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NEW MEXICO OIL CONSERVATION COMMISSION

NOV - 1 1978

O. C. C.
ARTESIA, OFFICE

30-015-22730
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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. Farm or Lease Name New Mexico State	
2. Name of Operator Flag-Redfern Oil Company		9. Well No. 1	
3. Address of Operator P. O. Box 2280 Midland, TX 79702		10. Field and Pool, or Wildcat Shugart (Yates 7 Rvrs q. Grayburg)	
4. Location of Well UNIT LETTER K LOCATED 1980 FEET FROM THE West LINE AND 1980 FEET FROM THE South LINE OF SEC. 2 TWP. 19-S RGE. 31-E NMPM		12. County Eddy	
19. Proposed Depth 4300'		19A. Formation Premier, Queen	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) G.L. = 3614'	
21A. Kind & Status Plug. Bond Blanket		21B. Drilling Contractor WEK Drlg Co.	
22. Approx. Date Work will start 11-13-78			

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	900'	475	Circulate
7 7/8"	4 1/2"	9.50#/ft J-55	4300'	875	Circulate

Drill 12 1/4" hole to 900'. Run 8 5/8" casing to 900' and circulate cement with 275 sks of Halliburton Light Weight with 2% CaCl followed by 200 sx of Class "C" with 2% CaCl. Drill 7 7/8" hole to approximately 4300'. Run open hole logs Run 4 1/2" casing to TD and circulate cement using 575 sks of Halliburton Light Weight with 15#/sk of salt, 5#/sk of Gilsonite and 1/2#/sk of Flocele, followed by 300 sks of 50-50 Class "C" - Pozmix "A" with 0.3% CFR-2, 5#/sk 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 - 764', Salt top- 890', base- 2368', Yates- 2563', Seven Rivers- 2823' 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 W. A. Gussitt Title Petroleum Engineer Date 10-31-78

(This space for State Use)

APPROVED BY W. A. Gussitt TITLE SUPERVISOR, DISTRICT II DATE NOV - 3 1978

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 2-3-79 Cont.
on

Queen- 3429', Penrose- 3702', Grayburg- 3999', Premier- 4129'

Blowout Preventers

Cameron 10" series 900 installed on surface casing.