

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-10-77	
Company Merrion & Bayless				Connection			
Pool NIPP				Formation Picture Cliff		Unit	
Completion Date 11-09-77		Total Depth 1310 ft.		Plug Back TD 1216 ft.		Elevation 5981 ft.	
Farm or Lease Name Hugh Lake		Well No. 1					
Csg. Size 2-7/8"	Wt. 1b. 6.5	d 2.441	Set At 1304 ft.	Perforations: From 1201 To 1211		Unit Sec. Twp. Rge. M 36 27N 13W	
Tbg. Size NA	Wt.	d	Set At	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single (no tubing)				Packer Set At NA		County San Juan	
Producing Thru casing		Reservoir Temp. °F 78° @ 1206 ft.		Mean Annual Temp. °F 60°		Baro. Press. - P _a 12.2 PSIA	
State New Mexico							
L 1206	H 1206	G _g 0.67	% CO ₂	% N ₂	% H ₂ S	Prover 2"	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	
1	Initial								231 PSIG	48°	
2	2"		1/4"						23	52°	
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.087		35.2	1.008	1.222	1.002	47
2							
3							
4							
5							

NO.	P _t	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

P _c 243.2	P _c ² 59146	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{59146}{57907} = 1.0214$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0182$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		35.2	1239	57907
2				
3				
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 48$

Absolute Open Flow	48	Mcfd @ 15.025	Angle of Slope θ	Slope, n	0.85
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Remarks: _____

Approved By Commission:	Conducted By: Steven S. Dunn	Calculated By: <i>Steven S. Dunn</i> Steven S. Dunn	Checked By: Robert L. Bayless
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