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

Form C-122
Revised 7-67

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7/22/81				
Company C. G. & S. Co.				Connection New					
Well 1				Formation Permian, Permian				Unit B	
Completion Date 7/22/81		Total Depth 1510		Plug Back TD 1501		Elevation 6572 G.L.		Farm or Lease Name N. E. Haynes	
Casing Size 4.5"		d 4.5"		Set At 1501		Perforations: From 1516 To 6782		Well No. 6 E	
Casing Size 4.5"		d 4.5"		Set At 6782		Perforations: From To		Unit Sec. Twp. Rye. B 15 24N 5W	
Type Well - Casing - Perforated - G.G. or G.O. Multiple						Packer Set At None		County Rio Arriba	
Producing Time		Reservoir Temp. °F 8		Mean Annual Temp. °F 55		Baro. Press. - P _a 12.2		State New Mexico	
L		R		Gg		% CO ₂		% N ₂	
								Prover 3/4"	
								Meter Run Choke Nipple	
								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	1/2"						48"	72°	230"		3 hours
2	1/2"						1062"		1146"		
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, Mcfd
1	1.24		60.2	.9887	1.195	N/A	683.0
2							
3							
4							
5							

NO.	P _t	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	Critical Temperature
1										
2										
3										
4										
5										

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DIST. 3

$P_c^2 = 13415.249$ $P_c^2 - P_w^2 = 13415.249 - 100 = 13315.249$		$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.007$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.006$
$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 681.0$			

Absolute Open Flow 681.0 Mcfd @ 15.025		Angle of Slope 0	Slope, n .75
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Remarks: 1. 0.402, 2. 1.760, 3. 2.93

Approved By Commission:	Conducted By: R. A. Farmer	Calculated By: R. A. Farmer	Checked By: [Signature]
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