

MULTIPOINT AND ONE POINT BACK PRESSURE TEST OR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-13-81		MAY 19 1981	
Company EL PASO NATURAL GAS COMPANY		Connection EL PASO NATURAL GAS COMPANY		C. C. D.	
Pool Baldridge Canyon		Formation Morrow		Unit L	
Completion Date 1-17-81		Total Length 10,695		Plug Back TD 10,740	
Elevation		Farm or Lease Name Jurnegan State COM			
Ceq. Size 4 1/2	Wt. 11.6	d 1.995	Set At 10,729	Perforations: From 10,580 To 10,683	
Trg. Size 2318	Wt. 4.7	d 1.995	Set At 10,520	Perforations: From Open To End	
Type Well - Single - Ironhead - G.C. or G.O. Multiple Single		Packer Set At 10,500		County Eddy	
Producing Thru Tbg.		Temp. *F 179		Mean Annual Temp. *F 10,500(est.)	
Bare. Press. - P _a 13.2		State New Mexico			
10,500	H 10,500	G _g .574	% CO ₂ .94	% N ₂ .25	% H ₂ S
Prover		Meter Run 4		Taps Fig.	

FLOW DATA						TUBING DATA		CASING DATA		Duration	
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	of Flow
SI							3105				24 hrs.
1.	4 X 1.250			537	6.76	78	2948				
2.	4 X 1.250			540	10.89	68	2876				
3.	4 X 1.250			545	28.09	67	2649				
4.	4 X 1.250			555	57.76	67	2372				
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compres. Factor, Fpv	Rate of Flow Q, Mscf
1	7.469	60.99	550.2	.9831	1.320	1.038	614
2	7.469	77.62	553.2	.9924	1.320	1.040	790
3	7.469	125.22	558.2	.9933	1.320	1.041	1277
4	7.469	181.16	568.2	.9933	1.320	1.320	1850
5							

NO.	P ₁	Temp. *R	T	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/Std.
1	.82	538	1.55	.928	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2	.82	528	1.53	.924	Specific Gravity Separator Gas	.574	XXXXXX
3	.83	527	1.52	.922	Specific Gravity Flowing Fluid	XXXXXX	
4	.85	527	1.52	.920	Critical Pressure	672	P.S.I.A.
5					Critical Temperature	346	R

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀	P ₁₁	P ₁₂	P ₁₃	P ₁₄	P ₁₅	P ₁₆	P ₁₇	P ₁₈	P ₁₉	P ₂₀
1		2963.9	8784.7	938.5																
2		2892.8	8368.3	1354.9																
3		2672.1	7140.1	2583.1																
4		2397.0	5745.6	3977.6																
5																				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.444$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.050$

AOR = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.793$

Absolute Open Flow		3,793	Mscf @ 15.025	Angle of Slope θ	51.25	Slope, n	.803
Remarks: No fluid made during test.							
Approved By Division		Conducted By:		Calculated By:		Checked By:	
		Reston & Townley		Reston			