

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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DEC 7 1981

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-6-81		O. C. D. ARTESIA, OFFICE	
Company Mesa Petroleum Co.				Connection Unconnected			
Pool Undesignated ABO				Formation ABO		Unit	
Completion Date 11-6-81		Total Depth 4800		Plug Back To 4739		Elevation 3676	
Csg. Size 4 1/2		Wt. 10.5#		Set At 4796		Perforations: From 4502 To 4509.5	
Trq. Size 2 3/8		Wt. 4.7#		Set At 4404		Perforations: From open ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 100 #		Mean Annual Temp. °F 60		State New Mexico	
L 4404		H 4404		Gg .65		Prover 2" Orifice Well Tester	
				% CO ₂ 1		% N ₂ 1	
				% H ₂ S		Meter Run	
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	2" Orifice	1"	14		54		72 hr.
2.	Well						1 hr.
3.	Tester						
4.							
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	544	2" Orifice	Well	1.0058	.9608		526
2.		Tester					
3.							
4.							
5.							
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.					Specific Gravity Separator Gas _____ X X X X X X X X		
3.					Specific Gravity Flowing Fluid _____ X X X X X		
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.		
5.					Critical Temperature _____ R _____ R		
P _c	928	P _c ²	861				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2178$		
1.		393	154	707	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2178$		
2.							
3.							
4.					AOIF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 640$		
5.							
Absolute Open Flow 640				Mcfd @ 15.025		Angle of Slope θ 450	
						Slope, n 1	
Remarks: Unable to run four flow rates due to low delivery of well. Assumed n=1 and based calculations on one point test.							
Approved By Commission:		Conducted By: James Craig		Calculated By: 11-23-81 E.L. Buttross, Jr.		Checked By:	

XC: NMOCD (6), TLS, CEN RCDS, ACCTG, ROSWELL, MEC, LAND, PARTNERS, D&M, LMC, CTY, EEB, TW, K, REM, FILE

Mr. Petroleum Co.
Acme No. 4
Sec. 30, T8S, R26E
Chaves Co., NM
11-6-81

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