

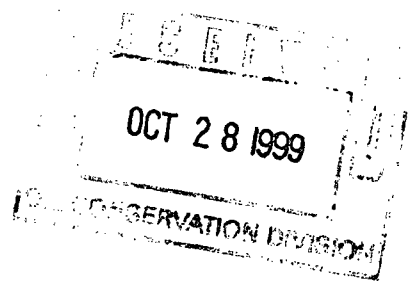


Texaco E & P

205 E. Bender Blvd.
Hobbs NM 88240
505 393 7191

1P1-123 N/R

New Mexico Oil Conservation Division
2040 South Pacheco St.
Santa Fe, N.M., 87505
Attention: Mr. Ben Stone



Re: Request for Increase in Surface Injection Pressure Limits
Texaco Exploration and Production Inc.
West Vacuum Unit
T-17/18S-R34E, Lea County, New Mexico

Dear Mr. Stone:

Texaco requests that the surface injection pressure limit be increased for the following wells:

	<u>Well No.</u>	<u>Observed Surface Parting Pressure</u>	<u>Requested Permitted Injection Pressure</u>
P-34-175-34E	West Vacuum Unit #57	no parting pressure 1760	2000 psig 1710
B-3-185-34E	West Vacuum Unit #58	1735 psig	1685 psig
I-34-175-34E	West Vacuum Unit #60	no parting pressure 1940	2000 psig 1890
A-34-175-34E	West Vacuum Unit #68	1350 psig	1300 psig

The Step-Rate-Tests and the results of the testes are attached.
The higher injection limits are requested to obtain more injection and better sweep efficiency in the patterns. Should you have any question and/or concern, please do not hesitate to contact me at (505) 3970429.

Kind Regards


Slamak Safargar
Production Engineer

Attachments

cc: Mr. Chris Williams
Hobbs NMOCD

LIGHTFOOT WIRELINE SERVICE. INC.

STEP RATE TEST

TEXACO E & P INC.
WEST VACUMM UNIT #57
WEST VACUMM FIELD

10/21/99
LEA COUNTY

WELL DATA

WELL STATUS: SHUT-IN
PRESSURE DATUM: 4579'
TUBING: 2 3/8"
CASING: 5 1/2"
PERFS: 4482-4676'
FORMATION: SAN ANDRES
PACKER DEPTH: 4434'
T.D. : N/A

TEST INFORMATION

STABILIZED RATE: -0- B/D
STABILIZED PRESSURE: 2478.39 BHP
RATE INCREMENTS: MULTIPLE INCREMENTS
STEP LENGTH: 30 MINS.
CUMULATIVE INJECTION:
TEST OPERATOR: D. GRYDER

SUMMARY

BHP PARTING PRESSURE: ---- ABOVE MAXIMUM TEST PRESSURE
SURFACE PARTING PRESSURE: ABOVE MAXIMUM TEST PRESSURE
PARTING GRADIENT: ----- N/A

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #57
WELL NUMBER: 4
TEST NUMBER: 4
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. CRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4579'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/21/99
PAGE START TIME: 9:44:31
DATA FILE: 4

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00		96.05	SPSI 420
-0.002	0.00	2478.39		
0.029	100.00		96.07	
0.032	100.00	2477.57		
0.065	100.00		96.19	
0.063	100.00	2503.77		
0.096	100.00		96.31	
0.099	100.00	2512.14		
0.132	100.00		96.34	
0.130	100.00	2516.66		
0.163	100.00		96.30	
0.165	100.00	2520.87		
0.198	100.00		96.27	
0.196	100.00	2524.09		
0.229	100.00		96.25	
0.232	100.00	2527.23		
0.261	100.00		96.23	
0.263	100.00	2529.53		
0.296	100.00		96.22	
0.294	100.00	2531.63		
0.327	100.00		96.22	
0.330	100.00	2533.83		
0.363	100.00		96.21	
0.361	100.00	2535.60		
0.394	100.00		96.21	
0.396	100.00	2537.56		
0.429	100.00		96.22	
0.428	100.00	2539.00		
0.461	100.00		96.23	
0.463	100.00	2540.69		
0.491	100.00		96.23	SPSI 570
0.494	100.00	2542.11		
0.527	200.00		96.22	
0.525	200.00	2545.45		
0.558	200.00		96.20	
0.560	200.00	2547.36		
0.593	200.00		96.17	
0.591	200.00	2548.79		
0.624	200.00		96.14	
0.627	200.00	2550.60		
0.660	200.00		96.10	
0.658	200.00	2552.03		
0.691	200.00		96.05	
0.694	200.00	2553.49		
0.722	200.00		96.02	
0.725	200.00	2554.72		
0.758	200.00		95.98	
0.756	200.00	2555.93		
0.789	200.00		95.92	
0.791	200.00	2557.05		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.825	200.00		95.87	
0.823	200.00	2558.14		
0.857	200.00		95.83	
0.855	200.00	2559.28		
0.888	200.00		95.80	
0.891	200.00	2560.48		
0.924	200.00		95.76	
0.922	200.00	2561.53		
0.955	200.00		95.73	
0.957	200.00	2562.62		
0.989	200.00		95.69	SPSI 590
0.987	200.00	2563.58		
1.019	400.00		95.66	
1.022	400.00	2575.11		
1.055	400.00		95.61	
1.053	400.00	2578.58		
1.086	400.00		95.55	
1.088	400.00	2581.31		
1.121	400.00		95.50	
1.119	400.00	2583.44		
1.153	400.00		95.45	
1.155	400.00	2585.76		
1.188	400.00		95.40	
1.186	400.00	2587.49		
1.219	400.00		95.34	
1.222	400.00	2589.40		
1.250	400.00		95.30	
1.253	400.00	2590.96		
1.286	400.00		95.25	
1.284	400.00	2592.60		
1.317	400.00		95.20	
1.319	400.00	2594.35		
1.353	400.00		95.13	
1.351	400.00	2595.82		
1.384	400.00		95.08	
1.386	400.00	2597.14		
1.419	400.00		95.01	
1.417	400.00	2598.45		
1.450	400.00		94.96	
1.453	400.00	2599.94		
1.485	400.00		94.90	SPSI 620
1.483	400.00	2601.32		
1.516	600.00		94.85	
1.518	600.00	2620.60		
1.551	600.00		94.72	
1.549	600.00	2626.70		
1.583	600.00		94.58	
1.585	600.00	2630.62		
1.614	600.00		94.50	
1.616	600.00	2633.76		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
1.650	600.00		94.43	
1.648	600.00	2638.02		
1.682	600.00		94.37	
1.680	600.00	2641.31		
1.713	600.00		94.28	
1.715	600.00	2644.42		
1.748	600.00		94.11	
1.746	600.00	2646.93		
1.779	600.00		93.97	
1.782	600.00	2649.80		
1.815	600.00		93.89	
1.813	600.00	2652.07		
1.846	600.00		93.81	
1.849	600.00	2654.42		
1.877	600.00		93.72	
1.880	600.00	2656.47		
1.913	600.00		93.61	
1.911	600.00	2658.57		
1.944	600.00		93.52	
1.946	600.00	2661.09		
1.979	600.00		93.44	
1.977	600.00	2663.10		
2.011	800.00		93.37	
2.013	800.00	2677.49		
2.042	800.00		93.23	SPSI 700
2.045	800.00	2688.61		
2.078	800.00		93.13	
2.076	800.00	2694.33		
2.109	800.00		93.04	
2.111	800.00	2699.56		
2.144	800.00		92.92	
2.143	800.00	2703.38		
2.176	800.00		92.77	
2.178	800.00	2707.34		
2.211	800.00		92.57	
2.209	800.00	2710.74		
2.242	800.00		92.41	
2.245	800.00	2714.13		
2.273	800.00		92.27	
2.276	800.00	2717.20		
2.309	800.00		92.10	
2.307	800.00	2720.03		
2.340	800.00		92.00	
2.343	800.00	2723.04		
2.376	800.00		91.89	
2.374	800.00	2727.30		
2.407	800.00		91.79	
2.409	800.00	2730.90		
2.442	800.00		91.69	
2.440	800.00	2733.70		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.473	800.00		91.63	
2.476	800.00	2736.93		
2.506	800.00		91.55	
2.509	800.00	2739.60		
2.537	800.00		91.48	
2.540	800.00	2742.32		
2.573	800.00		91.41	
2.571	800.00	2744.69		
2.604	800.00		91.34	
2.606	800.00	2747.57		
2.638	1000.00		91.29	
2.641	1000.00	2751.04		
2.669	1000.00		91.18	
2.672	1000.00	2770.75		
2.705	1000.00		91.06	
2.703	1000.00	2777.06		
2.736	1000.00		90.97	
2.738	1000.00	2782.86		
2.771	1000.00		90.83	
2.769	1000.00	2786.91		
2.803	1000.00		90.69	
2.805	1000.00	2791.32		
2.838	1000.00		90.54	
2.836	1000.00	2795.05		
2.869	1000.00		90.40	
2.872	1000.00	2799.16		
2.900	1000.00		90.31	
2.903	1000.00	2802.45		
2.936	1000.00		90.25	
2.934	1000.00	2805.73		
2.967	1000.00		90.18	
2.969	1000.00	2809.25		
3.003	1000.00		90.11	
3.001	1000.00	2812.27		
3.036	1300.00		90.03	SFSI 860
3.034	1300.00	2823.72		
3.067	1300.00		89.89	
3.069	1300.00	2833.24		
3.102	1300.00		89.75	
3.101	1300.00	2842.01		
3.134	1300.00		89.59	
3.136	1300.00	2849.75		
3.165	1300.00		89.39	
3.167	1300.00	2855.52		
3.200	1300.00		89.20	
3.198	1300.00	2860.17		
3.231	1300.00		89.07	
3.234	1300.00	2865.41		
3.267	1300.00		88.96	
3.265	1300.00	2870.05		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BRLS/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.298	1300.00		88.91	
3.301	1300.00	2875.30		
3.331	1300.00		88.86	
3.333	1300.00	2879.83		
3.366	1300.00		88.83	
3.364	1300.00	2883.86		
3.397	1300.00		88.80	
3.400	1300.00	2888.35		
3.429	1300.00		88.78	
3.431	1300.00	2895.02		
3.464	1300.00		88.75	
3.462	1300.00	2900.12		
3.494	1600.00		88.71	SPST 980
3.497	1600.00	2924.14		
3.530	1600.00		88.63	
3.528	1600.00	2933.15		
3.561	1600.00		88.54	
3.563	1600.00	2942.17		
3.596	1600.00		88.40	
3.594	1600.00	2949.20		
3.628	1600.00		88.31	
3.630	1600.00	2956.43		
3.663	1600.00		88.25	
3.661	1600.00	2962.57		
3.694	1600.00		88.21	
3.697	1600.00	2968.69		
3.725	1600.00		88.20	
3.728	1600.00	2973.93		
3.761	1600.00		88.20	
3.759	1600.00	2979.12		
3.792	1600.00		88.21	
3.794	1600.00	2984.12		
3.827	1600.00		88.22	
3.826	1600.00	2986.31		
3.859	1600.00		88.23	
3.861	1600.00	2991.06		
3.894	1600.00		88.25	
3.892	1600.00	2994.67		
3.925	1600.00		88.26	
3.928	1600.00	2999.43		
3.960	1600.00		88.27	SPST 1100
3.958	1600.00	3010.97		
3.990	1900.00		88.27	
3.992	1900.00	3032.08		
4.025	1900.00		88.24	
4.023	1900.00	3042.70		
4.056	1900.00		88.18	
4.059	1900.00	3042.39		
4.092	1900.00		88.14	
4.090	1900.00	3046.90		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
4.123	1900.00		88.15	
4.126	1900.00	3052.25		
4.156	1900.00		88.17	
4.158	1900.00	3056.92		
4.191	1900.00		88.21	
4.189	1900.00	3064.00		
4.223	1900.00		88.24	
4.225	1900.00	3070.35		
4.254	1900.00		88.26	
4.256	1900.00	3074.70		
4.289	1900.00		88.28	
4.287	1900.00	3079.41		
4.320	1900.00		88.29	
4.323	1900.00	3084.32		
4.356	1900.00		88.31	
4.354	1900.00	3088.51		
4.387	1900.00		88.33	
4.389	1900.00	3092.85		
4.423	1900.00		88.34	
4.421	1900.00	3097.62		
4.453	1900.00		88.36	SPST 1260
4.456	1900.00	3102.08		
4.486	2200.00		88.39	
4.489	2200.00	3136.19		
4.517	2200.00		88.36	
4.520	2200.00	3147.94		
4.553	2200.00		88.29	
4.551	2200.00	3156.61		
4.584	2200.00		88.23	
4.586	2200.00	3164.97		
4.619	2200.00		88.21	
4.618	2200.00	3171.83		
4.651	2200.00		88.19	
4.653	2200.00	3178.01		
4.686	2200.00		88.20	
4.684	2200.00	3184.27		
4.717	2200.00		88.19	
4.720	2200.00	3188.54		
4.748	2200.00		88.18	
4.751	2200.00	3193.45		
4.784	2200.00		88.18	
4.782	2200.00	3197.93		
4.815	2200.00		88.16	
4.818	2200.00	3203.44		
4.851	2200.00		88.19	
4.849	2200.00	3208.14		
4.882	2200.00		88.19	
4.884	2200.00	3213.30		
4.917	2200.00		88.17	
4.915	2200.00	3217.40		

