

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 <u>Plains Petroleum Operating Co.</u>						Lease or Unit Name: <u>Bluff San Andres Unit Sec 13</u>					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date <u>09/25/93</u>		Well No. <u>1306</u>			
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Loc. - Sec. - TWP - Rge. <u>E 13-8S-37E</u>			
Csg. Size	Wc	d	Set At	Perforations:				Country			
5 1/2	1550	4.95		From: 4504 To: 4579				Roosevelt			
Tbg. Size	Wc	d	Set At	Perforations:				Pool			
2 3/8	4.70	1995	4468	From: To:				<u>Bluff Assoc</u>			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>						Packer Set At		Formation <u>San Andres</u>			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P _a		Connection			
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
4467	4467	0.7364			0.05	Pos. Choke					

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			1270		60	1290	60	0		72
1.		6/64	1218		74	1218	74	0		1
2.		7/64	1150		75	1150	75	0		1
3.		8/64	1140		76	1140	76	0		1
4.		10/64	908		76	908	76	0		1
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	0.1406		1231.2	0.9868	1.165	1.170	232.8
2.	0.1968		1163.2	0.9859	1.165	1.159	304.7
3.	0.2618		1153.2	0.9850	1.165	1.155	400.1
4.	0.4173		921.2	0.9850	1.165	1.120	494.1
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	McObbl.
1.	1.8431	534	1.3317	0.731	A.P. I. Gravity of Liquid Hydrocarbons	Deg.
2.	1.7413	535	1.3342	0.745	Specific Gravity Separator Gas 0.7364	XXXXXXXXXX
3.	1.7263	536	1.3367	0.749	Specific Gravity Flowing Fluid	XXXXXX
4.	1.3790	536	1.3367	0.797	Critical Pressure 668 P.S.I.A.	P.S.I.A.
5.					Critical Temperature 401 R	R

P _e 1265 P _w 1600.2						
NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²	1) $\frac{P_e^2}{P_e^2 - P_w^2} = 2.011$	2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.418$
1.		1208.7	1461.0	133.2		
2.		1144.8	1310.6	289.6		
3.		1134.4	1286.9	313.3		
4.		897.0	804.6	795.6		
5.						

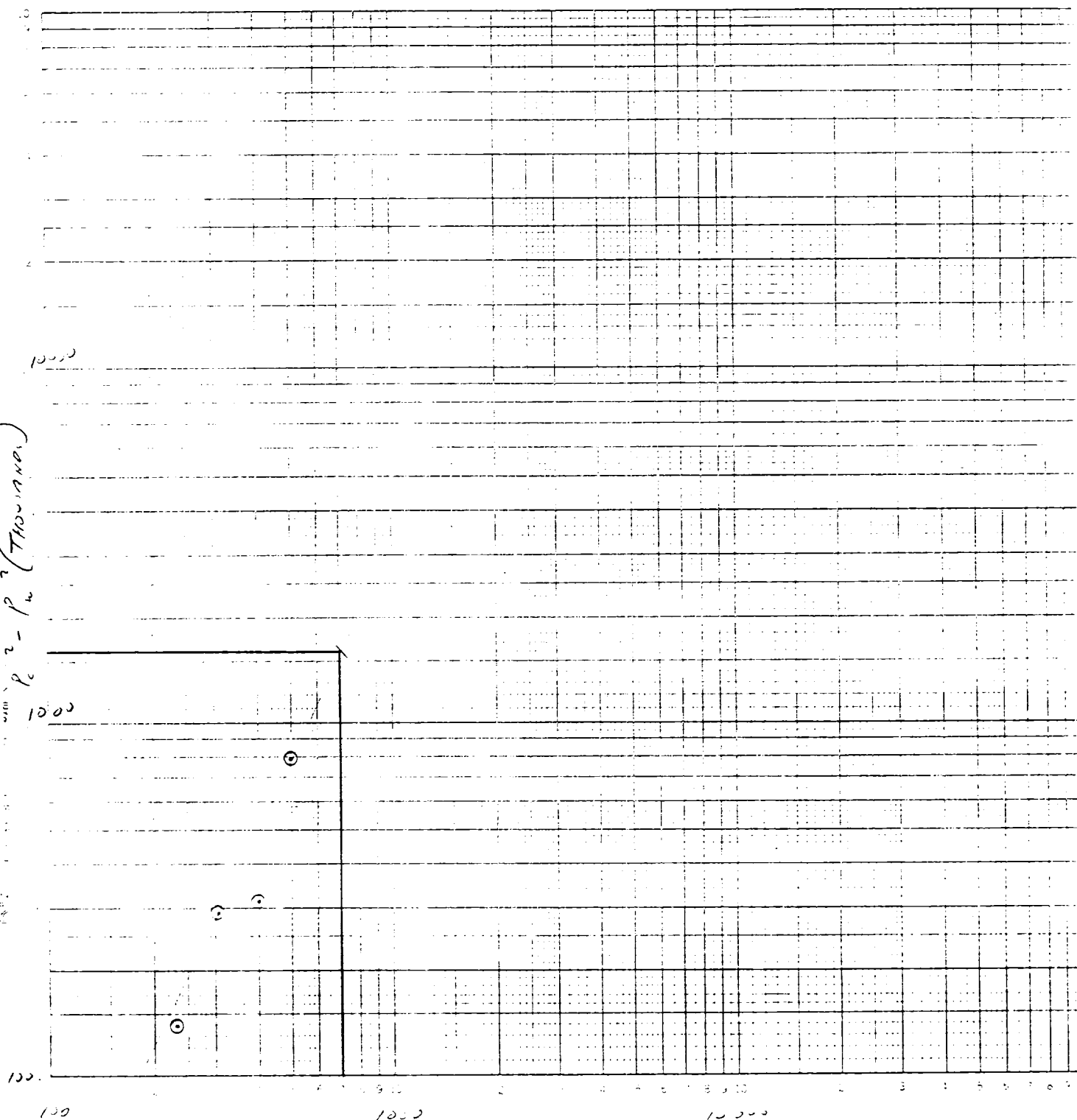
Absolute Open Flow 700.6 Mcfd @ 15.025		Angle of Slope θ 63.4 deg.		Slope, n 0.5	
Remarks:					
Approved By Division		Conducted By:		Calculated By:	

Plains Petroleum Operating Co.
 Bluit San Andres Unit
 Well #1306

46 7402

$p_e^2 - p_w^2$ (THOUSANDS)

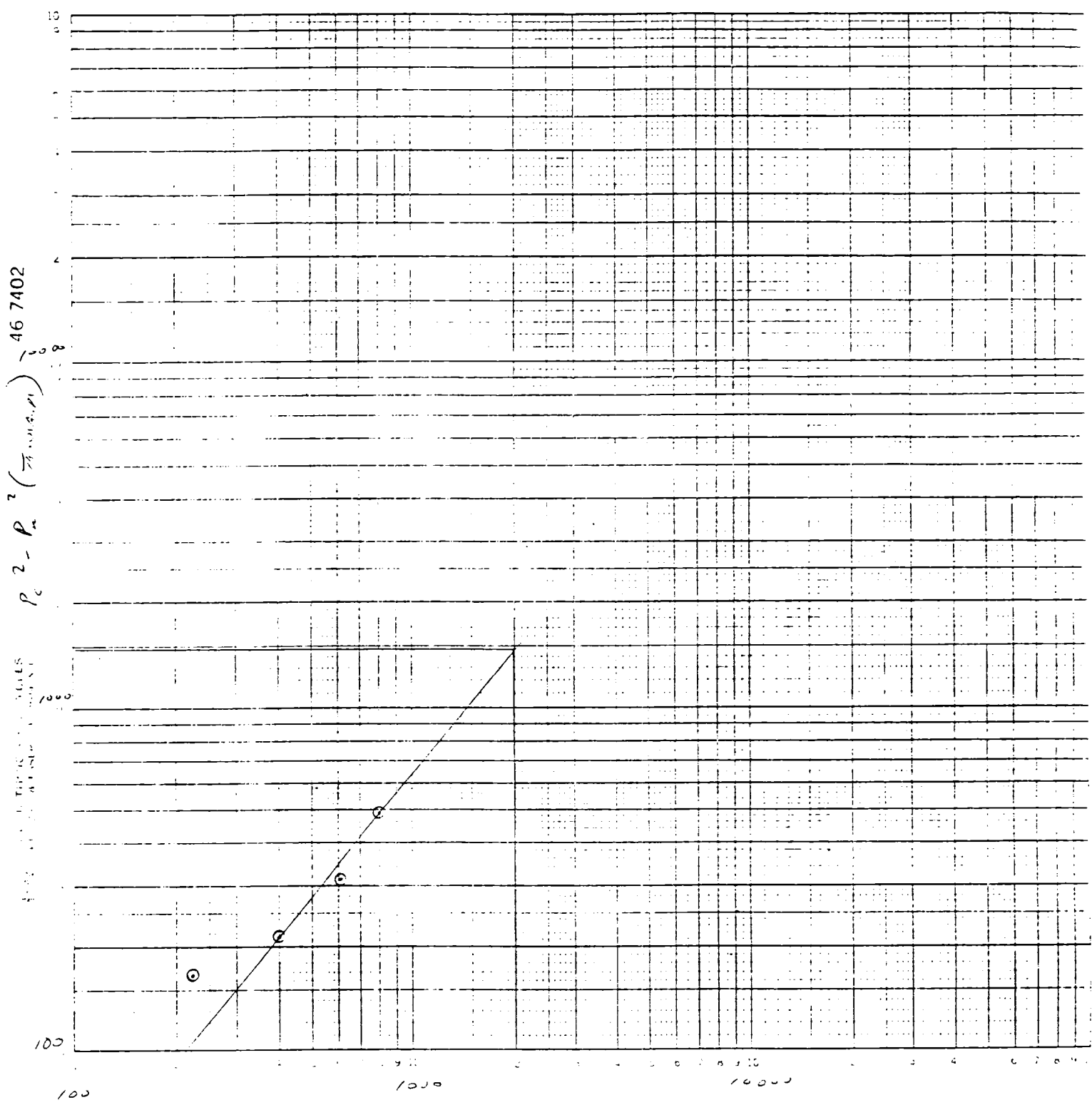
Fig. 1. Pressure drop in the wellbore.



Q (MCFD)

$n = 5$

Plains Petroleum Operating Company
 Bluit San Andres Unit
 Well #1306



$Q (\text{mcf/d})$

$n = 0.835$

P.O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

BOTTOM HOLE PRESSURE REPORT

Operator Plains Petroleum Operating Lease Bluitt San Andres Well 1306
Field _____ Reservoir _____
Test Date 10/07/93 Well Status Static Hrs Shut In _____
Tubing 2 3/8 Depth _____ End _____ Packer 4469 S. N. 4468
Casing 5 1/2 Depth _____ Perf 4504 - 4577 Total Depth _____

		Depth (feet)	Pressure (psig)	Delta Pressure	Gradient (psi/ft)
Tubing Pres.	<u>1219</u>	0	1219		
Casing Pres.		1000	1259	40	0.040
Top of Fluid	<u>None</u>	2000	1298	39	0.039
Top of Water	<u>None</u>	3000	1338	40	0.040
Temp. @		4000	1377	39	0.039
Degrees F.		4268	1388	11	0.041
Elev. KB		4468	1396	8	0.040
Elev GL					
Datum		75	3		
Last Test Date	<u>/ /</u>	4543	1399	Ctr. of Perfs. 0.040	
Press. Last Test					
Pres. Change					
Change per Day					
Inst. No.	<u>59157</u>				
Calibration	<u>11-4</u>				
Tested By	<u>Allen</u>				
Calculated By	<u>Allen</u>				

Remarks--

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w).

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_g)

COMPANY _____ LEASE _____ WELL NO. 1306 DATE _____
 LOCATION: Unit _____ Section _____ Township _____ Range _____
 L 9467 H 4467 L/H 1 G 0.736+ %CO₂ _____ %N₂ _____ %H₂S 0.05
 GH 3289 P_{cr} 663 T_{cr} 401
TABLE IX B X TABLE IX B X

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	520						
2	$T_g(B.H. \cdot R)$	574						
3	$T = (\frac{T_w + T_g}{2})$	547						
4	Z (Est.)	0.7	0.744	0.743				
5	TZ	382.9	407.0	406.4				
6	GH/TZ	8.590	8.081	8.093				
7	e^S (Table XIV)	1.380	1.354	1.355				
8	P_f or P_g	1412.2	1412.2	1412.2				
9	P_f^2 or P_g^2	1994.3	1994.3	1994.3				
10	$P_c^2 = P_f^2/e^S$ or $P_w^2 = P_g^2/e^S$	1445.1	1472.9	1471.8				
11	P_c or P_w	1202.1	1213.6	1213.2				
12	$P = (\frac{P_w + P_g}{2})$ or $(\frac{P_c + P_f}{2})$	1207.2	1312.9	1312.7				
13	$P_r = (P/P_{cr})$	1.957	1.965	1.965				
14	$T_r = (T/T_{cr})$	1.364	1.364	1.364				
15	Z (Table XI)	0.744	0.743	0.743				

**WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_g)**

Form C-122F
Adopted 9-1-65

COMPANY _____ LEASE _____ WELL NO. 1306 DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____

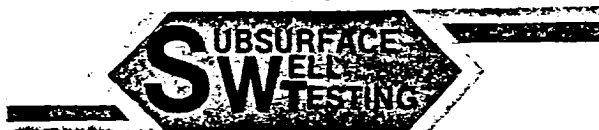
L 4467 H 4467 L/H 1 G 0.7364 %CO₂ _____ %N₂ _____ %H₂S 0.05

GH 3289 P_{ct} 668 T_{ct} 401
TABLE IX & X TABLE IX & X

FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4

LINE		1	2	3	4	5	6	7	8
1	$T_w(W.H. \text{ } ^\circ R)$	523		528		528		529	
2	$T_g(B.H. \text{ } ^\circ R)$	574		574		574		574	
3	$T = (\frac{T_w}{2} + T_g)$	548.5		551.0		551.0		551.5	
4	Z (Est.)	0.77	0.758	0.77	0.766	0.78	0.775	0.79	0.792
5	TZ	422.3	415.8	424.3	422.1	429.8	427.0	435.7	436.8
6	GH/TZ	7.788	7.910	7.752	7.792	7.652	7.703	7.549	7.530
7	e^S (Table XIV)	1.339	1.345	1.337	1.339	1.332	1.335	1.327	1.326
8	P_f or P_s	1325.2	1325.2	1297.2	1297.2	1242.2	1242.2	1141.2	1141.2
9	P_f^2 or P_s^2	1756.2	1756.2	1682.7	1682.7	1543.1	1543.1	1302.3	1302.3
10	$P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	1311.6	1305.7	1258.6	1256.7	1158.5	1155.9	981.4	982.1
11	P_c or P_w	1145.3	1142.7	1121.9	1121.0	1076.3	1075.1	990.7	991.0
12	$P_c (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	1235.3	1234.0	1209.6	1209.1	1159.3	1158.7	1066.0	1066.1
13	$P_r = (P/P_{cr})$	1.849	1.847	1.811	1.810	1.735	1.735	1.596	1.596
14	$T_r = (T/T_{cr})$	1.368	1.368	1.374	1.374	1.374	1.374	1.375	1.375
15	Z (Table XI)	0.758	0.758	0.766	0.766	0.775	0.775	0.792	0.792

"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 # 1306

COMPANY _____ Well & No. _____

10/07/93

59157

FIELD _____ Date _____ Instrument No. _____

DATE	STATUS	SERVICE TIME	ELAPSED TIME		D W T TP	BHP PSIG @ 4468'
			HRS.	MIN.		

09/25/93	In Lubricator	08:30			1220	
	On Bottom	08:45			1220	1399
	Opened on a 6/64" ck.	09:00	00:00		1220	1399
	1st rate cont.	09:15	00:15		1160	1325
	1st rate cont.	09:30	00:30		1150	1319
	1st rate cont.	09:45	00:45		1148	1318
	1st rate ended	10:00	01:00		1145	1312
	Opened on an 8/64" ck.	10:00	00:00		1145	1312
	1st rate cont.	10:15	00:15		1136	1304
	1st rate cont.	10:30	00:30		1129	1295
	1st rate cont.	10:45	00:45		1126	1290
	1st rate ended	11:00	01:00		1122	1284
	Opened on a 10/64" ck.	11:00	00:00		1122	1284
	1st rate cont.	11:15	00:15		1103	1262
	1st rate cont.	11:30	00:30		1093	1249
	1st rate cont.	11:45	00:45		1080	1237
	1st rate ended	12:00	01:00		1070	1229
	Opened on a 12/64" ck.	12:00	00:00		1070	1229
	1st rate cont.	12:15	00:15		1024	1188
	1st rate cont.	12:30	00:30		1009	1162
	1st rate cont.	12:45	00:45		1000	1146
	1st rate ended	13:00	01:00		985	1128

THE ABOVE PRESSURES ARE PSIG.

"Quality Testing of Oil & Gas Wells"

P.O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

Company--Plains Petroleum

Well & No.--Bluitt #1306

Field--

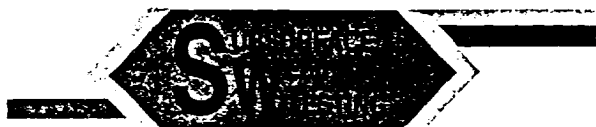
Date--10-09-1993

Instrument #--59157

Date		Status	Service Time	Elapsed Time Hrs. Min.	DWT TP	EHP PSIG @ 4486
10/07/93	Inst. in Lubricator		13:50		1105	
	Inst. on Bottom		14:00			1261.5
	Well Opened		14:00	00:00		1261.5
	Drawdown Cont.		14:06	00:06		1204.2
	Drawdown Cont.		14:12	00:12		1188.6
	Drawdown Cont.		14:18	00:18		1180.4
	Drawdown Cont.		14:24	00:24		1175.0
	Drawdown Cont.		14:30	00:30		1148.0
	Drawdown Cont.		14:36	00:36		1145.2
	Drawdown Cont.		14:42	00:42		1131.8
	Drawdown Cont.		14:48	00:48		1122.1
	Drawdown Cont.		14:54	00:54		1130.4
	Drawdown Cont.		15:00	01:00		1112.2
	Drawdown Cont.		15:15	01:15		1085.6
	Drawdown Cont.		15:30	01:30		1080.4
	Drawdown Cont.		15:45	01:45		1072.7
	Drawdown Cont.		16:00	02:00		1083.8
	Drawdown Cont.		16:30	02:30		1097.0
	Drawdown Cont.		17:00	03:00		1104.5

"Quality Testing of Oil & Gas Wells"

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MIDLAND, TEXAS 79704



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915/682-7580

Company--Plains Petroleum

Well & No.--Bluitt #1306

Field--

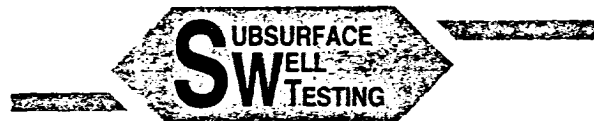
Date--10-09-1993

Instrument #--59157

		Service Elapsed Time		DWT	BHP PSIG @
Date	Status	Time	Hrs. Min.	TP	4486
	Drawdown Cont.	17:30	03:30		1105.5
10/07/93	Drawdown Cont.	18:00	04:00		1087.7
	Drawdown Cont.	18:30	04:30		1069.0
	Drawdown Cont.	19:00	05:00		1048.2
	Drawdown Cont.	20:00	06:00		986.0
	Drawdown Cont.	21:00	07:00		965.7
	Drawdown Cont.	22:00	08:00		1018.0
	Drawdown Cont.	23:00	09:00		996.1
	Drawdown Cont.	24:00	10:00		957.6
10/8/93	Drawdown Cont.	01:00	11:00		957.6
	Drawdown Cont.	02:00	12:00		924.4
	Drawdown Cont.	03:00	13:00		934.9
	Drawdown Cont.	04:00	14:00		1003.2
	Drawdown Cont.	05:00	15:00		1056.9
	Drawdown Cont.	06:00	16:00		953.6
	Drawdown Cont.	07:00	17:00		934.9
	Drawdown Cont.	08:00	18:00		897.2
	Drawdown Cont.	09:00	19:00		940.4
	Drawdown Cont.	10:00	20:00		926.2

"Quality Testing of Oil & Gas Wells"

P.O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

Company--Plains Petroleum

Well & No.--Bluitt #1306

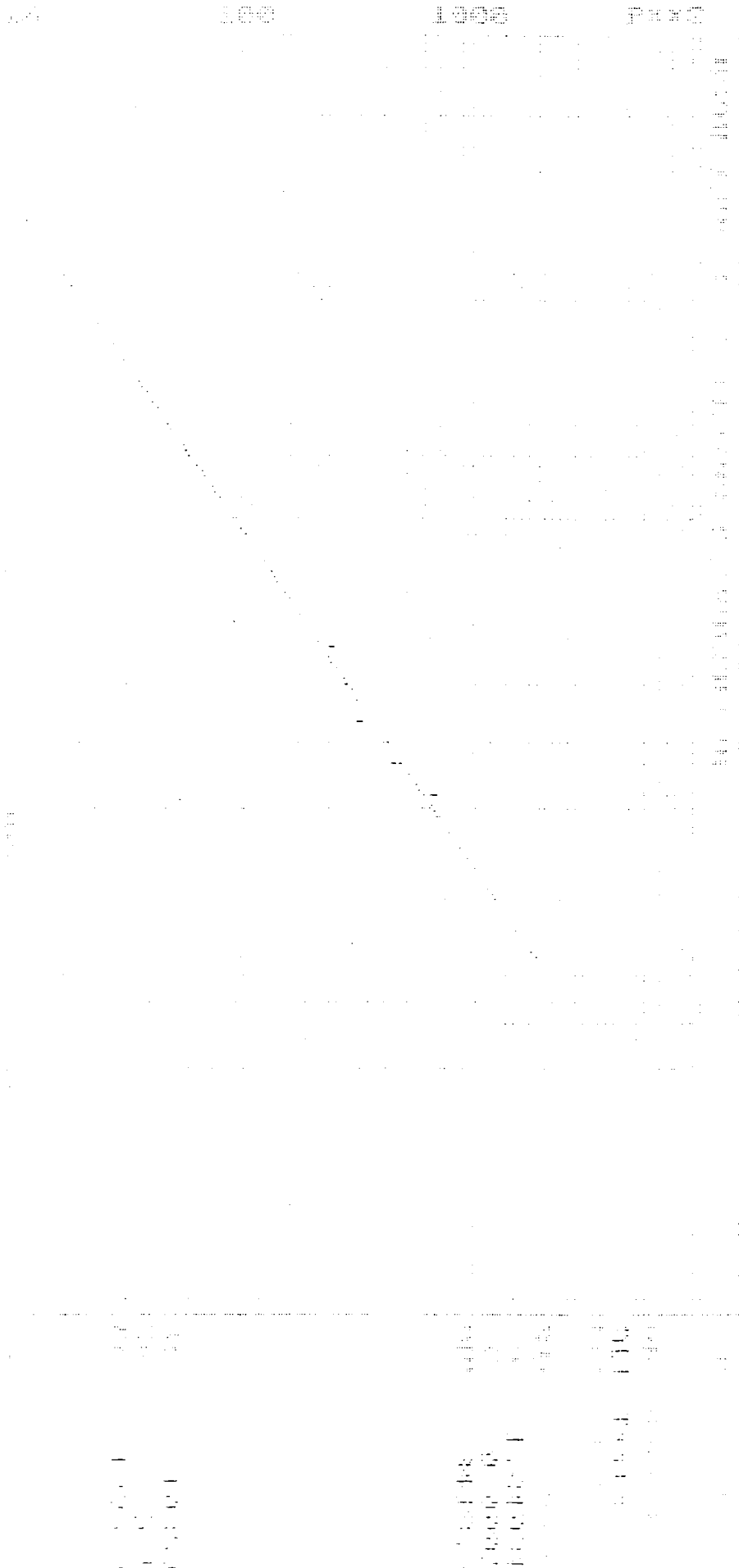
Field--

Date--10-09-1993

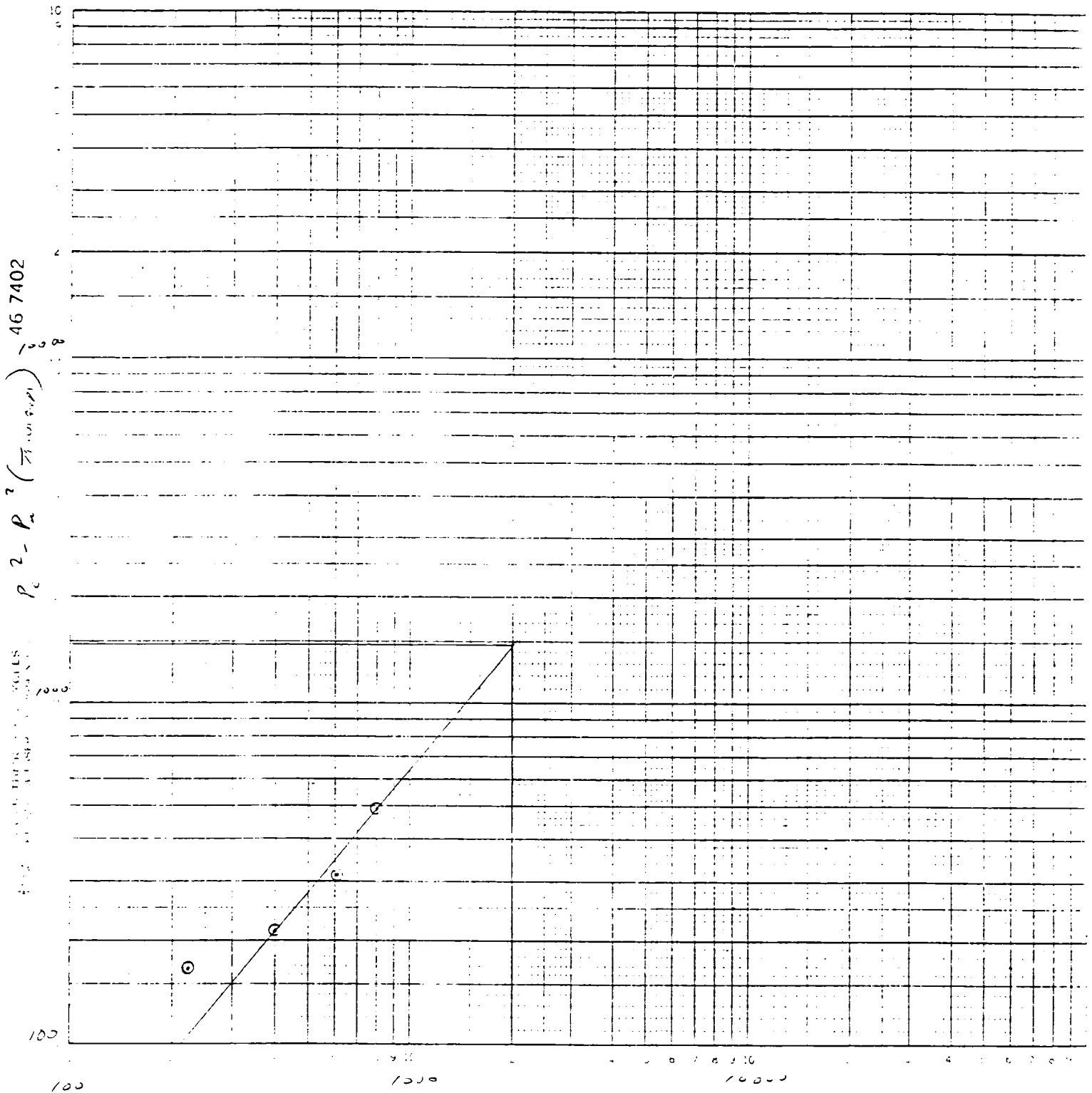
Instrument #--59157

		Service Elapsed Time		DWT	BHP PSIG @
Date	Status	Time	Hrs. Min.	TP	4486
	Drawdown Cont.	11:00	21:00		884.7
10/8/93	Drawdown Cont.	12:00	22:00		828.0
	Drawdown Cont.	13:00	23:00		764.0
	Drawdown Cont.	14:00	24:00		689.7

BOTTOM HOLE PRESSURES & Corrected Rates



Plains Petroleum Operating Company
 Bluitt San Andres Unit
 Well #1306



$Q (\text{MCFD})$

$n = 0.835$

"Quality Testing of Oil & Gas Wells"

P.O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

Company--Plains Petroleum

Well & No.--Bluett #1306

Field--

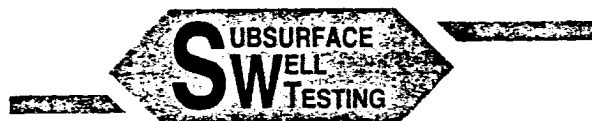
Date--10-09-1993

Instrument #--59157

=====		Service Elapsed Time		DWT	BHP PSIG @
Date	Status	Time	Hrs. Min.	TP	4486
=====					
10/07/93	Inst. in Lubricator	13:50		1105	
	Inst. on Bottom	14:00			1261.5
	Well Opened	14:00	00:00		1261.5
	Drawdown Cont.	14:06	00:06		1204.2
	Drawdown Cont.	14:12	00:12		1188.6
	Drawdown Cont.	14:18	00:18		1180.4
	Drawdown Cont.	14:24	00:24		1175.0
	Drawdown Cont.	14:30	00:30		1148.0
	Drawdown Cont.	14:36	00:36		1145.2
	Drawdown Cont.	14:42	00:42		1131.8
	Drawdown Cont.	14:48	00:48		1122.1
	Drawdown Cont.	14:54	00:54		1130.4
	Drawdown Cont.	15:00	01:00		1111.2
	Drawdown Cont.	15:15	01:15		1085.6
	Drawdown Cont.	15:30	01:30		1080.4
	Drawdown Cont.	15:45	01:45		1072.7
	Drawdown Cont.	16:00	02:00		1083.8
	Drawdown Cont.	16:30	02:30		1097.0
	Drawdown Cont.	17:00	03:00		1104.5

"Quality Testing of Oil & Gas Wells"

P.O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

Company--Plains Petroleum

Well & No.--Bluitt #1306

Field--

Date--10-09-1993

Instrument #--59157

		Service Time	Elapsed Time Hrs. Min.	DWT TP	BHP PSIG @ 4486
Date	Status				
	Drawdown Cont.	17:30	03:30		1105.5
10/07/93	Drawdown Cont.	18:00	04:00		1087.7
	Drawdown Cont.	18:30	04:30		1069.0
	Drawdown Cont.	19:00	05:00		1048.2
	Drawdown Cont.	20:00	06:00		986.0
	Drawdown Cont.	21:00	07:00		965.7
	Drawdown Cont.	22:00	08:00		1018.0
	Drawdown Cont.	23:00	09:00		996.1
	Drawdown Cont.	24:00	10:00		957.6
10/8/93	Drawdown Cont.	01:00	11:00		957.6
	Drawdown Cont.	02:00	12:00		924.4
	Drawdown Cont.	03:00	13:00		934.9
	Drawdown Cont.	04:00	14:00		1003.2
	Drawdown Cont.	05:00	15:00		1056.9
	Drawdown Cont.	06:00	16:00		953.6
	Drawdown Cont.	07:00	17:00		934.9
	Drawdown Cont.	08:00	18:00		897.2
	Drawdown Cont.	09:00	19:00		940.4
	Drawdown Cont.	10:00	20:00		926.2

"Quality Testing of Oil & Gas Wells"

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Company--Plains Petroleum

Well & No.--Bluitt #1306

Field--

Date--10-09-1993

Instrument #--59157

		Service Elapsed Time		DWT	BHP PSIG @
Date	Status	Time	Hrs. Min.	TP	4486
	Drawdown Cont.	11:00	21:00		884.7
10/6/93	Drawdown Cont.	12:00	22:00		828.0
	Drawdown Cont.	13:00	23:00		764.0
	Drawdown Cont.	14:00	24:00		689.7

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

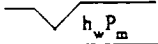
OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>Plains Petroleum Operating Company</u>					Lease or Unit Name <u>Bluitt Federal</u>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <u>10/07/93</u>		Well No. <u>1306</u>		
Completion Date		Total Depth <u>4820'</u>		Plug Back TD <u>CIBP @ 4610'</u>		Elevation <u>Gr 4016.3'</u>		Unit Lr. - Sec. - TWP - Rge. <u>F 13 8S 37E</u>	
Csg. Size	Wt. d	Set At	Perforations:			County			
<u>5 1/2</u>	<u>1550</u>	<u>4.95</u>	From: <u>4504</u> To: <u>4577</u>			<u>Roosevelt</u>			
Tbg. Size	Wt. d	Set At	Perforations:			Pool			
<u>2 3/8</u>	<u>4.7</u>	<u>1995</u>	From: To:			<u>Blutit San Andres Assoc.</u>			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>					Packer Set At <u>4469</u>		Formation <u>San Andres</u>		
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P _a		Connection	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
		<u>0.7364</u>				<u>Pos.</u>	<u>Choke</u>		

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			<u>1220</u>		<u>60°</u>	<u>1220</u>	<u>60°</u>	<u>Pkg</u>		<u>72</u>
1.	<u>6/64"</u>		<u>1145</u>		<u>63°</u>	<u>1145</u>	<u>63°</u>			<u>1</u>
2.	<u>8/64"</u>		<u>1122</u>		<u>68°</u>	<u>1122</u>	<u>68°</u>			<u>1</u>
3.	<u>10/64</u>		<u>1070</u>		<u>68°</u>	<u>1070</u>	<u>68°</u>			<u>1</u>
4.	<u>12/64"</u>		<u>985</u>		<u>69°</u>	<u>985</u>	<u>69°</u>			<u>1</u>
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	<u>.1406</u>		<u>1158.2</u>	<u>.9971</u>	<u>1.165</u>	<u>1.177</u>	<u>222.6</u>
2.	<u>.2618</u>		<u>1135.2</u>	<u>.9924</u>	<u>1.165</u>	<u>1.165</u>	<u>400.3</u>
3.	<u>.4173</u>		<u>1083.2</u>	<u>.9924</u>	<u>1.165</u>	<u>1.156</u>	<u>604.1</u>
4.	<u>.6101</u>		<u>998.2</u>	<u>.9915</u>	<u>1.165</u>	<u>1.140</u>	<u>801.9</u>
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	<u>1.7338</u>	<u>523</u>	<u>1.3042</u>	<u>0.722</u>	A.P. L Gravity of Liquid Hydrocarbons	Deg.
2.	<u>1.6994</u>	<u>528</u>	<u>1.3167</u>	<u>0.737</u>	Specific Gravity Separator Gas <u>0.7364</u>	<u>XXXXXXXXXX</u>
3.	<u>1.6216</u>	<u>528</u>	<u>1.3167</u>	<u>0.743</u>	Specific Gravity Flowing Fluid <u>XXXXXX</u>	<u>-</u>
4.	<u>1.4943</u>	<u>529</u>	<u>1.3192</u>	<u>0.769</u>	Critical Pressure <u>668</u> P.S.I.A.	P.S.I.A.
5.					Critical Temperature <u>401</u> °P	°R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		<u>1142.7</u>	<u>1305.7</u>	<u>166.1</u>
2.		<u>1121.0</u>	<u>1256.7</u>	<u>215.1</u>
3.		<u>1075.1</u>	<u>1155.9</u>	<u>315.9</u>
4.		<u>991.0</u>	<u>982.1</u>	<u>489.7</u>
5.				

P_c 1213.2 P_c² 1471.8

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3.006}{}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2010.4}{}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.507}{}$

Absolute Open Flow <u>2010.4</u> Mcfd @ 15.025	Angle of Slope θ <u>50.14</u> deg	Slope, n <u>0.835</u>
--	--	-----------------------

Remarks:

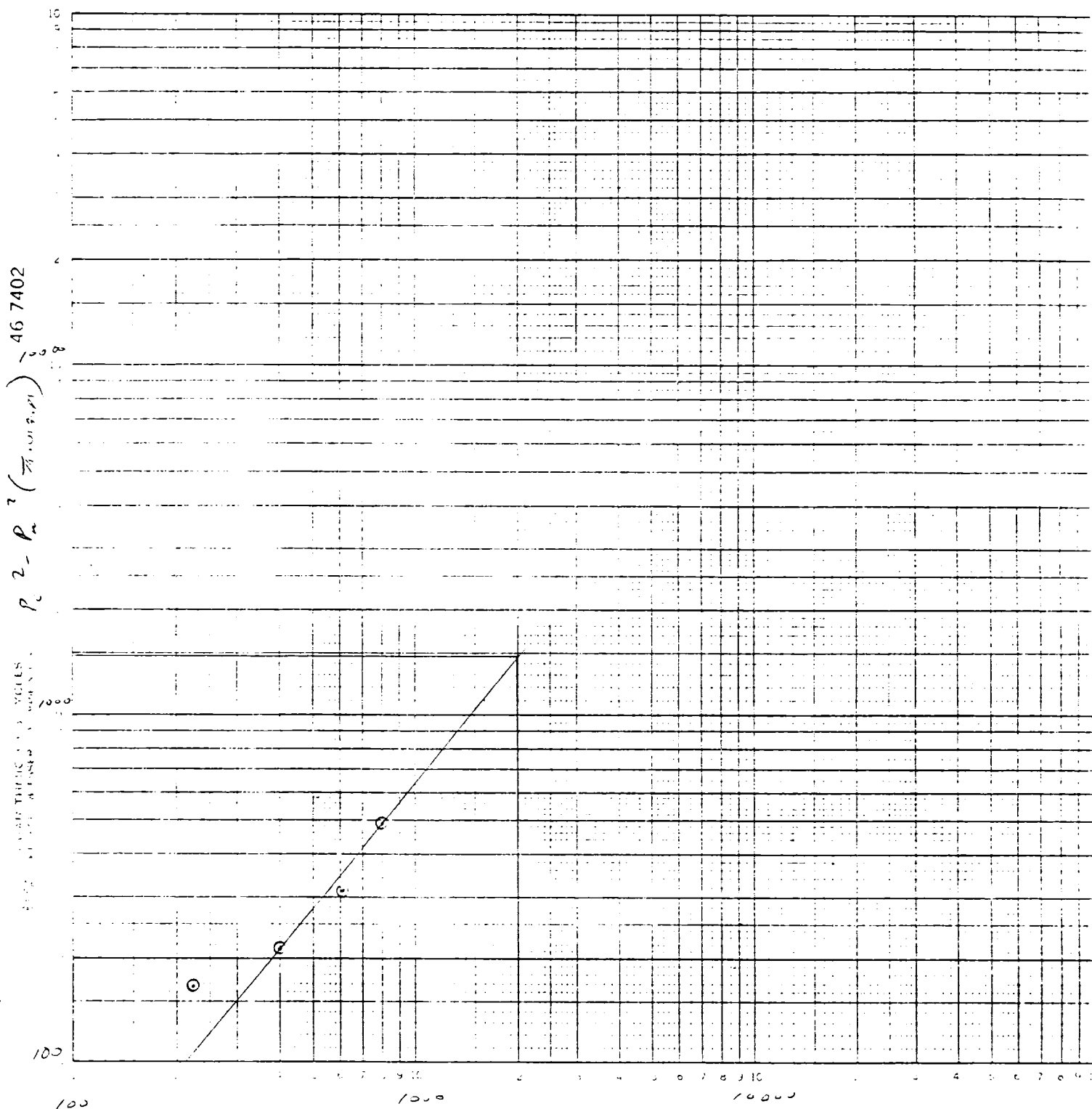
Approved By Division

Conducted By:

Calculated By:

Checked By:

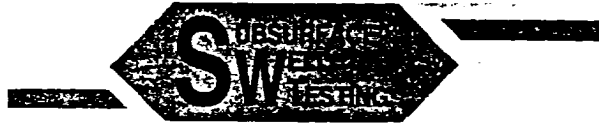
...ns Petroleum Operating L any
 Bluitt San Andres Unit
 Well #1306



Q (MCFD)

$n = 0.835$

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MIDLAND, TEXAS 79704



PHONE
915/682-7580

BOTTOM HOLE PRESSURE REPORT

Operator Plains Petroleum Operating Lease Bluitt San Andres Well 1306
Field _____ Reservoir _____
Test Date 10/07/93 Well Status Static Hrs Shut In _____
Tubing 2 3/8 Depth _____ End _____ Packer 4469 S. N. 4468
Casing 5 1/2 Depth _____ Perf 4504 - 4572 Total Depth _____

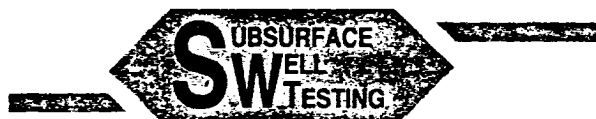
Depth (feet)	Pressure (psig)	Delta Pressure	Gradient (psi/ft)
-----------------	--------------------	-------------------	----------------------

Tubing Pres.	<u>1219</u>	0	1219		
Casing Pres.	_____	1000	1259	40	0.040
Top of Fluid	<u>None</u>	2000	1298	39	0.039
Top of Water	<u>None</u>	3000	1338	40	0.040
Temp. @	_____	4000	1377	39	0.039
Degrees F.	_____	4268	1388	11	0.041
Elev. KB	_____	4468	1396	8	0.040
Elev GL	_____				
Datum	_____	75	3		
Last Test Date	<u>/ /</u>	4543	1399	Ctr. of Perfs. 0.040	
Press. Last Test	_____				
Pres. Change	_____				
Change per Day	_____				
Inst. No.	<u>59157</u>				
Calibration	<u>11-4</u>				
Tested By	<u>Allen</u>				
Calculated By	<u>Allen</u>				

Remarks--

"Quality Testing of Oil & Gas Wells"

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Company--Plains Petroleum

Well & No.--Bluitt #1306

Field--

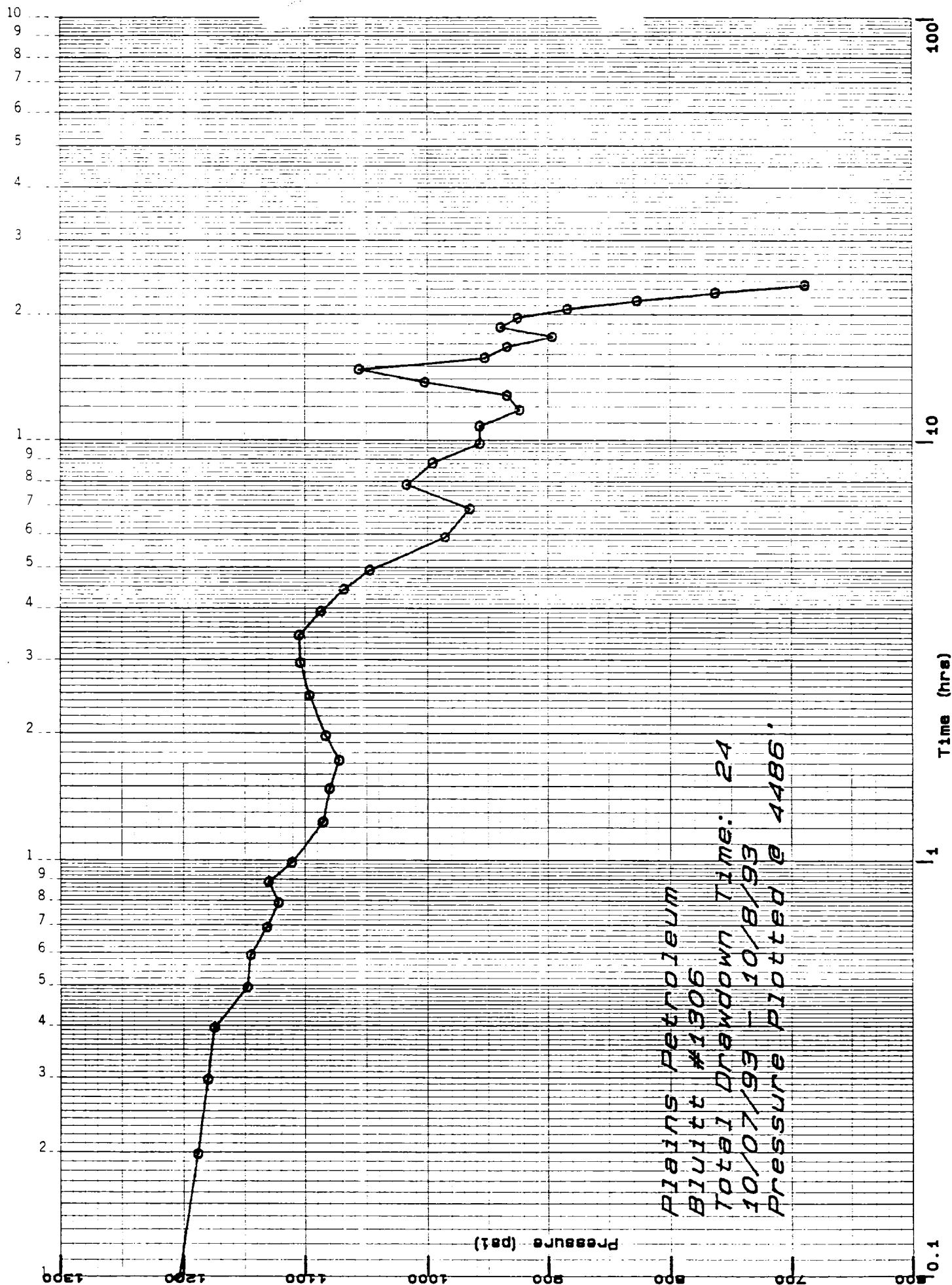
Date--10-09-1993

Instrument #--59157

		Service Elapsed Time		DWT	BHP PSIG @
Date	Status	Time	Hrs. Min.	TP	4486
	Drawdown Cont.	17:30	03:30		1105.5
10/07/93	Drawdown Cont.	18:00	04:00		1087.7
	Drawdown Cont.	18:30	04:30		1069.0
	Drawdown Cont.	19:00	05:00		1048.2
	Drawdown Cont.	20:00	06:00		986.0
	Drawdown Cont.	21:00	07:00		965.7
	Drawdown Cont.	22:00	08:00		1018.0
	Drawdown Cont.	23:00	09:00		996.1
	Drawdown Cont.	24:00	10:00		957.6
10/8/93	Drawdown Cont.	01:00	11:00		957.6
	Drawdown Cont.	02:00	12:00		924.4
	Drawdown Cont.	03:00	13:00		934.9
	Drawdown Cont.	04:00	14:00		1003.2
	Drawdown Cont.	05:00	15:00		1056.9
	Drawdown Cont.	06:00	16:00		953.6
	Drawdown Cont.	07:00	17:00		934.9
	Drawdown Cont.	08:00	18:00		897.2
	Drawdown Cont.	09:00	19:00		940.4
	Drawdown Cont.	10:00	20:00		926.2

46 5490

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STATIC-FLOWING — B. H. PRESSURES

Plains Petroleum

Bluitt San Andres Unit # 1306

COMPANY _____ Well & No. _____

10/07/93

59157

FIELD _____ Date _____ Instrument No. _____

DATE	STATUS	SERVICE TIME	ELAPSED TIME		D W T TP	BHP PSIG @ 4468'
			HRS.	MIN.		

09/25/93	In Lubricator	08:30			1220	
	On Bottom	08:45			1220	1399
	Opened on a 6/64" ck.	09:00	00:00		1220	1399
	1st rate cont.	09:15	00:15		1160	1325
	1st rate cont.	09:30	00:30		1150	1319
	1st rate cont.	09:45	00:45		1148	1318
	1st rate ended	10:00	01:00		1145	1312
	Opened on an 8/64" ck.	10:00	00:00		1145	1312
	1st rate cont.	10:15	00:15		1136	1304
	1st rate cont.	10:30	00:30		1129	1295
	1st rate cont.	10:45	00:45		1126	1290
	1st rate ended	11:00	01:00		1122	1284
	Opened on a 10/64" ck.	11:00	00:00		1122	1284
	1st rate cont.	11:15	00:15		1103	1262
	1st rate cont.	11:30	00:30		1093	1249
	1st rate cont.	11:45	00:45		1080	1237
	1st rate ended	12:00	01:00		1070	1229
	Opened on a 12/64" ck.	12:00	00:00		1070	1229
	1st rate cont.	12:15	00:15		1024	1188
	1st rate cont.	12:30	00:30		1009	1162
	1st rate cont.	12:45	00:45		1000	1146
	1st rate ended	13:00	01:00		985	1128

THE ABOVE PRESSURES ARE PSIG.