

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

20-025-90201

Form C-101  
Revised 10-1-78

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	

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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Humble Hume 5 State
2. Name of Operator Santa Fe Energy Operating Partners, LP		9. Well No. 1
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701		10. Field and Pool, or Wildcat Hume Morrow
4. Location of Well UNIT LETTER <u>W</u> LOCATED <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>5</u> TWP. <u>16-S</u> RGE. <u>34-E</u> NMPM		12. County Lea
19. Proposed Depth 13,300		19A. Formation Morrow
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 4137.8 GL	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor to be bid
22. Approx. Date Work will start ASAP		

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 3/8"	48.0	450'	450 sx, circ to surface	
11"	8 5/8"	24.0 & 28.0	4550'	2500 sx, circulated	
7 7/8"	5 1/2"	17.0	13,300'	500 sx, TOC 10,000'	

Move in rig and drill 17 1/2" hole to 450'+. Run 13 3/8" casing and cement with sufficient Class C Neat cement containing 2% CaCl<sub>2</sub> to circulate to surface. Drill 11" hole to 4550'. Run 8 5/8" casing. Cement with sufficient 65/35 Class C poz followed by 360 sxs Class C Neat to circulate to surface. Drill 7 7/8" hole to 13,300'. Run 5 1/2" casing. Cement with sufficient Class H cement containing 1.25% flo-lock, 0.2% defoamer, and 2% KCl to cover possible producing intervals with 500' of cement.

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 Mike Burton *Mike Burton* Title Sr. Drilling Engineer Date 01-08-88

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE  DATE JAN 22 1988

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.