

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR S WELL

Form C-122
 Revised 6-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-23-78	
Company Amoco Production Company				Connection El Paso Natural Gas Company		
Pool Jalmat				Formation Yates Seven Rivers		Unit
Completion Date 7-6-78		Total Depth 3712		Plug Back TD 3664		Elevation 3158
Csg. Size 5.500	Wt. 14.0	d 5.012	Set At 3712	Perforations: From 2986 To 3130		Well No. 1
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 2800	Perforations: From 0 To 0		Unit Sec. Twp. Rge. N 9 25S 37E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 0		County Lea
Producing Thru Tubing		Reservoir Temp. °F 89 @ 3058		Mean Annual Temp. °F 60.0		Boro. Press. - P ₀ 13.2
State New Mexico						
L 3058	H 3058	G _g 0.944	% CO ₂ 1.47	% N ₂ 1.45	% H ₂ S 0.06	Prover 0
Meter Run 4.0		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.		Temp. °F
SI							158	39			73.0
1.	4.03		1.500	32	4.0	47	151	39	0	0	1.0
2.	4.03		1.500	33	9.0	47	141	42	0	0	0.7
3.	4.03		1.500	33	16.0	47	139	42	0	0	0.7
4.	4.03		1.500	34	24.0	47	130	42	0	0	0.7
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 _{sp}	Rate of Flow Q, Mhd
1	10.84	13.45	45.2	1.0127	1.0292	1.0101	153
2	10.84	20.39	46.2	1.0127	1.0292	1.0103	233
3	10.84	27.19	46.2	1.0127	1.0292	1.0103	310
4	10.84	33.66	47.2	1.0127	1.0292	1.0105	384
5.							

NO.	P ₀	Temp. °F	T ₀	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.	0.07	507	1.10	0.980	0	0	0.944	XXXXX	660	460
2.	0.07	507	1.10	0.980				XXXXX		
3.	0.07	507	1.10	0.980						
4.	0.07	507	1.10	0.979						
5.										

NO.	P ₀	P _w	P _w ²	P ₀ ² - P _w ²
1	27	165	27	2
2	24	157	25	5
3	23	156	24	5
4	21	150	22	7
5				

(1) $\frac{P_0^2}{P_0^2 - P_w^2} = 4.1861$

AOF = 0 $\left[\frac{P_0^2}{P_0^2 - P_w^2} \right]^n = 1128$

(2) $\left[\frac{P_0^2}{P_0^2 - P_w^2} \right]^n = 2.9345$

Absolute Open Flow	1128	Mhd @ 15.025	Angle of Slope	53.1	Slope, n	0.752
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Remarks:

Approved By Commission:	Conducted By: John West Eng.	Calculated By: CCW	Checked By: RMB
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