

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 10-10-68	
Company Petroleum Corp. of Texas				Connection El Paso Natural Gas Company			
Pool Jalmat				Formation Yates		Unit	
Completion Date 6-13-50		Total Depth 3235		Plug Back TD		Elevation 3326 GR.	
Csg. Size 5 1/2		Wt. 14		Set At 5.012		Perforations: From 2998 To 3235	
Tbg. Size 2 3/8		Wt. 4.7		Set At 1.995		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
L		H		G _g .695		% CO ₂ % N ₂ % H ₂ S	
Prover						Meter Run X	
Taps Flg.						County Lea	
State New Mexico							

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							232		232		72
1.	4"	X	1.000	146	28.09	68	157		200		1
2.	4"	X	1.000	145	49.00	74	154		194		1
3.	4"	X	1.000	138	65.61	76	145		188		1
4.	4"	X	1.000	119	84.64	80	130		182		1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	66.87	159.2	.9924	1.200	1.018	385.3
2	4.753	88.04	158.2	.9863	1.200	1.017	504.0
3	4.753	99.60	151.2	.9850	1.200	1.017	569.1
4	4.753	105.78	132.2	.9813	1.200	1.014	600.4
5							

NO.	P _t	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	.25	528	1.36	.965	Dry		.695			
2	.25	534	1.38	.966						
3	.24	536	1.38	.967						
4	.21	540	1.39	.972						
5										

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²
1	25.3	213.2	45.5	14.6
2	25.0	207.2	42.9	17.2
3	22.9	201.2	40.5	19.6
4	17.5	195.2	38.1	22.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.732$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,107$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.844$

Absolute Open Flow	1,107	Mcfd @ 15.025	Angle of Slope °	56.0	Slope, n	.675
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Remarks:

Approved By Commission:	Conducted By: J. B. Murray	Calculated By: J. B. Murray	Checked By:
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