Form 9-331 C (May 1963)

# N.M.O.C.D. COPY ale substitut in the Cate.

(Other Instruct. ... on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-005-2080/ 5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY						USA NM 15677	
ΔΡΡΙΙΟΔΤΙΟΝ				N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
A. TYPE OF WORK						7. UNIT AGREEMENT NAME	
	.L 📉	DEEPEN [		PLUG BAC	K 📋		
b. TYPE OF WELL	. [		SI	NGLE X MULTIPL	.e []	S. FARM OR LEASE NAME	
OIL GAS WE LL, WE NAME OF OPERATOR		er	ZO	NE Z ZONE		Hahn Federal	
•	www.Oil.Com	n n a n 17				9. WELL NO.	
Flag-Redfe	in OII Con	any				8	
	000 Mid1	and TV 7970	2 (1)	<b>∮</b> ∜		10. FIELD AND FOOL, OR WILDCAT	
P.O. Box 2280, Midland, TX 79702 (1)  LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At surface 1650 FSL and 990 FWL						Tom -Tom San Andres	
						11. SEC., T., R., M., OR BLK.	
1000 LOF 9	ilu 990 i	M Ti		MAV 0 ~ 400		AND SURVEY OR AREA	
At proposed prod. zone SAME				MAY 27 198	7	Sec 27, T-7-S, R-31-	
4. DISTANCE IN MILES A	ND DIRECTION FROM	NEAREST TOWN OR POS	T OFFICE	. 0.0.0		12. COUNTY OR PARISH   13. STATE	
		kins, New Me				Chaves New Mexi	
D. DISTANCE FROM PROPOS				OF ACRES IN LEASE	17. NO. (	OF ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OR LEASE LI	NE, FT.		1	440	то т	HIS WELL	
(Also to nearest drlg. 18. DISTANCE FROM PROPE	SED LOCATION*		I .	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DR OR APPLIED FOR, ON THIS		•	4	4120		Rotary	
21. ELEVATIONS (Show when 4364 GL	ther DF, RT, GR, e	tc.)	·		·	July 10, 1981	
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASIN	G WEIGHT PER F	T00T	SETTING DEPTH		QUANTITY OF CEMENT	
11"	8 5/8"	24# K-	5 5	1540		750 sx Circulate	
7 7/8"	415"	10.5# K-		4120		250 sx	
Run 45" cso t	o 4120'. csg to 15	Cmt w/ 250 00 nsig. Ru	sx 5 n co	0/50 C1 "H"/Frrelation logab to tes	oz, { and often	Run open hole log.  3# salt, .75% CFR-2,  perforate the San  tial verification  9 1931  SAL SURVEY	
zone. If proposal is to preventer program, if any 24.  SIGNED  (This space for Fedg permit N	drill or deepen dir	rectionally, give pertinent to the perti	ITLE	plug back, give data on pron subsurface locations at Englineer	nd measure		
approved by conditions of approv	'RDT 2   1339)	T WARL	ITLE			DATE	

\*See Instructions On Reverse Side

JAMES A. GILLHAM

# NEW NUXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer, boundaries of the Section Well No. CHAVES Actual Factorie Location of Welt: 1650 feet from the Fir furting Formation Ground Level Flev. 4364 San Andres Ton-Tom (San Andres) 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? If answer is "yes," type of consolidation \_\_\_ No 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 Production Engineer 122-Redfern Oil Coapany Company May 11, 1981 8 7 17 (2) 87, Tra, 7-8, Pro. 131-1 I heleby centif then the well location shown on this plat wos placed from field notes of octoral surveys made the me or under mx supervision and the by some is fine and correct to the best of my 990!  $\odot$ knowledge and belief Bank IIII historianana IIIII historia acrasad IIIIIIIII

# APPLICATION TO DRILL Hahn-Federal Well #8

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

- 1. Location: 1650' FSL & 990' FWL of Section 27, T-7-S Chaves County, New Mexico.
- 2. Elevation Above Sea Level: 4364 G.L.
- 3. Geologic Name of Surface Formation: Quaternary
- 4. Drilling Tools and Associated Equipment: Conventional Rotary drilling rig using mud for the circulation medium.

D. S. GEOLOGICAL

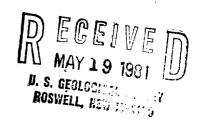
- 5. Proposed Drilling Depth: 4120'
- 6. Estimated Geological Marker Tops: Rustler Anhydrite 1500, Top of Salt 1660', Base of Salt 1985', San Andres 3130', PI Marker 3675', San Andres Porosity 3915'.
- 7. Mineral Bearing Formations: Water Bearing none, Gas Bearing none, Oil Bearing San Andres Porosity @ 3915'.
- 8. Casing Program: (A) Surface casing -85/8" -24#/ft K-55 new casing, (B) Production Casing  $-4\frac{1}{2}$ " 10.5#/ft K-55 new casing.
- 9. Setting Depth of Casing and Cement for Same: (A) 8 5/8" casing set at 1540'. Cement will be circulated to the surface using 550 sx of Halliburton Light Weight w/ $\frac{1}{4}$ /sx of Flocele and 8# salt per sx followed by 200 sx Class "C" w/ 2% CaCl. (B)  $4\frac{1}{2}$ " casing set at 4120' and will be cemented with 250 sx 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 4½" and 5½" 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 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 rearranged on the wellhead.

Application to Drill Hahn-Federal #8 Page 2

- 11. Proposed Circulating Medium: Mud will be sued for the circulating medium for all depths in this well. The following mud properties will be maintained: 0-1600'- Fresh water based native mud, mud weight 8.6 to 10.0 lb/gal, viscosity 32 to 34 seconds. 1600'-3800'- Fresh water based native mud, mud weight 10.0 lb/gal. Viscosity 32 to 33 seconds. 3800'-4120'(TD) Fresh water based mud. Mud weight 10.0 lb/gal, Viscosity 38 to 42 seconds.
- 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 run: 0-4120' 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: June 15. 1981, Road and location to be constructed. July 10 Drilling rig to spud well. July 20, Pulling unit to complete well. July 27, 1981, well to be potentialed.
- 15. Other Facets of Operation: After running 4½" casing, cased hole gamma ray collar correlation logs will be run from 4120' 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 #8 Section 27, 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 12' wide.

# 3. Location of Existing Well

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 1400'southeast 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  $5000^{\circ}$  northeast of the proposed location.
- C. All water used in the drilling operations will be trucked to the drillsite from commercial sources.

Surface Use and Operation Plan
Page 2

## 6. Source of Construction Materials

- A. Construction material will be caliche.
- B. Caliche will be obtained from a private pit located in Sec 35.
- C. The road and location will require 876 cubic yards of caliche.

# 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 fluid 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 glavea, rhus trilobata, gutierra sarothrae, eurotia, lanata, and lycurus phleoides.
- D. Fauna consists of crotalus and sistrurus, canis latrans, lepus alleni, mephitis mephitis and antalopus.

Surface Use and Operation Plan Page 3

- E. The surface of this land is being utilized to limited extent as grazing land for cattle.
- F. The surface is private owned.
- G. No cultural resources or archeological sites are present.
- H. There is no steep hillsides, no deep gullies, no streams and no occupied dwellings on this lease.

# 12. Operators Representative

John E. Scherer P.O. Box 2280 Midland, TX 79702

Office Phone: 915-683-5184 915-682-1769

# 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 Co. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date 5-14-81

John E. Scherer, Engineer



# Flag-Redfern Oil Company

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

Mailing address: P. O. Box 2280 Midland, Texas 79702

May 11, 1981

File:

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 #8 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.

