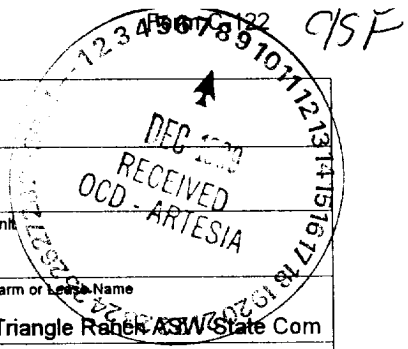


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPLE AND ONE POINT BACK PRESSURE TEST FORM AS WELL



Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/13/1999	
Company Yates Petroleum Corp				Connection Agave Energy			
Pool Red Tank Draw Morrow				Formation Red Tank Draw Morrow			
Completion Date 2/21/1999		Total Depth 8535		Plug Back TD 8468		Elevation 3857	
Csg. Size 4.500	Wt. 11.600	d 4.000	Set At 8535	Perforations: From 7976 To 8330		Well No. 1	
Tbg. Size 2.375	Wt. 4.700	d 1.995	Set At 7902	Perforations: From 7976 To 8330		Unit Sec. Twp. Rge K 13 19S 23E	
Type Well Single				Packer Set At 7910		County Eddy	
Producing Thru Tubing		Resv. Temp. °F 143 @ 8504		Mean Temp. °F 62		Baro. Press. - Pa 13.2	
State New Mexico							
L 8535	H 8535	Gg 0.590	%CO ₂ 0.840	%N ₂ 0.450	%H ₂ S 0.000	Prover 0.000	Meter Run 2.000
						Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover 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.		Temp. °F
SI	0.000	X	0.000	0	0.0	0	550	0			0
1	2.067	X	1.000	450	33.0	60	475	60			24
2	2.067	X	1.000	450	38.0	60	467	60			24
3	2.067	X	1.000	450	43.0	60	458	60			24
4	2.067	X	1.000	450	48.0	60	450	60			24
5		X									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{hwP_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.946	123.6	463.2	1.0000	1.302	1.038	826
2	4.946	132.7	463.2	1.0000	1.302	1.038	886
3	4.946	141.1	463.2	1.0000	1.302	1.038	943
4	4.946	149.1	463.2	1.0000	1.302	1.038	996
5							

NO.	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	0	Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg
1	0.69	520	1.48	0.929	Specific Gravity Separator Gas	0.590	XXXXXXXXXX
2	0.69	520	1.48	0.929	Specific Gravity Flowing Fluid	XXXXXXXXXX	0.590
3	0.69	520	1.48	0.929	Critical Pressure	675	P.S.I.A.
4	0.69	520	1.48	0.929	Critical Temperature	350	°R
5							

Pc	563.2	Pc'	317.2
NO.	Pp	Pw	Pw'
1	238.3	506.3	256.3
2	230.6	501.3	251.3
3	222.0	495.5	245.5
4	214.6	490.7	240.8
5			

(1) $\frac{P_c'}{P_c' - P_w'} = 4.425$

AOF = Q $\left[\frac{P_c'}{P_c' - P_w'} \right]^n = 3202$

(2) $\left[\frac{P_c'}{P_c' - P_w'} \right]^n = 3.396$

Absolute Open Flow	3202	Mcf/d @ 15.025	Angle of Slope θ	39	Slope, n	0.822
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Remarks:

Approved By Commission	Conducted By: Johnny Blount	Calculated By: Katie Brunson	Checked By: Pinson McWhorter
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