

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11/27/84	
Company Petrus Operating Co. Inc.		Location NONE	
Pool Bagley (Lower Pennsylvanian Gas Pool) STRAWN		Unit	
Completion Date 11/18/84	Total Length 11,006	Plug back TD 10,280	Elevation 4246
Date of Lease Expiry STATE		Well No. 1	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11,006
Perforations: From 9885 To 9918		Well No. 1	
Tub. Size 2 7/8	Wt. 6.5	d 2.441	Set At 9792
Perforations: From Open To End		Unit Sec. Twp. Rge. I 34 11S 33E	
Type Well - Single - Protentioned - G.O. or G.O. Multiple SINGLE		Pecker Set At 9792	
Producing thru TBG.		State N.M.	
Reservoir Temp. °F 172 @ 9792	Mean Annual Temp. °F 60	Baro. Press. - P _g 13.2	
L 9792	H 9792	G _g .732	% CO ₂ 1.366
		% N ₂ 3.955	% H ₂ S
Prover		Meter Run 3.826	Depth FLG

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1	3.826	X	1.750	320	44	78	2118				1 hr.
2	3.826	X	1.750	325	54	74	1716				1 hr.
3	3.826	X	1.750	325	61	78	1533				1 hr.
4	3.826	X	1.750	330	60	79	1362				1 hr.
5							1177				

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, Mscf/d
1	15.01	121.08	333.2	.9831	1.169	1.036	2164
2	15.01	135.14	338.2	.9868	1.169	1.038	2429
3	15.01	143.63	338.2	.9831	1.169	1.036	2567
4	15.01	143.50	343.2	.9822	1.169	1.036	2562
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NO.	P _g	Temp. °F	T _g	Z	Gas Liquid Hydrocarbon Ratio TSTM	Mcf/Std.
1	.50	538	1.38	.932	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2	.51	534	1.37	.929	Specific Gravity Separator Gas .732	X X X X X X X X
3	.51	538	1.38	.931	Specific Gravity Flowing Fluid X X X X X	
4	.52	539	1.39	.932	Critical Pressure 665 P.S.I.A.	P.S.I.A.
5					Critical Temperature 389 °F	°F

P _g 2131.2	P _w 4542.0	(1) $\frac{P_g^2}{P_g^2 - P_w^2} = 3.024$	(2) $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 1.739$
1	1743.5	3039.9	1502.1
2	1566.7	2454.4	2087.6
3	1401.4	1963.8	2578.2
4	1221.1	1491.1	3050.9
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Absolute Open Flow 3,763	Mold @ 15.025	Angle of Slope @ 63.5	Slope, n .500
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Remarks: Well made small amount of fluid during test. Point alignment too steep, a slope of 63.5 was drawn through low rate of flow in the point alignment

Approved By: [Signature]	Conducted By: Duke Services, Inc.	Calculated By: R. Reston	Checked By:
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