

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

45F File
Form C-122
Revised 9-1-65

RECEIVED BY
JAN 23 1984

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-16-84		O. C. D. ARTESIA OFFICE	
Company STEVENS OPERATING Corp.				Connection TO AIR			
Pool PECOS-SLOPE <i>Slope Also</i>				Formation ABO		Unit	
Completion Date 12-29-83 / 1-16-84		Total Depth 4550		Plug Line L 4489		Elevation 3743	
Casing Size 5.500		Wt. 17.0		Set At 4.892		Perforations: From 4202 4315 To 4362	
Tub. Size 2.375		Wt. 4.7		Set At 4.182		Perforations: From 0 To 0	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE				Factor Set At 4182		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 105 • 4180		Mean Annual Temp. °F 60.0		Envs. Press. - P _n 13.2	
L 4282		H 4180		C _g 0.736		% CO ₂ 8.67	
				% N ₂ 4.99		% H ₂ S 0	
				Provor 0		Motor Run 2.0	
						Taps 0	

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Provor Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		CHOKE
51									990		157.5
1.	2.00 X 0.125			862	0	55	862	60	978	48/64	1.0
2.	2.00 X 0.219			837	0	41	837	60	950	48/64	1.0
3.	2.00 X 0.313			772	0	40	772	60	897	48/64	1.0
4.	2.00 X 0.438			625	0	35	625	60	797	48/64	1.0
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 Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	0.26	0	875.2	1.0048	1.1656	1.0933	296.
2	0.84	0	850.2	1.0188	1.1656	1.1017	932.
3	1.67	0	785.2	1.0198	1.1656	1.0942	1703.
4	3.40	0	638.2	1.0249	1.1656	1.0784	2796.
5							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.26	515.	1.38	0.837	0	0	0.736	XXXXXX	695.	373.
2	1.22	501.	1.34	0.824						
3	1.13	500.	1.34	0.835						
4	0.92	495.	1.33	0.860						
5										

P ₁ 1003.2 P ₂ 1006.				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.7746$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.7746$	
NO	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²	$AOI = 0 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 13352.$		
1	982.	992.	984.	22.			
2	928.	971.	943.	63.			
3	828.	938.	880.	127.			
4	656.	892.	796.	211.			
5							

Absolute Open Flow 13352.		Mcfd @ 15.025		Angle of Slope θ 45.0		Slope, n 1.000	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.							
Approved By Commission		Conducted By RICHARD TOWNLEY		Calculated By BENNETT & CATHEY		Checked By	