

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

Form C-122
 Revised 9-1-63

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-26-79	
Company Robert L. J. Gregory Merrion & Bayless				Connection El Paso Natural Gas Co.			
Pool South Blanco				Formation Pictured Cliffs		Unit Canyon Largo	
Completion Date 12-09-79		Total Depth 2730		Plug Back TD 2685		Elevation 6494	
Cas. Size 2.875	Wt. 6.4 lb/ft	d 2.441"	Set At 2724	Perforations: From 2554 To 2577		Well No. 293	
Trq. Size None	Wt. None	d None	Set At None	Perforations: From To		Unit Sec. Twp. Rye. A 9 25N 6W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single				Packer Set At none		County Rio Arriba	
Producing Thru Casing		Reservoir Temp. °F 98° @ 2554 ft.		Mean Annual Temp. °F -		Baro. Press. - P _a 12.2	
L 2554		H 2554	G _g 0.675	% CO ₂ -	% N ₂ -	% H ₂ S -	Prover 2"
				Meter Run		Taps	

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									244	60	17 days
1.	2"		1.25"	62.5					62.5	60°	3 hours
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	27.63	-	74.7	1.000	1.217	1.003	2519
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u>	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons <u>Dry</u>	Deg.
2					Specific Gravity Separator Gas <u>.675</u>	
3					Specific Gravity Flowing Fluid <u>XXXXXX</u>	
4					Critical Pressure <u>XXXXXX</u> P.S.I.A.	
5					Critical Temperature <u>XXXXXX</u> °R	

$P_c = 256.2$ $P_c^2 = 65638$

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{(65638)}{(36986)}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.629$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4103 \text{ MCF/day}$

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1	5580	149	28652	36986
2				
3				
4				
5				

Absolute Open Flow	4103	Mcf/d @ 15.025	Angle of Slope @	Slope, n <u>0.85</u>
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Remarks: _____

Approved by Commission:	Conducted By: Steven S. Dunn	Calculated By: Steven S. Dunn	Checked By: J. Gregory Merrion
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