

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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SANTA FE, NEW MEXICO 87501
SEP 10 1986
O. C. D.
ARTESIA OFFICE

Form C-101
Revised 10-1-78
30-015-25653
5A. Indicate Type of Lease
STATE ☒ FEDERAL ☐
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ☒ DEEPEN ☐ PLUG BACK ☐		7. Unit Agreement Name
b. Type of Well OIL WELL ☐ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐		8. Farm or Lease Name H. B. State
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. Cedar Canyon
4. Location of Well UNIT LETTER E LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE OF SEC. 2 TWP. 24S RGE. 29E MAP 11		12. County Eddy
19. Proposed Depth 13,900'		19A. Formation Morrow
20. Rotary or C.T. Rotary		
21. Elevations (show whether DT, KI, etc.) 3066.5 G.L.	21A. Kind & Status Plug. Bond Blanket-current	21B. Drilling Contractor To be determined
22. Approx. Date Work will start Oct. 15, 1986		

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	300-400'	316	Surface
12 1/4	10 3/4	40.5 & 45.5	3100	695	Surface
9 1/2	7 5/8	29.7, 33.7, 39.0	10250	410	8250
6 1/2	5	15.5	9750-13900	315	9750

Move in & rig up rotary tools. Drill 17 1/2" hole to 300'. Run 13 3/8" casing & cement with 416 cu.ft. Class C Neat containing 2% CaCl₂. Wait on cement till 500 psi compressive strength is obtained. Nipple up diverter system consisting of 1 bag type preventer. Test casing to 600 psi. Drill 12 1/4" hole to 3100'. Run 10 3/4" casing. Cement with 837 cu.ft. Class C cement containing 4% gel and 0.25# flocele per sack, followed by 330 cu.ft. Class C Neat containing 2% CaCl₂. Wait on cement till 500 psi compressive strength obtained. Nipple up triple ram BOP with hydrill. Pressure test casing to 1500 psi. Pressure test BOP to 1500 psi. Drill 9 1/2" hole to 10,250'. Log. Run 7 5/8" casing. Cement with 525 cu.ft. 50/50 poz mix A containing 2% gel, 6# salt per sack & 0.3% friction reducer. Test BOP stack to 10000 psi. Test casing to 4000 psi. Drill shoe & 10' of formation. Test formation to 13.0 ppg mud weight equivalent. Drill 6 1/2" hole to 13,900'. Log. Either P&A or run 5" casing & cement with 340 cu.ft. Class H containing 0.6% friction reducer, 0.4% fluid loss additive, 5# KCl per sack.

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 9-8-86
(This space for State Use)

APPROVED BY _____ TITLE _____ DATE SEP 12 1986
CONDITIONS OF APPROVAL, IF ANY:

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 3-18-87