

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

IL CONSERVATION DIVISIC

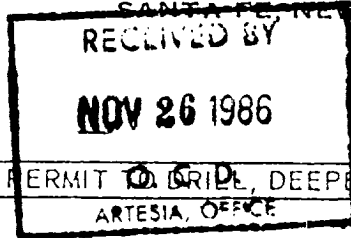
P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

30-015-25688
Form C-101

Revised 10-1-78

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5A. Indicate Type of Lease
STATE ☐ FEE ☒

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 checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Hargis
2. Name of Operator Santa Fe Energy Operating Partners, L.P. ✓		9. Well No. 1
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701		10. Field and Pool, or Wildcat Undes. Otis Morrow
4. Location of Well UNIT LETTER <u>G</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>24</u> TWP. <u>22S</u> RGE. <u>27E</u> NMPM		12. County Eddy
19. Proposed Depth 12,300'		19A. Formation Morrow
20. Rotary or C.T. Rotary		
21. Elevations (show whether DK, RT, etc.) 3055' 3034' 64'	21A. Kind & Status Plug. Bond Blanket-Current	21B. Drilling Contractor To be determined
22. Approx. Date Work will start ASAP		

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	260'	210	Surface
12 1/4"	9 5/8"	36.0	2200'	950	Surface
8 1/2"	5 1/2"	17.0	12300'	1075	8500'

Move in and rig up drilling rig. Drill a 17 1/2" hole to 260'. Run and cement 13 3/8" casing with 210 sacks Class "C" cement containing 2% CaCl₂ (278 cu.ft.). Twelve hour compressive strength - 1210 psi. WOC 12 hrs. Drill 12 1/4" hole to 2200'. Run and cement 9 5/8" casing with 590 sacks cement containing 65% C cement, 35% pozzalin, 3% gel, 3% salt, and 1# cello-flakes per sack followed by 360 sacks Class "C" Neat (1641 cu.ft.). Twelve hour compressive strength of lead cement - 150 psi. Twelve hour compressive strength tail cement - 1210 psi. Test casing to 1700 psi. Nipple up double ram BOP with hydrill. Test BOP to 5000 psi. Drill 8 1/2" hole to T.D. Prior to drilling into Wolfcamp, install choke manifold and test to 5000 psi. Run logs and drill stem tests. Either run and cement 5 1/2" casing with 500 sacks cement containing 50% Class H, 50% pozzalin, 2% gel, and 0.8% fluid loss additive followed by 575 sacks cement containing Class H, 1.25% Flo-lock, 0.2% de-foamer, and 2% KCl or P&A as per NMOCC Rules.

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 11-24-86

(This space for State Use)

Original Signed By
Mike Williams

APPROVED BY Oil & Gas Inspector TITLE Oil & Gas Inspector DATE DEC 2 1986

CONDITIONS OF APPROVAL, IF ANY: