

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Pogo Producing Company						Lease or Unit Name Red Tank 34 <i>Federal</i>					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/9/96		Well No. 1			
Completion Date 8/28/96		Total Depth 15,300		Plug Back TD 15,163		Elevation 3686 KB		Unit Ltr. - Sec. - TWP - Rge. B - 34 - 22 - 32			
Csg. Size 3 1/2	Wt. 12.95	d 2.750	Set At 15,300	Perforations: From: 14,760 To: 14,786				County Lea			
Tbg. Size 2 7/8	Wt. 8.7	d 2.259	Set At 14,138	Perforations: From: OPEN To: END				Pool Undesig.			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 14,138				Formation Middle Morrow			
Producing Thru Tbg		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Llano			
L 14,138	H 14,138	Gg .603	% CO ₂ 1.31	% N ₂ .31	% H ₂ S	Prover		Meter Run 3.068		Taps Flg	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice X 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						4803		PKR		1 Month
1.	3 x 1.250		28	2.56	60	1986				1 Hour
2.	3 x 1.250		31	15.92	60	1512				1 Hour
3.	3 x 1.250		35	52.13	60	1175				1 Hour
4.	3 x 1.250		39	91.20	60	922				1 Hour
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	h _w P _m	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv} .	Rate of Flow Q, Mcfd
1.	7.577	10.27	41.2	1.000	1.288	1.003	101
2.	7.577	26.53	44.2	1.000	1.288	1.003	260
3.	7.577	50.13	48.2	1.000	1.288	1.003	491
4.	7.577	69.00	52.2	1.000	1.288	1.003	675
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	.06	520	1.46	.994	A.P.I. Gravity of Liquid Hydrocarbons	Dry Gas	Deg.
2.	.06	520	1.46	.994	Specific Gravity Separator Gas	.603	XXXXXXXXXX
3.	.07	520	1.46	.994	Specific Gravity Flowing Fluid	XXXXXX	
4.	.07	520	1.46	.994	Critical Pressure * 675	P.S.I.A.	P.S.I.A.
5.					Critical Temperature * 356	R	R

P _c 4816.2		P _c ² 23195.8	
NO.	P _i ²	P _w	P _w ²
1.		1999.3	3997.0
2.		1525.7	2327.7
3.		1190.4	1417.1
4.		940.6	884.8
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.040$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .702$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.040$

Absolute Open Flow 702	Mcf/d @ 15.025	Angle of Slope Θ 45	Slope, n 1.000
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Remarks: * = Corrected to 1.31% CO2

No fluid produced

Approved By Division	Conducted By: Keith Norvell	Calculated By: Bob Murray	Checked By: Bob Murray
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Company: Pogo Producing Comp.
 Well: Red Tank 34, No. 1
 Location: B 34-22s-32e
 County: Lea
 Date: October 9, 1996

