

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6/5/74		AUG 4 1975			
Company Fenroc Oil Corporation						Connection None					
Pool Wildcat						Formation Dalaware				Unit O. C. C. ARTESIA, OFFICE	
Completion Date 5/15/74			Total Depth 4951		Plug Back TD 2920		Elevation 3305 GR		Farm or Lease Name Combs Federal		
Csg. Size 4 1/2	Wt. 11.6#	d 4.000	Set At 2950	Perforations: From 2822 To 2844				Well No. 1			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2764	Perforations: From To				Unit P	Sec. 15	Twp. 20 S	Rge. 27 E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 2764			County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 83 @ 2800		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State New Mexico			
L 2764	H 2764	Gg .760	% CO ₂ —	% N ₂ —	% H ₂ S —	Prover 2"		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							819		Choke		72
1.	2	x	.75	10.8		95	753	81	10/64		1
2.	2	x	.75	29.0		98	630	80	12/64		1
3.	2	x	1.25	5.9		99	471	81	14/64		1
4.	2	x	1.25	8.4		99	351	81	16/64		1
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	9.453		24.0	.9680	1.147	1.000	252
2	9.453		42.2	.9653	1.147	1.000	442
3	27.63		19.1	.9645	1.147	1.000	584
4	27.63		21.6	.9645	1.147	1.000	660
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio TSTM Mcf/bbl.
1.	Below limits of Table				A.P.I. Gravity of Liquid Hydrocarbons .760 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 667 P.S.I.A. P.S.I.A.
5.					Critical Temperature 411 R R

P _c 832.2	P _c ² 692.6			(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.237$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.129$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		766.2	587.1	105.5	
2		643.2	413.7	278.9	
3		484.2	234.4	458.2	
4		364.2	132.6	560.0	
5					

Absolute Open Flow 745 Mcfd @ 15.025			Angle of Slope @ 60° 16'	Slope, n .571
Remarks: Friction Negligible - see Attached C-122D for Rate No. 1				
Approved By Commission:	Conducted By:	Calculated By:	Checked By:	