

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 3-28-77		JUN 1 1977	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Co.				C. C. C.	
Pool Red Lake Wildcat				Formation Morrow				Unit ARTISIA, OFFICE	
Completion Date 10-23-76		Total Depth 9768' KB		Plug Back TD 9580' KB		Elevation 3322 KB		Farm or Lease Name Rio Pecos "GB" Com	
Csg. Size 5 1/2"	Wt. 17#	d 4.892	Set At 9623 KB	Perforations: From 9336 To 9357 KB		Well No. 1			
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 9334 KB	Perforations: From 9284 To 9286 KB		Unit C	Sec. 29	Twp. 18S	Rge. 27E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At 9278' KB		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 148		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2		State New Mexico	
L 9330	H 9330	Gg	% CO ₂ 0.53	% N ₂ 0.37	% H ₂ S Nil	Prover	Meter Run 4"	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							2939	62			Months
1.	4.026	x	2.375	625	12	69	2823	74			1 hour
2.				635	27	70	2662	81			1 hour
3.				640	42	72	2510	86			1 hour
4.				643	74	72	2204	88			1 hour
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	28.98	87.51	638.2	.9915	1.260	1.0596	3357
2		132.29	648.2	.9905	1.260	1.0600	5072
3		165.63	653.2	.9887	1.260	1.0595	6335
4		220.36	656.2	.9887	1.260	1.0599	8432
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	81.36	Mcf/bbl.
1	.948	529	1.434	.8907	A.P.I. Gravity of Liquid Hydrocarbons	56.2	Deg.
2	.963	530	1.436	.8900	Specific Gravity Separator Gas	0.630	XXXXXXX
3	.971	532	1.442	.8908	Specific Gravity Flowing Fluid	XXXXX	0.670
4	.975	532	1.442	.8902	Critical Pressure	673	P.S.I.A. 670
5					Critical Temperature	369	R 380.5

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.530$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.4739$
1			13880	1772		
2			13021	2631		
3			12329	3323		
4			11218	4434		
5						

Absolute Open Flow 29290 Mcfd @ 15.025				Angle of Slope 45° 22'		Slope, n 0.9873	
Remarks: Static Pressures by Bennett Wireline. Flowing Pressures by DWT. Calculations worksheet attached hereto.							
Approved By Commission:		Conducted By: Don Weaver		Calculated By: Eddie Mahfood		Checked By:	