

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOGS

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

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVS. ☐ Other ☐

2. NAME OF OPERATOR

Santa Fe Energy Operating Partners, L.P.

3. ADDRESS OF OPERATOR

550 W. Texas, Suite 1330, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface (O), 660' FSL and 2310' FEL, Sec. 8, T-23S, R-31E

At top prod. interval reported below

At total depth

14. PERMIT NO. API # 30-015-27598 DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

NM-77046

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

North Pure Gold 8 Federal

9. WELL NO.

5

10. FIELD AND POOL OR WILDCAT

Los Medanos (Delaware)

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec. 8, T-23S, R-31E

12. COUNTY OR PARISH Eddy

13. STATE NM

15. DATE SPUDDED 10-18-93 16. DATE T.D. REACHED 10-30-93 17. DATE COMPL. (Ready to prod.) 11-13-93 18. ELEVATIONS (DF. RKB. RT. GR. ETC.)* 3305' GR 19. ELEV. CASINGHEAD --

20. TOTAL DEPTH, MD & TVD 8070' 21. PLUG BACK T.D., MD & TVD 8023' 22. IF MULTIPLE COMPL. HOW MANY* N/A 23. INTERVALS DRILLED BY N/A 24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7860'-7900' (Delaware) 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/MLL; CNL/CPD

27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	590'	17-1/2"	350 sx C1 "C" (circ'd)	None
8-5/8"	32#	4045'	12-1/4"	1700 sx Lite + 500 sx Neat	None
5-1/2"	15.5 & 17.0	8070'	7-7/8"	495 sx H, 190 sx Lite, & 400 sx Neat	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	7812'	N/A

31. PERFORATION RECORD (Interval, size and number)

7860'-7900' (1 SPF) 40 holes; 4" csg gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7860'-7900'	1584 gal 7 1/2% HCl w/60 BS. Frac w/ 61,866 gal gel + 120,125# 16/30 Ottawa sand & 15,000# resin coated sand

33.* PRODUCTION

33.

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
11-13-93		Flowing					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO	
11-16-93	24	18/64"	→	249	231	123	928	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)		
450	1020	→	249	231	123	39°		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented during test - connected to Llano, Inc. on 11-16-93

35. LIST OF ATTACHMENTS

C-104, Deviation Survey, Logs

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

SIGNED

Terry McCullough

TITLE

Sr. Production Clerk

DATE Nov. 17, 1993

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

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.
			No Cores or DST's taken

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	385	
Salado	690	
Base Salt	3797	
Lamar	4030	
Bell Canyon	4055	
Ramsey	4079	
Cherry Canyon	4946	
Manzanita Marker	5161	
Brushy Canyon	6285	
Bone Spring	7952	