



NMOCC COPY
United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Drawer U
Artesia, New Mexico 88210

JAN 19 1979

Flag-Redfern Oil Company
P. O. Box 23
Midland, Texas 79702

FLAG-REDFERN OIL COMPANY Hahn Federal No. 6 660 FSL 660 FEL Sec. 27, T7S, R31E Chaves County Lease No. NM-15677 Above Data Required on Well Sign
--

Gentlemen:

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 4,100 feet to test the San Andres formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate sandstone brown (Federal Standard Color #595A, color 20318 or 30318).

Sincerely yours,

(Orig. Sgd.) ALBERT R. STALL

Albert R. Stall
Acting District Engineer

CCC COPY

Form 9-51C
May 1969

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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

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
660' FSL & 660' FEL

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 drilg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE

1440

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. 1320'

19. PROPOSED DEPTH

4100'

20. ROTARY OR CABLE TOOLS

Rotary

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

4365' G L.

22. APPROX. DATE WORK WILL START*

January 15, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24# J-55	1630'	750 sk
7-7/8"	4-1/2"	9.50# K-55	4100'	250 sk

Drill 11" hole to 1630' or into the top of the Rustler Anhydrite formation. Run 8-5/8" casing and circulate cement with 750 sk. Wait on cement 8 hours and test casing to 600 PSIG. Drill 7-7/8" hole to approximately 4100'. Run open hole log. Run 4 1/2" casing to T.D. and cement with 250 sk. Wait on cement a minimum of 8 hrs. Test 4 1/2" casing to 1500 PSIG. Run correlation log and perforate the San Andres formation. Treat with acid. Swab to test. Potential test well.

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ARTESIA, 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

Steve Rosh

TITLE Petroleum Engineer

DATE December 29, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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.

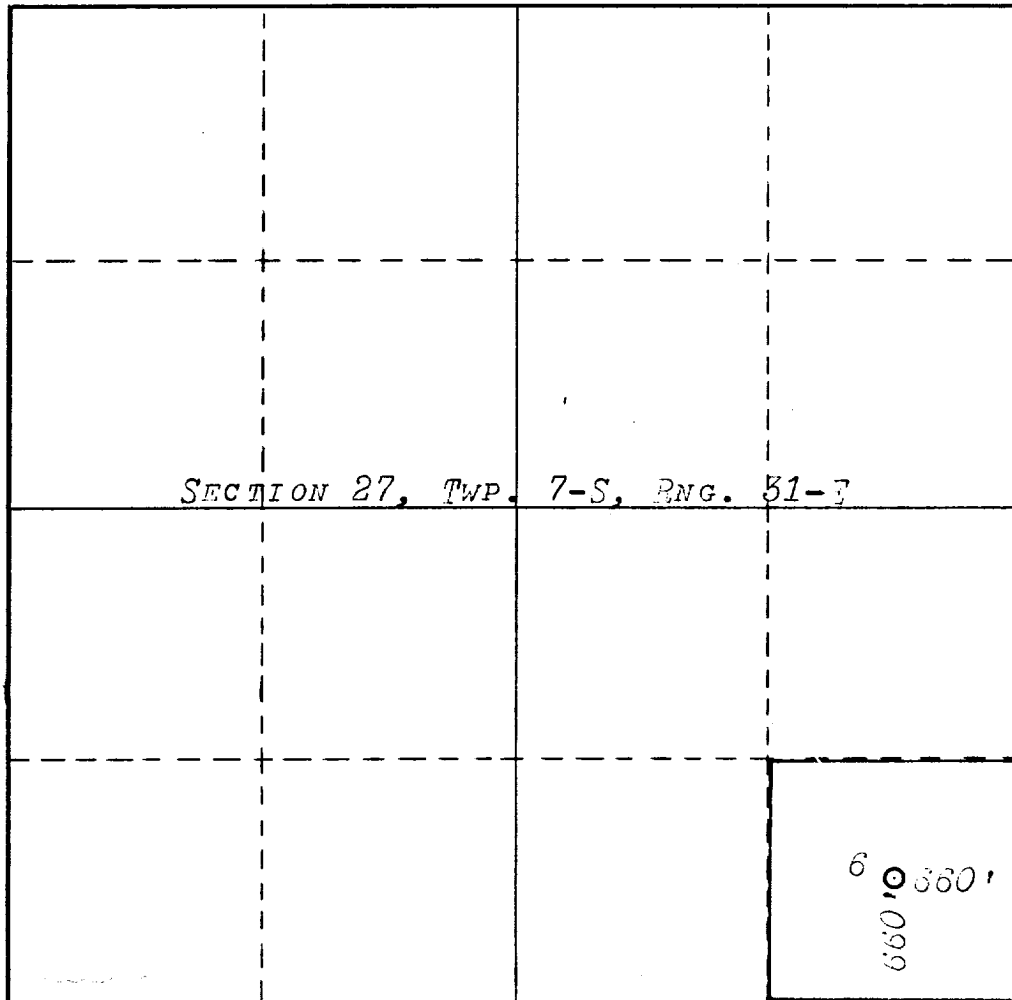
Operator FLAG REDFERN OIL CO.		Lease HAHN-FEDERAL		Well No. 6	
Unit Letter P	Section 27	Township 7-S	Range 31-E	County CHAVES	
Actual Footage Location of Well: 660 feet from the EAST line and 660 feet from the SOUTH line					
Ground Level Elev. 4385	Producing Formation San Andres		Pool Tom-Tom		Dedicated 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.



CERTIFICATION

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

Name

Steve W. Rossler

Position

Petroleum Engineer

Company

Flag-Redfern Oil Company

Date

December 29, 1978

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

Registered Professional Engineer and/or Land Surveyor

Certificate No.

754



Flag-Redfern Oil Company

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

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

File:

December 29, 1978

U. S. Department of Interior
Geological Survey
P. O. Drawer U
Artesia, New Mexico 88210

Dear Sir,

Flag-Redfern Oil Company is making application to drill the Hahn-Federal Well #6 in Section 27, 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. Restoration will include closing and levelling of the pits after they are no longer necessary. Upon abandonment the road and location will be left intact.

Yours very truly,

Steven W. Rossler

SWR/dlp

CORPORATION ACKNOWLEDGMENT

STATE OF NEW MEXICO

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 2nd day of

January, 19 79, by Steven W. Rossler,

Petroleum Engineer for Flag-Redfern Oil Company,

a Delaware corporation on behalf of said corporation.

Notary Public

My Commission Expires: 7-10-80

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CHL. BUREAU OF COMMERCE
FEDERAL BUREAU OF INVESTIGATION

APPLICATION TO DRILL
HAHN-FEDERAL WELL #6

In response to questions asked under Section II B of Bulletin NTL-6, the following answers are provided for your consideration:

1. Location: 660' FEL & 660' FSL of Section 27, T-7-S, R-31-E, Chaves County, New Mexico.
2. Elevation Above Sea Level: 4365' G. L.
3. Geologic Name of Surface Formation: Mississippian
4. Drilling Tools and Associated Equipment: Conventional Rotary drilling rig using mud for the circulation medium.
5. Proposed Drilling Depth: 4100'
6. Estimated Geological Marker Tops: Rustler Anhydrite - 1609', Top of Salt - 1703', Base of Salt - 2026', Yates - 2027', San Andres - 3169', PI Zone - 3717', San Andres Porosity - 3945'.
7. Mineral Bearing Formations: Water Bearing - none, Gas Bearing - none, Oil Bearing - San Andres Porosity @ 3945'.
8. Casing Program: (a) Surface casing - 8-5/8" - 24#/ft. J-55 new casing, (b) Production casing - 4-1/2" - 9.50#/ft. K-55 new casing.
9. Setting Depth of Casing and Cement for Same: (a) 8-5/8" casing set at 1630'. Cement will be circulated to the surface using 550 sx of Halliburton Light Weight w/1/4 lb/sx of Flocele and 8# salt per sx. followed by 200 sx. Class C w/2% CaCl. (b) 4-1/2" casing set at 4100' and will be cemented with 250 sxs. of 50-50 Pozmix "A" - Class "H" with 2% gel, 0.75% CFR-2, and 8# salt per sx.
10. Pressure Control Equipment: Blowout preventers will be installed on the surface casing. They will be 10" API Series 900 dual preventers adapted for the drilling contractor's 4-1/2" and 5-1/2" drill pipe. They will be capable of closing off on all open areas. The blowout preventers will be hydraulically actuated by an 80 gal Payne accumulator. The blowout preventers will be tested to 2000 psig after they are installed on the surface casing, prior to drilling out, and each time they are removed or re-arranged on the wellhead.

11. Proposed Circulating Medium: Mud will be used for the circulating medium for all depths in this well. The following mud properties will be maintained:
0-1630' Fresh water based native mud, mud weight 8.6 to 10.0 lb/gal, viscosity 32 to 34 seconds.
1630' - 3800' Fresh water based native mud with oil, mud weight 10.0 lb/gal. Viscosity 32 to 33 seconds.
3800' - 4100' (TD) Fresh water based mud with starch and oil. Mud weight 10.0 lb/gal, viscosity 38 to 42 seconds, fluid loss 10-15 milliliters.
12. Testing Logging, and Coring Programs: (a) Testing - All Testing will be commenced after the well is drilled and casing has been set and cemented. (b) Logging - At total depth the following log will be run:
0-4100' Sidewall neutron porosity with gamma ray and caliper.
(c) Coring - none anticipated.
13. Potential Hazards: No abnormal pressure or temperature zones are anticipated. Hydrogen sulfide gas is not expected to be a problem; however, the drilling rig will be so situated as to allow all gas vapors to be expelled away from all personnel gathering sites and engine exhausts.
14. Anticipated Starting Date and Duration of Operations: January 15, 1979 Road and location to be constructed, February 1, 1979 Drilling rig to spud well, February 15, 1979 Pulling Unit to complete well. March 1, 1979 Well to be potentialled.
15. Other Facets of Operation: After running 4-1/2" casing, cased hole gamma ray collar correlation logs will be run from 4050' to 2550'. The San Andres Porosity zone will be perforated and acidized. The well will then be swabbed tested and a pumping unit will be installed to potential and produce the well.

Surface Use and Operation Plan

Flag-Redfern Oil Company
Hahn Federal Well #6
Section 27, T-7-S, R-31-E
Chaves County, New Mexico

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U.S. DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 12' wide.

3. Location of Existing Wells

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

4. Location of Tank Batteries, etc.

- A. A tank battery and production facility consisting of three 210 bbl. stock tanks and a heater treater is located on this same lease 2640' West of the proposed well.
- B. In the event the proposed well is productive, a 2" flowline will be laid, alongside the access road, to the above mentioned production facility.
- 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 5000' northeast of the proposed location.
- 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. Auxiliary 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 which consists of an undulating plain covered by sandy soils of alluvian and aeolian origin.
- B. Characteristic soils belong to the typic haplargids paleargids associations.
- C. Vegetation consists of yucca glauca, rhus trilobata, gutierrezia sarothrae, eurotia, lanata, and lycurus phleoides.
- D. Fauna consists of crotalus and sistrurus, canis latrans, lepus alleni, mephitis mephitis and antelope.
- E. The surface of this land is being utilized to a limited extent as grazing land for cattle.

- F. The surface is private owned.
- G. No cultural resources or archeological sites are present.
- H. There are no steep hillsides, no deep gullies, no streams and no occupied dwellings on this lease.

12. Operator's Representative

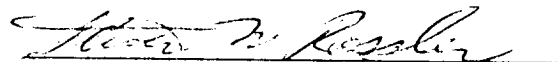
Steven W. Rossler
P. O. Box 23
Midland, Texas 79702

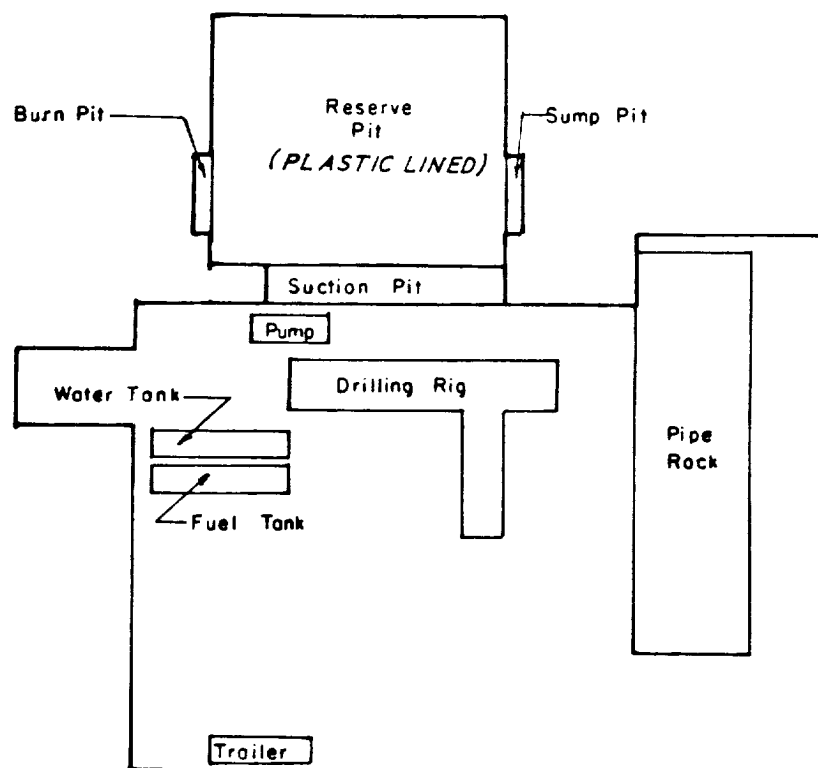
Office Phone: 915-683-5184
915-697-3808

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 1-2-78


Steven W. Rossler, Engineer



Flag-Nedfern Oil Company

1200 WALL TOWERS WEST • MIDLAND, TEXAS 79702

P. O. BOX 23 • PHONE (915) 6835184

WELL SITE LAYOUT

Well No. 6 - HAHN - Fed. Lse.
660' FEL & 660' FSL, Sec. 27, T-7-S, R-31-E
Chaves County, New Mexico

Scale: 1" = 50'



1700 WALL TOWERS WEST - MIDLAND, TEXAS 79702

P. O. BOX 23 • PHONE 1915, 683-5184

SOUTHARD AREA
Well No.6, HAHN Fed. Lse.

