

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(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 ☒ DAY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR
Southern Union Exploration Company

3. ADDRESS OF OPERATOR
1217 Main Street, Dallas, Texas 75202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1095' FNL & 790' FEL

At top prod. interval reported below

At total depth

Corrected and to be sent in

14. PERMIT NO. DATE ISSUED

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.

15-E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 1, 15N, R5W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED 10/27/80 16. DATE T.D. REACHED 11/20/80 17. DATE COMPL. (Ready to prod.) 6/2/81 18. ELEVATIONS (DF, RKB, RT, GR, 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, ROTARY TOOLS, CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5381-5522' Mesaverde
7385-7575' Dakota

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Electric, Densilog

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
8 5/8"	24	97	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	
				2nd 475 sks 50/50 poz	
				50 sks Class "H" w/2% CaCl	18,000#

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	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 gelled 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	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6/9/81	3	3/4		0	119	0	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
200	---			953			

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

35. LIST OF ATTACHMENTS
Choke, production unit

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED *Ronald M. Smith* TITLE Drilling & Production Engineer
DATE August 18, 1981

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

NMOCC

BY

Sum

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

DESCRIPTION, CONTENTS, ETC.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ojo Alamo	2212'	2854'	Sand
Kirtland	2854'	3003'	Shale
Fruitland	3003'	3198'	Shale & coal
Picture Cliffs	3198'	3303'	Sand
Lewis	3303'	4077'	Shale
Chacra	4077'	4863'	Sand
Cliffhouse	4863'	4943'	Sand
Manefee	4943'	5378'	Sand, shale & coal
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

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Kirtland	2854'	2804'
Picture Cliffs	3198'	3151'
Manefee	4943'	4864'
Dakota	7382'	7269'