

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 12-3-73		DEC - 5 1973	
Company The Superior Oil Company				Connection El Paso Natural Gas Co.		O. C. C.	
Pool Washington Ranch				Formation Morrow		Unit ARTEBIA, OFFICE	
Completion Date 7-28-60		Total Depth 10,237'		Plug Back TD 7,520'		Elevation KB: 3,879'	
Csg. Size 7"		Wt. 29#-26#		Set At 9,323'		Performations: From 7,452' To 7,478'	
Thg. Size 2-1/2"		Wt. 6.5#		Set At 7,389'		Performations: From None To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 7,352'		Well No. 1	
Producing Thru Tubing		Reservoir Temp. °F 144 @ 7,465'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 7,389		H 7,389		G _g .572		% CO ₂ % N ₂ % H ₂ S Prover - - - - - - - - - - - -	
						Meter Run 2.067	
						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.		Temp. °F
SI							2550	70	Pkr	Pkr	
1.	2.067 x 0.5			769	5.7	70	781	60	-	-	24 hrs.
2.											
3.											
4.											
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 _{pv}	Rate of Flow Q, Mcfd
1	1.189	66.78	782.2	.9905	1.322	1.058	110
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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	1.17	530	1.53	.894	---	---	.572	XXXXXX	672	346
2.										
3.										
4.										
5.										

P _c 2563.2 P _c ² 6570.00				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1062$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1062$	
NO	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1	630.75	794.3	630.85	5939.15	
2					
3					
4					
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 122 \text{ MCFD}$			
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Absolute Open Flow 122 Mcfd @ 15.025		Angle of Slope 45°	Slope, n 1.000
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Remarks: The subject well is a low capacity gas well and it is felt that a one-point test using a slope of 1.000 will adequately define the wells flow capacity.			
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Approved By Commission:	Conducted By:	Calculated By: J. C. Willner	Checked By:
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