

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

Form O-117
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Date 12/22/78	
Company GREAT LAKES CHEMICAL CORP.		Connection None	
Pool Blanco		Formation Mesa Verde	
Completion Date 12-15-78	Total Depth 4,700'	Plug Back TD 4,636'	Elevation 6,048' KB
Csg. Size 4.5	Wt. 10.5	d 4,052'	Set At 4,690'
Thq. Size 1.90	Wt. 2.9	d 1,610'	Set At 4,617' KB
Perforations: From 4,460' To 4,620'		Well No. 55-A	
Perforations: From Open End To		Unit Sec. Twp. Rge. I 26 27N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At -	
Producing Thru Tubing		Baro. Press. - P _a 12.0	
Reservoir Temp. °F 127 @ 4,650		State New Mexico	
Mean Annual Temp. °F 60		County San Juan	
L 4,603	H 4,603	Gg 0.65(est)	% CO ₂ % N ₂ % H ₂ S - - -
Prover 2"		Meter Run -	
Taps -			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover 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						30	380	30	860	30	7 Day
1.	2	x	3/4	210		60	210	30	625	30	3 Hr.
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.453		222	1.0	1.240	1.022	2659
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	Critical Temperature
1.	.331	520	1.405	.9583						
2.										
3.										
4.										
5.										

P _c 860	P _c ² 739600	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.349$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.897$
NO. 1	P _t ² 49284 P _w 652 P _w ² 424734 P _c ² - P _w ² 314866		
2.			
3.			
4.			
5.			

Absolute Open Flow 5045 Mcfd @ 15.025		Angle of Slope θ -	Slope, n .75
Remarks:			
Approved By Commission:	Conducted By: Joe Hill	Calculated By: W.E. Landry	Checked By: