

MULTIPOINT AND SINGLE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-122
Revised 6-1-82

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 6-1-82	
Company: MESA PETROLEUM				Connection: El Paso Natural Gas		
Pool: BASIN DAKOTA				Formation: DAKOTA		Unit:
Completion Date: 5/24/82		Total Depth: 7490.		Plug Back TD: 7402.		Elevation: 6325.
Csg. Size: 4.500		Wt.: 10.5	d: 4.052	Set At: 7480.	Perforations: From 7248. To 7261.	
Tub. Size: 2.063		Wt.: 3.2	d: 1.751	Set At: 7223.	Perforations: From 7334. To 7355.	
Type Well - Single - Froesehead - G.C. or G.O. Multiple: FLOWING				Packer Set At: 7121.		County: SAN JUAN
Producing Thru TUBING		Reservoir Temp. °F: 65. # 7302.		Mean Annual Temp. °F: 60.0		Baro. Press. - P _a : 12.2
L: 7302.		H: 7302.	G _g : 0.650	% CO ₂ : 0.	% N ₂ : 0.	% H ₂ S: 0.
				Prover: 0.	Meter Run: 0.	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							1875.	80.			68.0
1.	2.00	X	0.750	92.	0.	65.	92.	65.	0.	0.	3.0
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	10.54	0.	104.2	0.9952	1.2403	1.0101	1422.
2.							
3.							
4.							
5.							

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
1	0.16	525.	1.40	0.980	0.	0.650	0.650	0.650	670.	374.
2.										
3.										
4.										
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	11.	338.	114.	336.	1.0321	1.0239
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1456.$

Absolute Open Flow	1456.	Mcf/d @ 15.025	Angle of Slope @	53.1	Slope, Q = 750
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Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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