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GAUGE S/N: 77675

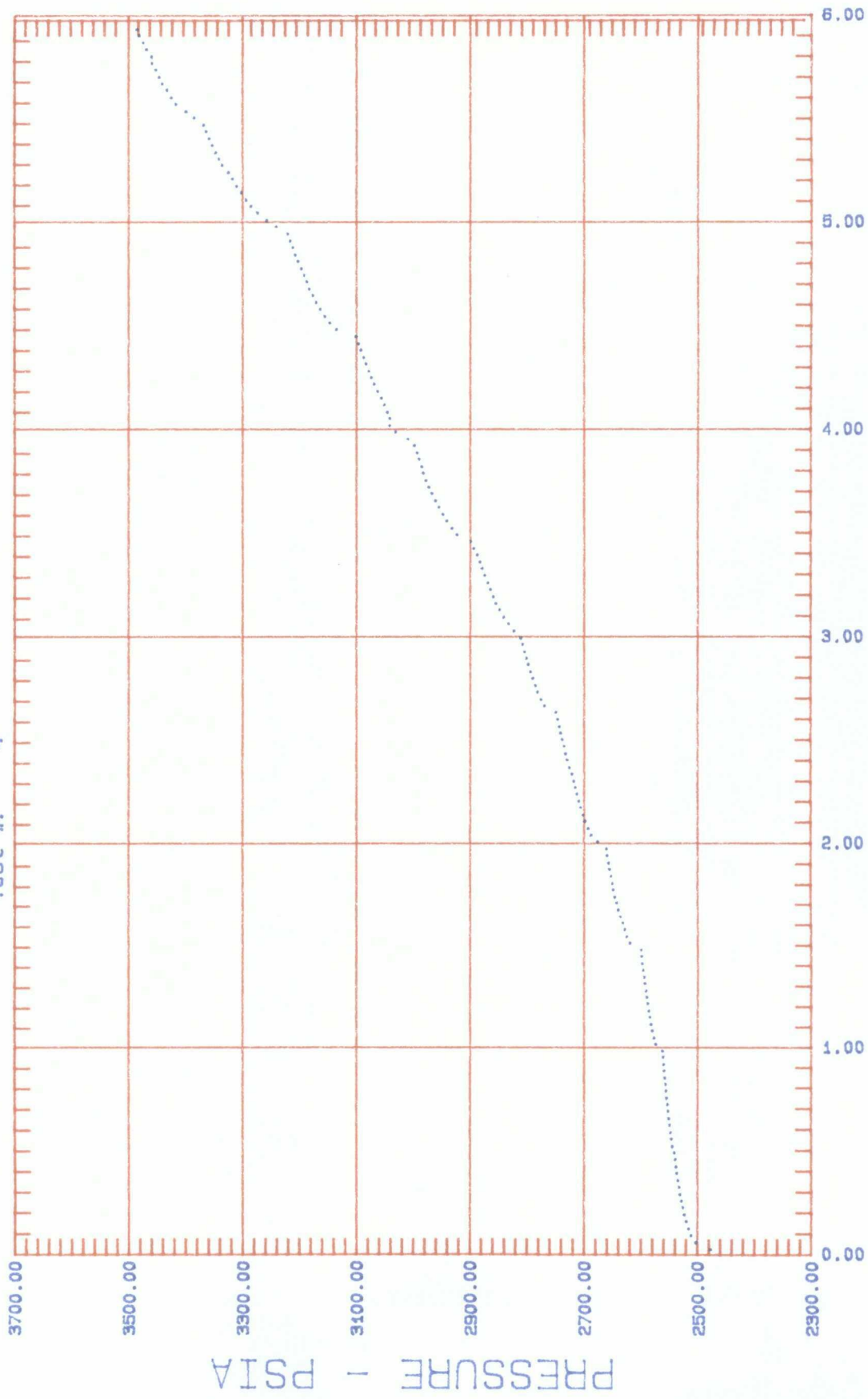
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4.948	2200.00		88.19	SPST 1420
4.950	2200.00	3222.21		
4.981	2500.00		88.25	
4.983	2500.00	3241.78		
5.016	2500.00		88.26	
5.014	2500.00	3258.39		
5.047	2500.00		88.07	
5.050	2500.00	3274.69		
5.078	2500.00		88.06	
5.081	2500.00	3286.39		
5.114	2500.00		88.04	
5.112	2500.00	3294.96		
5.145	2500.00		88.06	
5.148	2500.00	3303.50		
5.181	2500.00		88.16	
5.179	2500.00	3311.82		
5.212	2500.00		88.18	
5.214	2500.00	3319.19		
5.247	2500.00		88.08	
5.245	2500.00	3325.42		
5.278	2500.00		88.07	
5.281	2500.00	3336.58		
5.309	2500.00		88.08	
5.312	2500.00	3343.34		
5.345	2500.00		88.21	
5.343	2500.00	3348.42		
5.376	2500.00		88.12	
5.379	2500.00	3354.63		
5.412	2500.00		88.29	
5.410	2500.00	3359.63		
5.443	2500.00		88.21	
5.445	2500.00	3365.17		
5.478	2500.00		88.20	
5.476	2500.00	3369.70		
5.509	2800.00		88.24	
5.512	2800.00	3385.51		
5.544	2800.00		88.21	SPST 1630
5.542	2800.00	3400.14		
5.575	2800.00		88.25	
5.577	2800.00	3418.19		
5.610	2800.00		88.23	
5.608	2800.00	3426.30		
5.641	2800.00		88.29	
5.644	2800.00	3434.04		
5.673	2800.00		88.40	
5.675	2800.00	3442.09		
5.708	2800.00		88.56	
5.706	2800.00	3447.10		
5.739	2800.00		88.65	
5.742	2800.00	3453.57		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
5.775	2800.00		88.82	
5.773	2800.00	3460.25		
5.807	2800.00		88.88	
5.805	2800.00	3461.03		
5.838	2800.00		89.04	
5.841	2800.00	3469.66		
5.874	2800.00		89.15	
5.872	2800.00	3475.80		
5.905	2800.00		89.18	
5.907	2800.00	3482.27		
5.939	2800.00		89.26	SPSI 1760
5.937	2800.00	3486.43		

Plot starting date: 10/21/99 Company: LIGHTFOOT WIRELINE SERV Location: VACUUM GRAYBURG SAN ANDRES
time: 9:44:31 Client: TEXACO E & P INC. Operator: D. GRYDER
Gauge S/N 77675 Well name: WEST VACUUM UNIT #57 Comments: STEP-RATE TEST BHP/RATE
Well #: 4 GAUGE SET @ 4579'
Test #: 4



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #57
WELL NUMBER: 4
TEST NUMBER: 4
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4579'

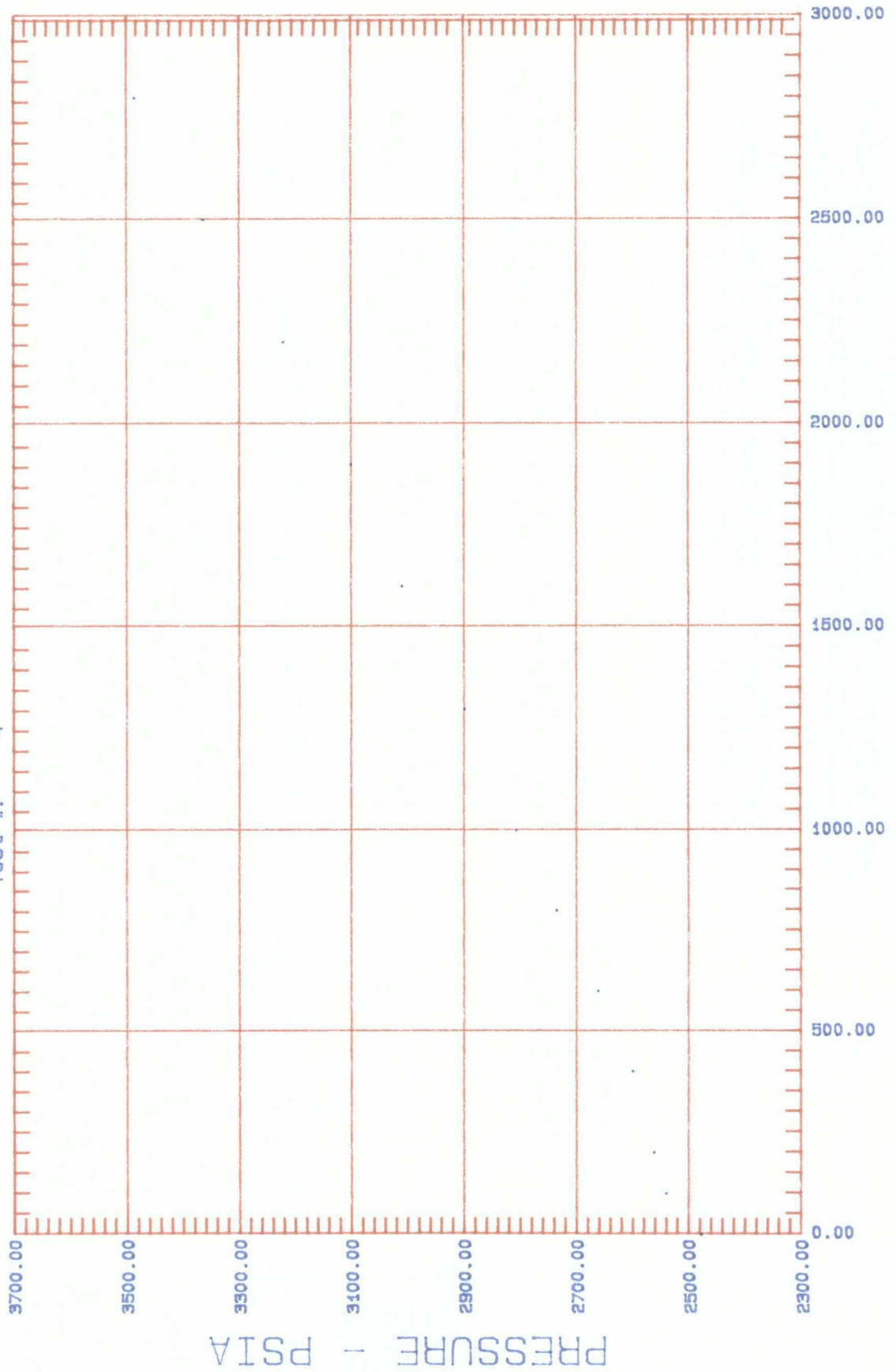
POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/21/99
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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	2478.39		
0.500	100.00	2542.11		
1.000	200.00	2563.58		
1.500	400.00	2601.32		
2.000	600.00	2663.10		
2.500	800.00	2736.93		
3.000	1000.00	2809.25		
3.500	1300.00	2900.12		
4.000	1600.00	3010.97		
4.500	1900.00	3102.08		
5.000	2200.00	3222.21		
5.500	2500.00	3365.17		
6.000	2800.00	3486.43		

