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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 Plains Petroleum Operating Company						Lease or Unit Name Bluit 13 A Federal					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/21/94		Well No. 8			
Completion Date		Total Depth 4780'		Plug Back TD CIBP @		Elevation 3995.3'		Unit Ltr. - Sec. - TWP - Rge. H 13 8S 37E			
Csg. Size 4-1/2"	Wt. 9.5#	d	Set At 4767'	Perforations: 4558 To: 4583				County Roosevelt			
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 4460	Perforations: From: To:				Pool Bluit San Andres Assoc.			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		Formation San Andres			
Producing Thru Tubing		Reservoir Temp. °F 114		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Warren Pet.			
L 4460	H 4460	Gg 0.7364	% CO ₂	% N ₂	% H ₂ S 0.05	Prover Pos. Choke		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			1208		40	1208	40			72
1.		6/64	1192		58	1192	58			1
2.		8/64	1167		59	1167	59			1
3.		11/64	960		60	960	60			1
4.		13/64	890		60	890	60			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		1205.2	1.002	1.165	1.194	236.2
2.	0.2618		1180.2	1.001	1.165	1.188	128.1
3.	0.5090		973.2	1.000	1.165	1.148	662.5
4.	0.7208		903.2	1.000	1.165	1.135	860.8
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.804	518	1.292	0.701	A.P. I. Gravity of Liquid Hydrocarbons	Deg.
2.	1.767	519	1.294	0.709	Specific Gravity Separator Gas	0.7364 XXXXXXXXXXXX
3.	1.457	520	1.297	0.759	Specific Gravity Flowing Fluid	XXXXXX
4.	1.352	520	1.297	0.776	Critical Pressure	668 P.S.I.A. P.S.I.A.
5.					Critical Temperature	401 R R

p_c 1221.2 p_c 1491.3

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		1108.2	1228.0	263.3
2.		1097.4	1204.2	287.1
3.		977.9	956.3	535.0
4.		927.7	860.6	630.7
5.				

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.365}{2.365 - 2.365}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.365}{2.365 - 2.365}$$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2035}{2.365 - 2.365}$

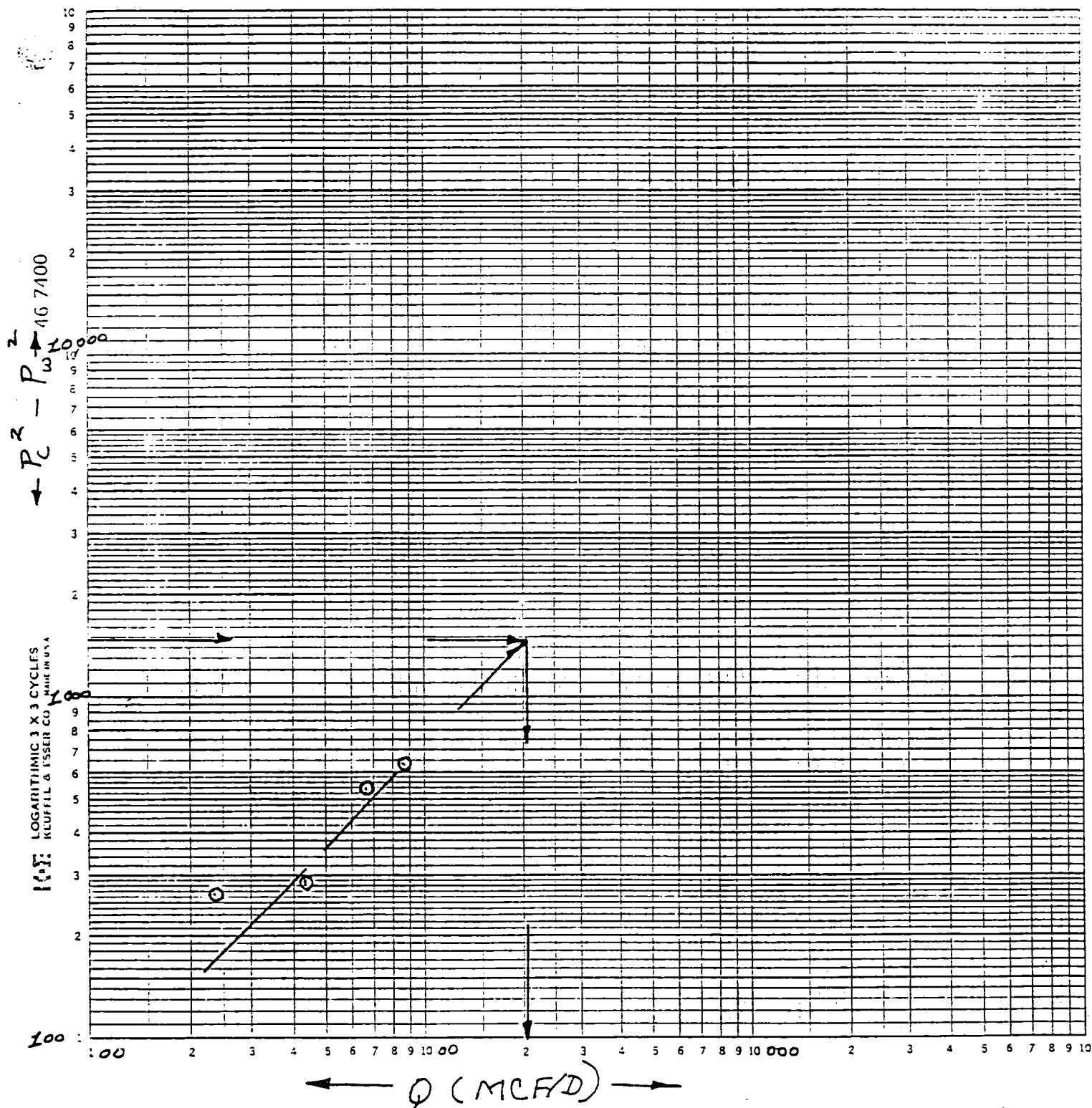
Absolute Open Flow 2035 Mcfd @ 15.025	Angle of Slope 45. deg	Slope, n 1
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Remarks: Pressure calculations based on BHP instrument data

Approved By Division	Conducted By: Subsurface Well Testing	Calculated By: John McDermett	Checked By:
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Plains Petroleum
 Bluff, San Andres Unit No 1308 General # 8
 Multipoint Back Pressure Curve
 12-21-1994

Jan 1
 Absolute Open Flow 2035 MCF



$$\theta = 45^\circ$$

$$\eta = 1.000$$