

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 6/14/80			
Company Hill & Llewellyn				Connection				
Pool Ballard				Formation Pictured Cliffs				Unit
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name Foster
Crg. Size 5.500	Wt. 15.5	d 4.976	Set At 4900	Perforations: From 2283 To 2314		Well No. 4A		
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At	Perforations: From To		Unit Sec. Twp. Rge. E-4-26N-8W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					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 EST .650	% 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							944		499		10 days
1.			.75	76		61	945				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		88	.9990	.9608		1044
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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.	P.S.I.A.	R
1														
2.														
3.														
4.														
5														

P _f 511 P _c ² 261121				
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1	7744	89	7960	253161
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0314$

AOI = Q · $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1072$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0267$

Absolute Open Flow	1072	Mcf @ 15.025	Angle of Slope θ	Slope, n = 85
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Remarks: F_c = 1.393

Approved by Commission:	Conducted by: CRW	Calculated by: <i>Alfred Kendrick</i>	Checked by:
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