

1-2-78
1-C-122
Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 6-29-78		JUL 12 1978	
Company Mesa Petroleum Company			Connection Air		
Pool Undesignated			Formation Morrow		
Completion Date		Total Depth 12,		Plug Back TD 12,115	
				Elevation 3146	
Csg. Size 4 1/2		Wt. 11.6		Set At 12205	
Trg. Size 2 3/8		Wt. 4.7		Set At 11,656	
Perforations: From 11,716 To 11,990		Perforations: From To		Well No. # 1	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,656		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 191 @ 11,656		Buro. Press. - P ₀	
L 11,656		H 11,656		G _g .591	
				% CO ₂	
				% N ₂	
				% H ₂ S	
				Prover	
				Meter Run 2"	
				Taps Flange	

NO.	FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
	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							3090				72 Hr
1.	2	X	1.00	41	12	73	761				2 Hr
2.	2	X	1.00	41	16	73	760				2 Hr
3.	2	X	1.00	40	18	75	675				2 Hr
4.	2	X	1.00	40	30	73	650				
5.											

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, Mcfd
2	4.946	29.45	54.2	.9877	1.301	N.L	187
3	4.946	30.89	53.2	.9859	1.301	N.L	196
4	4.946	39.95	53.2	.9874	1.301	N.L	254
5							

NO.	F _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/ebl.
1.				N.L	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.				N.L	Specific Gravity Separator Gas .591 X X X X X X X X
3.				N.L	Specific Gravity Flowing Fluid X X X X X
4.				N.L	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 354 R _____ R

P _c 3103.2 P _w ² 9629.9						
NO.	F _r	F _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.048$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.048$
1		774.9	600.4	9029.5		
2		774.1	599.2	9030.7		
3		689.3	475.1	9154.8		
4		665.1	442.3	9187.6		
5						

Absolute Open Flow 266 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.00

Remarks: Point Alignment Too Flat A Slope Of 45 Was Drawn High Rate Of Flow

Approved By Commission:	Conducted By: Larry Davis	Calculated By: Larry Davis	Checked By:
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