

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	
Company Jerome P. McHugh		Connection	
Pool Basin-Dakota		Formation Dakota	
Completion Date 8-20-80		Total Depth 7682'	Plug Back TD 7608'
Elevation		Farm or Lease Name Jicarilla	
Coq. Size 4-1/2"	Wt. 11.6 & 10.5	d 4.052"	Set At 7682
Perforations: From 7413 To 7585		Well No. 3E	
Tbg. Size 1-1/2"	Wt. 2.9#	d	Set At 7554
Perforations: From Open end To		Unit G 31 26N 4W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	
Producing Thru Tbg		County Rio Arriba	
Reservoir Temp. °F		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a	
L	H	G _g	% CO ₂
.65		% 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							2505		2505		7 days
1.											
2.									1110		3 hrs
3.	3/4" Pos. choke			165							
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		177	.9942	.9608	1.0190	2131
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	Mcf/bbl.	Deg.
1												
2.												
3.												
4.												
5.												

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.2480$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1807$
1						
2						
3		1122	1,258,884	5,076,405	405	
4						
5						

Absolute Open Flow		Mcf @ 15.025	Angle of Slope Φ	Slope, n
2516				.75

Approved by Division	Conducted by Hazen	Calculated by Jacobs	Checked by
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