

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 03-30-77	
Company Merrion & Bayless				Connection		
Pool N.I.I.P.				Formation Picture Cliff		Unit
Completion Date 03-03-77		Total Depth 1350'		Plug Back TD 1187'		Elevation 5989'
Farm or Lease Name Chaco		Well No. 1				
Csg. Size 2-7/8"	Wt. 6.5#/ft.	d 2.441	Set At 1340'	Perforations: From 1113' To 1139'		Unit Sec. Twp. Rge. F 18 26N 12W
Tbg. Size	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. F 18 26N 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single (no tubing)				Packer Set At		County San Juan
Producing Thru Casing		Reservoir Temp. °F 76.9° @ 1126'		Mean Annual Temp. °F 50°F		Baro. Press. - P _a 12.2 PSIA
State New Mexico						
L 1126	H 1126	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 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	7 days								231	58°	
1.	2"		3/4"	16 PSIG					17 PSIG	59.5°	.50 Hrs.
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		29.2	1.0005	1.240	1.003	344
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
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) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{59,146}{57,979} = 1.020$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.017$
NO.	P _t ²	P _w	P _w ²
1	942	34.2	1,167
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 350 \text{ MCF/day}$

Absolute Open Flow 350 Mcfd @ 15.025

Angle of Slope θ _____

Slope, n 0.85

Remarks: _____

Approved By Commission: _____

Conducted By: Steven S. Dunn

Calculated By: Steven S. Dunn

Checked By: Robert L. Bayless