

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 8-2-77			
Company Kirby Exploration Company				Connection					
Pool Nipp				Formation Pictured Cliffs				Unit	
Completion Date 7-19-77		Total Depth 1295		Plug Back TD 1220		Elevation 6019		Farm or Lease Name Frew Federal	
Csg. Size 4 1/2	Wt. 10.79	d	Set At 1262	Perforations: From 1080 To 1123		Well No. 3			
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 1022	Perforations: From To		Unit B	Sec. 29	Twp. 26N	Rge. 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 @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .62	% 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							205		205		
1.	2x6x.75					72°	7	72°	14		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11		19	.9887	1.270	1.0025	263
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.	.028	532	1.46	.995	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. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

P _c 217	P _c ² 47089	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.014$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0123$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		26	676	46413	
2					
3					
4					
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 266$

Absolute Open Flow 266 Mcfd @ 15.025

Angle of Slope θ 85

Slope, n

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By: K. Jenkins	Checked By:
-------------------------	---------------	------------------------------	-------------