

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-4-73	
Company El Paso Natural Gas Company				Connection None	
Pool Jalmat				Formation Yates	
Completion Date 9-7-73		Total Depth 3143		Plug Back TD 3126	
				Elevation 2996.8	
Farm or Lease Name Rhodes Storage G. U.				Well No. No. 4	
Csg. Size 4 1/2	Wt. 10.5	d 3142	Set At 3142	Perforations: From 2823 To 3116	
Tbg. Size 2 3/8	Wt. 4.7	d 2771	Set At 2771	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Tbg		Reservoir Temp. °F @		Baro. Press. - P _a	
Mean Annual Temp. °F		State New Mexico		County Lea	
Gg L		H H		Prover 2"	
Assumed .655		% CO ₂		% H ₂ S	
Meter Run		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							390		390		48 hr.
1.	2 x 1/8					83	375		377		45 Min
2.	2 x 3/16					83	365		366		45 Min
3.	2 x 7/32					80	355		357		30 Min
4.	2 x 1/4					80	342		345		45 Min
5.	2 x 3/8					79	219		281		1 Hr.

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 _{pv}	Rate of Flow Q, Mcfd
1.	.2648		388.2	.9786	1.236	1.035	129
2.	.6082		378.2	.9786	1.236	1.034	288
3.	.8393		368.2	.9813	1.236	1.033	387
4.	1.087		355.2	.9813	1.236	1.032	483
5.	2.378		232.2	.9822	1.236	1.021	684

NO.	P _t	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcfd/bbl.
1.	.58	543	1.45	.933	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.56	543	1.45	.936	Specific Gravity Separator Gas	.655	X X X X X X X X
3.	.55	540	1.44	.937	Specific Gravity Flowing Fluid	X X X X X	
4.	.53	540	1.44	.939	Critical Pressure	670	P.S.I.A.
5.	.35	539	1.44	.959	Critical Temperature	375	P.S.I.A.

P _c 403.2	P _c 162.6		
NO.	P _t ²	P _w ²	P _t ² - P _w ²
1		390.2	152.3
2		379.2	143.8
3		370.2	137.0
4		358.2	128.3
5		294.2	86.6

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = \underline{4.741}$

AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = \underline{1.960}$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = \underline{4.057}$

Absolute Open Flow	1,960	Mcfd @ 15.025	Angle of Slope @	48	Slope, n	.900
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Remarks:

Approved By Commission	Conducted By: Randy Kiker	Calculated By: Randy Kiker	Checked By:
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