

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 <b>Plains Petroleum Operating Co.</b>						Lease or Unit Name <b>Bluitt 13 Federal</b>						
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date <b>12/10/93</b>		Well No <b>15</b>				
Completion Date <b>11-24-93</b>		Recomp		Total Depth <b>4745'</b>		Plug Back TD <b>4589'/CIBP</b>		Elevation <b>Gr 3997'</b>		Unit Ltr. - Sec. - TWP - Rge. <b>0 - 13 - 8S - 37E</b>		
Csg. Size <b>4 1/2"</b>		Wt. <b>11.6</b>		d		Set At		Perforations: From: <b>4527</b> To: <b>4579</b>		County <b>Roosevelt</b>		
Tbg. Size <b>2 3/8"</b>		Wt. <b>4.6</b>		d		Set At <b>4486</b>		Perforations: From:                      To:		Pool <b>Bluitt San Andres Assoc</b>		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>Single</b>						Packer Set At <b>4486</b>			Formation <b>San Andres</b>			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F <b>60°</b>		Baro. Press - P <sub>a</sub> <b>13.2</b>		Connection				
L <b>4486</b>		H <b>4486</b>		Gg <b>0.7364</b>		% CO <sub>2</sub>		% N <sub>2</sub>		% H <sub>2</sub> S <b>0.05</b>		
								Prover <b>Pos Ch</b>		Meter Run Taps		
FLOW DATA						TUBING DATA			CASING DATA			Duration of Flow
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F			
SI			1192		60°	1192	60°	0		48		
1.	10/64"		1148		60°	1148	60°	0		1		
2.	14/64"		1070		62°	1070	62°	0		1		
3.	16/64"		1009		64°	1009	64°	0		1		
4.	20/64"		899		65°	899	65°	0		1		
5.												
RATE OF FLOW CALCULATIONS												
NO.	COEFFICIENT (24 HOUR)		Pressure P <sub>m</sub>	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd					
1.	0.4173		1161.2	1.000	1.165	1.183	668					
2.	0.8419		1083.2	0.9981	1.165	1.166	1236					
3.	1.112		1022.2	0.9962	1.165	1.152	1520					
4.	1.771		912.2	0.9952	1.165	1.131	2118					
5.												
NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		A.P. I. Gravity of Liquid Hydrocarbons _____ Deg.					
1.	1.738	520	1.297	0.714	Specific Gravity Separator Gas <b>0.7364</b>		XXXXXXXXXX					
2.	1.662	522	1.302	0.736	Specific Gravity Flowing Fluid _____		XXXXXX					
3.	1.530	524	1.307	0.754	Critical Pressure <b>668</b>		P.S.I.A. _____ P.S.I.A.					
4.	1.366	525	1.309	0.782	Critical Temperature <b>401</b>		R _____ R					
5.												
P <sub>c</sub> <b>1198</b>		P <sub>c</sub> <sup>2</sup> <b>1435.2</b>										
NO.	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{2.624}$		(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{2.104}$					
1.		1145.7	1312.7	122.5								
2.		1079.2	1164.7	270.5								
3.		1022.3	1045.1	390.1								
4.		942.4	888.2	547.0	AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{4,456}$							
5.												
Absolute Open Flow <b>4,456</b>				Mcf/d @ 15.025		Angle of Slope $\theta$ <b>52.4 deg.</b>		Slope, n <b>0.771</b>				
Remarks:												
Approved By Division				Conducted By:				Calculated By:		Checked By:		

ORIGINAL SIGNED BY JERRY SEXTON