

c/5f
F. 12

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 11-23-86			
Company MOROILCO				Connection TO AIR		APR 20 '88	
Pool MOROILCO				Formation ARL		Unit O. C. D. ARTESIA OFFICE	
Completion Date 11-21-86		Total Depth 0		Plug Back TD		Elevation	
Ceq. Size 4.5000		Wt. 10.50		Set At		Perforations: From 6488-6512 To	
Thg. Size 2.3750		Wt. 4.70		Set At 6387		Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 6384		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 135 6500		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.20	
L 6500		H 6500		G _g 0.703		% CO ₂ 0.13	
				% N ₂ 4.52		% H ₂ S 0	
				Prover 0		Meter Run 3.1	
						Taps FLANGE	

FLOW DATA						TUBING DATA		BHP 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							1637	56	2007	135	72 HRS.
1.	3.07		1.000	195	10.0	38	1582	48	1952	135	60 MIN
2.	3.07		1.000	200	31.0	42	1540	45	1905	135	60 MIN
3.	3.07		1.000	200	68.0	40	1499	40	1848	135	60 MIN
4.	3.07		1.000	400	71.0	36	1432	40	1766	135	60 MIN
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.79	45.63	208.2	1.0218	1.1927	1.0260	273
2	4.79	81.30	213.2	1.0178	1.1927	1.0261	485
3	4.79	120.41	213.2	1.0198	1.1927	1.0263	720
4	4.79	171.28	413.2	1.0239	1.1927	1.0540	1056
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/bbl.	Deg.
1	0.32	498	1.32	0.950	112.833	75.0	0.703	XXXXXX	660	378	XXXXXX	XXXXXX
2	0.32	502	1.33	0.950				XXXXXX				
3	0.32	500	1.32	0.949				XXXXXX				
4	0.63	496	1.31	0.900								
5												

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	1591	2533	139	4.5970	4.2168
2	1555	2417	255		
3	1510	2280	392		
4	1446	2091	581		
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Absolute Open Flow 4452 Mcfd @ 15.025				Angle of Slope 46.7		Slope, n 0.943	
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Remarks: PRODUCED (1) ONE BBL CONDENSATE DURING TEST USED AMARADA PRESSURE INSTRUMENT TO OBTAIN BHP			
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Approved By Division	Conducted By:	Calculated By:	Checked By:
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