

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

Form approved
Budget Bureau No. 42-R355.5.(See other in-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. SF 078433																			
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REST. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																			
2. NAME OF OPERATOR Southern Union Production Company		7. UNIT AGREEMENT NAME																			
3. ADDRESS OF OPERATOR P. O. Box 808, Farmington, New Mexico 87401		8. FARM OR LEASE NAME Hessman																			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 970 ft. from the North line & 990 ft. from the East line At top prod. interval reported below Same as above At total depth Same as above		9. WELL NO. 20																			
11. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Danish Dakota																			
DATE ISSUED		11. SEC., T., R., OR BLOCK AND SURVEY OR AREA Sec. 19, T-26N, R-8E, E.M.P.M.																			
12. COUNTY OR PARISH San Juan		13. STATE New Mexico																			
15. DATE SPUNDED 2/27/68	16. DATE T.D. REACHED 3/8/68	17. DATE COMPL. (Ready to prod.) 3/22/68	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6858 ft. H.H.B.																		
19. ELEV. CASINGHEAD 6246 ft.	20. TOTAL DEPTH, MD & TVD 6642 ft. MD & TVD																				
21. PLUG, BACK T.D., MD & TVD 6624' MD & TVD			22. IF MULTIPLE COMPL., HOW MANY*																		
23. INTERVALS DRILLED BY 0-6642 ft.			24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6246 ft. - 6590 ft. MD & TVD Dakota																		
25. WAS DIRECTIONAL SURVEY MADE NO			26. TYPE ELECTRIC AND OTHER LOGS RUN E. S. Induction, Density Log, Gamma-Ray Correlation, Cement Bond																		
27. WAS WELL CORED No			28. CASING RECORD (Report all strings set in well)																		
<table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>8-5/8"</td><td>24.0</td><td>314 ft.</td><td>12-1/4"</td><td>200 cu.</td><td>None</td></tr><tr><td>4-1/2"</td><td>10.5</td><td>6640 ft.</td><td>7-7/8"</td><td>1st stage cemented w/700 cu. ft. of 1-1 Mixture cement, Stage Collar set at 6500 ft. Cemented w/950 cu. ft. cement; Stage Collar set at 2162 ft. Cemented w/1200 cu. ft. cement.</td><td></td></tr></tbody></table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	8-5/8"	24.0	314 ft.	12-1/4"	200 cu.	None	4-1/2"	10.5	6640 ft.	7-7/8"	1st stage cemented w/700 cu. ft. of 1-1 Mixture cement, Stage Collar set at 6500 ft. Cemented w/950 cu. ft. cement; Stage Collar set at 2162 ft. Cemented w/1200 cu. ft. cement.	
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31. PERFORATION RECORD (Interval, size and number) Perf. 1 shot/ft. 6346-6368, 6429-6452, 6510-6514, 6524-6534, 6538-6544, 6572-6590. Total of 69 holes. Hole size 0.52"																					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. <table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>6346-6368</td><td>Sand from w/20,000' sand; 1,000' glass beads & 21,420 gal. 1% HCL water. Sand from w/75,000' sand; 2000' glass beads & 99,310 gal 1% HCL water.</td></tr><tr><td>6429-6590</td><td></td></tr></tbody></table>				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	6346-6368	Sand from w/20,000' sand; 1,000' glass beads & 21,420 gal. 1% HCL water. Sand from w/75,000' sand; 2000' glass beads & 99,310 gal 1% HCL water.	6429-6590													
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33.* PRODUCTION																					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)																			
DATE OF TEST 4/3/68		HOURS TESTED 3																			
CHOKE SIZE 3/4"		PROD'N. FOR TEST PERIOD 677																			
FLOW. TUBING PRESS. 440		CASING PRESSURE 1408																			
CALCULATED 24-HOUR RATE 5,417		OIL—BBL. 5,417																			
GAS—MCF. 5,417		WATER—BBL. 5,417																			
GAS-OIL RATIO 5,417		WATER—BBL. 5,417																			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented		TEST WITH APR 1 1968 Kenneth S. Noland																			
35. LIST OF ATTACHMENTS		U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.																			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		SIGNED GILBERT D. NOLAND, JR. Gilbert D. Noland, Jr.																			
TITLE Drilling Superintendent		DATE April 9, 1968																			

*(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:				38. GEOLOGIC MARKERS	
FORMATION		TOP	BOTTOM	NAME	
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		DESCRIPTION, CONTENTS, ETC.		MEAS. DEPTH	TRUE VERT. DEPTH
				Base Ojo Alamo	1308
				Pictured Cliffs	1958
				Cliff House	3510
				Point Lookout	4300
				Gallop	5415
				Base Greenhorn	6317
				Dakota	6345