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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		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name N.H. 5A 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, Texas 79701		10. Field and Pool, or Wildcat North Hume/Wolfcamp	
4. Location of Well UNIT LETTER <u>K</u> LOCATED <u>4620</u> FEET FROM THE <u>South</u> LINE AND <u>1980'</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>5</u> TWP. <u>16S</u> RGE. <u>34E</u> NMPM		12. County Lea	
19. Proposed Depth 10,300'		19A. Formation Wolfcamp	20. Rotary or C.T. Rotary
21. Elevations (Show whether DT, KI, etc.) 4151.3 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"	54.5	450'	450 sx	Surface
12-1/4"	8-5/8"	24 & 32	4,500'	2,500 sx	Surface
7-7/8"	5-1/2"	20 & 23#	10,300'	800 sx	3,000'

Move in rig and drill 17-1/2" hole to 450'±. Run 13-3/8" casing and cement to surface with Class C cement w/2% CaCl₂. Drill 12-1/4" hole to 4,500'. Run 8-5/8" casing and cement to surface with 65/35 Class C cement/Poz, 6% gel, 10% salt and 1 lbs/sx celloflake, followed by 360 sx Class C cement. Drill 7-7/8" hole to 10,300'. Run 5-1/2" casing and cement to 3,000' with 65/35 Class H cement/Poz (3000'-9000') followed by 50/50 Class H cement/Poz, 2% gel, 0.8% fluid loss additive (9000'-10,300').

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 David Slater Title Drilling Superintendent Date 4-27-88

(This space for use)
Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE MAY 4 - 1988

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

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MAY 3 1988
OCD
HOEBS OFFICE