

Submit in duplicate to: VED
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 <u>Plains Petroleum Operating Co.</u>					Lease or Unit Name <u>Bluitt 18 FEDERAL</u>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <u>10/04/93</u>		Well No. <u>11</u>		
Completion Date <u>10-3-93</u>		Total Depth <u>4940'</u>		Plug Back TD <u>CIBP @ 4700'</u>		Elevation <u>3986.5'</u>		Unit Ltr. - Sec. - TWP - Rgc. <u>K - 18 - 8S - 38E</u>	
Csg. Size <u>5 1/2</u>	Wt. <u>14</u>	d <u>5.012</u>	Set At <u>4940</u>	Perforations: <u>4659</u>			Country <u>Roosevelt</u>		
				From: <u>4589</u>		To: <u>4654</u>			
Tbg. Size <u>2 3/8</u>	Wt. <u>4.7</u>	d <u>1.995</u>	Set At <u>4643</u>	Perforations:			Pool <u>Bluitt San Andres Assoc</u>		
				From:		To:			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At		Formation <u>San Andres P1</u>		
Producing Thru Annulus <u>114</u>		Reservoir Temp. °F <u>60</u>		Mean Annual Temp. °F <u>60</u>		Baro. Press - P _a <u>13.2</u>		Connection	
L <u>4589</u>	H <u>4589</u>	Gg <u>0.7364</u>	% CO ₂	% N ₂	% H ₂ S <u>0.05</u>	Prover Pos. <u>Chocke</u>	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			945		60			945	60	72
1.		1/8"	585		62	Pumping		585	62	24
2.										
3.										
4.										
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.	0.2618		598.2	0.9981	1.165	1.081	196.9
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.896	522	1.302	0.855	A.P. I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas <u>0.7364</u>	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure <u>668</u>	P.S.I.A. P.S.I.A.
5.					Critical Temperature <u>401</u>	R R

P _c <u>958.2</u>		P _c ² <u>918.1</u>	
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NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	357.8		357.8	560.3
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.639$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 322.7$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.639$

Absolute Open Flow <u>322.7</u> Mcfd @ 15.025	Angle of Slope θ <u>45 deg.</u>	Slope, n <u>1.0</u>
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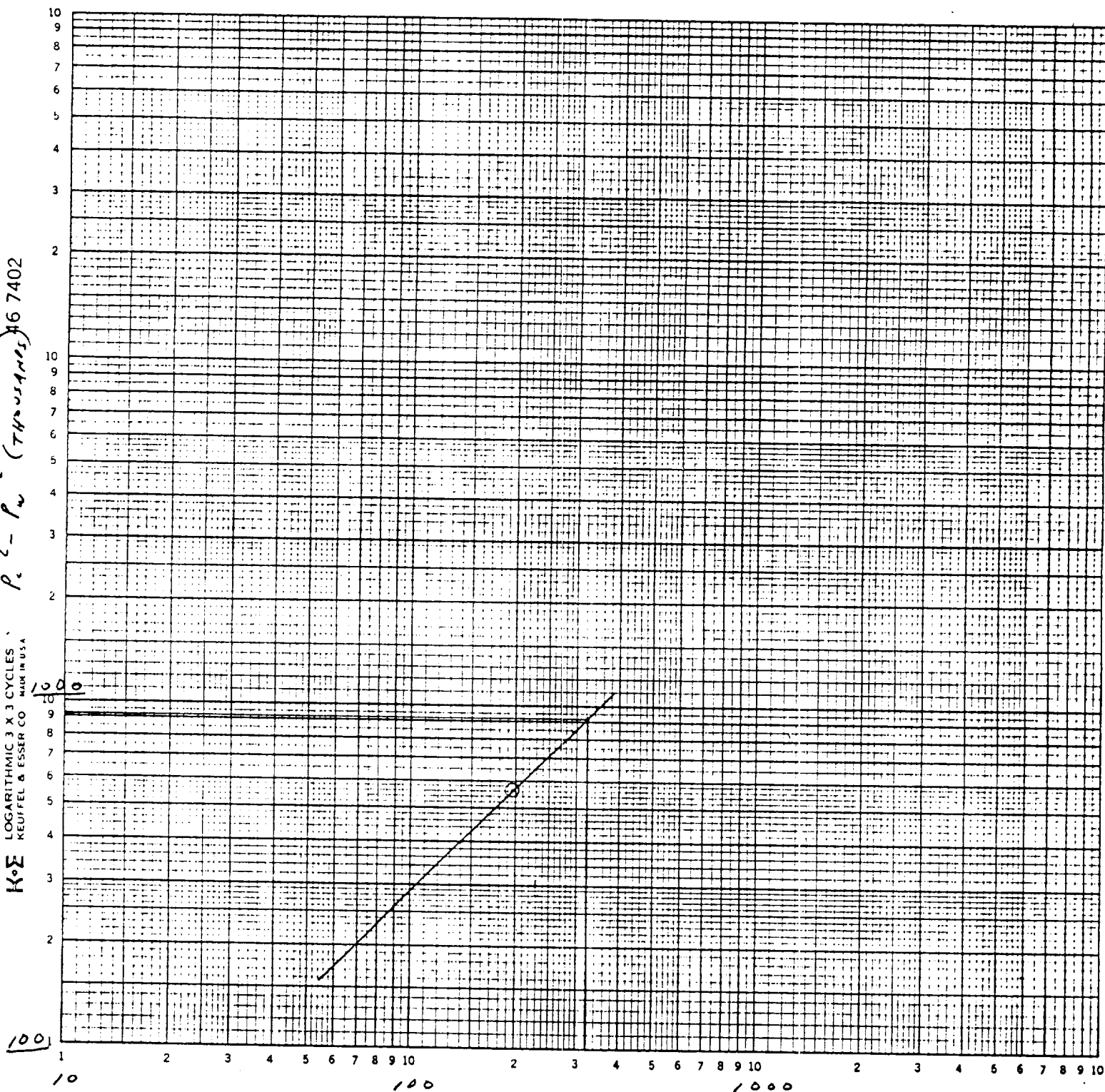
Remarks: Fluid pumped off through tubing; Gas produced up the annulus.
Friction negligible at this rate.

