

1-7 file
1-C-122

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NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Form C-122
Revised 9-1-65

APR 20 1979

O. C. C.

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-20-79		ARTESIA, OFFICE	
Company McClellan Oil Corporation				Connection None		SPUD DATE: 2-14-79	
Pool Lund				Formation Abo		Unit 4	
Completion Date 3-20-79		Total Depth 4472		Plug Back TD 4422		Elevation 3663 ft.	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4472		Perforations: From 4257 To 4272	
Tub. Size 2 3/8"		Wt. 4.7#		Set At 4200		Perforations: From Open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Turn or Lease Name Tolmac State	
Producing Thru Tubing		Reservoir Temp. °F 117 @ 4259.5		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L		H		G _g .671		% CO ₂ 3.07	
				% N ₂ 5.55		% H ₂ S	
				Prover 6" Choke Nipple		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
51	6" Choke Nipple										
1.	1/8			930		38	930		942		1 hr.
2.	3/16			831		41	831		844		1 hr.
3.	7/32			625		45	620		625		1 hr.
4.	1/4			365		50	365		367		1 hr.
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	.2618		943.2	1.022	1.221	1.109	342
2	.6110		844.2	1.019	1.221	1.094	702
3	.8419		638.2	1.015	1.221	1.068	711
4	1.112		378.2	1.010	1.221	1.038	538
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1	1.40	498	1.37	.813						
2	1.26	501	1.38	.835						
3	.95	505	1.39	.877						
4	.56	510	1.40	.929						
5										

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1		955.2	912.4	112.1	9.139	3.023
2		857.2	734.8	289.7		
3		638.2	407.3	617.2		
4		380.2	144.6	879.9		
5						

Absolute Open Flow				Angle of Slope	
1,034 Mcfd @ 15.025				63.5	
				Slope, n = .500	

Remarks:			
Approved By: _____	Conducted By: _____	Calculated By: _____	Checked By: _____