

(Rev. 9-66)

**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**

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
Southwestern Natural Gas, Inc.

3. ADDRESS OF OPERATOR
412 First State Bank Building, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 660' FS&EL Sec. 28, T19S, R31E
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
NM 032240

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. OR LEASE NAME
Penneco - Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Lusk - Strawn

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 28, T-19-S, R-31-E
NMFM

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. PERMIT NO.

DATE ISSUED
6-30-66

15. DATE SPUDDED
6-30-66

16. DATE T.D. REACHED
8-16-66

17. DATE COMPL. (Ready to prod.)
8-22-66

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*
3469.2 ground

19. ELEV. CASINGHEAD
3471.2

20. TOTAL DEPTH, MD & TVD
11,425

21. PLUG, BACK T.D., MD & TVD
11,385

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY ROTARY TOOLS
10 - 11,425

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
11,274 - 11,371 Strawn Reef

25. WAS DIRECTIONAL SURVEY MADE
yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Acoustic Gamma Ray; Cement Evaluation

27. WAS WELL CORED
no

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNT PULLED
13-3/8"	11.60	714	17-1/2	none
8-5/8"	24# and 32#	4059	12-1/4	none
4-1/2"	11.60	11424	7-7/8	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
2-3/8"	11,220	11,341		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	11,220	11,341

31. PERFORATION RECORD (Interval, size and number)
One shot @ 11,274; 11,276; 11,278; 11,302; 11,305; 11,308; 11,311; 11,313; 11,317; 11,319; 11,321; 11,323; 11,353; 11,355; 11,357; 11,359; 11,361; 11,363; 11,365; 11,368; 11,371. (Packer set @ 11,341)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11,274 - 11,371	3,000 gal. regular acid

33. PRODUCTION

DATE FIRST PRODUCTION
8-23-66

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

WELL STATUS (Producing or shut-in)
Prod.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8-24	24	24/64	→	426	639	-0-	1500

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
700	900	→	426	639	-0-	47.5

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented at present, waiting on gas connection w/Continental Oil

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Two (2) copies each log run

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

SIGNED M. S. Ricker TITLE Off. Mgr. DATE 8-29-66
Office Manager

*(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.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORDED 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.
Strawn	11,165	11,376	White to tan lime which had no visible oil staining, and only suggested vugular porosity around edges of sample cuttings. Some calcite crystals. Light blue flour-essence. Rests on and is overlain by a dark gray dirty lime interbedded with black shale.

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	
		MEAS. DEPTH	TRUE VERT. DEPTH
Yates	2280		+1204
San Andres	4256		- 772
Bone Springs	6915		-3431
Bone Springs Sand	8220		-4736
Wolfcamp	10336		-6852
Strawn	11165		-7681
Strawn Reef	11223		-7739
Base Strawn Reef	11376		-7892