Form 9-330
(Rev. 5-63)

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: Southern Union Production Company

3. ADDRESS OF OPERATOR: P. O. Box 808, Farmington, New Mexico 87401

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1450 ft. from the North line & 1070 ft. from west line.
At top prod. interval reported below: Same as above.
At total depth: Same as above

5. LEASE DESIGNATION AND SERIAL NO.: Contract #145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Apache

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jicarilla "K"

9. WELL NO.: 13

10. FIELD AND POOL, OR WILDCAT: South Blanco Pictured Cliffs Ext., Otero Chacra Extension, Basin Ext.

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 11, T-25N, R-5W N.M.P.M.

12. COUNTY OR PARISH: Rio Arriba

13. STATE: New Mexico

14. PERMIT NO.: | DATE ISSUED:

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11/10/70	12/4/70	12/22/70	6698 ft. R.K.B.	6684 ft.

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
7475 MD & TVD	7440 MD & TVD	3	→	0-7475	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
2970-3026 MD & TVD Pictured Cliffs
3858-3884 MD & TVD Chacra
7184-7376 MD & TVD Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: E. S.-Induction, Density, Gamma-Ray Correlation, Cement Bond

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
8-5/8"	24.0#	312 ft.	12-1/4"	250 sacks	None
5-1/2"	15.50#	7475 ft.	7-7/8"	1st stage cemented w/600 cu. ft. cement.	
Stage Collar set at 5480 ft. Cemented w/800 cu. ft. cement; Stage Collar set at 3983 ft. Cemented w/1100 cu. ft. cement.					

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1½" I.J.	3811 ft.	Chacra
1½" EUE	7311 ft.	7102 ft. Dakota

31. PERFORATION RECORD (*Interval, size and number*)
Pictured Cliffs: 1 shot/ft. 2970-2986, 2992-3006, 3012-3014, 3018-3026 (Total 44)
Chacra: 1 shot/ft. 3858-3884 (Total 27)
Dakota: 1 shot/ft. 7184-7196, 7318-7328, 7332-7336, 7358-7376 (Total 56 holes)
Hole size - 0.32"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2970-3026	50,000# Sand & 55,020 gal. water
3858-3884	30,000# Sand & 32,550 gal. water
7184-7376	80,000# Sand & 93,960 gal. water

33.* PRODUCTION

~~DATE FIRST PRODUCTION~~	~~PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)~~	WELL STATUS (*Producing or shut-in*)
1/5/71	3¼" 187 Dakota	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/18/71	3	¾"	→		130 Chacra 555 Pictured Cliffs		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
117	Packer	→		500 MCF Dakota		
84	Packer			1102 MCF Chacra		

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*) 362 MCF Pictured Cliffs TEST WITNESSED BY
Vented Kenneth E. Boddy

35. LIST OF ATTACHMENTS

RECEIVED JAN 22 1971 OIL CON. COM. DIST. 3

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

SIGNED Original signed by GILBERT D. NOLAND, JR. Gilbert D. Noland, Jr. TITLE Drilling Superintendent DATE January 20, 1971

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

JAN 21 1971

P. O. BOX 1809
DURANGO, COLO. 81301

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; 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	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Base Ojo Alamo	2592	
Pictured Cliffs	2973	
Chacra	3865	
Cliff House	4650	
Point Lookout	5206	
Gallup	6326	
Base Greenhorn	7163	
Dakota	7185	

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