

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See cover in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.6

CORRECTED COPY:

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. Contract 145	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR INDIAN NAME Jicarilla Apache	
3. NAME OF OPERATOR Southern Union Exploration Company		7. UNIT AGREEMENT NAME	
4. ADDRESS OF OPERATOR 1217 Main Street, Dallas, Texas 75202		8. FARM OR LEASE NAME Jicarilla "K"	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1095' FNL & 790' FEL		9. WELL NO. 15-E	
At top prod. interval reported below		10. FIELD AND POOL, OR WILDCAT Basin Dakota	
At total depth		11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA Sec 1, 25N, R5W	
14. PERMIT NO. ON N. E. 9		12. COUNTY OR PARISH Rio Arriba	
DATE ISSUED		13. STATE New Mexico	

15. DATE SPEDDIED 10/27/80	16. DATE T.D. REACHED 11/20/80	17. DATE COMPL. (Ready to prod.) 6/2/81	18. ELEVATIONS (DF, BBR, BT, OR ETC.) 6716' GR	19. ELEV. CASINGHEAD 6720'
20. TOTAL DEPTH, MD & TVD 7614'	21. PLUG, BACK T.D., MD & TVD 7595'	22. IF MULTIPLE COMPL. HOW MANY? two zones	23. INTERVALS DRILLED BY →	24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 5381-5522' Mesaverde 7385-7575' Dakota
25. TYPE ELECTRIC AND OTHER LOGS RUN Induction Electric, Densilog				26. WAS DIRECTIONAL SURVEY MADE Yes
27. WAS WELL CORED No				28. WAS WELL CEMENTED No

CASING RECORD (Report all strings set in well)				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
8 5/8"	24	274'	12 1/4"	200 sks Class "B" w/2% CaCl
4 1/2"	10.5	7609'	7 7/8"	1st 350 sks 50/50 poz.
THIRD STAGE: 200 sks Halliburton lite, and 100 sks Neat cement.			2nd 475 sks 50/50 poz.	50 sks Class "H" w/2% CaCl

LINER RECORD				TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SIZE	DEPTH SET (MD)	PACKER SET (MD)
				2 3/8"	7341'	7341'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5381', 85', 88', 91', 97', 5402', 06', 17', 25', 34', 41', 51', 56', 65', 80', 85', 97', 5509', 13', 22' (Mesaverde; 20-1/2" holes). 7520-41', 7553-55', 7559-75', 7385-94', 7396-7404', 7414-7421', 28' (Dakota, 60-1/2" holes)		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		5381-5522'	None
		7385-7575'	3500 gallons 15% HCl, 73836 galled water, 208,000# sand

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flow				WELL STATUS (Producing or shut-in) shut-in	
DATE OF TEST 6/9/81	HOURS TESTED 3	CHOKE SIZE 3/4	PROD'N. FOR TEST PERIOD →	OIL—BBL. 0	GAS—MCF. 119	WATER—BBL. 0	GAS-OIL RATIO →
FLOW. TUBING PRESS. 200	CASING PRESSURE →	CALCULATED 24-HOUR RATE →	OIL—BBL. →	GAS—MCF. 953	WATER—BBL. →	OIL GRAVITY-API (CORR.) →	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented	TEST WITNESSED BY Conrad Appledorn
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35. LIST OF ATTACHMENTS Choke, production unit	
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36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.	
SIGNED <i>Ronald R. [Signature]</i> TITLE Drilling & Production Engineer	DATE August 18, 1981

*(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 38; 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 5: 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.

Item 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 38. 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 33: "Pack Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 34: 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				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	DEPTH	TRUE VERT. DEPTH	
Ojo Alamo	2212'	2854'	Sand	Kirtland	2854'	2804'	
Kirtland	2854'	3003'	Shale	Picture Cliffs	3198'	3151'	
Fruitland	3003'	3198'	Shale & Coa	Manefee	4943'	4864'	
Picture Cliffs	3198'	3303'	Sand	Dakota	7382'	7269'	
Lewis	3303'	4077'	Shale				
Chacra	4077'	4863'	Sand				
Cliffhouse	4863'	4943'	Sand				
Manefee	4943'	5378'	Sand, shale & coa				
Point Lookout	5378'	5532'	Sand				
Upper Mancos	5532'	6419'	Shale				
Gallup	6419'	6917'	Shale & Sand				
Lower Mancos	6917'	7298'	Shale				
Greenhorn	7298'	7360'	Limy shale				
Graneros	7360'	7382'	Shale				
Dakota	7382'	TD	Sand & some shale				