

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/11/80	
Company Hill & Llewellyn				Connection		
Pool Ballard				Formation Pictured Cliffs		Unit
Completion Date 11/2/80		Total Depth 2612		Plug back TD		Elevation 6617 GR
Eq. Size 2.875	Wt. 6.50	d 2.441	Set At 2599	Perforations: From 2342 To 2404		Well No. 20
Trg. Size None	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. D-34-26N-8W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At	
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a
						County San Juan
						State New Mexico
L	H	Gg .650 est.	% 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									376		9 days
1.			.750	23		56					3 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, Mscf/d
1	12.3650		35	1.0039	.9608	1.0000	417
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/d bl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _r ²	P _w ²	P _r ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$
1	1225	42	1788	148756	1.0120	1.0102
2.						
3.						
4.						
5.						

$LOG = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 421$			
Absolute Open Flow		Mscf @ 15.025	
421		Angle of Slope θ	
		Slope, n .85	
Remarks: Well flowed heavy fog of water throughout test.			

Approved by Division	Conducted By CRW	Calculated By A.R. Kendrick	Checked By <i>A.R. Kendrick</i>
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