

N.M. Oil Cons. Division  
P.O. Box 1980  
Hobbs, NM 88241

Form 3160-4  
(July 1992)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)

FORM APPROVED

OMB NO. 1004-0137

Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR  
Santa Fe Energy Resources, Inc.

3. ADDRESS AND TELEPHONE NO.  
550 W. Texas, Suite 1330, Midland, TX 79701 915/687-3551

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface (E), 1980' FNL & 660' FWL, Sec. 28, T-23S, R-33E  
At top prod. interval reported below

At total depth

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
NM-94186

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Thistle Unit

8. FARM OR LEASE NAME, WELL NO.  
Thistle Unit No. 2

9. API WELL NO.  
30-025-33424

10. FIELD AND POOL, OR WILDCAT  
W. Brinnistool 11/1/97  
Wildcat Wolfcamp A-10910

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 28, T-23S, R-33E

12. COUNTY OR PARISH  
Lea

13. STATE  
NM

15. DATE SPUDDED 5/27/96 16. DATE T.D. REACHED 8/7/96 17. DATE COMPL. (Ready to prod.) 10/29/96 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 3686' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 15,850' 21. PLUG, BACK T.D., MD & TVD 14,230' 22. IF MULTIPLE COMPL., HOW MANY\* N/A 23. INTERVALS DRILLED BY ROTARY TOOLS A11 CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
13,002' - 13,120' (Wolfcamp) 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DLL/Micro SFL; SD/DSN 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well) PLM

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8" H-40	48.0#	605'	17-1/2"	600 sx C1 "C" (circ'd)	None
9-5/8" S95/J-55	40.0#	5011'	12-1/4"	1500 sx POZ & "C" (circ'd)	None
7" P-110/S-95	26.0#	12,602'	8-3/4"	1300 sx C1 "H" (TOC 7390')	None

LINER RECORD				TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
4-1/2"	12,270'	15,847'	462 sx "H"		2-3/8"	12,901'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
15,461-15,525' - plugged w/CIBP & cmt		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
14,424-14,438' - plugged w/CIBP		15,461' - 15,525'	CIBP @ 15,450' w/3% cmt.
13,002-008'; 13,098-102'; 13,112-120'		14,424-14,438'	Plugged w/ CIBP @ 14,230'
		13,002-13,120'	2500 gals 15% HCl + 42 BS.

33. PRODUCTION

DATE FIRST PRODUCTION 3/7/97 PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 3/10/97 HOURS TESTED 24 hrs. CHOKE SIZE 20/64" PROD'N. FOR TEST PERIOD 12 OIL - BBL. 1 GAS - MCF. 0 WATER - BBL. 83 GAS - OIL RATIO

FLOW. TUBING PRESS. 15 CASING PRESSURE 900 CALCULATED 24-HOUR RATE 12 OIL - BBL. 1 GAS - MCF. 0 WATER - BBL. OIL GRAVITY - API (CORR.) 46.5

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY

35. LIST OF ATTACHMENTS  
C-104, Deviation Survey, Logs, C-102

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Terry McCallough TITLE Sr. Production Clerk DATE 4/02/97

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		
Delaware 'X'	8892	8944	Possible Oil & Gas		
Wolfcamp	13000	13014	Oil & Gas		
Atoka Band	14405	14442	Water & Gas		
Morrow 'A' Sand	15458	154389	Tight		

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	1300	
Delaware	5165	
Bone Spring	9077	
1st Bone Spr	9870	
2nd Bone Spr	10816	
3rd Bone Spr	12054	
Wolfcamp	12276	
Strawn	14085	
Atoka	14323	
Morrow	14774	