Company:	LIGHTFOOT WIRELINE SERV	Location:	VACUUM GRAYBURG SAN ANDRES
Client:	TEXACO E & P INC.	Operator:	D. GRDYER
Well name:	WEST VACUUM UNIT #57	Comments:	STEP-RATE TEST BHP/RATE GAUGE SET @ 4579'
Well #:	4		
Test #:	4		



COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #57
WELL NUMBER: 4
TEST NUMBER: 4
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

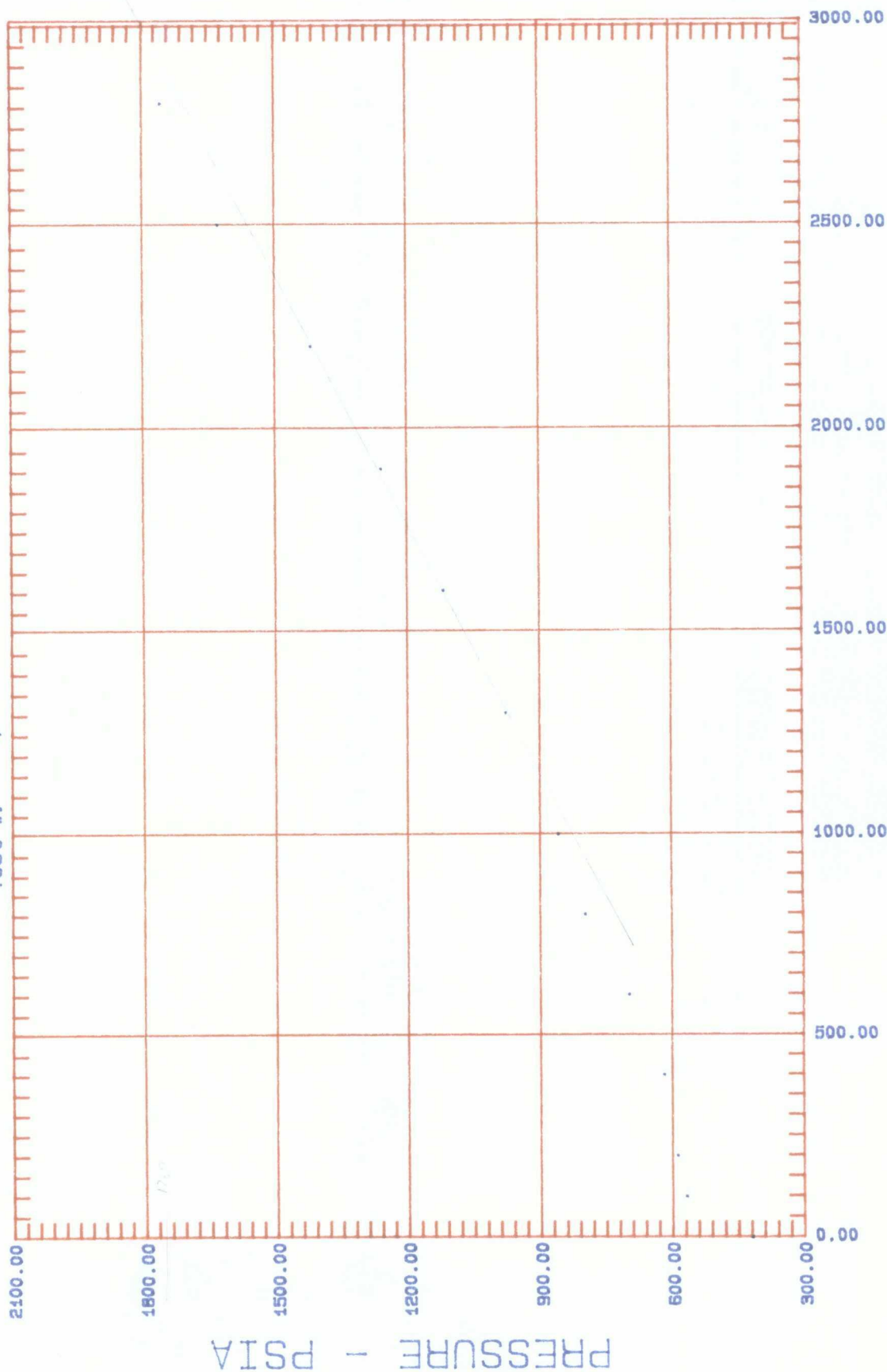
POSITION	GAUGE SERIAL NUMBER
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2	63150
3	77675
4	

PAGE START DATE: 10/21/99
PAGE START TIME: 9:44: 0
DATA FILE: 7

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	420.00		
0.500	100.00	570.00		
1.000	200.00	590.00		
1.500	400.00	620.00		
2.000	600.00	700.00		
2.500	800.00	800.00		
3.000	1000.00	860.00		
3.500	1300.00	980.00		
4.000	1600.00	1120.00		
4.500	1900.00	1260.00		
5.000	2200.00	1420.00		
5.500	2500.00	1630.00		
6.000	2800.00	1760.00		

Plot starting date: 10/21/99
 time: 9:44: 0
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: TEXACO E & P INC.
 Well name: WEST VACUUM UNIT #57
 Well #: 4
 Test #: 4
 Location: VACUUM GRAYBURG SAN ANDRES
 Operator: D. GRAYDER
 Comments: STEP-RATE TEST SURF/RATE
 GAUGE SET @ SURFACE



FLOW RATE - BBLs/DAY

LIGHTFOOT WIRELINE SERVICE, INC.

STEP RATE TEST

TEXACO E & P INC.
WEST VACUMM UNIT #58
WEST VACUMM FIELD

10/19/99
LEA COUNTY

WELL DATA

WELL STATUS: SHUT-IN
PRESSURE DATUM: 4640'
TUBING: 2 3/8"
CASING: 5 1/2"
PERFS: 4562-4718'
FORMATION: SAN ANDRES
PACKER DEPTH: 4493'
T.D. : N/A

TEST INFORMATION

STABILIZED RATE: -0- B/D
STABILIZED PRESSURE: 2734.98 BHP
RATE INCREMENTS: MULTIPLE INCREMENTS
STEP LENGTH: 30 MINS.
CUMULATIVE INJECTION:
TEST OPERATOR: D. GRYDER

SUMMARY

BHP PARTING PRESSURE: ---- 3760
SURFACE PARTING PRESSURE: 1735
PARTING GRADIENT: ----- .81

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #58
WELL NUMBER: 2
TEST NUMBER: 2
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4640'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/19/99
PAGE START TIME: 9:50:50
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00		97.18	SPSI 630
-0.002	0.00	2734.98		
0.032	100.00		97.19	
0.030	100.00	2735.10		
0.063	100.00		97.20	
0.066	100.00	2754.00		
0.099	100.00		97.23	
0.097	100.00	2810.73		
0.130	100.00		97.23	
0.132	100.00	2821.46		
0.165	100.00		97.21	
0.163	100.00	2826.80		
0.196	100.00		97.20	
0.199	100.00	2833.99		
0.227	100.00		97.22	
0.230	100.00	2837.23		
0.263	100.00		97.27	
0.261	100.00	2840.54		
0.294	100.00		97.31	
0.297	100.00	2844.66		
0.330	100.00		97.39	
0.328	100.00	2847.55		
0.361	100.00		97.45	
0.363	100.00	2850.50		
0.396	100.00		97.50	
0.394	100.00	2852.65		
0.427	100.00		97.54	
0.430	100.00	2854.95		
0.459	100.00		97.57	
0.461	100.00	2856.92		
0.493	100.00		97.59	SPSI 850
0.496	100.00	2858.93		
0.527	200.00		97.61	
0.525	200.00	2867.88		
0.558	200.00		97.61	
0.561	200.00	2871.28		
0.594	200.00		97.60	
0.592	200.00	2873.20		
0.625	200.00		97.57	
0.628	200.00	2874.78		
0.661	200.00		97.52	
0.659	200.00	2875.84		
0.692	200.00		97.47	
0.694	200.00	2878.66		
0.723	200.00		97.42	
0.725	200.00	2879.45		
0.758	200.00		97.36	
0.756	200.00	2880.59		
0.789	200.00		97.30	
0.792	200.00	2882.57		

PAGE START DATE: 10/19/99
PAGE START TIME: 10:40:22
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.826	200.00		97.24	
0.824	200.00	2884.57		
0.858	200.00		97.19	
0.856	200.00	2891.33		
0.889	200.00		97.14	
0.891	200.00	2890.03		
0.924	200.00		97.08	
0.922	200.00	2893.43		
0.955	200.00		97.03	
0.958	200.00	2892.74		
0.989	200.00		96.98	SPSI 880
0.991	200.00	2893.91		
1.020	300.00		96.94	
1.022	300.00	2912.56		
1.055	300.00		96.89	
1.053	300.00	2916.29		
1.086	300.00		96.84	
1.089	300.00	2918.76		
1.122	300.00		96.79	
1.120	300.00	2920.52		
1.153	300.00		96.75	
1.156	300.00	2921.35		
1.189	300.00		96.70	
1.187	300.00	2923.27		
1.220	300.00		96.66	
1.222	300.00	2925.27		
1.251	300.00		96.62	
1.253	300.00	2926.40		
1.286	300.00		96.57	
1.284	300.00	2927.16		
1.317	300.00		96.53	
1.320	300.00	2928.26		
1.353	300.00		96.49	
1.351	300.00	2929.96		
1.384	300.00		96.45	
1.387	300.00	2931.28		
1.420	300.00		96.41	
1.418	300.00	2932.18		
1.451	300.00		96.37	
1.453	300.00	2933.36		
1.484	300.00		96.33	SPSI 900
1.482	300.00	2938.01		
1.517	400.00		96.29	
1.515	400.00	2950.14		
1.548	400.00		96.25	
1.551	400.00	2953.95		
1.584	400.00		96.21	
1.582	400.00	2956.45		
1.615	400.00		96.17	
1.617	400.00	2958.36		

