

MULTIPOINT AND ONE POINT BACK PRESSURE-TEST FOR GAS WELL

Revised 7-1-65

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 7-19-82		AUG 5 1982	
Company: JACK GRYNBERG & ASSOC.				Connection: TRANSWESTERN PIPELINE		O. C. D.	
Well: PECOS SLOPE				Formation: ABO		County: ARTESIA, OFFICE	
Completion Date: 1-29-82		Depth: 4152		Plug Back TD: 4066		Elevation: 4149 KB	
Well No. 1		Set At: 4066		Perforations: From 3664 To 3921		Trout Well Federal	
Log Size: 2.375		Set At: 3810		Perforations: From OPEN To ENDED		Unit: 0 Rods 29 5S 24E	
Type well - Single - Brazenhead - G.O. or G.O. Multiple: SINGLE				Factor Set At: NONE		County: CHAVES	
Producing Thru TUBING		Reservoir Temp. °F: 112		Mean Annual Temp. °F: 111		State: N.M.	
L: 3739		H: 3793		G _g : .685		Prover: 2.00	
				% CO ₂ : 1.55		% N ₂ : 9.99	
				% H ₂ S:		FLANGE	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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	
						945	111	976		816 HRS.
2.00	X	1-3/8	330	9.8	65	898	91	910	13/64	1 HR
2.00	X	1-3/8	340	34.3	57	844	90	855	16/64	1 HR
2.00	X	1-3/8	340	60.0	55	781	88	825	19/64	1 HR
2.00	X	1-3/8	355	93.0	60	694	88	735	22/64	1 HR

RATE OF FLOW CALCULATIONS

Coefficient (1.414)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow (bbl/d)
10.4600	57.99	343.2	.9952	1.2082	1.0281	750
10.4600	110.07	353.2	1.0029	1.2082	1.0320	1440
10.4600	145.57	353.2	1.0048	1.2082	1.0320	1908
10.4600	185.05	368.2	1.0000	1.2082	1.0320	2413

P _g	Temp. °F	T _g	Z	Gas-Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
.52	525	1.49				.6850		659	353
.54	517	1.46							
.54	515	1.46							
.56	520	1.47							

P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1088.6	1185.1				2.4740	2.1202
1009.4	1018.9	1018.9	166.0			
963.2	927.8	927.8	257.0			
909.8	827.8	827.8	357.0			
840.4	706.3	706.3	479.0			

$$A \Delta P = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5116.0$$

5116.0	Mold # 15.025	Angle of Slope θ	50.3	Slope, n	.8296
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Approved By: _____	Conducted By: DON BENNETT	Calculated By: BENNETT-CATHEY	Checked By: _____
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