

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Corrected Copy

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-22-82	
Company Curtis J. Little		Connection El Paso	
Pool Basin		Formation Dakota	
Completion Date 9-7-82	Total Depth 7494	Plug back TD 7455	Elevation 6313' GL
Form or Lease Name Kelly-Federal		Well No. #1	
Coq. Size 7" Wt. 23# 8 4.5" 11.6#	d. 4.090 Set At 7497	Perforations: From 7256 To 7427	
Thg. Size 2-3/8 Wt. 4.7	d. 1.995 Set At 7269	Perforations: From open To ended	
Type Well - Single - Rodenthead - G.C. or G.O. Multiple Single		Packer Set At none	County San Juan
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12 psi
State New Mexico		M 8 30 10	
L	H	C _g .650	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Tops

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	
1.	2" x 6" x 3/4"						1950	45	3 hr.
2.							57	242	
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 _{sp}	Rate of Flow O. Mcd
1.	11		69	1.015	1.240	1.007	962
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.10	505	1.35	0.986	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.
5.					Critical Temperature	R

P _c 1987	P _c ² 3948	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.02$	(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.015$
NO. 1	P _e ² 254 P _w ² 65 P _e ² - P _w ² 3883		
2			
3			
4			
5			

Absolute Open Flow 976		Mcd @ 15.025	Angle of Slope θ	Slope, n 0.75
Remarks: all squared pressures are x 10 ³				

Approved By Division	Conducted By: John Alexander	Calculated By: John Alexander	Checked By:
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