

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instructions
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

Flag-Redfern Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 23, Midland, Texas 79702

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

At surface

1980' FWL & 660' FSL

At proposed prod. zone

Same

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

17 miles east of Elkins, New Mexico

15. DISTANCE FROM PROPOSED*

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

660'

16. NO. OF ACRES IN LEASE

160

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.

-

19. PROPOSED DEPTH

4200'

20. ROTARY OR CABLE TOOLS

Rotary

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

4371' GL

22. APPROX. DATE WORK WILL START*

September 15, 1977

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# K	400'	250 sx
7-7/8"	4-1/2"	10.5# H	4200'	250 sx
Multistage cementer at 2050'			cemented w/550	sx.

Drill 12-1/4" hole to approximately 400'. Run 8-5/8" casing and cement w/250 sx Class "C" w/2% CaCl. Drill 7-7/8" hole to approximately 4200'. Run open hole logs. Run 4-1/2" casing and cement with 250 sx Class "H" Pozmix w/2% gel, 0.75% CFR-2, 8 lbs salt per sack. Open stage cementer at 2050' and cement with 550 sx Halliburton lite with 0.75% CFR-2 and 8 lbs salt per sack. Close stage cementer. Run correlation logs & perforate San Andres formation. Treat with acid. Swab to test. Potential well.

Mud Program: 0- 400' Native mud
400-3800' Native mud and oil
3800-T.D. Starch, oil emulsion

Blowout Preventers: Shaffer 10" - Series 900 - Installed on surface

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

TITLE Petroleum Engineer

DATE 8-12-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES NOV 30 1977
*See Instructions On Reverse Side

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U.S. GEOLOGICAL SURVEY
ARRESTA, NEW MEXICO

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E. L. ...

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HOBBBS, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PL

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator Flag-Redfern Oil Company			Lease Amoco-Federal			Well No. 1		
Unit Letter N	Section 23	Township 7S	Range 31E	County Chaves				
Actual Footage Location of Well: 1980 feet from the West line and 660 feet from the South line								
Ground Level Elev. 4371	Producing Formation San Andres			Pool Wildcat			Dedicated Acreage: 40 Acres	

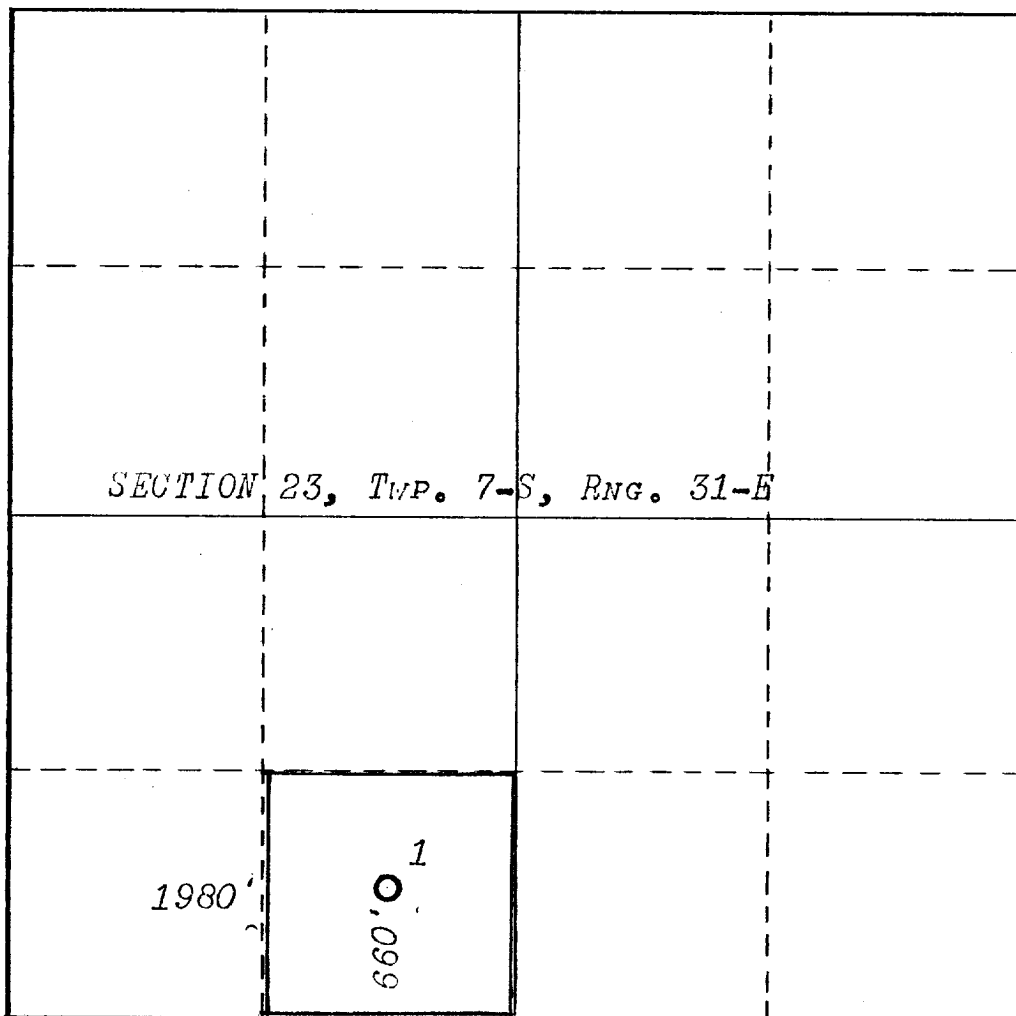
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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.

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CERTIFICATION

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

Name *John H. Insley*
Position
Petroleum Engineer
Company
Flag-Redfern Oil Company
Date
August 12, 1977

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 **Aug. 16, 1977**
Registered Professional Engineer and/or Land Surveyor *[Signature]*
Certificate No. **754**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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Surface Use and Operation Plan

Flag-Redfern Oil Company
Amoco-Federal No. 1
Section 23, T-7-S, R-31-E
Chaves County, New Mexico

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1. Existing Roads

- A. Attached is a portion of a U.S.G.S. topographic map showing existing roads in the vicinity of the proposed location.
- B. Attached is a plat showing existing roads in the area of the proposed location.
- C. There are no plans for improving the existing roads.

2. Access Roads

- A. Planned access roads are shown on the attached plat.
- B. The road will be constructed of caliche and will be 10' wide.
- C. A cattleguard will be installed where the road enters Section 23.

3. Location of Existing Wells

- A. Existing wells are shown on the attached plat.

4. Location of Tank Batteries, etc.

- A. No tank batteries or production facilities exist within one mile of the proposed location.
- B. In the event the proposed well is productive, the production facilities will be located in the southwest portion of the drillsite. The facility will consist of 2 - 200 bbl stock tanks and a heater treater.
- C. The reserve pits will be back filled and leveled and the surface returned to its original contours.

5. Location and Type of Water Supply

- A. There is no known surface water in the area.
- B. A windmill is located approximately 1500' south of the proposed location.

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Surface Use and Operation Plan
Page Two

- C. All water used in drilling operations will be trucked to the drillsite from commercial sources.

6. Source of Construction Materials

- A. Construction material will be caliche, which will be purchased by the dirt contractor.

7. Methods for Handling Waste Disposal

- A. Well cuttings will be disposed in the reserve pit. All waste and trash will be either burned or buried in a separate pit.
- B. After completion any produced water will be collected in tanks and trucked to an approved disposal system.
- C. During testing operations, all produced fluids will be collected in tanks and trucked from the well site.

8. Ancillary Facilities

- A. None anticipated.

9. Well Site Layout

- A. Attached is a plat of the well site and rig layout.

10. Plans for Restoration of the Surface

- A. As soon as practical upon completion of the well, the pits will be back filled and leveled and the surface returned to its original contours.

11. Other Information

- A. See attached topographic map for terrain of the general area.
- B. The soil is a thin, sandy alluvium underlain by a caliche hardpan.
- C. Vegetation is mesquite and sparse semi-desert grass and weeds.
- D. The surface is private owned.

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Surface Use and Operation Plan
Page Three

12. Operator's Representative

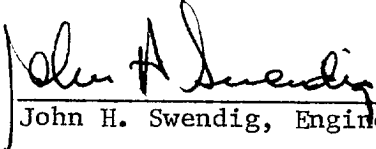
John H. Swendig
P. O. Box 23
Midland, Texas 79702

Office Phone: 915-683-5184
Home Phone: 915-697-1628

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

Date 8-12-77

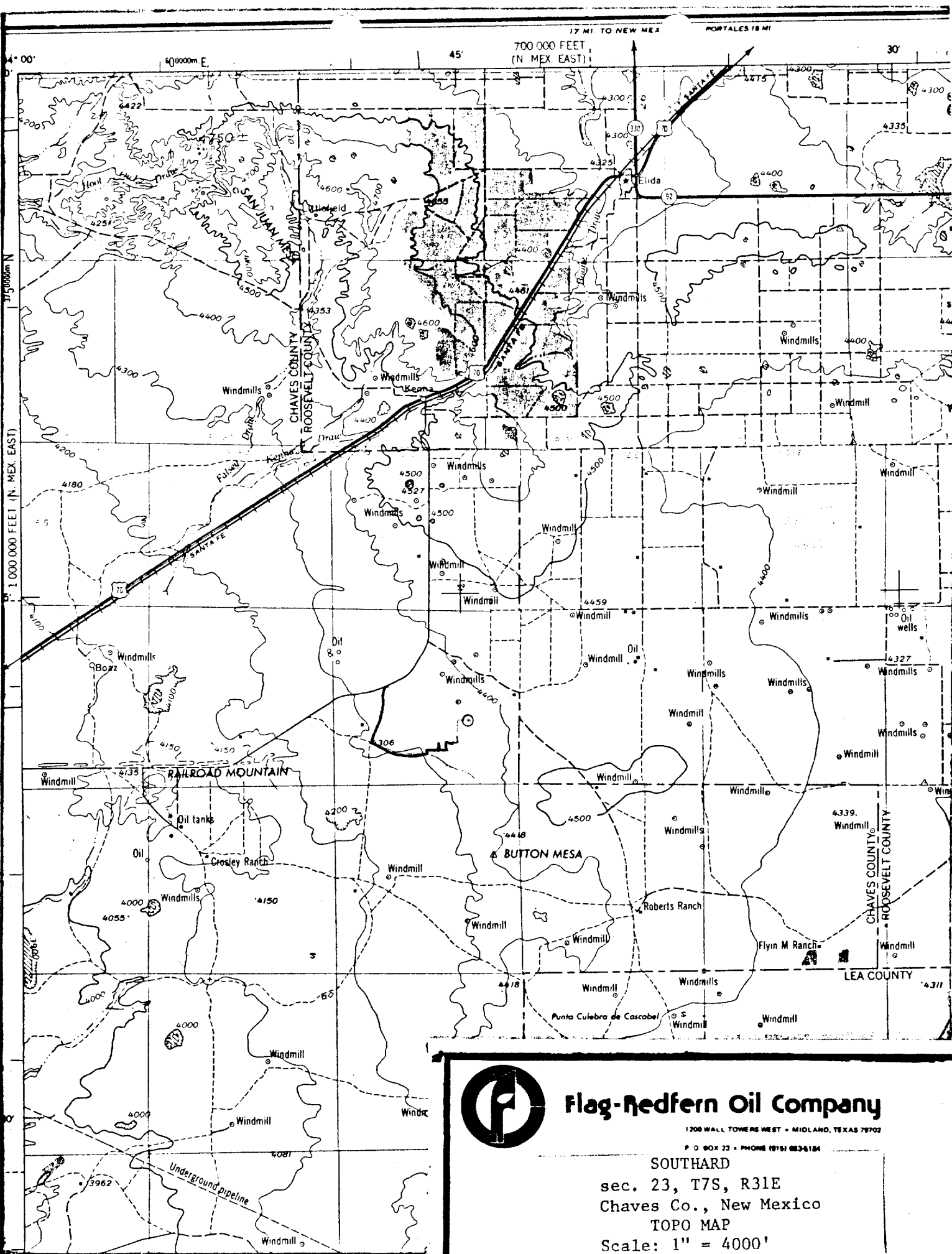


John H. Swendig, Engineer

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Flag-Nedfern Oil Company

1200 WALL TOWERS WEST • MIDLAND, TEXAS 79702

P. O. BOX 23 • PHONE (915) 683-6184

SOUTHARD

sec. 23, T7S, R31E
Chaves Co., New Mexico

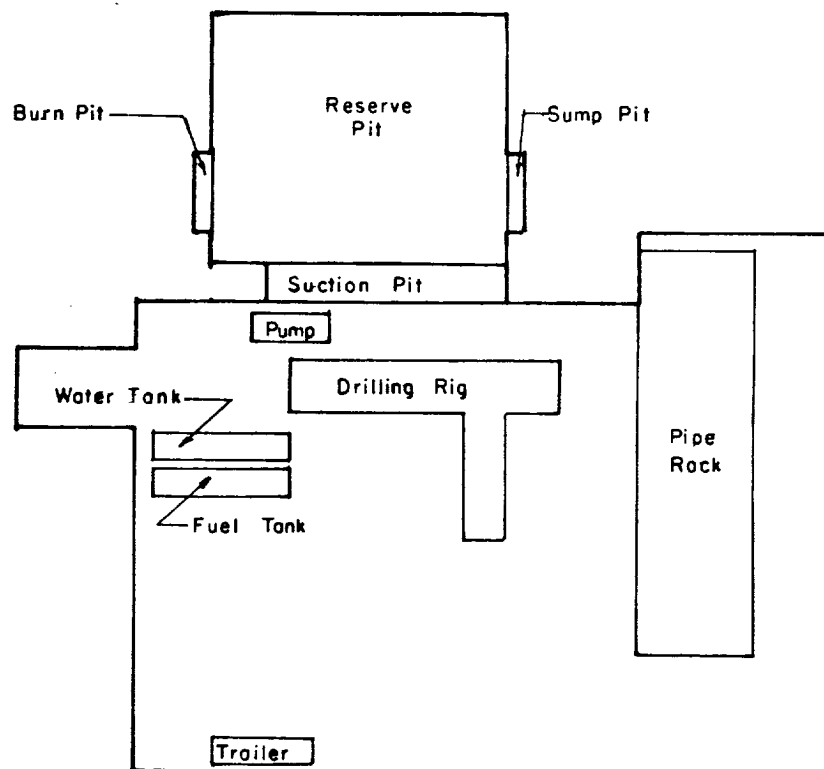
TOPO MAP

Scale: 1" = 4000'

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WELL SITE LAYOUT

Well No. 1 - Amoco Fed. Lse.
660' FSL & 1980' FWL, Sec. 23, T-7-S, R-31-E
EDDY County, New Mexico

Scale: 1" = 50'

R-15-77

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SOUTHARD AREA
Well No.1 Amoco Fed. Lse.

660' FSL & 1980' FWL
Sec. 23, T-7-S, R-31-E
Eddy County, New Mexico

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DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Santa Fe, New Mexico
SERIAL NO.: NM 13418

and hereby designates

NAME: Flag-Redfern Oil Company
ADDRESS: Box 23, Midland, Tx 79702

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

T-7-S, R-31-E
Section 23: E/2 W/2
Containing 160 acres

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

AMOCO PRODUCTION COMPANY


(Signature of lessee)

C. N. Menninger, Attorney-in-Fact

P. O. Box 3092 Houston, Texas 77001
(Address)

July 5, 1977
(Date)

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Flag-Redfern Oil Company

1200 WALL TOWERS WEST • MIDLAND, TEXAS 79701 • PHONE (915) 683-5184

August 12, 1977

Mailing address:
P. O. Box 23
Midland, Texas 79702

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

U. S. Department of Interior
Geological Survey
105 South 4th Street
Artesia, New Mexico 88210

Dear Sir:

Flag-Redfern Oil Company is making application to drill the Amoco-Federal No. 1 in Section 23, T-7-S, R-31-E, Chaves County, New Mexico. This is a federal lease with private surface ownership. An agreement with the surface owner has been reached for drilling the well. No special restoration provisions were included in the agreement.

Yours very truly,

John H. Swendig
Petroleum Engineer

JHS:ss

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**O. C. C.
ARTESIA, OFFICE**

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