

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

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C-122 file*

Form C-122
Revised 9-1-65

RECEIVED

FEB 27 1979

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-8-79		O. C. C. ARTESIA, OFFICE	
Company <u>J. Penrod Leese</u> McClellan Oil Corporation				Connection Air			
Pool Wildcat				Formation Abo		Unit D	
Completion Date 2-3-79		Total Depth 5570		Plug back TD 4489		Elevation 3693.9 GL	
Form or Lease Name Penjack-Pedestal							
Csg. Size 4 1/2	Wt. 10.5	d	Set At 4550	Perforations From 4314 To 4334		Well No. 1	
Tbg. Size 2 3/8	Wt.	d	Set At 4285	Perforations From To		Unit Sec. Twp. Rge. D 6 10 26	
Type Well - Single - Bronthead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tbg.		Reservoir Temp. °F 117 @ 4340		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 4340	H 4340	G _g .723	% CO ₂ 6.08	% N ₂ 4.46	% H ₂ S 0	Prover 6"	Meter Run Positive Choke Nipple

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											
1.			1/8	932		62	961		961		1 hr.
2.			3/16	920		61	920		929		30 Min.
3.			1/4	802		62	802		818		1 hr.
4.			5/16	565		62	565		590		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Comp. Factor, F _{pv}	Rate of Flow Q, Mgd
1	.2618		945.2	.9981	1.176	1.096	318
2	.6101		933.2	.9990	1.176	1.095	732
3	1.112		815.2	.9981	1.176	1.083	1152
4	1.771		578.2	.9981	1.176	1.058	1272
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/STB
1.	1.37	522	1.40	.832	A.P.L. Gravity of Liquid Hydrocarbons		Deg.
2.	1.35	521	1.40	.834	Specific Gravity Separator Gas	.723	X X X X X X X X
3.	1.18	522	1.40	.852	Specific Gravity Flowing Fluid	X X X X X	
4.	.84	522	1.40	.894	Critical Pressure	692	P.S.I.A. P.S.I.A.
5.					Critical Temperature	372	R R

F _c 974.2 F _c ² 949.1		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 28.674$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.355$	
NO.	P _w	P _w ²	P _c ² - P _w ²		
1	957.1	916.0	33.6		
2	945.7	894.4	54.7		
3	839.4	704.7	244.4		
4	620.3	384.7	564.4		
5					

Absolute Open Flow 1,703 Mgd @ 15.025		Angle of Slope θ 63.5°		Slope, n .500	
Remarks:					
Approved By Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____					

*Pasted
FD-2 1/2 Book
3-2-79*