

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1/25/80			
Company Hill & Llewellyn				Connection					
Pool Ballard				Formation Pictured Cliffs				Unit	
Completion Date 1/16/80		Total Depth		Plug Back TD		Elevation		Farm or Lease Name Newsom B	
Coq. Size 2.875	Wt. 6.50	d 2.441	Set At 2298	Perforations: From 2064 To 2126		Well No. 17			
Trq. Size None	Wt.	d	Set At	Perforations: From To		Unit Soc. Twp. Rye. D-8-26N-8W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Casing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _g .650	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run	Tape

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									526		9 days
1.			.750	36		51					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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		48	1.0088	.9608		575
2.							
3.							
4.							
5.							

NO.	R _i	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	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	°F

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	538	57	289444	3251	286193
2.					
3.					
4.					
5.					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} \times 1.0114$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 581$

(2) $\frac{P_c^2}{P_c^2 - P_w^2} \times 1.0096$

Absolute Open Flow 581 Mcfd @ 15.025		Angle of Slope @		Slope, n .85	
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Remarks: Light fog of water & drip throughout test.

Approved by Division	Conducted by: CRW	Calculated by: ARK	Checked by:
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