

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Southern Union Production Company				Address P. O. Box 308 - Farmington, New Mexico			
Lease Huerfanito Unit		Well No. 78	Unit Letter B	Section 36	Township 27 North	Range 9 West	
Date Work Performed		Pool Basin Dakota - Blanco-Mesaverde			County San Juan		
THIS IS A REPORT OF: (Check appropriate block)							
☐ Beginning Drilling Operations		☐ Casing Test and Cement Job		☒ Other (Explain):			
☐ Plugging		☐ Remedial Work		Supplemental Well History			
Detailed account of work done, nature and quantity of materials used, and results obtained.							
1. Drilled 7-7/8" hole to T.D. of 6720 ft. with mud. 2. Ran 60 joints 5-1/2" O.D., 17.0#, J-55 casing and 146 jts. 5-1/2" O.D., N-80 used casing. Landed at 6720 ft. R.K.B. Baker stage collars at 4679 ft. and 2147 ft. R.K.B. Cemented 1st stage w/320 cu. ft. 1-1 Diamix w/2% Gel., 12 1/2# gilsonite, 5# salt/sk. and 1/2% D-15. Plug down 6:15 P.M. 3/16/64. Opened stage collar at 4679 ft. and cemented 2nd stage w/425 cu. ft. 1-1 Diamix class "C" w/2% gel, 12 1/2# gel, 12 1/2# gilsonite, 5# salt/sk. and 1/2% D-15. Plug down 7:30 P.M. 3/16/64. Opened stage collar at 2147 and cemented 3rd stage w/800 cu. ft. 40% Diacel "D" class "C" w/12 1/2# gilsonite/sk and 4% C.C. Plug down 9:15 P.M., 3/16/64. 3. Cleaned out to P.B.T.D. of 6684. Pressure tested casing to 4500 psi for 15 minutes. Test O.K. 4. Circulated hole w/1% C.C. water and spotted 250 gal. of 7% mud acid. 5. Ran cement bond log and correlation log. 6. Perf. 6 holes/ft. 6597-6599, 6576-6580, 6547-6549. 7. Sand-Water CO ₂ Frac. w/25,000# 40-60 mesh sand and 10,000# 20-40 mesh sand and 42,420 gal. water containing 15#/1000 gal. WAG-8 and 4#/1000 gal. FR-4 and 3,663 gal. liquid CO ₂ . (OVER)							
Witnessed by Pete Blackburn		Position Pusher		Company S. S. Reames Well Service			
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY							
ORIGINAL WELL DATA							
D F Elev.		T D		P B T D		Producing Interval	
Completion Date		Tubing Diameter		Tubing Depth		Oil String Diameter	
Oil String Depth		Perforated Interval(s)		Open Hole Interval		Producing Formation(s)	
RESULTS OF WORKOVER							
Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD	
Before Workover							
After Workover							
OIL CONSERVATION COMMISSION				I hereby certify that the information given above is true and complete to the best of my knowledge.			
Approved by Original Signed By A. R. KENDRICK				Name D. G. May <i>Gilbert Roland J.</i>			
Title PETROLEUM ENGINEER DIST. NO. 3				Position Petroleum Engineer			
Date MAY 4 1964				Company Southern Union Production Company			

8. Set Baker Bridge plug at 6515 ft. R.K.B.
9. Perforated 1 hole/ft. 6494-6467, 6414-6397. Pumped in 750 gallons 7½% mud acid. Sand-water CO₂ Frac perfs w/40,000# 20-40 mesh sand and 20,000# 10-20 mesh sand and 61,760 gal. water containing 4# FR-4/1000 gal. and 4,225 gal liquid CO₂. Break down press. 3000 psi, Max treat press 3600 psi, Min. treat press 2800 psi. 5 min. shut in 1250 psi. Avg. inj. rate 50 B.P.M.
10. Set Baker Bridge plug at 4470 ft.
11. Perforated Mesa Verde 1 hole/ft. 4448-4442, 4434-4420, 4415-4411, 4395-4387, 4378-4365, 4353-4337, 4330-4324. Pumped in 750 gal. 7½% mud acid. Sand-Water CO₂ Frac Mesaverde w/60,000# 20-40 mesh sand and 30,000# 10-20 mesh sand and 80,090 gal. water. Containing 4# FR-4/1000 gal. and 7949 gal. liquid CO₂. B.D.P. 2700 psi., Max. treat press. 2250 psi. Min. treat press 2000 psi. 050¼ 950 psi, 5 min shut in 700 psi. Avg. inj. rate 57 BPM. Dropped 36 rubber balls.
12. Drilled Bridge plugs and cleaned out to P.B.T.D. of 6684 ft.
13. Ran Baker Model "D" Production packer and set at 6388 ft. R.K.B.
14. Ran 192 joints 1½" O.D., 2.90#, JCN Tubing to Dakota. Landed at 6428 ft. R.K.B.
15. Ran 135 joints 1-1¼" O.D., 2.30# I.J. tubing to Mesaverde. Landed at 4377 ft. R.K.B.
16. Well complete 3/31/64.

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