

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-24-87			
Company PLAINS RADIO ✓				Connection AIR		DEC 03 '87	
Pool FOOR RANCH PRE-PERMIAN				Formation PENN		Unit O.C.D. ARTESIA OFFICE	
Completion Date 11-9-87		Total Depth 6369		Plug Back TD 6300		Elevation 3864' GR	
Ceq. Size 5 1/2		Wt. 15.5		Set At 6369		Perforations: From 6212 To 6332	
Tbg. Size 2-3/8		Wt. 6115		Set At 6115		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At		Farm or Lease Name CAMEL STATE	
Producing Thru TUBING		Reservoir Temp. °F 60°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L		H		Gg		Prover 2"	
				% CO ₂		% N ₂	
				% H ₂ S		Meter Run	
						Taps	

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							1849				
1.	2	x	3/32	1475		55	1475		PACKER		1 hr.
2.	2	x	1/8	1060		55	1060				"
3.	2	x	3/16	517		50	517				"
4.	2	x	1/4	310		50	310				"
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	.1410		1493.2	1.0048	1.1952	1.2114	306
2	.2648		1073.2	1.0048	1.1952	1.1505	392
3	.6082		530.2	1.0097	1.1952	1.0690	416
4	1.0870		323.2	1.0097	1.1952	1.0453	442
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2155.2 P _c ² 4644.9				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0938$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0388$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1		1716.2	2945.3	1699.5			
2		1299.2	1687.9	2956.9			
3		778.2	605.6	4039.3			
4		631.2	398.4	4246.5			
5							

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 459$$

Post ID-2
1-1-88
comp & BK

Absolute Open Flow 459	Mcfd @ 15.025	Angle of Slope 67	Slope, n .4245
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Remarks: BOTTOM HOLE PRESSURES DONE WITH AMERADA TYPE GAUGE.

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: MIKE KELLY	Checked By:
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