John E. Scherer Froduction Engineer

JES/ke

CORPORATION ACKNOWLEDGMENT

STATE OF TEXAS		
COUNTY OF WARD		
The foregoing instrument was	acknowledged before me this 14th	
day of, 1981, by	John E. Scherer , for	
Flag-Redfern Oil Company, a Delaware	corporation on behalf of sa	id
corporation.		
·	Judy ann Benteu Notary Public	

My commission Expires: February 4, 1981

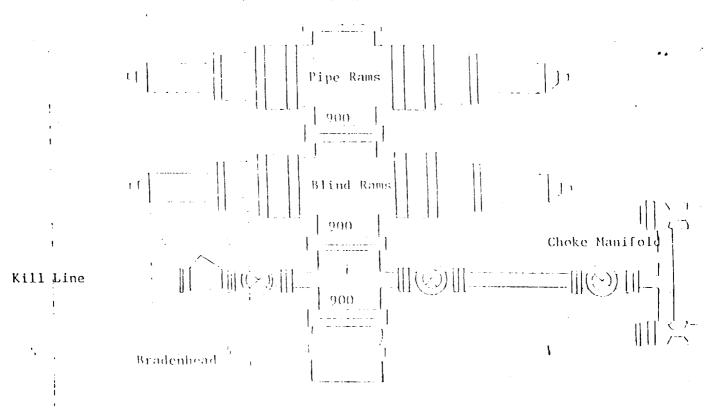
### Directions to:

