

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

Form C-122
Revised 9-1-63

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NEW MEXICO

Type Test ☐ Initial ☒ Annual ☐ Special				Test Date 1-17-73			
Company J. M. Huber Corporation				Connection El Paso Natural Gas Company		Date Jan. 20 1973	
Pool Washington Ranch Field				Formation Morrow		Unit H. H. G. ARTESIAN, GRACE	
Completion Date 7-2-72		Total Depth 8200		Plug Back TD 7723		Elevation	
Casing Size 4 1/2		Wt. 10.5		Set At 7723		Perforations: From 7126 To 7136	
Tubing Size 2 1/2		Wt. 6.5		Set At 7136		Perforations: From To	
Type Well - Single - Fractured - G.C. or G.O. Multiple Single Gas				Packer Set At 7.085		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 146		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 7131		H 7131		G _g 0.567		Prover 4	
				% CO ₂		% N ₂	
				% H ₂ S		Meter Run 4	
						Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration	
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	of Flow
1.	4	x	2.250	834.0	5.3"	91	1662	60			24
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mscf
1.	25.64	67.01	847.2	.9715	1.328	1.049	2325
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P _{sc} , P.S.I.A.	Critical Temperature T _{sc} , °R
1.	1.26	551	1.62	0.908						
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.	1873.2	2508.9	2845.4	668.5	5.288	12.295
2.						
3.						
4.						
5.						

Absolute Open Flow <u>12,295</u> Mscf @ 15.025				Angle of Slope θ <u>45</u>		Slope, n <u>1.000</u>	
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Remarks: <u>Witness: Dick Cook - El Paso Natural Gas Co.</u>	
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Approved by Commission:	Conducted By: Paul E. Cowern	Calculated by: Paul E. Powers	Checked by: <i>[Signature]</i>
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