

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 LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

1b. 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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)
At surface (C), 660' FNL & 1980' FWL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
NM-76919

6. IF INDIAN, ALLOTTEE OR BUREAU OF INDIAN AFFAIRS

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Roaring Springs
13 Federal #4

9. API WELL NO.
30-015-29350

10. FIELD AND POOL, OR WILDCAT
Indian Basin East (Morrow)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 13, T-21S, R-23E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

14. PERMIT NO.

15. DATE SPUN
2/2/97

16. DATE T.D. REACHED
2/24/97

17. DATE COMPL. (Ready to prod.)
3/19/97

18. ELEVATIONS (DE, RKB, RT, GR, ETC.)
3831' GR

22. IF MULTIPLE COMPL., HOW MANY*
N/A

23. INTERVALS DRILLED BY
ROTARY TOOLS
A11

25. WAS DIRECTIONAL SURVEY MADE
No

27. WAS WELL CORED
No

28. TYPE ELECTRIC AND OTHER LOGS RUN
CNL/GR; DLL/MLL

CASING RECORD (Report all strings set in well)				TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE			
9-5/8" K-55	36.0	1210'	12-1/4"	850 sx Lite & C (circ'd)		None
7" K-55/L-80	26.0	9647'	8-3/4"	1st stage: 200 sx "H"		None
				2nd stage: 375 sx Super C		

LINER RECORD				TUBING RECORD		PACKER SET (MD)
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
N/A					2-3/8"	9214'
						9254'

31. PERFORATION RECORD (Interval, size and number)
9544'-9556' (24 holes) 2 SPF w/1-11/16" gun

ACID, SQUEEZE, CEMENT SQUEEZE, ETC.		AMOUNT AND KIND OF MATERIAL USED
DEPTH INTERVAL (MD)		
9647'		CIBP @ 9631' w/10' cmt.
9544'-9556'		Natural completion.

33. PRODUCTION

DATE FIRST PRODUCTION
3/19/97

PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)
Flowing

WELL STATUS (Producing or shut-in)
Producing

DATE OF TEST
3/25/97

HOURS TESTED
4

CHOKE SIZE
Varied

PROD'N. FOR TEST PERIOD
0

OIL - BBL.
0

GAS - MCF.
151

WATER - BBL.
2

GAS - OIL RATIO
N/A

FLOW. TUBING PRESS.
1680 - 635#

CASING PRESSURE
Pkr.

CALCULATED 24-HOUR RATE
0

GAS - MCF.
1478 CAOF

WATER - BBL.
12

OIL GRAVITY - API (CORR.)
N/A

TEST WITNESSED BY

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold - connected 4/15/97

35. LIST OF ATTACHMENTS
C-104, Deviation Survey, Logs, C-122 w/attachments

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

SIGNED Larry McCullough TITLE Sr. Production Clerk DATE 4/29/97

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

and willfully make to any department or agency of the

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.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	1900	1981	Dolomite: 7-12% Porosity, not tested.	San Andres	478	
Glorieta	2492	2630	Dolomite: 5-8% Porosity; 10-30% oil stain, 20-40% bright yellow fluorescence & cut.	Glorieta	2166	
			Not tested.	Bone Spring	3976	
Glorieta	3742	3780	Sandstone, gray-brown very fine grained trace oil cut; 10% Porosity.	Wolfcamp	6184	
Wolfcamp	6960	6969	Limestone; 13% Porosity, slight gas increase	Cisco	7544	
Cisco	7584	7593	Limestone, 5% Porosity; 10-20% yellow fluorescence & cut, trace black oil on pits.	Canyon	8009	
Morrow	9354	9364	Sandstone, very fine to medium grained 30% yellow fluorescence, gas increase 200 to 600 units. Log calc 10% Porosity, 35% water saturation.	Strawn LS	8604	
				Atoka	8929	
				Morrow	9254	
				L. Morrow	9497	
Lower Morrow	9538	9556	Sandstone: poor sample quality. 14% Log Porosity. Water saturation 37%			