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Form approved. Budget Bureau No. 42-R1425.

# UN .D STATES DEPARTMENT OF THE INTERIOR

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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  Same  14. Distance in Miles and direction from nearest town or post office.*  15. County or Parish   13. States   16. No. of acres in Lease   17. No. of acres assigned   17. No. of acres assigned   18. Distance from Proposed Location.*  1980' FWL & 660'   16. No. of acres in Lease   17. No. of acres assigned   1980' To This well.  1980' FWL & 660'   160   40   19. PROPOSED Location to Nearest vert., Delitable, if any)   660'   160   40   19. PROPOSED STATE WELL, Delitable, of Apriles for, of this Lease, fr.   19. PROPOSED CASING AND CEMENTING PROGRAM  19. PROPOSED CASING AND CEMENTING PROGRAM  10. PROPOSED CASING AND CEMENTING PROGRAM  11. No. of acres assigned   12. COUNTY OR Parish   13. STATE OF ACRES IN LEASE   17. No. of acres assigned   18. No. of acres assigned   19. PROPOSED DEFTH   20. ROTARY OR CABLE TOOLS   20. ROTARY OR CABLE TOOLS   21. ELEVATIONS (Show whether DF, RT, GR, etc.)   22. APPROX. DATE WORK WILL   22. APPROX. DATE WORK WILL   23. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE   24. APPROX. DATE WORK WILL   25. APPROX. DATE WORK WILL   26. ROTARY OR CABLE TOOLS   27. APPROX. DATE WORK WILL   28. WELL   29. WELL   29. WELL   20. ROTARY OR CABLE TOOLS   20. ROTARY OR CABLE TOOLS   22. APPROX. DATE WORK WILL   22. APPROX. DATE WORK WILL   23. APPROX. DATE WORK WILL   24. APPROX. DATE WORK WILL   25. No. OF ACRES ASSIGNED   26. CASING AND CEMENTING PROGRAM   27. APPROX. DATE WORK WILL   29. WELL   29. WELL
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OR APPLIED FOR, ON THIS LEASE, FT 4200' Rotary  21. ELEVATIONS (Show whether DF, RT, GR, etc.)  4371' GL  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  12-1/4"  8-5/8"  7-7/8"  4-1/2"  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 "H" Pozmix w/2% gel, 0.75% CFR-2, 8 lbs salt per stage cementer at 2050' and cement with 550 sx Halliburton lite with 560 formation. Treat with acid. Swab to test. Potential well.
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400-3800' Native mud and oil 3800-T.D. Starch, oil emulsion  Slowout Preventers: Shaffer 10" - Series 900 - Installed on surface Sicolar Medical States and States an
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N ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new pro one. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give be reventer program, if any.
signed Sur Harring Petroleum Engineer BATE 8-12-77
(This space for Federal or State office use)
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PERMIT NO APPROVAL DATE
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CIL CONTROLS IN COMM.

## NEW MEXICO OIL CONSERVATION COMMISSION WELL L \TION 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 Well No. Flag-Redfern Oil Company Amoco-Federa1 1 Unit Letter Section Township County 23 7S 31E Chaves Actual Footage Location of Well: 1980 West 660 feet from the line and South feet from the line Ground Level Elev: Producing Formation Dedicated Acreage: 4371 San Andres Wildcat Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (bottage) working interest and royalty).
 If more than one lease of different ownership is dedicated to the well, have the interest of all owners over consolidated by communitization, unitization, force-pooling. etc?

AUG I REPORT SURVEY

AUG I REPORT SURVEY

LIST SU dated by communitization, unitization, force-pooling. etc? 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. Petroleum Engineer Flag-Redfern Oil Company SECTION 23, TWP. 7-S, RNG. 31-E 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  $Avg \approx 66, 197$ 1980 Registered Professional Engineer 1320 1650 2000 1000

OIL CONSTRUCTION COMM.

#### 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



#### 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 sparce semi-desert grass and weeds.
- D. The surface is private owned.

CIL COLORESTAN COMM.

