

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

COPY TO U.S.G.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.  
NM-0103893

6. IS INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Allied "93"

9. WELL NO.  
4

10. FIELD AND POOL, OR WILDCAT  
Sawyer, San Andres

11. SEC., T., R., M., OR BCK. AND SURVEY OR AREA  
Sec. 24, T-9-S, R-37-E

12. COUNTY OR PARISH  
Lea

13. STATE  
New Mexico

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 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
1980' FNL & 660' FWL  
At proposed prod. zone  
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
15 miles east of Crossroads, New Mexico

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
660'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
1320'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3970' G.R.

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"	28# J-55	375'	250 sx
7-7/8"	4-1/2"	9.5# J-55	5100'	250 sx

Drill 12 1/4" hole from surface to approximately 375'. Run & set 8-5/8" casing, circulate cement to surface with 250 sx Class "H", 2% CaCl<sub>2</sub>. Drill 7-7/8" hole to approximately 5100'. Run open hole logs. Run 4 1/2", 9.5 lb/ft, J-55 production casing, cement with 250 sx Class "C", 2% gel, 0.75% CFR-2, and 8 lbs salt per sack. Run correlation log, perforate San Andres. Treat with acid. Swab to test. Potential well.

Mud Program: 0-4800' Native Mud  
4800-TD Salt base mud - Wt 10.3, Vis 38, WL 15 cc

Blowout Preventer: Shaffer 10" - Series 900 - Installed on surface pipe.

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 John A. Leland TITLE Petroleum Engineer DATE June 3, 1974

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
JUN 11 1974

ARTHUR R. BROWN  
DISTRICT ENGINEER

\*See Instructions On Reverse Side

TRASH AND JUNK SHOULD BE  
BURIED IN A SEPARATE TRASH BIN