

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11/7/84	
Company Union Texas Petroleum Corp.		Connection Gas Company of New Mexico	
Foot Tapacito Assoc. Ext. Basin.		Formation Gallup Dakota	
Completion Date 10/2/84		Total Depth 7620	
Csg. Size 5.500		Well No. 14-E	
Trg. Size 2.375		Perforations: From 4806 To 7504	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - (Mesaverde-Gallup-Dakota Commingled)		Packer Set At N/A	
Producing Thru Tubing		Baro. Press. - P_a 12	
Reservoir Temp. °F #		State New Mexico	
Mean Annual Temp. °F #		County Rio Arriba	
L 7283		H 0.650	
% 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	2"		3/4"				1507		1507		7 days
1.							392	65°	943		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 F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1	12.3650		404	0.9952	0.9608	1.039	4963
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

NO.	P_c^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1519	2.307,361	95	1.6536	1.4581
2					
3					
4					
5					

NO.	P_c^2	P_w^2	$P_c^2 - P_w^2$	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1				7237
2				
3				
4				
5				

Absolute Open Flow	7237	Mcfd @ 15.025	Angle of Slope θ	Slope, n	0.75
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Remarks:			
Approved By Division	Conducted By:	Calculated By:	Checked By: