

NO. OF COPIES RECEIVED	6
DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.G.S.	2
LAND OFFICE	1
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION
RECEIVED

JUL 20 1979

O.C.C.

ARTERIAL OFFICE

30-015-22970

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
5. State Oil & Gas Lease No. LG-2353
7. Unit Agreement Name -----
8. Farm or Lease Name New Mexico State
9. Well No. 2
10. Field and Pool, or Wildcat Shugart (Yates, 7-Rvrs, O. Grayburg)
12. County Eddy
19. Proposed Depth 4250'
19A. Formation Premier, Grayburg, Queen
20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) G.L. = 3609'
21A. Kind & Status Plug. Bond Blanket
21B. Drilling Contractor WEK Drlg Co.
22. Approx. Date Work will start 8-1-79

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>
2. Name of Operator Flag-Redfern Oil Company ✓
3. Address of Operator P. O. Box 23 Midland, TX 79702
4. Location of Well UNIT LETTER L LOCATED 660 FEET FROM THE West LINE AND 1980 FEET FROM THE South LINE OF SEC. 2 TWP. 19-S RGE. 31-E NMPM
19. Proposed Depth 4250'
19A. Formation Premier, Grayburg, Queen
20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) G.L. = 3609'
21A. Kind & Status Plug. Bond Blanket
21B. Drilling Contractor WEK Drlg Co.
22. Approx. Date Work will start 8-1-79

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#/ft K-55	850'	475 sx.	Circulate
7-7/8"	4-1/2"	9.50#/ft J-55	4250'	600 sx.	Circulate

Drill 12 1/4" hole to 850'. Run 8-5/8" casing to 900' and circulate cement with 275 sxs of Halliburton Light Weight with 2% CaCl followed by 200 sx of Class "C" with 2% CaCl.
Drill 7-7/8" hole to approximately 4250'. Run open hole logs. Run 4 1/2" casing to TD and circulate cement using 300 sxs of Halliburton Light Weight with 15#/sx of salt, 5#/sx of 0.3% CFR-2, 5#/sx of salt and 2% gel. Run correlation logs and perforate the Premier and Grayburg formations. Treat by acidizing and hydraulic fracturing. Swab to test. Perforate the Queen formation and treat by acidizing and hydraulic fracturing. Potential well as a Premier, Grayburg, and Queen producer.

Mud Program

0-900' Native mud
900-3200' Native mud and Oil
3200-TD Starch and Oil Emulsion

Estimated Tops

Rustler Anhydrite - 740', Salt top- 868', base- 2348', Yates- 2560', Seven Rivers- 2814' back..

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Engineer Date 7-19-79

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR, DISTRICT II DATE JUL 24 1979

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 10-24-79 Cont. on

Queen- 3372', Penrose- 3668', Grayburg- 3930, Premier- 4040'.

Blowout Preventers

Cameron 10" Series 900 installed on surface casing.