

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 7/27/80	
Company Hill & Llewellyn <i>Superior</i>				Connection			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date		Total Depth 7500		Plug Back TD 7492		Elevation	
Csg. Size 4.500		Set At 7492		Perforations: From 7237 To 7438		Well No. 4-E	
Tub. Size 1.990		Set At 7188		Perforations: From To		Unit Sec. Twp. Rge. D-10-26N-8W	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single						Packer Set At	
Producing Thru Tubing				Reservoir Temp. °F 670 est		Mean Annual Temp. °F	
Zero. Press. - P _a				State New Mexico			
L		H		G _g 670 est		% CO ₂	
				% N ₂		% H ₂ S	
Prover		Meter Run		Days			

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	
51							1891		1926		7 days
1.			.750	36		96	966		1348		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 F _L	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mgd
1	12.3650		48	.9671	.9463		543
2							
3							
4							
5							

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

P _c 1938 P _c ² 3755844				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3529$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2544$	
NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²			
1	956484	990	979650	2776194			
2							
3							
4							
5							

Absolute Open Flow 681 Mgd @ 15.025 Angle of Slope 75			
Remarks: Well made 6 1/4 inches of oil in three hours.			

Approved by Commission:	Conducted By: CRW	Calculated By: <i>AK Newbide</i>	Checked By:
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