

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

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

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>Plains Petroleum Operating Co.</u>						Lease or Unit Name <u>Bluitt 13 Federal</u>			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date <u>04/19/94</u>		Well No. <u>1</u>	
Completion Date		Total Depth		Plug Back TD <u>4675' CIBP</u>		Elevation <u>4001.1</u>		Unit Ltr. - Sec. - TWP - Rgc. <u>A 13 8S 37E</u>	
Csg. Size	Wt.	d	Set At	Perforations: From: <u>4569</u> To: <u>4638</u>				County <u>Roosevelt</u>	
Tbg. Size	Wt.	d	Set At <u>4455</u>	Perforations: From: To:				Pool <u>Bluitt San Andres Assoc</u>	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		Formation <u>San Andres P-1</u>	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P _a		Connection	
L <u>4455</u>	H <u>4455</u>	Gg <u>.7364</u>	% CO ₂	% N ₂	% H ₂ S <u>.05</u>	Prover Pos. Ck.		Meter Run	Taps

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	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			1170		60	1170	60	0		24
1.	6/64		1135		61	1135	61	0		1
2.	8/64		1075		62	1075	62	0		1
3.	10/64		951		64	951	64	0		1
4.	12/64		762		65	762	65	0		1
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, F _{pv}	Rate of Flow Q, Mcfd
1.	0.1406		1148.2	0.9990	1.165	1.179	221.5
2.	0.2618		1088.2	0.9981	1.165	1.166	386.3
3.	0.4173		964.2	0.9962	1.165	1.141	532.8
4.	0.6101		775.2	0.9952	1.165	1.108	607.6
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P. I Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.719	521	1.299	0.720			0.7364	XXXXXXX	668	401
2.	1.629	522	1.302	0.736				XXXXX		
3.	1.443	524	1.307	0.768						
4.	1.160	525	1.309	0.815						
5.										

P _c <u>1183.</u> P _c ² <u>1400.0</u>					1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.005$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7335$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²				
1.	1318.4		1319.1	80.9				
2.	1184.2		1186.4	213.6				
3.	929.7		934.1	465.9				
4.	600.9		606.9	793.1				
5.								

Absolute Open Flow <u>923.6</u> Mcfd @ 15.025		Angle of Slope θ <u>63.4</u>		Slope, n <u>0.5</u>	
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Remarks: _____

Approved By Division	Conducted By: <u>Subsurface Well Testing</u>	Calculated By: <u>John McDermett</u>	Checked By:
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