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OPERATOR	

3A. Indicate Type of Lease
STATE ☒ REC ☐
5. State Oil & Gas Lease No.
B-155

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work	7. Unit Agreement Name	
Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐	8. Farm or Lease Name	
OIL WELL ☒ GAS WELL ☐ OTHER ☐	Central Vacuum Unit	
9. Well No.	169	
10. Field and Pool, or Wildcat	Vacuum Grayburg San Andres	
11. Location of Well	12. County	
UNIT LETTER <u>N</u> LOCATED <u>760</u> FEET FROM THE <u>South</u> LINE	Lea	
<u>1980</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>36</u> TWP. <u>17-S</u> REC. <u>34-E</u> NMPM		
19. Proposed Depth	19A. Formation	20. Rotary or C.T.
4710'	Grayburg S. A.	Rotary
21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
Blanket		November 5, 1986

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
24"	20"	94.0	350'	700	Circulate
17-1/2"	13-3/8"	48.0	1550'	1150	Circulate
12-1/4"	9-5/8"	32.3 & 36.0	2800'	1600	Circulate
8-1/2"	7"	23.0	4300'	750	Circulate

CEMENTING PROGRAM

SURFACE CASING: 700 sxs Class "H" with 2% CaCl and 1/4# Flocele (15.6 ppg, 1.18 cu. ft./sx).

1ST INTERMEDIATE CASING: 900 sxs 50/50 pozmix Class "H" with 2% CaCl, 1/4# Flocele, (14.15 ppg, 1.26 cu. ft./sx) followed by 250 sxs Class "H" with 2% CaCl, 1/4# Flocele (15.6 ppg, 1.18 cu. ft./sx).

2ND INTERMEDIATE CASING: 1st Stage: 750 sxs 50/50 pozmix Class "H" with 10# salt (14.15 ppg, 1.28 cu. ft./sx) followed by 250 sxs Class "H" with 2% CaCl (15.8 ppg 1.18 cu. ft./sx).

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ABOVE SPACE DESCRIBE PROPOSED PROGRAM IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION ZONE. GIVE SHUT-IN PREVENTER PROGRAM, IF ANY.

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

by J. J. Seeman Title Dist. Petr. Engr. Date 9/24/86

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT 1 SUPERVISOR

APPROVED BY _____ TITLE _____ DATE SEP 29 1986

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

2008-2009
2008-2009
2008-2009