PAGE START DATE: 10/19/99
PAGE START TIME: 11:29:39
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
1.647	400.00		96.13	
1.649	400.00	2959.90		
1.680	400.00		96.09	
1.682	400.00	2961.16		
1.716	400.00		96.06	
1.714	400.00	2963.75		
1.747	400.00		96.02	
1.749	400.00	2964.27		
1.782	400.00		95.97	
1.780	400.00	2965.97		
1.813	400.00		95.96	
1.816	400.00	2967.75		
1.844	400.00		95.91	
1.847	400.00	2970.18		
1.880	400.00		95.88	
1.878	400.00	2971.93		
1.911	400.00		95.83	
1.914	400.00	2973.60		
1.947	400.00		95.79	
1.945	400.00	2974.96		
1.977	400.00		95.76	SPSI 940
1.979	400.00	2975.98		
2.010	600.00		95.75	
2.013	600.00	3063.15		
2.046	600.00		95.71	
2.044	600.00	3081.91		
2.077	600.00		95.65	
2.079	600.00	3090.94		
2.113	600.00		95.57	
2.111	600.00	3097.76		
2.144	600.00		95.49	
2.146	600.00	3101.43		
2.175	600.00		95.42	
2.177	600.00	3105.47		
2.210	600.00		95.32	
2.208	600.00	3107.80		
2.241	600.00		95.25	
2.244	600.00	3110.51		
2.277	600.00		95.14	
2.275	600.00	3114.32		
2.308	600.00		95.04	
2.311	600.00	3115.81		
2.344	600.00		94.93	
2.342	600.00	3119.19		
2.375	600.00		94.84	
2.377	600.00	3122.61		
2.406	600.00		94.74	
2.408	600.00	3124.62		
2.441	600.00		94.64	
2.439	600.00	3126.60		

PAGE START DATE: 10/19/99
PAGE START TIME: 12:19:23
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
2.476	600.00		94.55	SPSI 1100
2.474	600.00	3127.88		
2.508	800.00		94.44	
2.506	800.00	3197.37		
2.539	800.00		94.37	
2.541	800.00	3220.66		
2.574	800.00		94.29	
2.572	800.00	3232.58		
2.606	800.00		94.21	
2.608	800.00	3248.30		
2.637	800.00		94.11	
2.639	800.00	3259.77		
2.672	800.00		93.94	
2.670	800.00	3263.17		
2.703	800.00		93.81	
2.706	800.00	3259.11		
2.739	800.00		93.67	
2.737	800.00	3262.93		
2.770	800.00		93.56	
2.772	800.00	3266.74		
2.806	800.00		93.43	
2.804	800.00	3274.76		
2.837	800.00		93.34	
2.839	800.00	3280.82		
2.868	800.00		93.24	
2.870	800.00	3283.12		
2.903	800.00		93.12	
2.901	800.00	3286.98		
2.934	800.00		93.03	
2.937	800.00	3293.77		
2.969	800.00		92.99	
2.968	800.00	3298.63		
3.001	1100.00		92.59	SPSI 1300
3.003	1100.00	3426.35		
3.036	1100.00		92.42	
3.034	1100.00	3450.63		
3.067	1100.00		92.29	
3.070	1100.00	3466.47		
3.103	1100.00		92.14	
3.101	1100.00	3481.77		
3.134	1100.00		91.88	
3.136	1100.00	3490.17		
3.165	1100.00		91.66	
3.167	1100.00	3488.79		
3.201	1100.00		91.39	
3.199	1100.00	3494.18		
3.232	1100.00		91.22	
3.234	1100.00	3492.37		
3.267	1100.00		91.03	
3.265	1100.00	3497.59		

PAGE START DATE: 10/19/99
PAGE START TIME: 13: 8:44
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.298	1100.00		90.91	
3.301	1100.00	3501.91		
3.331	1100.00		90.81	
3.334	1100.00	3502.51		
3.367	1100.00		90.68	
3.365	1100.00	3504.52		
3.398	1100.00		90.59	
3.400	1100.00	3511.27		
3.429	1100.00		90.53	
3.431	1100.00	3515.00		
3.464	1100.00		90.45	
3.463	1100.00	3517.59		
3.498	1400.00		90.40	
3.496	1400.00	3533.40		
3.529	1400.00		90.29	SPSI 1540
3.531	1400.00	3618.61		
3.564	1400.00		90.18	
3.562	1400.00	3636.86		
3.595	1400.00		90.06	
3.598	1400.00	3651.85		
3.631	1400.00		89.84	
3.629	1400.00	3665.69		
3.662	1400.00		89.67	
3.660	1400.00	3678.85		
3.693	1400.00		89.48	
3.696	1400.00	3681.65		
3.729	1400.00		89.32	
3.727	1400.00	3690.44		
3.760	1400.00		89.20	
3.762	1400.00	3695.33		
3.795	1400.00		89.12	
3.793	1400.00	3697.29		
3.826	1400.00		89.06	
3.829	1400.00	3690.16		
3.858	1400.00		88.95	
3.860	1400.00	3691.45		
3.893	1400.00		88.87	
3.891	1400.00	3690.24		
3.924	1400.00		88.83	
3.927	1400.00	3692.12		
3.960	1400.00		88.79	SPSI 1740
3.958	1400.00	3695.10		
3.991	1700.00		88.72	
3.993	1700.00	3706.36		
4.026	1700.00		88.66	
4.024	1700.00	3773.54		
4.057	1700.00		88.60	
4.060	1700.00	3799.87		
4.093	1700.00		88.47	
4.091	1700.00	3815.31		

PAGE START DATE: 10/19/99
PAGE START TIME: 13:58:16
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.124	1700.00		88.32	
4.126	1700.00	3826.20		
4.157	1700.00		88.20	
4.159	1700.00	3830.80		
4.188	1700.00		88.10	
4.190	1700.00	3834.13		
4.223	1700.00		88.00	
4.221	1700.00	3836.87		
4.254	1700.00		87.95	
4.257	1700.00	3841.47		
4.290	1700.00		87.91	
4.288	1700.00	3843.70		
4.321	1700.00		87.87	
4.324	1700.00	3845.59		
4.357	1700.00		87.81	
4.355	1700.00	3849.83		
4.388	1700.00		87.78	
4.390	1700.00	3851.87		
4.419	1700.00		87.78	
4.421	1700.00	3852.36		
4.454	1700.00		87.79	SPSI 1910
4.456	1700.00	3856.48		
4.485	2000.00		87.76	
4.487	2000.00	3884.02		
4.520	2000.00		87.72	
4.518	2000.00	3915.16		
4.551	2000.00		87.68	
4.554	2000.00	3932.21		
4.587	2000.00		87.59	
4.585	2000.00	3942.32		
4.618	2000.00		87.51	
4.621	2000.00	3948.65		
4.654	2000.00		87.48	
4.652	2000.00	3943.85		
4.685	2000.00		87.48	
4.687	2000.00	3946.05		
4.716	2000.00		87.50	
4.718	2000.00	3948.39		
4.751	2000.00		87.55	
4.749	2000.00	3948.05		
4.783	2000.00		87.59	
4.785	2000.00	3950.59		
4.818	2000.00		87.64	
4.816	2000.00	3952.16		
4.849	2000.00		87.68	
4.852	2000.00	3956.69		
4.885	2000.00		87.72	
4.883	2000.00	3958.60		
4.916	2000.00		87.74	
4.918	2000.00	3960.13		

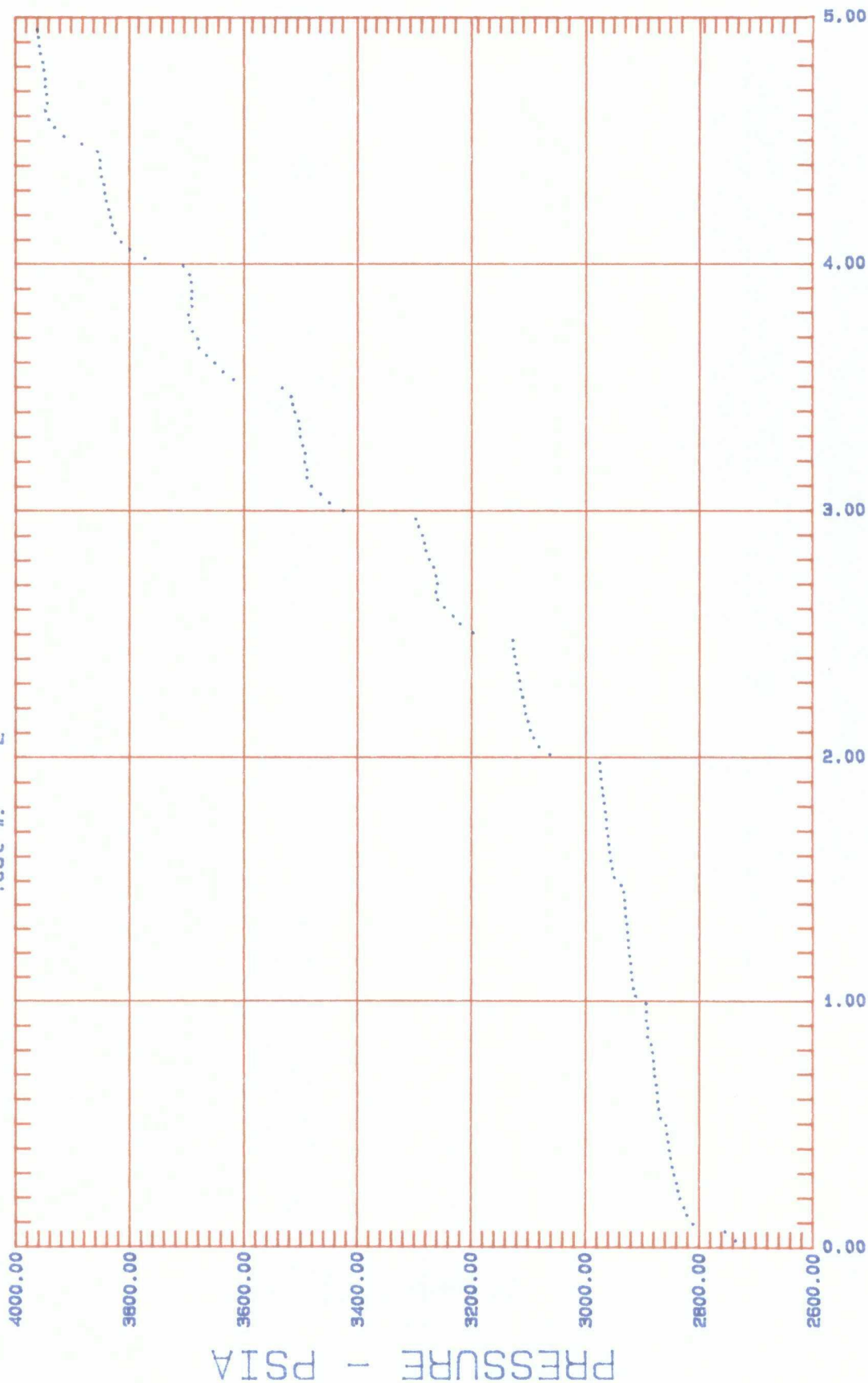
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PAGE START TIME: 14:47:41
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
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4.947	2000.00		87.76	
4.950	2000.00	3962.46		

Plot starting date: 10/19/99
 time: 9:50:50
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: TEXACO E & P INC.
 Well name: WEST VACUUM UNIT #58
 Well #: 2
 Test #: 2
 Location: VACUUM GRAYBURG SAN ANDRES
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 4640'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #58
WELL NUMBER: 2
TEST NUMBER: 2
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4640'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

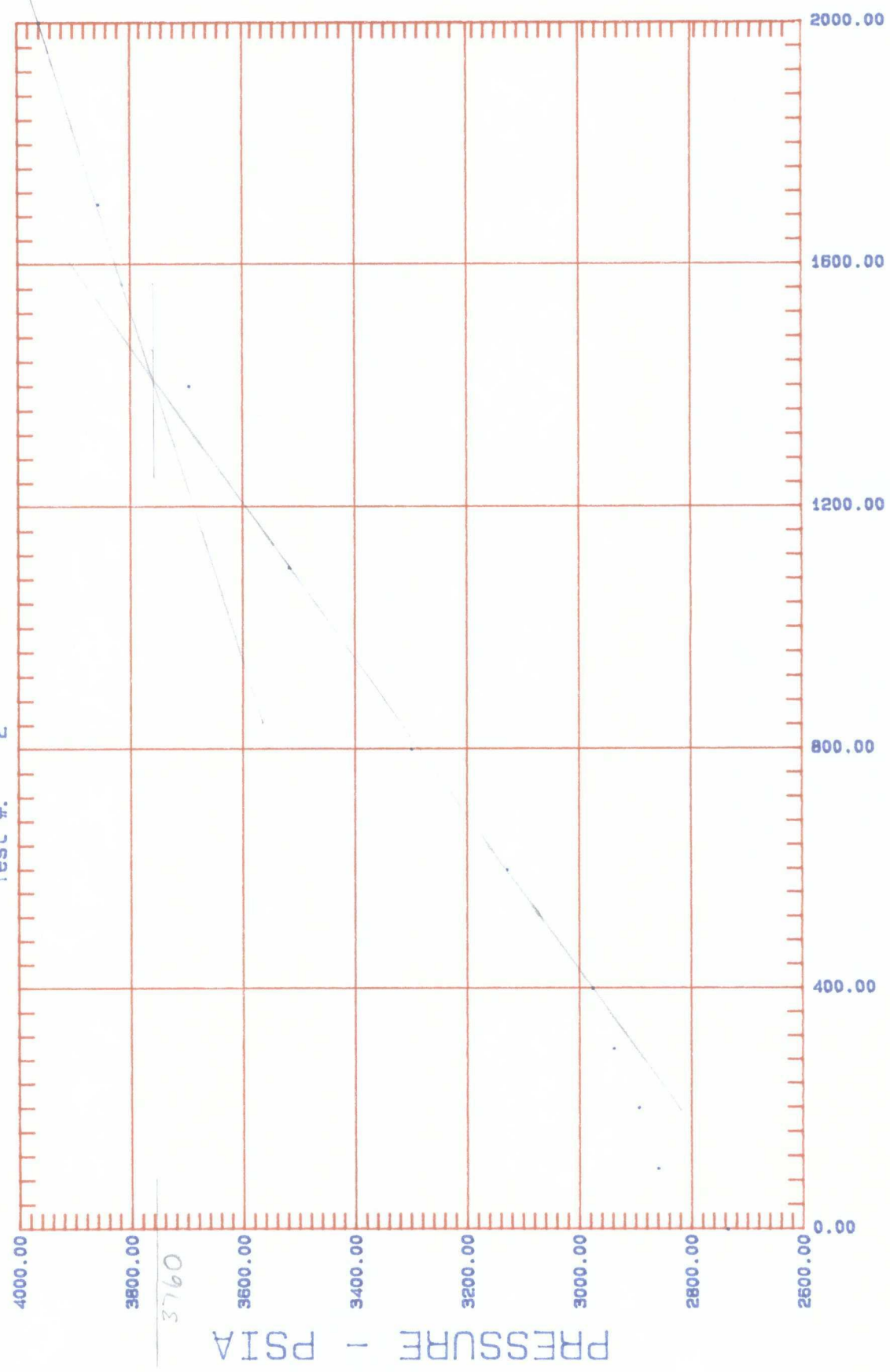
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PAGE START TIME: 9:50: 0
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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
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0.000	0.00	2734.98		
0.500	100.00	2858.93		
1.000	200.00	2893.91		
1.500	300.00	2938.01		
2.000	400.00	2975.98		
2.500	600.00	3127.88		
3.000	800.00	3298.63		
3.500	1100.00	3517.59		
4.000	1400.00	3695.10		
4.500	1700.00	3856.48		
5.000	2000.00	3962.46		

Plot starting date: 10/19/99
 time: 9:50: 0
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: TEXACO E & P INC.
 Well name: WEST VACUUM UNIT #58
 Well #: 2
 Test #: 2
 Location: VACUUM GRAYBURG SAN ANDRES
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 4640'



FLOW RATE - BBLs/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #58
WELL NUMBER: 2
TEST NUMBER: 2
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/19/99
PAGE START TIME: 9:50: 0
DATA FILE: 5

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
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0.000	0.00	630.00		
0.500	100.00	850.00		
1.000	200.00	880.00		
1.500	300.00	900.00		
2.000	400.00	940.00		
2.500	600.00	1100.00		
3.000	800.00	1300.00		
3.500	1100.00	1540.00		
4.000	1400.00	1740.00		
4.500	1700.00	1910.00		
5.000	2000.00	2060.00		

Plot starting date: 10/19/99

time: 9:50: 0

Gauge S/N 77675

Company:

Client:

Well name:

Well #:

Test #:

LIGHTFOOT WIRELINE SERV

TEXACO E & P INC.

WEST VACUUM UNIT #58

2

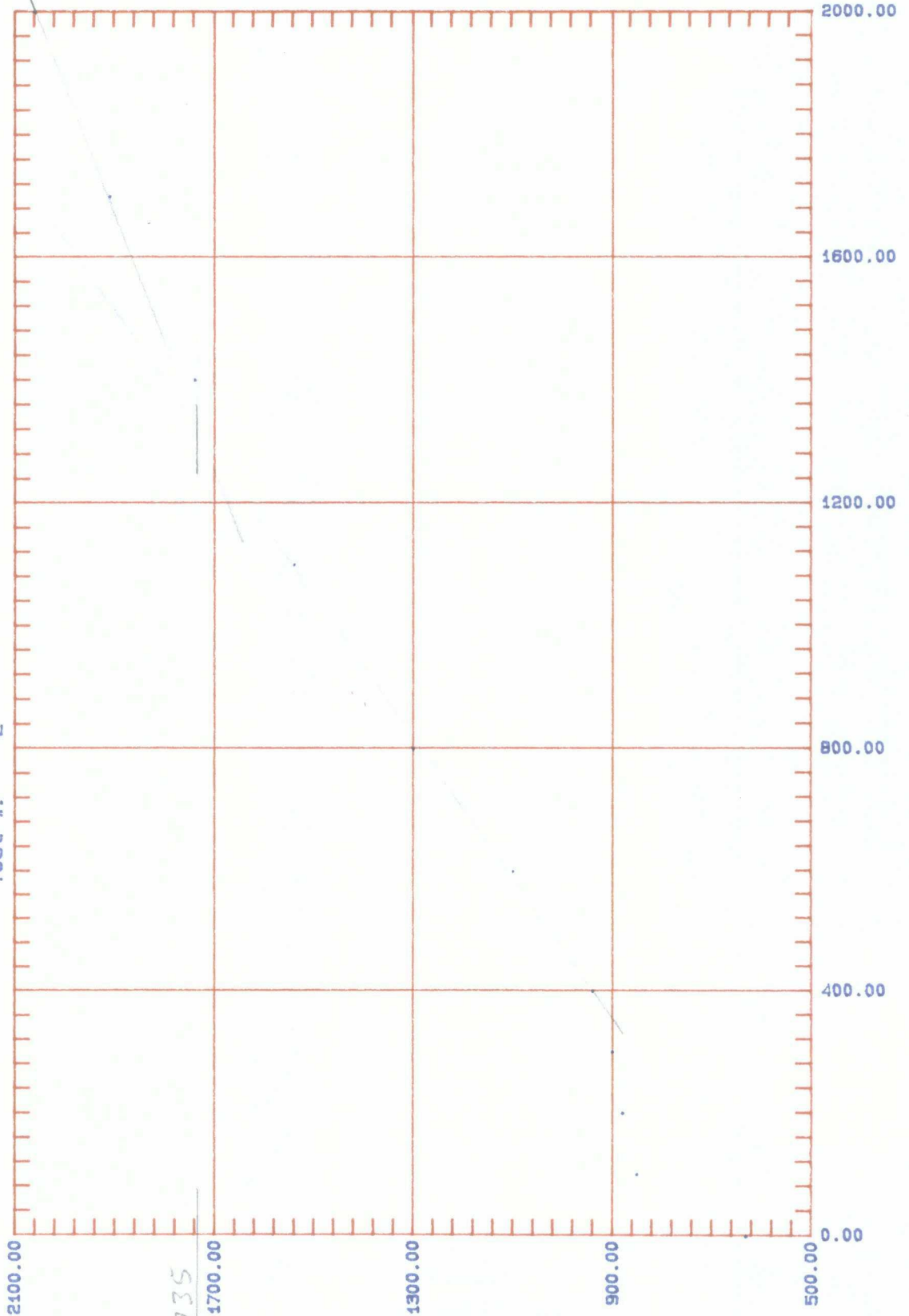
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Location: VACUUM GRAYBURG SAN ANDRES

Operator: D. GRyder

Comments: STEP-RATE TEST SURF/RATE

GAUGE SET @ SURFACE



FLOW RATE - BBLs/DAY

LIGHTFOOT WIRELINE SERVICE, INC.

STEP RATE TEST

TEXACO E & P INC.
WEST VACUMM UNIT #60
WEST VACUMM FIELD

10/20/99
LEA COUNTY

WELL DATA

WELL STATUS: SHUT-IN
PRESSURE DATUM: 4655'
TUBING: 2 3/8"
CASING: 5 1/2"
PERFS: 4494-4816'
FORMATION: SAN ANDRES
PACKER DEPTH: 4434'
T.D. : N/A

TEST INFORMATION

STABILIZED RATE: -0- B/D
STABILIZED PRESSURE: 2630.45 BHP
RATE INCREMENTS: MULTIPLE INCREMENTS
STEP LENGTH: 30 MINS.
CUMULATIVE INJECTION:
TEST OPERATOR: D. GRyder

SUMMARY

BHP PARTING PRESSURE: ---- ABOVE MAXIMUM TEST PRESSURE
SURFACE PARTING PRESSURE: . ABOVE MAXIMUM TEST PRESSURE
PARTING GRADIENT: ----- N/A

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #60
WELL NUMBER: 3
TEST NUMBER: 3
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4655'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/20/99
PAGE START TIME: 10: 0:24
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		97.15	SPSI 510
0.002	0.00	2630.45		
0.037	100.00		97.21	
0.035	100.00	2629.81		
0.068	100.00		97.25	
0.070	100.00	2635.91		
0.099	100.00		97.27	
0.101	100.00	2659.78		
0.134	100.00		97.24	
0.132	100.00	2669.50		
0.166	100.00		97.21	
0.168	100.00	2677.19		
0.201	100.00		97.18	
0.199	100.00	2682.53		
0.232	100.00		97.22	
0.235	100.00	2687.65		
0.268	100.00		97.12	
0.266	100.00	2691.55		
0.299	100.00		97.07	
0.301	100.00	2695.53		
0.330	100.00		97.03	
0.332	100.00	2698.77		
0.366	100.00		96.97	
0.364	100.00	2701.69		
0.397	100.00		96.93	
0.399	100.00	2704.87		
0.432	100.00		96.93	
0.430	100.00	2707.53		
0.463	100.00		96.92	
0.466	100.00	2710.25		
0.498	100.00		96.85	SPSI 690
0.496	100.00	2712.49		
0.529	200.00		96.85	
0.531	200.00	2716.95		
0.564	200.00		96.86	
0.562	200.00	2719.78		
0.595	200.00		96.86	
0.598	200.00	2722.67		
0.631	200.00		96.85	
0.629	200.00	2724.99		
0.662	200.00		96.83	
0.664	200.00	2727.50		
0.693	200.00		96.83	
0.696	200.00	2729.61		
0.729	200.00		96.85	
0.727	200.00	2731.61		
0.760	200.00		96.90	
0.762	200.00	2733.82		
0.795	200.00		96.95	
0.793	200.00	2735.52		

PAGE START DATE: 10/20/99
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DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.826	200.00		96.99	
0.829	200.00	2737.42		
0.859	200.00		97.02	
0.862	200.00	2739.12		
0.895	200.00		97.02	
0.893	200.00	2740.71		
0.926	200.00		97.00	
0.929	200.00	2743.11		
0.957	200.00		96.99	
0.960	200.00	2744.86		
0.993	200.00		96.98	SPSI 720
0.991	200.00	2746.49		
1.024	400.00		96.96	
1.026	400.00	2753.41		
1.059	400.00		96.93	
1.057	400.00	2757.68		
1.090	400.00		96.90	
1.093	400.00	2761.21		
1.126	400.00		96.86	
1.124	400.00	2763.81		
1.157	400.00		96.82	
1.159	400.00	2766.57		
1.188	400.00		96.78	
1.191	400.00	2768.77		
1.224	400.00		96.74	
1.222	400.00	2770.92		
1.255	400.00		96.70	
1.257	400.00	2773.21		
1.290	400.00		96.64	
1.288	400.00	2775.12		
1.321	400.00		96.60	
1.324	400.00	2777.33		
1.357	400.00		96.57	
1.355	400.00	2779.11		
1.388	400.00		96.54	
1.391	400.00	2781.11		
1.419	400.00		96.50	
1.422	400.00	2782.88		
1.455	400.00		96.47	
1.453	400.00	2784.58		
1.486	400.00		96.43	SPSI 760
1.488	400.00	2786.45		
1.521	600.00		96.39	
1.519	600.00	2802.25		
1.552	600.00		96.32	
1.555	600.00	2810.68		
1.588	600.00		96.25	
1.586	600.00	2815.89		
1.619	600.00		96.19	
1.621	600.00	2820.77		

PAGE START DATE: 10/20/99
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DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BELS/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.651	600.00		96.12	
1.653	600.00	2824.69		
1.684	600.00		96.05	
1.686	600.00	2828.39		
1.719	600.00		95.97	
1.717	600.00	2831.62		
1.750	600.00		95.92	
1.753	600.00	2835.13		
1.786	600.00		95.81	
1.784	600.00	2837.41		
1.817	600.00		95.69	
1.819	600.00	2836.15		
1.848	600.00		95.64	
1.851	600.00	2840.66		
1.884	600.00		95.63	
1.882	600.00	2844.00		
1.915	600.00		95.57	
1.917	600.00	2846.97		
1.950	600.00		95.50	
1.948	600.00	2849.47		
1.981	600.00		95.44	
1.984	600.00	2852.19		
2.014	800.00		95.40	SPSI 845
2.017	800.00	2855.08		
2.050	800.00		95.27	
2.048	800.00	2875.22		
2.081	800.00		95.22	
2.084	800.00	2884.20		
2.112	800.00		95.05	
2.115	800.00	2891.08		
2.148	800.00		94.86	
2.146	800.00	2896.88		
2.179	800.00		94.78	
2.181	800.00	2902.67		
2.214	800.00		94.68	
2.213	800.00	2906.93		
2.246	800.00		94.61	
2.248	800.00	2911.48		
2.281	800.00		94.52	
2.279	800.00	2915.28		
2.312	800.00		94.44	
2.315	800.00	2919.38		
2.343	800.00		94.37	
2.346	800.00	2922.85		
2.379	800.00		94.20	
2.377	800.00	2926.29		
2.410	800.00		94.06	
2.413	800.00	2929.76		
2.446	800.00		93.96	
2.444	800.00	2932.80		

PAGE START DATE: 10/20/99
PAGE START TIME: 12:29: 0
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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.477	800.00		93.77	
2.479	800.00	2936.86		
2.511	1100.00		93.70	SPSI 950
2.509	1100.00	2940.95		
2.542	1100.00		93.65	
2.544	1100.00	2969.44		
2.578	1100.00		93.46	
2.576	1100.00	2980.54		
2.609	1100.00		93.32	
2.611	1100.00	2989.93		
2.644	1100.00		93.19	
2.642	1100.00	2998.85		
2.675	1100.00		93.06	
2.673	1100.00	3006.60		
2.706	1100.00		92.92	
2.709	1100.00	3013.98		
2.742	1100.00		92.80	
2.740	1100.00	3019.57		
2.773	1100.00		92.64	
2.776	1100.00	3025.63		
2.809	1100.00		92.42	
2.807	1100.00	3030.67		
2.840	1100.00		92.29	
2.842	1100.00	3036.26		
2.871	1100.00		92.17	
2.873	1100.00	3040.86		
2.906	1100.00		92.04	
2.904	1100.00	3045.07		
2.937	1100.00		91.92	
2.940	1100.00	3050.09		
2.973	1100.00		91.80	SPSI 1060
2.971	1100.00	3054.18		
3.004	1400.00		91.66	
3.006	1400.00	3080.06		
3.039	1400.00		91.52	
3.037	1400.00	3093.42		
3.070	1400.00		91.38	
3.073	1400.00	3104.40		
3.106	1400.00		91.22	
3.104	1400.00	3113.26		
3.137	1400.00		91.14	
3.139	1400.00	3122.32		
3.168	1400.00		91.01	
3.171	1400.00	3129.10		
3.204	1400.00		90.85	
3.202	1400.00	3135.33		
3.235	1400.00		90.71	
3.237	1400.00	3141.79		
3.270	1400.00		90.55	
3.268	1400.00	3146.92		

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DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.301	1400.00		90.43	
3.304	1400.00	3152.65		
3.334	1400.00		90.32	
3.337	1400.00	3156.83		
3.370	1400.00		90.23	
3.368	1400.00	3160.85		
3.401	1400.00		90.16	
3.403	1400.00	3165.63		
3.432	1400.00		90.10	
3.434	1400.00	3169.88		
3.468	1400.00		90.03	
3.466	1400.00	3173.86		
3.499	1700.00		89.98	
3.501	1700.00	3178.34		
3.534	1700.00		89.59	SPSI 1220
3.532	1700.00	3197.23		
3.565	1700.00		89.47	
3.568	1700.00	3213.59		
3.601	1700.00		89.40	
3.599	1700.00	3223.92		
3.632	1700.00		89.34	
3.634	1700.00	3233.08		
3.663	1700.00		89.28	
3.665	1700.00	3239.90		
3.698	1700.00		89.21	
3.696	1700.00	3246.06		
3.729	1700.00		89.12	
3.732	1700.00	3252.55		
3.765	1700.00		89.01	
3.763	1700.00	3257.89		
3.796	1700.00		88.93	
3.799	1700.00	3269.37		
3.832	1700.00		88.84	
3.830	1700.00	3279.00		
3.863	1700.00		88.79	
3.865	1700.00	3288.23		
3.894	1700.00		88.74	
3.896	1700.00	3294.84		
3.929	1700.00		88.69	
3.927	1700.00	3300.88		
3.961	1700.00		88.66	
3.963	1700.00	3307.74		
3.997	2000.00		88.64	SPSI 1400
3.995	2000.00	3324.28		
4.028	2000.00		88.57	
4.031	2000.00	3344.30		
4.059	2000.00		88.51	
4.062	2000.00	3355.45		
4.095	2000.00		88.46	
4.093	2000.00	3365.77		

PAGE START DATE: 10/20/99
PAGE START TIME: 14: 7:57
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.126	2000.00		88.41	
4.128	2000.00	3375.76		
4.159	2000.00		88.33	
4.161	2000.00	3385.36		
4.194	2000.00		88.26	
4.192	2000.00	3394.02		
4.225	2000.00		88.21	
4.228	2000.00	3402.34		
4.261	2000.00		88.16	
4.259	2000.00	3409.84		
4.292	2000.00		88.15	
4.294	2000.00	3417.63		
4.323	2000.00		88.12	
4.326	2000.00	3424.75		
4.359	2000.00		88.10	
4.357	2000.00	3430.95		
4.390	2000.00		88.10	
4.392	2000.00	3437.66		
4.425	2000.00		88.08	
4.423	2000.00	3444.32		
4.457	2000.00		88.05	SPSI 1580
4.459	2000.00	3450.20		
4.490	2300.00		88.29	
4.488	2300.00	3455.77		
4.521	2300.00		88.09	
4.524	2300.00	3481.37		
4.557	2300.00		88.12	
4.555	2300.00	3496.59		
4.588	2300.00		88.09	
4.591	2300.00	3510.05		
4.624	2300.00		87.96	
4.622	2300.00	3520.90		
4.655	2300.00		87.86	
4.657	2300.00	3530.93		
4.686	2300.00		87.84	
4.688	2300.00	3539.47		
4.721	2300.00		87.67	
4.719	2300.00	3549.69		
4.753	2300.00		87.27	
4.755	2300.00	3557.39		
4.788	2300.00		87.54	
4.786	2300.00	3564.65		
4.819	2300.00		87.50	
4.822	2300.00	3573.94		
4.855	2300.00		87.52	
4.853	2300.00	3581.29		
4.886	2300.00		87.47	
4.888	2300.00	3589.95		
4.917	2300.00		87.51	
4.919	2300.00	3597.19		

PAGE START DATE: 10/20/99
PAGE START TIME: 14:57:35
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GAUGE S/N: 77675

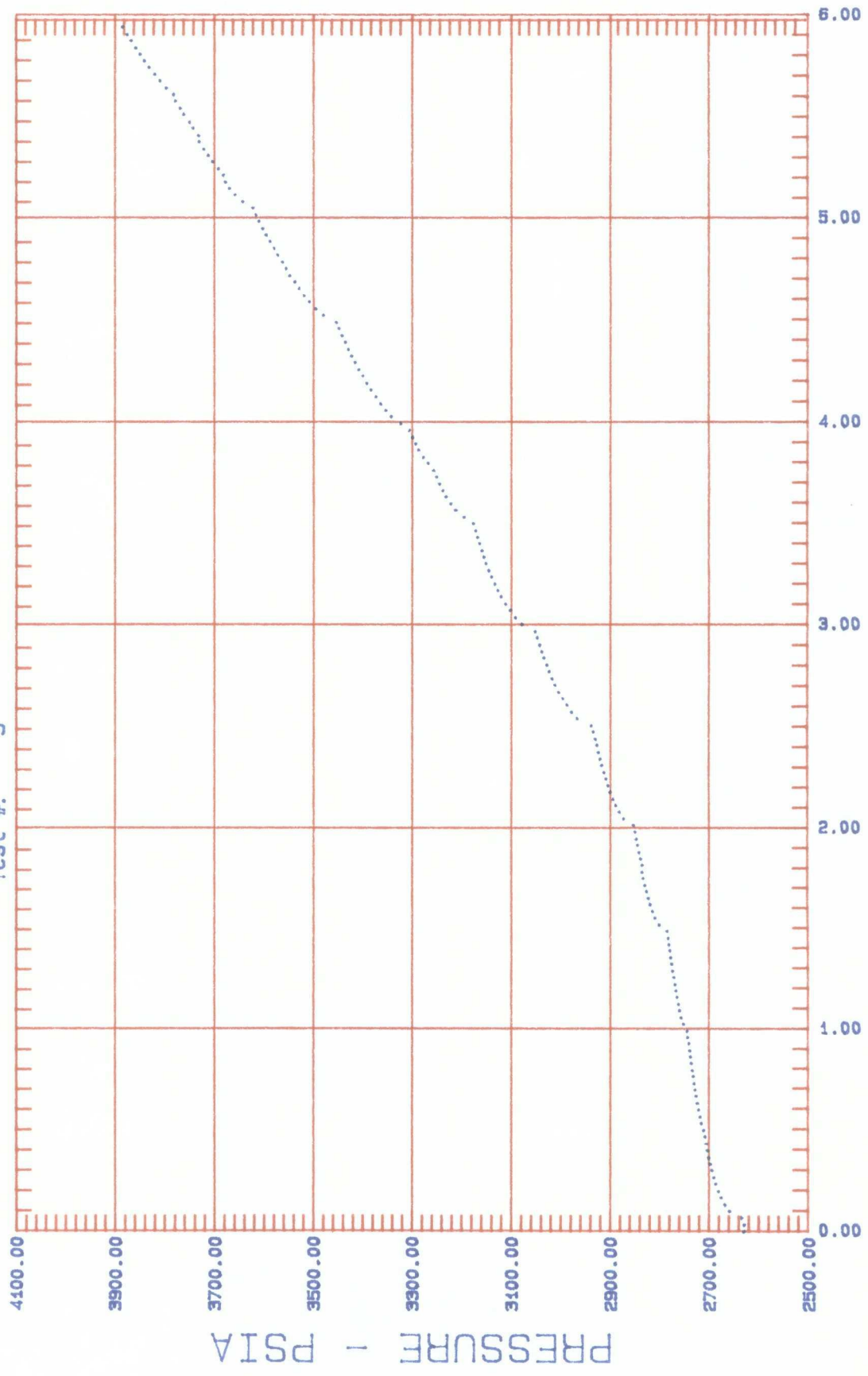
DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.953	2300.00		87.47	
4.951	2300.00	3604.34		
4.985	2600.00		87.47	
4.987	2600.00	3611.88		
5.016	2600.00		87.49	
5.018	2600.00	3618.19		
5.051	2600.00		87.48	
5.053	2600.00	3624.63		
5.086	2600.00		87.42	
5.084	2600.00	3644.99		
5.117	2600.00		87.43	
5.120	2600.00	3660.43		
5.148	2600.00		87.34	
5.151	2600.00	3671.44		
5.184	2600.00		87.34	
5.182	2600.00	3679.71		
5.215	2600.00		87.32	
5.217	2600.00	3683.96		
5.251	2600.00		87.36	
5.249	2600.00	3693.94		
5.282	2600.00		87.33	
5.284	2600.00	3705.17		
5.313	2600.00		87.29	
5.315	2600.00	3714.18		
5.348	2600.00		87.14	
5.346	2600.00	3722.70		
5.379	2600.00		87.12	
5.382	2600.00	3732.44		
5.415	2600.00		87.17	
5.413	2600.00	3733.58		
5.446	2600.00		87.15	
5.449	2600.00	3744.51		
5.481	2900.00		87.16	SPSI 1960
5.478	2900.00	3751.97		
5.513	2900.00		87.21	
5.515	2900.00	3763.40		
5.548	2900.00		87.53	
5.546	2900.00	3770.86		
5.579	2900.00		87.53	
5.582	2900.00	3780.11		
5.610	2900.00		87.51	
5.613	2900.00	3784.50		
5.646	2900.00		87.62	
5.644	2900.00	3798.67		
5.677	2900.00		87.61	
5.679	2900.00	3811.73		
5.713	2900.00		87.59	
5.711	2900.00	3821.93		
5.744	2900.00		87.52	
5.746	2900.00	3833.33		

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DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
5.775	2900.00		87.40	
5.778	2900.00	3842.63		
5.808	2900.00		87.54	
5.811	2900.00	3851.20		
5.844	2900.00		87.71	
5.842	2900.00	3860.03		
5.875	2900.00		87.81	
5.877	2900.00	3869.35		
5.910	2900.00		87.98	
5.908	2900.00	3877.41		
5.942	2900.00		88.06	SPSI 2080
5.944	2900.00	3887.27		

Plot starting date: 10/20/99 Company: LIGHTFOOT WIRELINE SERV Location: VACUUM GRAYBURG SAN ANDRES
time: 10: 0:24 Client: TEXACO E & P INC. Operator: D. GRyder
Gauge S/N 77675 Well name: WEST VACUUM UNIT #60 Comments: STEP-RATE TEST BHP/RATE
Well #: 3 GAUGE SET @ 4655'
Test #: 3



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #60
WELL NUMBER: 3
TEST NUMBER: 3
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4655'

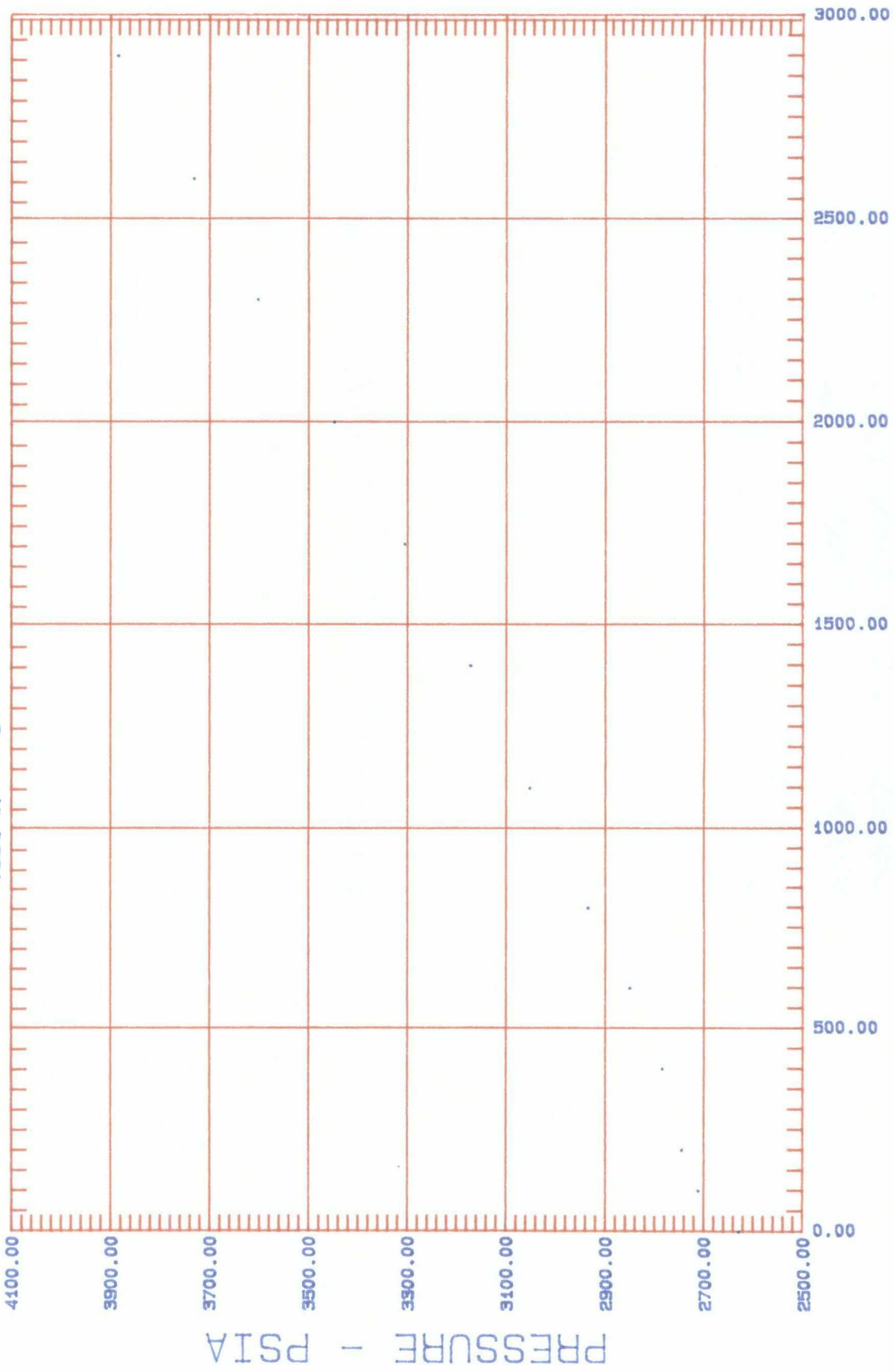
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2	63150
3	77675
4	

PAGE START DATE: 10/20/99
PAGE START TIME: 10: 0: 0
DATA FILE: 4

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	2630.45		
0.500	100.00	2712.49		
1.000	200.00	2746.49		
1.500	400.00	2786.45		
2.000	600.00	2852.19		
2.500	800.00	2936.86		
3.000	1100.00	3054.18		
3.500	1400.00	3173.86		
4.000	1700.00	3307.74		
4.500	2000.00	3450.20		
5.000	2300.00	3604.34		
5.500	2600.00	3733.58		
6.000	2900.00	3887.27		