Approved By Division	Conducted By: <u>Subsurface Well Testing</u>	Calculated By:	Checked By:
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WELL 1811

$P_i^2 - P_w^2$ (THOUSANDS) #67402

K₀Σ LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

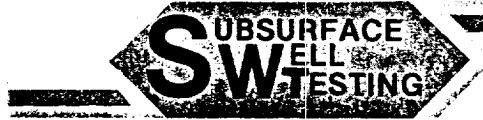


Q (MCFD)

$n = 1$
 $\theta = 45^\circ$

"Quality Testing of Oil & Gas Wells"

P. O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

STATIC FLOWING — B. H. PRESSURES

Plains Petroleum

Bluitt San Andres Unit # 1811

COMPANY _____ Well & No. _____

11/03/93

FIELD _____ Date _____ Instrument No. _____

DATE	STATUS	SERVICE TIME	ELAPSED TIME		D W T	BHP PSIG @
			HRS.	MIN.	TP	
11/04/93	Opened on an 8/64" ck.	10:00	00:00			945
	1st rate cont.	10:30	00:30			921
	1st rate cont.	11:00	01:00			894
	1st rate cont.	11:30	01:30			875
	1st rate cont.	12:00	02:00			861
11/05/93	1st rate cont.	08:00	22:00			592
	1st rate cont.	08:30	22:30			588
	1st rate cont.	09:00	23:00			581
	1st rate cont.	09:30	23:30			584
	1st rate cont.	10:00	24:00			585

THE ABOVE PRESSURES ARE PSIG.

NOV 10 11 07 AM '93
RECEIVED

COMPANY PLAINS PETROLEUM LEASE

WELL NO. 1

1181

DATE:

LOCATION: Unit _____ Section _____ Township _____ Range _____

Township_

Range:

L	4583	H	4589	L/H	/	G	0.7364	% CO ₂	_____	% N ₂	_____	% H ₂ S	0.05
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0.05

d _____ F_r _____ GH _____ 3379

P_{cr} 668 T_{cr} 701

829

Tcl -

TABLE IX

[illegible]