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NEW MEXICO OIL CONSERVATION COMMISSION

APR 8 1980

O. C. C.  
ARTESIA, OFFICE

30-015-23279

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 DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
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"/>		8. Farm or Lease Name New Mexico State
2. Name of Operator Flag-Redfern Oil Company ✓		9. Well No. 3
3. Address of Operator P.O. Box 2280 Midland, Texas 79702		10. Field and Pool, or Wildcat Shugart (Yates, 7R, Queen Grayburg)
4. Location of Well UNIT LETTER N LOCATED 1980 FEET FROM THE West LINE AND 660 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 Grayburg Queen
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 3603 GR	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor WEK Drilling Co.
		22. Approx. Date Work will start May 1, 1980

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8-5/8"	24#	850'	475	Surface
7-7/8"	4-1/2"	10.5#	4300'	875	Inside 8-5/8" csg

Drill 11" hole to 850' or into the Rustler Anyhdrite formation. Run 8-5/8" casing and circulate cement using 275 sx. of Halliburton Light Weight with 2% CaCl followed by 200 sxs of Class "C" w/2% CaCl. Wait on cement 8 hrs. and test casing to 600 PSIG. Install Cameron 10" Series 900 dual blowout preventers on surface casing. Drill 7-7/8" hole to approximately 4300'. Run CNL-FDC Porosity log. Run 4-1/2" casing to TD and cement with 575 sx. Halliburton Light Weight with 15# salt, 5# gilsonite, 1/4# floccel and 300 sx. 50-50 Poz A with 0.75% CFR-2, 5# salt, 2% gel. Wait on cement a minimum of 8 hrs. Test 4-1/2" casing to 1500 PSIG. Run correlation logs and perforate the Premier, Grayburg and Queen. Treat by acidizing and hydraulic fracturing. Potential test well.

APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED,

EXPIRES 7-9-80

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 J. C. Schaefer Title Engineer Date 4/03/80

(This space for State Use)

APPROVED BY W. A. Gussert TITLE SUPERVISOR, DISTRICT II DATE APR 9 1980

CONDITIONS OF APPROVAL, IF ANY:

Minimum WOC time/8 hrs.