

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 12-10-80	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 11-28-80		Total Depth 6305		Plug Back TD 6271		Elevation 5466	
Csg. Size 4.500		Wt. 10.50		Set At 4.052 6299		Perforations: From 6042 To 6144	
Tbg. Size 2.375		Wt. 4.70		Set At 1.995 6157		Perforations: No Perforations	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At -----		Well No. 1-E	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12	
L 6157		H		G _g 0.700		% 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	
1.	2"		3/4"				1093		1093		7 days
2.							76	71°	267		3 hours
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		88	0.9896	0.9258	1.000	997
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

$P_c = 1105$ $P_o^2 = 1,221,025$				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		279	77,841	1,143,184
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0681$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1047$

(2) $\left[\frac{P_c^2}{P_o^2} \right]^n = 1.0506$

Absolute Open Flow	1047	Mcfd @ 15.025	Angle of Slope @	Slope, n = 0.75
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Approved By Commission:	Conducted By: Cliff Gates	Calculated By: Kenneth E. Roddy	Checked By:
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