

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9/11/81	
Company Supron Energy Corporation		Connection	
Well Otero		Formation Chacra	
Completion Date 8/28/81	Total Depth 5165	Plug Back TD 5149	Elevation 6751 G
Farm or Lease Name Jicarilla L		Well No. 7	
Req. Size 4.500	Wt. 10.50	d 4.052	Set At 5158
Perforations: From 3534 To 3618		Well No. 7	
Req. Size 2.375	Wt. 4.7	d 1.995	Set At 3528
Perforations: From To		Unit Sec. Twp. Rge. L-34-25N-5W	
Type Well - Single - Broadhead - G.G. or G.O. Multiple G-G Multiple		Packer Set At 3500	
Producing Thru Tubing		County Rio Arriba	
Heatervolt Temp. *F B		State New Mexico	
Mean Annual Temp. *F		Baro. Press. - P _g	
L	H	Gg est. .650	% CO ₂ % N ₂ % H ₂ S Prover 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							462 (Ch)		742 (PC)		7 days
1.			.750	59		63	59	63	744 (PC)		3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		71	.9971	.9608	1.0000	841
2.							
3.							
4.							
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	P.S.I.A.	Critical Temperature	R
1												
2.												
3.												
4.												
5.												

NO.	F ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1	5041	121	14669	210007
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0699$

AOG = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 885$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0519$

Absolute Open Flow	885	Mcfd @ 15.025	Angle of Slope	Slope, n = .85
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Remarks: Trace of water and condensate.

Approved by Division	Conducted By: CRW	Calculated By: C.R. Kunkle	Checked By:
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