

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-26-82		JUN 1 1982	
Company W. A. MONCRIEF, JR. ✓				Connection EPNG			
Pool Baldrige Canyon <i>Morrow</i>				Formation Morrow		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 5-12-82 5-26-82		Total Depth 11140		Plug Back TD 11131		Elevation 4518 G.L.	
Casing Size 4 1/2		Set At 11148		Perforations: From 10953 To 10959		Well No. 1	
Tubing Size 2 3/8		Set At 10842		Perforations: From To		Unit Sec. Twp. Age J 14 24 24	
Type of Test - Single - Brdenhead - G.C. or G.O. Multiple Single				Packer Set At 10842		County Eddy	
Producing Thru Tbg. 10842		Reservoir Temp. °F 183 @ 10953		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 10842		H 10842		C _g .575		% CO ₂ 1.23	
				% N ₂ .19		% H ₂ S -0-	
				Prover		Meter Run 4"	
						Taps Flg.	

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							2952		PKR		24 hrs.
1.	4 X 1.000			669	3.24	99	2899		"		1 hr.
2.	4 X 1.000			689	9.00	92	2817		"		1 hr.
3.	4 X 1.000			698	20.25	90	2684		"		1 hr.
4.	4 X 1.000			708	49.00	87	2404		"		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	47.01	682.2	.9645	1.319	1.041	296
2.	4.753	79.50	701.2	.9706	1.319	1.042	504
3.	4.753	120.00	711.2	.9723	1.319	1.043	763
4.	4.753	187.99	721.2	.9750	1.319	1.043	1198
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	1.02	559	1.62	.922	Specific Gravity Separator Gas .575	XXXXXX
2.	1.04	552	1.60	.921	Specific Gravity Flowing Fluid XXXXX	
3.	1.06	550	1.59	.919	Critical Pressure 672 P.S.I.A.	P.S.I.A.
4.	1.07	547	1.58	.919	Critical Temperature 346 R	R
5.						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	2965.2	2912.7	8484.0	308.4
2	8792.4	2831.8	8019.0	773.4
3		2701.0	7295.4	1497.0
4		2427.5	5892.9	2899.5
5				

$$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 3.032$$

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.458$$

$$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.052$$

Absolute Open Flow	2,458	Mcfd @ 15.025	Angle of Slope @	57.0	Slope, n	.648
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Remarks: Made no fluid during test.

Approved by Division	Conducted by: EL PASO EXPLORATION CO. Rea & McMurray	Calculated by: EL PASO EXPLORATION CO. Joe B. Murray	Checked by:
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