Hahn-Federal #8
Tom-Tom San Andres Field
Chaves County, New Mexico

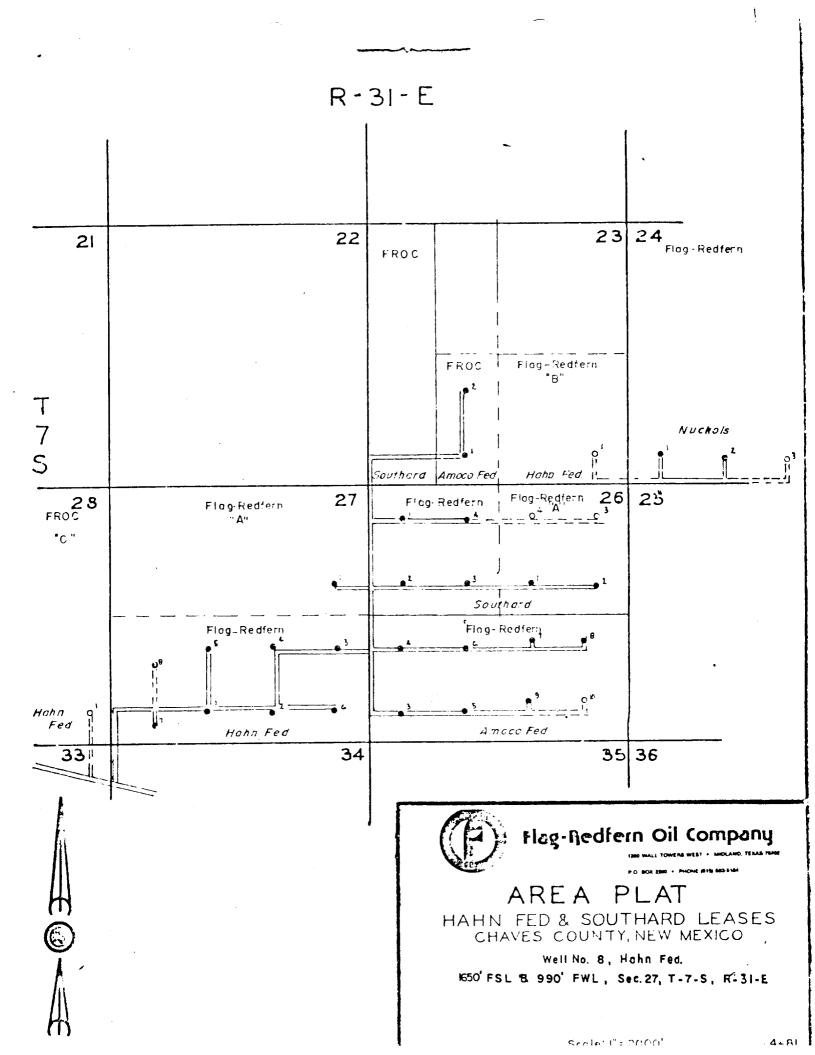
## From KENNA, New Mexico

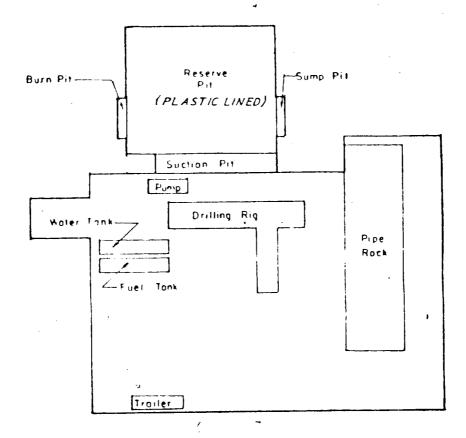
- Go south on caliche road (only south road out of Kenna) for 10 miles to Amoco and Flag-Redfern Oil Company lease signs.
- 2. Turn left at sign and go I mile east to "Y" in road, take the left side of the fork and continue for 2½ miles.
- Cross 3 cattleguards, cross the 3rd cattleguard and turn left. (You are now on Flag-Redfern Oil Company's Hahn Federal lease Section 27).
- 4. Go ¼ miles on main travelled road and turn left. Go ¼ mile north to the Hahn Federal #8 well.

Shaffer 10" Series 900 Hydraulically Operated BOP



- 1. All preventers to be hydrarlically operated with secondary manual controls installed prior to drilling out from under easing.
- 2. The preventers will be Type "E" 10" 900 Series Double Shaffer.
- 3. The preventers will be capable of closing off all open areas.
- 4. The 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 rearranged on the well head.
- 5. Operating controls will be located a safe distance from the rig floor.









# Flag-Nedfern Oil Company

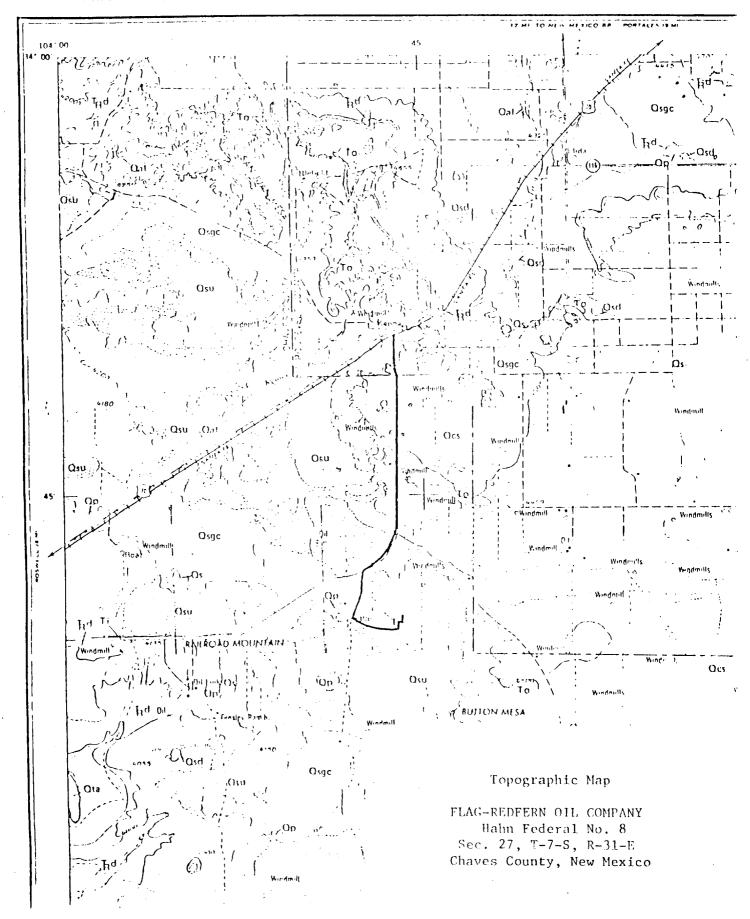
WELL SITE LAYOUT

Well No.8- HAHN RED. LSE, 'FOL & '990' FWL, Sec. 27, T-7-5, R-31 E
1650' ROOSEVELT County, New Mexico

Scale 1' +50'

A 37.0

# THE UNIVERSITY OF TEXAS AT AUSTIN BUREAU OF ECONOMIC GEOLOGY W. L. FISHER, DIRECTOR



RECEIVED

WUN 4 150.

OIL CONSCIEVATION DIV.

RECEIVED

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