#### 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

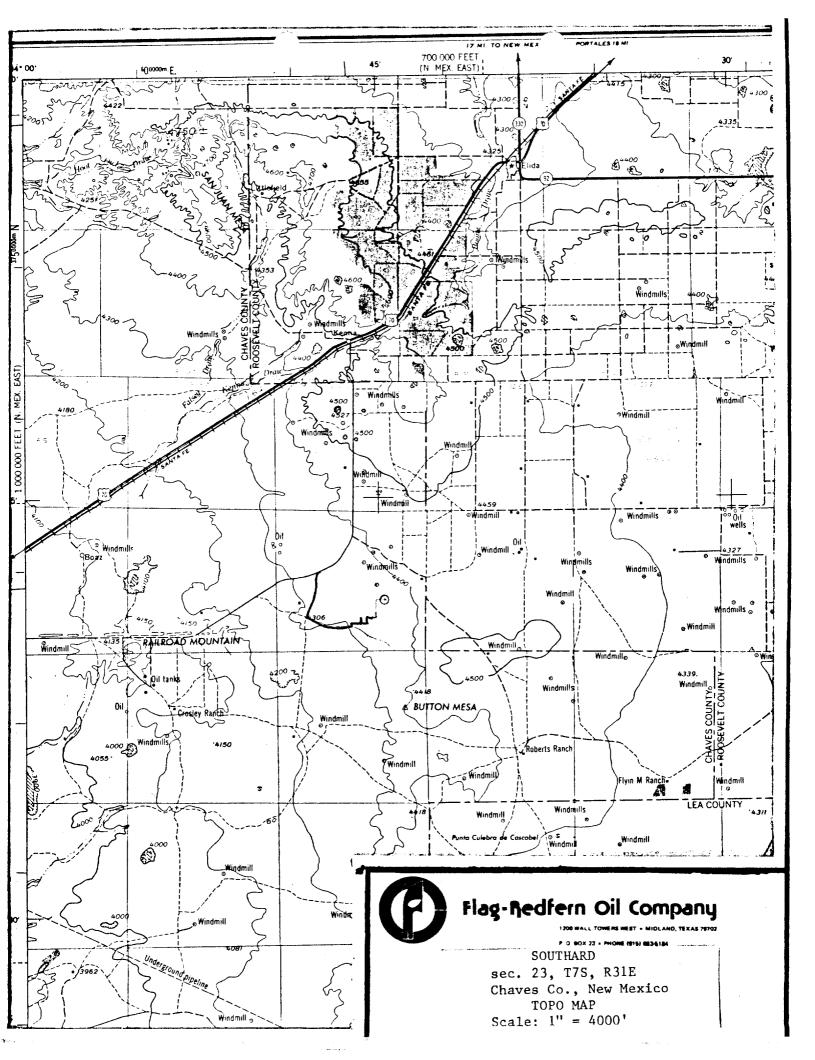
#### 13. Certification

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.

Date8-3	12-77	Olen A Suendin				
		John	н.	Swendig,	Engine	er

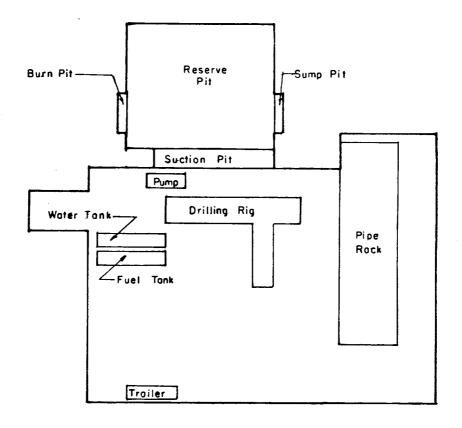
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CIL CONSERVATION COMM.

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## Flag-Redfern Oil Company

1200 WALL TOWERS WEST . MIDLAND, TEXAS 79702

P. D. BOX 23 + PHONE (915) 683-5184

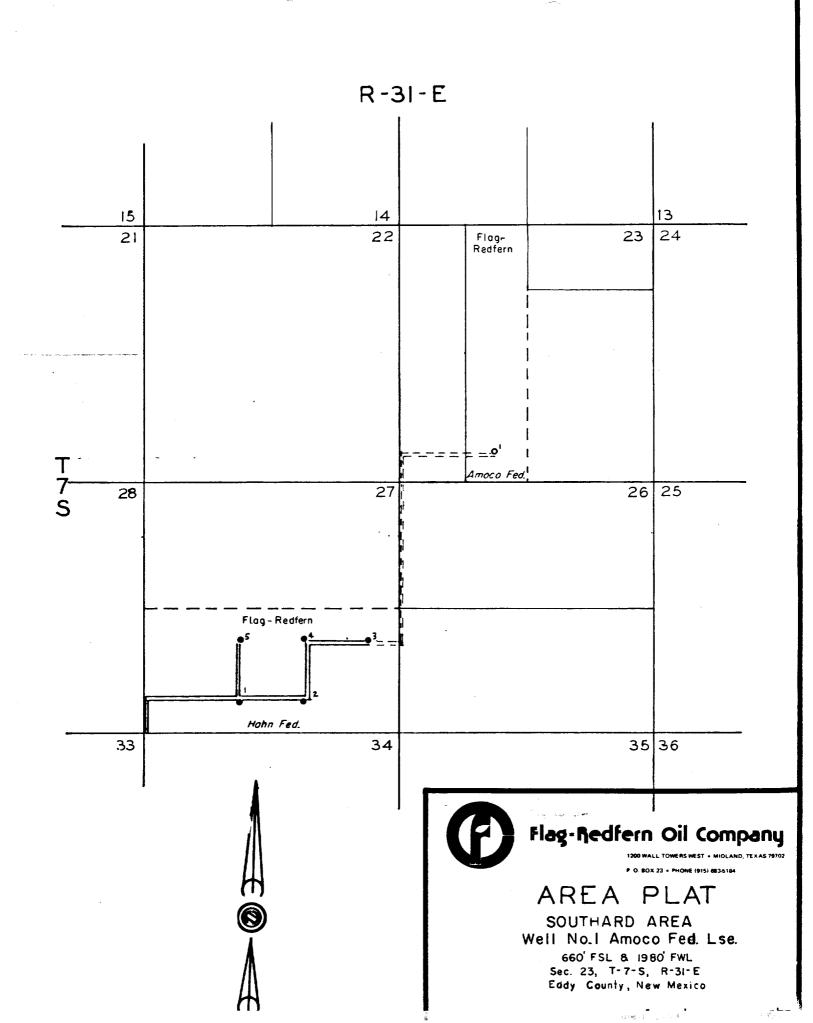
## WELL SITE LAYOUT

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'

OIL CONSERVATION COMM.

*.*\* .



OIL CONSERVATION COMM.

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

#### DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE:

Santo F-

SERIAL NO .:

NM 13418

and hereby designates

NAME: ADDRESS: Flag-Redfern Oil Company 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

C. N. Menninger, Attorney-in-Fact

P. O. Box 3092

Houston, Texas 77001

(Address)

July 5, 1977

S. S. SOVERNMENT PRINTING OFFICE 15-48508-2

OIL CONSERVATION COMM.



# 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

File:

RECEIVED AUG 18 1977 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

RECEIVED

AUG 31 1977

D. C. C.

