

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 11-23-88			
Company KAISER FRANCIS ✓					Connection PIPELINE		FEB 27 '89	
Pool UNDESIGNATED MORROW					Formation MORROW		Unit C. C. D. ARTESIA OFFICE	
Completion Date 10-22-88		Total Depth 7675		Plug Line L. 7675		Elevation 3889		Farm or Lease Name CAT CLAW STATE
Comp. Size 5.0	Wt. 18.0	d 4.276	Set At 7675	Perforations: From 7469 To 7559		Well No. #1		
Thq. Size 2.875	Wt. 6.4	d 2.441	Set At 7310	Perforations: From OPEN ENDED TO		Unit Sec. Twp. Hye. G 31 17S 24E		
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE					Packoff Set At 7310		County EDDY	
Producing thru TUBING		Reservoir Temp. °F 136 @ 7514		Mean Annual Temp. °F 60.1		Baro. Press. - P _a 13.2		State NEW MEXICO
L 7514	H 7514	Cg .659	% CO ₂ 2.62	% N ₂ .91	% H ₂ S 0	Provor 0	Motor Run 4.0	Taps FLANGE

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.	
51							858	61		
1.	4.03 X 0.500			140.	7.0	84	836	61		1.5/64
2.	4.03 X 0.500			140.	19.0	84	779	61		2.5/64
3.	4.03 X 0.500			140.	40.0	83	673	61		4.5/64
4.	4.03 X 0.500			140.	80.0	84	629	61		6/64
5.										

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	1.18	32.75	153.2	0.9777	1.2318	1.0128	47.
2	1.18	53.95	153.2	0.9777	1.2318	1.0128	78.
3	1.18	78.28	153.2	0.9786	1.2318	1.0129	113.
4	1.18	110.71	153.2	0.9777	1.2318	1.0128	160.
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.23	544.	1.47	0.975	0	
2	0.23	544.	1.47	0.975	0	
3	0.23	543.	1.47	0.975	0.659	XXXXXXX
4	0.23	544.	1.47	0.975	0.659	XXXXXXX
5						

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	871.2	759.			
1		849	720	39	
2		792	627	132	
3		686	470	289	
4		642	412	347	
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.1866$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 247.0$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.5481$

Post IP 2
12-15-89
comp. Ato-Mm

Absolute Open Flow	247.0	Mcf/d @ 15.025	Angle of Slope @	60.8	Slope, n	0.559
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Remarks:			
Approved By Commission	Conducted By BENNETT-CATHEY	Calculated By MATT LEE	Checked By C. Van Valkenburg