

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 ☒ Spot Date: 11/28/75											
Company: Texas West Oil & Gas Corporation						Connection: El Paso Natural Gas Company					
Pool: Antelope Ridge						Formation: Atoka					
Completion Date: 11/28/75			Total Depth: 13,900			Perforations: 12,626			Perforations: 3465.6' GR		
Csg. Size: 3 1/2		Wt.:		Set At: 13,882		Perforations: From 12,350 to 12,426		Well No.: 1			
Tbg. Size: 2 7/8		Wt.:		Set At: 12,000		Perforations: From Open Ended To		Unit: E 2 24-S 34-E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set: 12,000			County: Lea		
Producing Thru: Tbg.			Reservoir Temp. °F: 225 @ 12,350			Mean Annual Temp. °F: 13.2			State: New Mexico		
L: 12,350		H: 12,350		Gg: .658		% CO ₂ :		% N ₂ : 1.05		Prover: 4" Flange	
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	Duration of Flow
SI							4270	62			
1.	4" X 1.250"			5.6	4.4	54	3015	64			1 Hr.
2.	4" X 1.250"			5.6	5.5	51	2100	63			1 Hr.
3.	4" X 1.250"			5.6	6.7	53	1590	63			1 Hr.
4.	4" X 1.250"			5.6	8.1	58	1190	63			1 Hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$ Fd	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd				
1.	7.469	3.162		1.006	1.218	1.035	738				
2.	7.469	3.162		1.009	1.218	1.036	926				
3.	7.469	3.162		1.007	1.218	1.036	1,126				
4.	7.469	3.162		1.002	1.218	1.034	1,352				
5.											
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ .674 X X X X X X X X Specific Gravity Flowing Liquid _____ X X X X X .674 Critical Pressure _____ 669 P.S.I.A. 668 P.S.I.A. Critical Temperature _____ 382 °R 379 °R						
1.	.47	514	1.36	.933							
2.	.47	511	1.35	.931							
3.	.47	513	1.35	.931							
4.	.47	518	1.37	.935							
5.											
P _c 6595 P _f 43,494					(1) $\frac{P_t^2}{P_f^2 - P_s^2} = 50.224$ (2) $\left[\frac{P_t^2}{P_f^2 - P_s^2} \right]^n = 8.999$						
NO.	P _t ²	P _s	P _s ²	P _t ² - P _s ²							
1.		6573	43,204	290							
2.		6557	42,994	500							
3.		6551	42,916	578							
4.		6529	42,628	866							
5.											
Absolute Open Flow 12,167 Meter @ 15.025 Angle of Slope @ 60.7° Slope, n .561											
Remarks: Bottom Hole Pressure was recorded @ '12,350' with an Amerado RPG-3 Instrument No. 34923 (0-10,000 PSI Range).											
Approved By Commission:				Conducted By: Cavaness & Hadorn				Calculated By: Harrington			
								Checked By: L.N. Dunnivant			