

c/SF
File

Type Test ☒ Initial 4-POINT ☐ Annual ☐ Special				Test Date 7-25-83		JUL 29 1983	
Company ROBERT ENFIELD				Connection AIR NEW WELL		O. C. D. ARTESIA, OFFICE	
Pool WILD CAT <i>C. J. & J. Morrow</i>				Formation MORROW		Unit	
Completion Date 7-21-83		Total Depth 9970 <i>2826</i>		Plug Hole 1 9922 <i>2622</i>		Elevation 3286 <i>3274.1</i>	
Well Size 1.500		Wt. 11.6		d 4.000		Set At 9966	
Perforations: From 9652 To 9679		Well No. 1		Perforations: From 0 To 0		Unit Sec. Typ. Ryo. 7 19S 27E	
Type Well - Single - (Vardenhead - G.O. or G.O. Multiple) SINGLE		Packer Set At 9629		County EDDY		State NEW MEXICO	
Producing thru TUBING		Reservoir Temp. °F 196° 9665		Mean Annual Temp. °F 60.0		Base. Press. - P _g 13.2	
L 9665		H 9665		O _g 0.597		% CO ₂ 0.66	
				% N ₂ 0.56		% H ₂ S 0	
				Prover 0		Meter Run 4.0	
						Tape FLANGE	

FLOW DATA						TUBING DATA		B.H.P. 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.		CHOKE
SI							2930		3733		94.5
1	4.03	X	1.250	380	3.0	100	2710	87	3458	5/64	1.0
2	4.03	X	1.250	380	5.0	111	2564	88	3296	5.5/64	1.0
3	4.03	X	1.250	385	8.0	108	2395	89	3092	6/64	1.0
4	4.03	X	1.250	385	13.4	99	2160	89	2794	7/64	1.0
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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 _{sp}	Rate of Flow O. Mcfd
1	7.47	34.35	393.2	0.9636	1.2942	1.0253	328
2	7.47	44.34	393.2	0.9543	1.2942	1.0233	419
3	7.47	56.44	398.2	0.9568	1.2942	1.0241	535
4	7.47	73.05	398.2	0.9645	1.2942	1.0258	699
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NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.58	560	1.58	0.951	0	0	0.597	XXXXXX	675	355
2	0.58	571	1.61	0.955				XXXXXX		
3	0.59	568	1.60	0.954						
4	0.59	599	1.58	0.950						
5										

NO.	P ₁ ²	P _m ²	R ₁ ²	P ₁ ² - R ₁ ²
1	12049	2792	7793	1339
2	10951	2657	7061	2072
3	9642	2489	6197	2935
4	7880	2248	5052	4081
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(1) $\frac{P_g^2}{R_1^2 - R_1^2} = 2.2379$

AOF = 0 $\left[\frac{R_1^2}{R_1^2 - R_1^2} \right]^n = 1276$

(2) $\left[\frac{R_1^2}{R_1^2 - R_1^2} \right]^n = 1.8253$

Absolute Open Flow	1276	Mcf/d @ 15.025	Angle of Slope @	55.3	Slope, n	0.680
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS

Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT & CATHEY	Checked By:
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