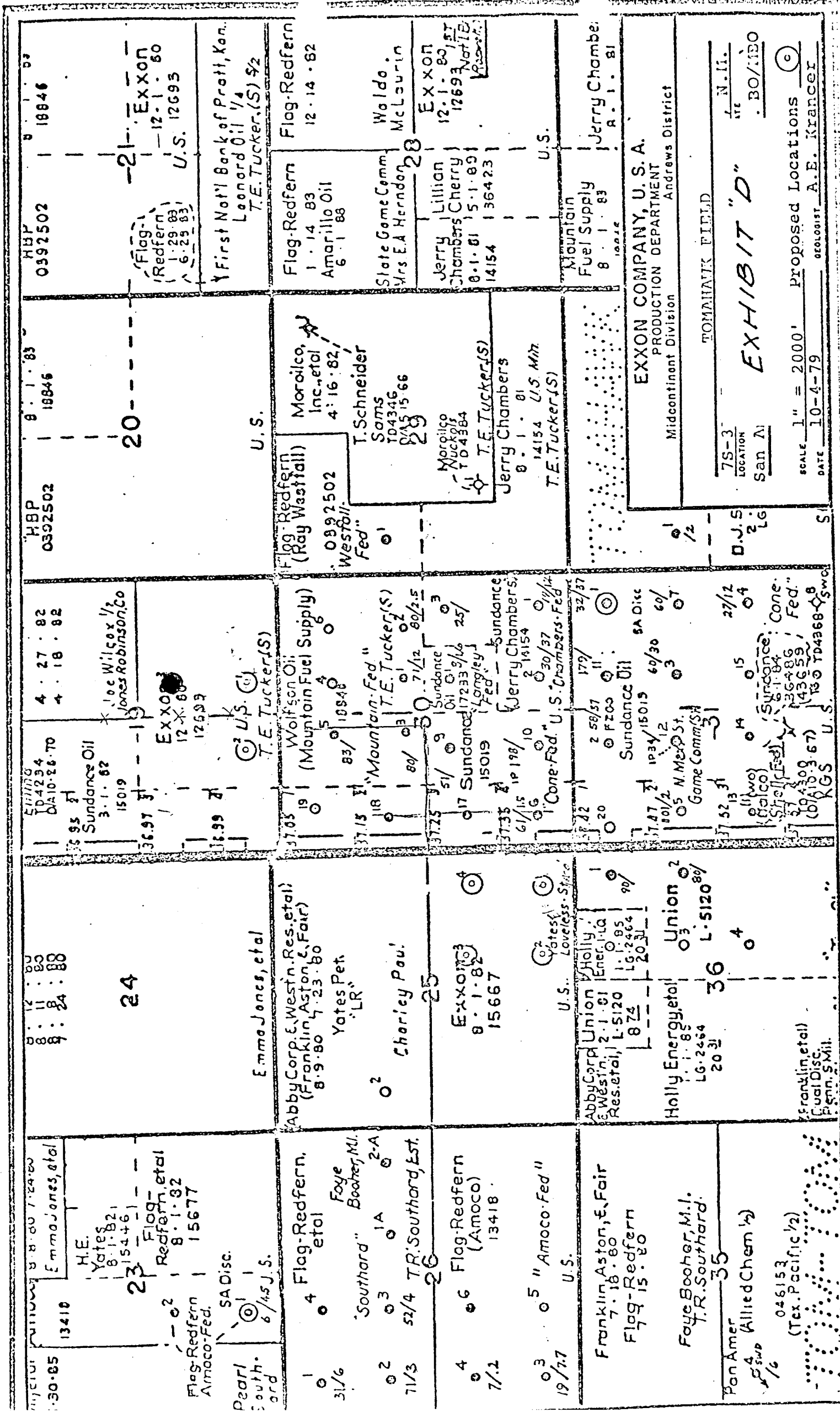
JOHN W. WEST	NM	PE & LS	NO 676
	TEXAS	RPS	NO 1138
PARICK A. ROMERO	NM	L.S.	NO 6665
	TEXAS	R.P.S	NO 2100
RONALD J EIDSON	NM	L.S	NO 3239
	TEXAS	R.P.S	NO 883

EXXON PRODUCTION COMPANY

Tank Battery Site located in Section 17, Township 7 South, Range 32 East, N.M.P.M., Roosevelt County, New Mexico.

JOHN W. WEST ENGINEERING COMPANY
CONSULTING ENGINEERS
HOBBS, NEW MEXICO

Scale: As Shown	Drawn by RKC
Date: 10/20/79	Sheet 1 of 1 Sheets



EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702

November 2, 1979

EXPLORATION DEPARTMENT
SOUTHWESTERN DIVISION

RIGHT OF WAY & CLAIMS

W.E. FLEETWOOD
W. RAY REID
ROY E. O'BRIEN
W.D. LEE

Re: File No. R49886
Smith-Federal No. 1 and No. 3
Section 19, T-7-S, R-32-E
Roosevelt County, New Mexico
Andrews Production District


Mr. James F. Sims
U.S.G.S.
P. O. Box 1157
Hobbs, New Mexico 88240

Dear Sir:

We have reviewed our proposed drilling operations and road construction plans concerning the captioned wells with Mr. Thomas E. Tucker. Mr. Tucker is the surface owner.

Mr. Tucker was advised that the pits will be fenced and when drilling operations are completed they will be backfilled and leveled. Mr. Tucker agreed to this procedure and made no requirements for surface restoration.

Yours very truly,


Roy E. O'Brien

REO:lt