

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 ☐ Special					Test Date				
Company SUPRON ENERGY CORPORATION					Connection Southern Union Gathering Co.				
Pool Aztec					Formation Pictured Cliffs				
Completion Date 3/25/80		Total Depth 3065		Plug Back TD 3055		Elevation 6282		Farm or Lease Name Helms Federal	
Cbg. Size 2.875	Wt. 6.50	d 2.441	Set At 3062	Perforations: From 2851 To 2927				Well No. 2	
Tbg. Size No tubing was run		d	Set At	Perforations: From To				Unit K	Sec. 22
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At ---		County San Juan		
Producing Thru casing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 2839	H	G _g 0.620	% 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	2"		3/4"						896		7 days
1.									174		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	12.3650		186	1.0010	0.9837	1.015	2,299
2.							
3.							
4.							
5.							

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

P _c 908	P _c ² 824,464	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0703$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0594$
NO.	P _t ²	P _w	P _w ²
1			54,139
2			
3			
4			
5			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2436$	
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Absolute Open Flow 2436	Mcf/d @ 15.025	Angle of Slope θ 0.85
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Remarks:			
Approved By Commission:	Conducted By: Stanley Phillips	Calculated By: Kenneth E. Roddy	Checked By:

