

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND OPEN POINT BACK PRESSURE TEST FOR GAS WELL

Form O-172
 Revised 6-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-11-78	
Company Amoco Production Company				Connection El Paso Natural Gas Comp.	
Pool Jalmat				Unit Yates	
Completion Date 7-26-78		Total Depth 3456		Elevation 3316	
Csg. Size 5.500		Set At 3456		Perforations: From 2977 To 3207	
Tub. Size 2.375		Set At 2890		Perforations: From 0 To 0	
Type Well - Single - Bronzed - G.O. or G.O. Multiple Single				Packer Set At 0	
Producing thru Tubing		Reservoir Temp. °F 93 @ 3092		Boro. Press. - P ₀ 13.2	
L 3092		H 3092		Prover 0	
G ₂ 0.682		% CO ₂ 0.33		% H ₂ S 0	
Meter Run 4.0		Taps Flange			

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.	
1.	4.03 x 2.000		16	4.0	46	182	30	0	0	144.0
2.	4.03 x 2.000		16	9.0	47	175	35	0	0	0.5
3.	4.03 x 2.000		16	18.5	50	170	44	0	0	0.5
4.	4.03 x 2.000		16	34.8	54	159	50	0	0	0.5
5.						140	54	0	0	0.5

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, Mscf/d
1.	19.81	10.81	29.2	1.0137	1.2109	1.0034	264
2.	19.81	16.21	29.2	1.0127	1.2109	1.0033	395
3.	19.81	23.24	29.2	1.0098	1.2109	1.0033	565
4.	19.81	31.88	29.2	1.2109	1.2109	1.0032	772
5.							

NO.	P ₀	Temp. °R	T ₀	Z	Gas Liquid Hydrocarbon Ratio _____ 0 _____ Mol/Liq.	
1.	0.04	506	1.33	0.993	A.P.L. Gravity of Liquid Hydrocarbons _____ 0 _____ Deg.	
2.	0.04	507	1.34	0.993	Specific Gravity Separator Gas _____ 0.682 _____	
3.	0.04	510	1.35	0.993	Specific Gravity Flowing Fluid _____ XXXXX _____	
4.	0.04	514	1.36	0.994	Critical Pressure _____ 667 _____ P.S.I.A. _____ 667 _____ P.S.I.A.	
5.					Critical Temperature _____ 379 _____ R _____ 379 _____ R	

P ₀ 195.7	P _w 38	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.4171$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6237$	
NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	35	190	36	2	
2	34	188	35	3	
3	30	181	33	5	
4	23	172	30	9	
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2025$		
Absolute Open Flow _____ 2025 _____ Mscf @ 15.025	Angle of Slope θ _____ 57.0°	Slope, n _____ 0.649

Remarks: _____

Approved By Consultant _____	Conducted By _____ John West Engineering	Calculated By _____ CCW	Checked By _____ RMB
------------------------------	--	-------------------------	----------------------