

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 10-22-76				
Company Kirby Exploration Company				Connection None					
Pool Nipp				Formation Pictured Cliff				Unit	
Completion Date 10-22-76		Total Depth 1300		Plug Back TD 1200		Elevation 6035		Farm or Lease Name Frew Federal	
Csg. Size 4 1/2	Wt. 10.5	d	Set At 1242	Perforations: From 1098 To 1106			Well No. 1		
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 1006	Perforations: From open ended To			Unit Sec. Twp. Rge. J 20 26N 12W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None		County San Juan		
Producing Thru tubing		Reservoir Temp. °F 900 @ 1300		Mean Annual Temp. °F -		Baro. Press. - P _a -		State New Mexico	
L	H	Gg .680	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							203		203	
1.	2X6X3/4			30			30	63	46	63
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11		42	.9962	1.213	1.004	560
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.	.06	523	1.36	.992						
2.										
3.										
4.										
5.										

P _c 203 P _c ² 41209					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0447$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0379$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 581$			
1		42	1764	39445				
2								
3								
4								
5								

Absolute Open Flow		581	Mcfd @ 15.025	Angle of Slope °	Slope, n	.85
Remarks:						

Approved By Commission:	Conducted By: W. Durrett	Calculated By: William T. Jones	Checked By: W. T. Jones
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