

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

Form C-122
Revised 9-1-66

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-20-81		JAN 6 1982	
Company Mesa Petroleum Co., Inc.				Connection Unconnected		O. C. D.	
Pool Undesignated ABO				Formation ABO		Field ARTESIA, OFFICE	
Completion Date 11-20-81		Total Depth 3850		Plug back To 3809		Elevation 3700	
Csg. Size 4 1/2		Wt. 10.5#		Set At 3850		Perforations: From 3435 To 3691	
Tub. Size 2 3/8		Wt. 4.7#		Set At 3308		Perforations: From open ended To	
Type Well - Single - Prodenhead - G.O. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 100 @ 3850		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 3308		H 3308		G _g .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
				Prover 2" Orifice Well Tester		Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							775		780		24 hr. SI
1.	2" Orifice	3/4		32		52	285		275		1 hr.
2.	Well										
3.	Tester										
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd
1	545	2" Orifice Well		1.0078	.9608		528
2.		Tester					
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mhd/Lbl.
1.					A.P.L. 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 793	P _w 629	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1648$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1648$
NO.	P _t	P _w	P _w ²
1		298	89
2			
3			
4			
5			

Absolute Open Flow 620 Mhd @ 15,025		Angle of Slope θ 450	Slope, n 1
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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: _____	Conducted By: James Craig	Calculated By: E.L. Buttross, Jr.	Checked By: _____
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