

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-102
Revised 6-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 6-1-82	
Company: MESA PETROLEUM				Connection: El Paso Natural Gas		
Pool: BLANCO MESA VERDE				Formation: MV		Unit: C
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 5186. To 5200.
Trq. Size: 1.660		Wt.: 2.3	d: 1.380	Set At: 2991.		Perforations: From 0. To 0.
Type Well - Single - Bradenhead - G.C. or G.O. Multiple: FLOWING				Packer Set At: 0.		County: SAN JUAN
Producing Thru: TUBING		Reservoir Temp. °F: 135.° 5193.		Mean Annual Temp. °F: 60.0		Baro. Press. - P _a : 12.2
L: 5193.		H: 5193.	G _g : 0.650	% CO ₂ : 0.	% N ₂ : 0.	% H ₂ S: 0.
Prover: 0.		Meter Run: 0.		Taps: 0.		

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							900.	60.			168.0
1.	2.00	X	0.750	100.	0.	60.	100.	60.	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 F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	10.94	0.	112.2	1.0000	1.2403	1.0112	1540.
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.	0.17	520.	1.39	0.978	0.	0.650	0.650	670.	374.	374.
2.										
3.										
4.										
5.										

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²
1	13.	321.	103.	729.
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1418$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1701.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1046$

Absolute Open Flow: 1701. Mcfd @ 15.025	Angle of Slope @: 53.1	Slope, n: 0.750
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Remarks:

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