STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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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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O. C. D.
ARTESIA, OFFICE

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
b. Type of Well
DRILL ☒ DEEPEN ☐ PLUG BACK ☐
OIL WELL ☐ GAS WELL ☒ OTHER SINGLE ZONE ☒ MULTIPLE ZONE ☐

7. Unit Agreement Name

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 G LOCATED 1980 FEET FROM THE North LINE
AND 1980 FEET FROM THE West LINE OF SEC. 24 TWP. 22S RGE. 27E NMPM

12. County
Eddy

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
12,300'	Morrow	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
~~3055'~~ 3047 GL	Blanket-Current	To be determined	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	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% $CaCl_2$ (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.

IEC
6-3-87

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)

APPROVED BY Original Signed By Mike Williams TITLE Oil & Gas Inspector DATE DEC 2 1986

CONDITIONS OF APPROVAL, IF ANY: