

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-27-80				
Company Jerome P. McHugh				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 9-3-80		Total Depth 7780'		Plug Back TD 7729'		Elevation 6784 GL		Farm or Lease Name Jicarilla	
Coq. Size 4 1/2	Wt. 10.5	d	Set At 7796'	Perforations: From 7532' To 7686'		Well No. 7E			
Tbg. Size 1 1/2	Wt. 2.9	d	Set At 7673'	Perforations: From open To end		Unit Sec. Twp. Rge. B 32 26 4			
Type Well - Single - Brdhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County Rio Arriba		
Producing Thru Tbg		Reservoir Temp. °F R		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico	
L	R	Gg .65	% 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							2420		2420		7 days
1.											
2.											
3	3 3/4" Pos. Choke						55	72°	570		3 hrs.
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							
2.							
3	12.365		67	.9887	.9608	1.007	792
4.							
5.							

NO.	P ₁	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	P.S.I.A.	Critical Temperature	R	P.S.I.A.	Mcfd/bbl.
1														
2.														
3.														
4														
5														

NO.	P ₁	P _w	P ₁ ²	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_c^2}{P_1^2 - P_w^2} = \frac{1.0607}{P_1^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = \frac{1.0452}{P_1^2 - P_w^2}$
1							
2							
3		582		338724	5575900		
4							
5							

Absolute Open Flow				Mcf/d @ 15.025		Angle of Slope		Slope, n	
827									

Approved By Division				Conducted By:		Calculated By:		Checked By:	
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