660' FSL & 660' FEL
Sec. 27, T-7-S, R-31-E
Graves County, New Mexico

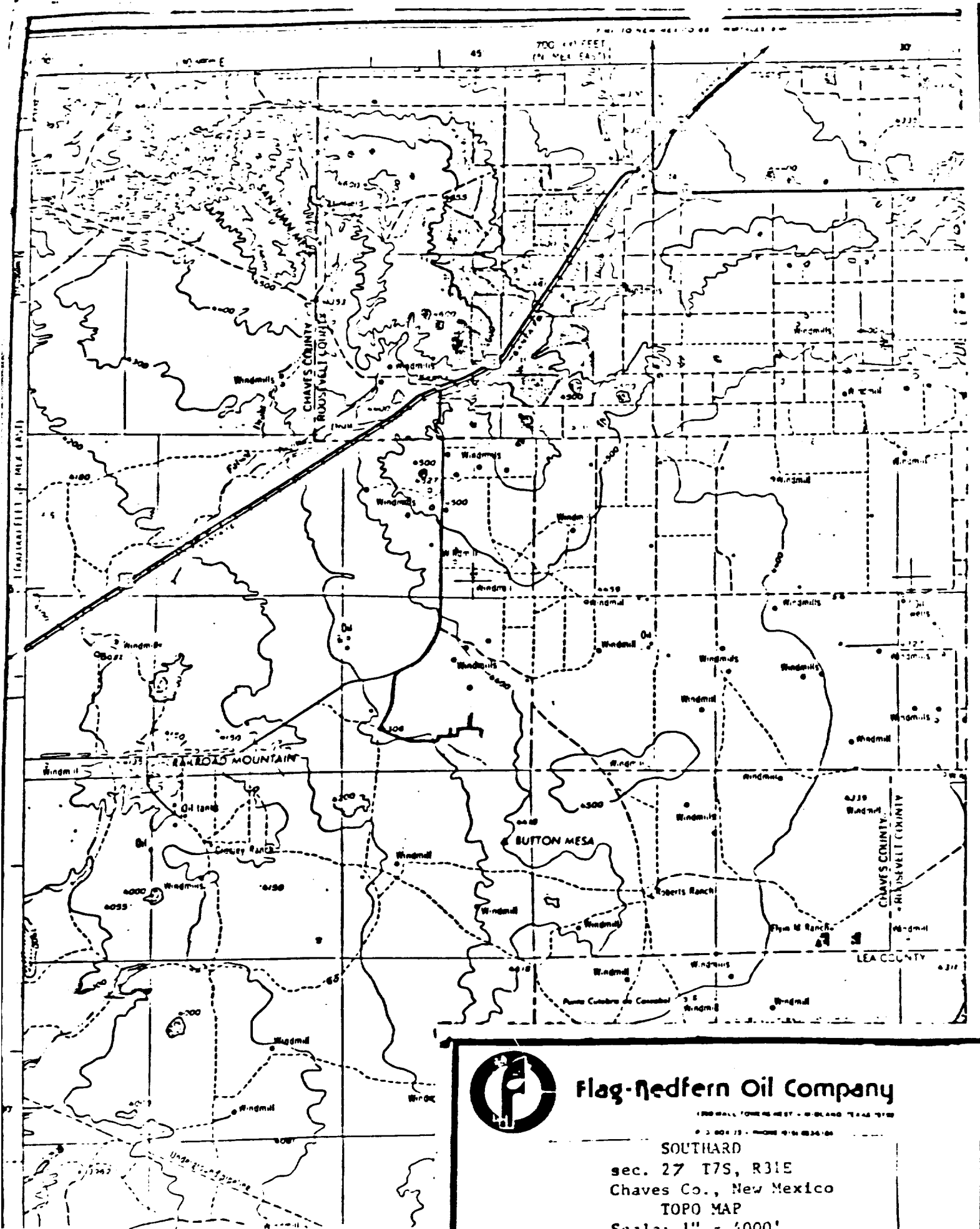
Scale, 1" = 2000'

12-29-78

RELEASED

442 31979

U.S. DEPARTMENT OF JUSTICE
COMM. ON ASSASSINATIONS



Flag-Nedfern Oil Company

1200 WALL, TOWER 46 WEST - NEW ORLEANS, LA 70110

P. O. BOX 173 - PHONE 974-0234-06

SOUTHARD

sec. 27 T7S, R31E

Chaves Co., New Mexico

TOPO MAP

Scale: 1" = 4000'

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SEP 23 1979

WILSON COLLEGE COMM
ROOSE, R. H.

DIRECTIONS TO :

Hahn-Federal Well #6
Tom Tom San Andres Field
Chaves County, New Mexico

From Downtown KENNA, New Mexico

1. Go south on caliche road (only south road out of Kenna) for 10 miles to Amoco and Flag-Redfern Oil Company lease signs.
2. Turn left at sign and go 1 mile east to "Y" in road, take the left side of the fork and continue for $2\frac{1}{2}$ miles.
3. Cross 3 cattleguards, cross the 3rd cattleguard and turn left. (You are now on Flag-Redfern Oil Company's Hahn Federal lease Section 27).
4. Go $1\frac{1}{2}$ miles on main travelled road to the Hahn-Federal Well #6.

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OIL CONSERVATION COMM.
ROBBS, N. M.

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