

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 12-9-74		JAN 6 - 1975	
Company Kewanee Oil Company				Connection -----		O. C. C. ARTESIA, OFFICE	
Pool Red Lake Penn				Formation Morrow		Unit	
Completion Date 12-9-74		Total Depth 9400		Plug Back TD 9328		Elevation 3282' G.L.	
Csg. Size 5-1/2		Wt. 15.5		Set At 4.950		Perforations: From 9236 To 9273	
Tbg. Size 2-3/8		Wt. 4.7		Set At 1.995		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9170		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 144 @ 9370		Mean Annual Temp. °F 13.2		State New Mexico	
L .9170		H 9170		Gg 0.587		Prover 4"	
				% CO ₂ 0.37		% N ₂ 0.44	
				% H ₂ S 0		Meter Run FLG.	

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							2950		PKR.		
1.	4	x	1.500	600	11	91	2725				1
2.	4	x	1.500	600	37	88	2410				1
3.	4	x	1.500	600	59	84	2190				1
4.	4	x	1.500	600	80	84	1950				1
5.											

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 _{pv}	Rate of Flow Q, Mcfd
1	10.84	82.13	613.2	0.9715	1.305	1.038	1172
2	10.84	150.63	613.2	0.9741	1.305	1.037	2152
3	10.84	190.21	613.2	0.9777	1.305	1.040	2736
4	10.84	221.49	613.2	0.9777	1.305	1.040	3186
5							

NO.	P _t	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.	0.908	551	1.592	0.928	341	48.2 @ 68° F	0.587	XXXXXX	675	346
2.	0.908	548	1.584	0.927				XXXXXX		
3.	0.908	544	1.572	0.924						
4.	0.908	544	1.572	0.924						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	3734.2	3464.2	1234.7	159.7	1.963	1.567
2		3089.2	954.3	440.1		
3		2853.2	814.1	580.3		
4		2615.2	683.9	710.5		
5						

Absolute Open Flow 4992 Mcfd @ 15.025				Angle of Slope @ 330 40'		Slope, n 0.666	
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Remarks: Four-point Test ran with BHP bomb set at 9254'. Produced 1.13 barrels condensate.	
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Approved By Commission:	Conducted By: Don Van Meter	Calculated By: LeRoy England	Checked By: <i>[Signature]</i>
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