

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

SUBMIT IN DUPLICATE

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

**CONFIDENTIAL**

MINOR COMMISSION  
Drawer DD  
Artesia, N.M. 88210

5. LEASE DESIGNATION AND SERIAL NO.  
NM-77046  
6. IF TYPED, LIST SURVEY NAME  
30-025-26296

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY WELL  Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. REVR.  Other \_\_\_\_\_  
JUL 24 11 06 AM '90

2. NAME OF OPERATOR  
Santa Fe Energy Operating Partners, L.P.

3. ADDRESS OF OPERATOR  
500 W. Illinois, Suite 500, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 1980' FSL and 660' FEL, Sec. 8, T-23S, R-31E, C. D.  
At top prod. interval reported below  
At total depth  
MAY - 8 1991  
ARTESIA, OFFICE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
North Pure Gold 8 Federal

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
West Sand Dunes Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 8, T-23S, R-31E

14. PERMIT NO. DATE ISSUED  
12. COUNTY OR PARISH Eddy 13. STATE N. M.

15. DATE SPUDDED 3-24-90 16. DATE T.D. REACHED 5-23-90 17. DATE COMPL. (Ready to prod.) 7-4-90 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 3333.7' GR 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 14,821' 21. PLUG BACK T.D., MD & TVD 14,703' 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)\* 13,966'-13,986' (Morrow) 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/MLL/GR, ZDL/CN/GR/C, DEL2/DEL4 27. WAS WELL CORED Yes

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	628'	17 1/2"	800' sx C1 C (gravel pack)	
9-5/8"	40	4125'	12 1/2"	2300 sx PCL + 200 sx C Neat	
7"	29 & 26	11,718'	8 1/2"	1100 sx 50/50 poz H	
			6"		

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	11,380'	14,820'	510 sx H		2-3/8"	13,863'	13,910'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
13,966'-13,986'	(74 holes) 4 JSPF	13,966-13,986'	None
3-3/8"	Vann gun		

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
7-4-90		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-7-90	4	var	→	0	538	0	n/a
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
4560	pkc	→	0	CAOF 9187	0	n/a	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Vented during test. Shut-in pending sales connection

35. LIST OF ATTACHMENTS  
C-122, Deviation Survey, Logs, Request for confidentiality

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED Derry McCullough TITLE Sr. Production Clerk DATE 7/23/90

\*(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.
Atoka Sand	13,251	13,258	<p>DST #1 (13,222-13,293)            6500' water blanket            IH 8365            IF 5 min 4461-4852            ISI 60 min 7260            2nd F 123 min 5075-5828            2nd SI 480 min 6971            FH 8281            Closed chamber during 1st flow &amp; shut in.            Flowed gas + water to surface on 2nd flow            Ending gas rate 1.1 MMCFG/D. Final water            prod rate 460 BWPD. Sample chamber: 6.38            CFT gas, 1100 cc water</p>
Atoka Lime	13,326	13,364	<p>DST #2 (13,355-13,387)            Ran 7829' water blanket            IH 9161            IF 7 min 3585-3585            ISI 60 min 4024            2nd F 60 min 3585-3585            2nd SI 300 min 3969            FH 9183            Ran closed chamber DST. On 2nd flow DP            press increased to 9 psi. DP recovery:            POH to top of wtr cushion. No recovery of            formation fluids in DP. Sample chamber:            2400 cc mud.</p>

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Base Salt	3892	
Lamar LS	4074	
Delaware SS	4170	
Bone Spring	7984	
1st BS Sand	9015	
2nd BS Sand	9567	
3rd BS Sand	10804	
Wolfcamp	11256	
Strawn	12927	
Atoka Clastics	13163	
Lower Atoka LS	13402	
Morrow	13921	
Morrow Clastics	14082	
Lower Morrow	14644	