Form 9-330
(Rev. 5-63)

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM 57535

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: N. H. 5 Federal

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: (New Field) Wolfcamp

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 5, 16S, 34E

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 Operating Partners, L.P.

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

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2466' FNL & 1980' FEL of Sec. 5
At top prod. interval reported below: Same
At total depth: Same

14. PERMIT NO.: N/A — DATE ISSUED: 10-2-86

12. COUNTY OR PARISH: Lea — 13. STATE: NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-16-86	12-2-86	1-8-87	4143.5' GL	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
13,337'	10,945'	N/A	→	All	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 10,176-10,192' Wolfcamp

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual induction, Borehole Compensated Sonic, Compensated Neutron

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	68 & 54.5	455	17 1/2	475 sx Cl C	N/A
8 5/8	24 & 28	4543	11	1300 sx Lite 750 Cl C	N/A
5 1/2	20 & 23	11,232	7 7/8	975 sx Cl H	N/A

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	10,117	10,117

31. PERFORATION RECORD (*Interval, size and number*)
11,043-11,101'- 1 JSPF 66 holes P&A
CIBP @ 10,980'
10,176-10,192'- 2 JSPF

PLUG BACK INFORMATION ON BACK (3330-11620)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11,043-11,101	Acdz w/6000 gal 15% NEFE HCl
" "	CIBP @ 10,980 w/35' cmt on top
10,176-10,192	Acdz w/1600 gal 15% NEFE HCl

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
1-8-87	Flow	SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-12-86	13	18/64		363	325	5	895

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
750	Pkr		670	600	9	36

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

TEST WITNESSED BY

ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS: Logs, deviation tests, C102

FEB 05 1987

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

SIGNED Billie Wood TITLE Sr. Prod. Clerk DATE 1-20-87

CARLSBAD, NEW MEXICO

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Note: Per BLM Insructions, 12-6-86, set 4 cmt plugs: #1 - 35 sx Cl H @ 13,330-13,250'
#2 - 25 sx Cl H @ 12,902-12,802'
#3 - 25 sx Cl H @ 12,110-12,010'
#4 -113 sx Cl H @ 11,450-11,120'

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.
	5061	5181	DST #1 (10-30-86)
	12745	12777	DST #2 (11-26-86)
	13036	13053	DST #3 (11-29-86)
	11052	11238	DST #4 (12-8-86) pkr failed
	11033	11238	DST #5 (12-9-86) pkr failed
	11002	11126	DST #6 (12-11-86) pkr failed
	10092	10200	DST #7 (12-12-86)
			See attached sheet for DST test results.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Penrose	3960	
Tubb	7265	
Wolfcamp	9656	
Cisco	11043	
Strawn	12060	
Atoka Ls.	12401	
Morrow	12860	
Chester	13250	