

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

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Form C-122
Revised 9-1-66
C-122 file

CORRECTED COPY
10-12-72 JCR

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 9-22-1972			
Company Pennzoil Company				Connection Trans Western Pipeline			
Pool South Carlsbad (Strawn)				Formation Strawn		Unit D. C. E. L ARTERIA. OFFICE	
Completion Date 2-4-1972		Total Depth 11,833'		Plug Back TD 11,762'		Elevation 3232 KB	
Csg. Size 5-1/2"		Wt. 17 20		Perforations: From 10,375 To 10,392		Well No. 2	
Tbg. Size 2-1/16		Wt. 3.25		Perforations: From To		Unit Sec. Twp. Rge. L 6 23-S 27-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG Dual				Packer Set At 10,290"		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 10,384		H 10,384		Gg .644		% CO ₂ .0033	
				% N ₂ .0074		% H ₂ S	
				Prover		Meter Run X	
						Taps	

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							2447		450		
1.	4.0		1.625	498	42	68	2325	70	449		2 hrs.
2.	4.0		1.625	510	10.0	68	2260	69	449		2 hrs.
3.	4.0		1.625	520	24.5	70	2107	70	449		2 hrs.
4.	4.0		1.625	530	57	70	1734	70	449		2 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.79	46.3	511.2	.9924	1.246	1.051	770
2	12.79	72.3	523.2	.9924	1.246	1.053	1,203
3	12.79	114.3	533.2	.9905	1.246	1.054	1,903
4	12.79	175.9	543.2	.9905	1.246	1.054	2,928
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.76	528	1.41	.905	15.24	
2.	.78	528	1.41	.902	61	
3.	.80	530	1.42	.901		
4.	.81	530	1.42	.900		
5.						

A.P.I. Gravity of Liquid Hydrocarbons 61 Specific Gravity Separator Gas .644 Specific Gravity Flowing Fluid X X X X X Critical Pressure P.S.I.A. Critical Temperature R					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.540$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.876$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5,493$				
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NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		3273.2	10714	577
2		3193.2	10197	1094
3		3010.2	9061	2230
4		2616.2	6845	4446
5				

Absolute Open Flow 5,493 Mcfd @ 15.025		Angle of Slope 56°		Slope, n 675	
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Remarks: P _f Substituted for P _w Measured with Amerada RPG-3 Instrument @ 10,384'			
Approved By Commission:		Conducted By: J. Spruell	
		Calculated By: Massey	
		Checked By:	