Plot starting date: 10/20/99 Company: LIGHTFOOT WIRELINE SERV Location: VACUUM GRAYBURG SAN ANDRES
time: 10: 0: 0 Client: TEXACO E & P INC. Operator: D. GRyder
Gauge S/N 77675 Well name: WEST VACUUM UNIT #60 Comments: STEP-RATE TEST BHP/RATE
Well #: 3 GAUGE SET @ 4655'
Test #: 3



COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #60
WELL NUMBER: 3
TEST NUMBER: 3
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/20/99
PAGE START TIME: 10: 0: 0
DATA FILE: 8

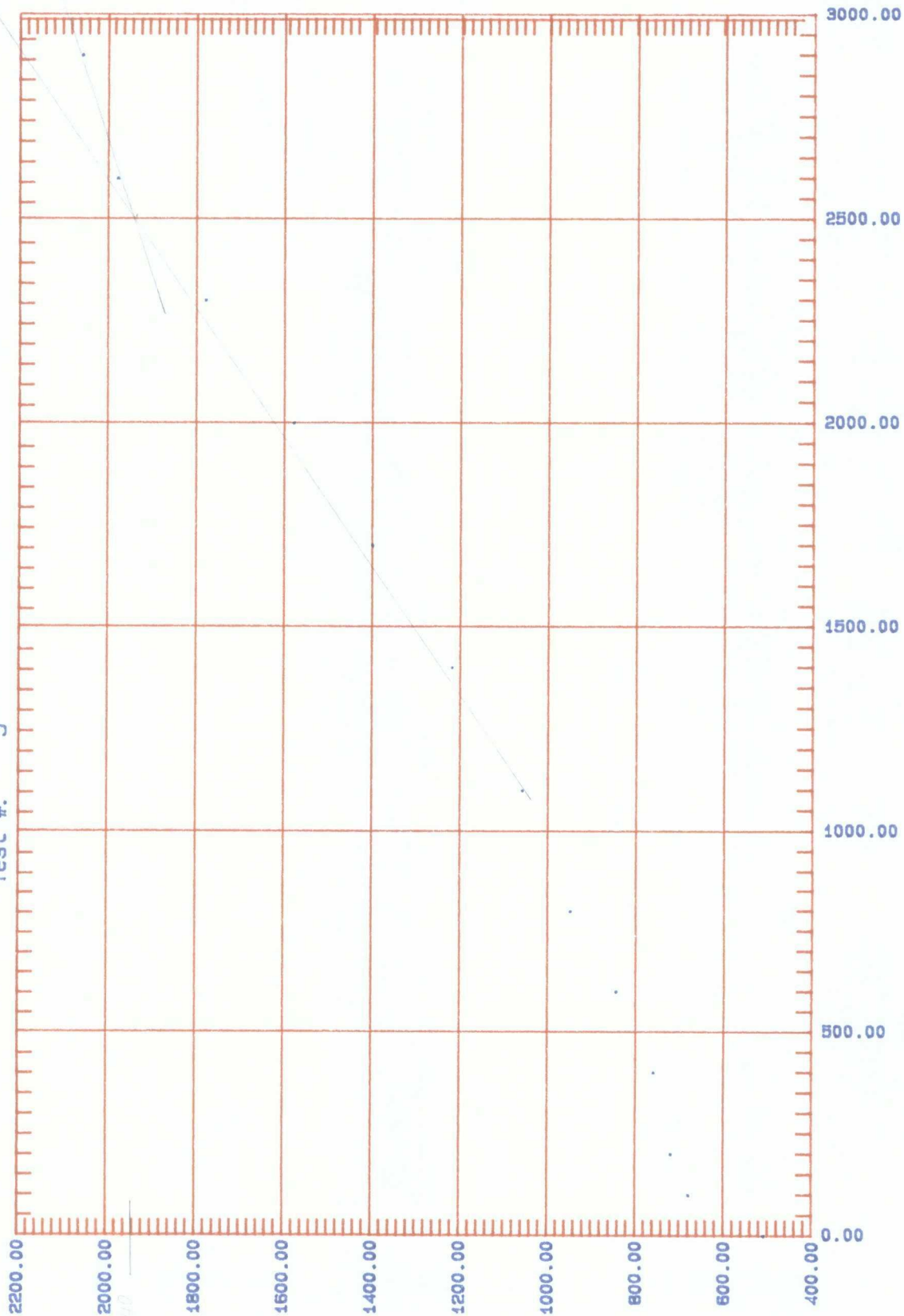
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	510.00		
0.500	100.00	680.00		
1.000	200.00	720.00		
1.500	400.00	760.00		
2.000	600.00	845.00		
2.500	800.00	950.00		
3.000	1100.00	1060.00		
3.500	1400.00	1220.00		
4.000	1700.00	1400.00		
4.500	2000.00	1580.00		
5.000	2300.00	1780.00		
5.500	2600.00	1980.00		
6.000	2900.00	2060.00		

Plot starting date: 10/20/99
time: 10: 0: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: TEXACO E & P INC.
Well name: WEST VACUMM UNIT #60
Well #: 3
Test #: 3

Location: VACUMM GRAYBURG SAN ANDRES
Operator: D. GRYDER
Comments: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE



FLOW RATE - BBLS/DAY

LIGHTFOOT WIRELINE SERVICE, INC.

STEP RATE TEST

TEXACO E & P INC.
WEST VACUMM UNIT #68
WEST VACUMM FIELD

10/18/99
LEA COUNTY

WELL DATA

WELL STATUS: SHUT-IN
PRESSURE DATUM: 4700'
TUBING: 2 3/8"
CASING: 5 1/2"
PERFS: 4560-4840'
FORMATION: SAN ANDRES
PACKER DEPTH: 4507'
T.D. : N/A

TEST INFORMATION

STABILIZED RATE: -0- B/D
STABILIZED PRESSURE: 2493.04 BHP
RATE INCREMENTS: MULTIPLE INCREMENTS
STEP LENGTH: 30 MINS.
CUMULATIVE INJECTION:
TEST OPERATOR: D. GRYDER

SUMMARY

BHP PARTING PRESSURE: ---- 3360
SURFACE PARTING PRESSURE: 1350
PARTING GRADIENT: ----- .71

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #68
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4700'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 10/18/99
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DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		101.80	SPSI 400
-0.002	0.00	2493.04		
0.033	100.00		101.82	
0.031	100.00	2493.23		
0.064	100.00		101.84	
0.066	100.00	2551.96		
0.099	100.00		101.85	
0.098	100.00	2565.10		
0.131	100.00		101.86	
0.133	100.00	2592.59		
0.166	100.00		101.87	
0.164	100.00	2612.67		
0.197	100.00		101.86	
0.195	100.00	2614.19		
0.228	100.00		101.87	
0.231	100.00	2623.57		
0.264	100.00		101.87	
0.262	100.00	2631.42		
0.295	100.00		101.87	
0.298	100.00	2640.23		
0.331	100.00		101.87	
0.329	100.00	2647.84		
0.362	100.00		101.87	
0.364	100.00	2656.57		
0.393	100.00		101.87	
0.395	100.00	2663.54		
0.428	100.00		101.88	
0.426	100.00	2666.88		
0.459	100.00		101.87	
0.462	100.00	2672.61		
0.494	100.00		101.88	SPSI 650
0.484	100.00	2675.93		
0.529	200.00		101.88	
0.527	200.00	2688.38		
0.560	200.00		101.88	
0.562	200.00	2697.43		
0.591	200.00		101.87	
0.593	200.00	2704.55		
0.626	200.00		101.87	
0.624	200.00	2710.80		
0.658	200.00		101.87	
0.660	200.00	2717.38		
0.693	200.00		101.87	
0.691	200.00	2722.88		
0.723	200.00		101.86	
0.726	200.00	2728.34		
0.759	200.00		101.85	
0.757	200.00	2733.25		
0.790	200.00		101.85	
0.793	200.00	2738.41		

PAGE START DATE: 10/18/99
PAGE START TIME: 14:54:46
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.826	200.00		101.85	
0.824	200.00	2742.85		
0.858	200.00		101.85	
0.856	200.00	2747.28		
0.889	200.00		101.85	
0.892	200.00	2751.91		
0.925	200.00		101.84	
0.923	200.00	2755.73		
0.956	200.00		101.84	
0.958	200.00	2760.20		
0.987	200.00		101.83	SPSI 750
0.989	200.00	2763.89		
1.020	300.00		101.82	
1.023	300.00	2771.35		
1.056	300.00		101.83	
1.054	300.00	2776.33		
1.087	300.00		101.81	
1.089	300.00	2780.32		
1.123	300.00		101.81	
1.121	300.00	2783.98		
1.154	300.00		101.81	
1.156	300.00	2788.57		
1.185	300.00		101.80	
1.187	300.00	2792.51		
1.220	300.00		101.80	
1.218	300.00	2796.35		
1.251	300.00		101.79	
1.254	300.00	2800.43		
1.287	300.00		101.79	
1.285	300.00	2804.06		
1.318	300.00		101.79	
1.321	300.00	2807.98		
1.354	300.00		101.79	
1.352	300.00	2811.43		
1.385	300.00		101.79	
1.387	300.00	2815.16		
1.416	300.00		101.79	
1.418	300.00	2818.61		
1.451	300.00		101.79	SPSI 790
1.453	300.00	2822.57		
1.482	300.00		101.79	
1.484	300.00	2826.57		
1.517	400.00		101.79	
1.515	400.00	2840.22		
1.548	400.00		101.78	
1.551	400.00	2855.06		
1.584	400.00		101.79	
1.582	400.00	2863.26		
1.615	400.00		101.79	
1.618	400.00	2870.81		

PAGE START DATE: 10/18/99
PAGE START TIME: 15:44:16
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.651	400.00		101.79	
1.649	400.00	2877.34		
1.683	400.00		101.79	
1.681	400.00	2883.11		
1.714	400.00		101.78	
1.717	400.00	2889.30		
1.750	400.00		101.77	
1.748	400.00	2894.03		
1.781	400.00		101.77	
1.783	400.00	2899.06		
1.812	400.00		101.76	
1.814	400.00	2903.95		
1.848	400.00		101.76	
1.846	400.00	2908.45		
1.879	400.00		101.76	
1.881	400.00	2914.21		
1.914	400.00		101.76	
1.912	400.00	2918.69		
1.945	400.00		101.76	SPSI 900
1.947	400.00	2923.76		
1.980	400.00		101.75	
1.978	400.00	2928.64		
2.011	500.00		101.75	
2.013	500.00	2948.57		
2.046	500.00		101.74	
2.044	500.00	2957.20		
2.077	500.00		101.74	
2.080	500.00	2968.32		
2.113	500.00		101.74	
2.111	500.00	2974.02		
2.144	500.00		101.74	
2.147	500.00	2983.44		
2.175	500.00		101.74	
2.178	500.00	2989.61		
2.211	500.00		101.73	
2.209	500.00	2994.98		
2.242	500.00		101.72	
2.244	500.00	3000.24		
2.278	500.00		101.72	
2.276	500.00	3004.98		
2.309	500.00		101.72	
2.311	500.00	3010.67		
2.340	500.00		101.72	
2.342	500.00	3016.62		
2.375	500.00		101.72	
2.373	500.00	3026.80		
2.406	500.00		101.71	
2.409	500.00	3034.74		
2.442	500.00		101.71	
2.440	500.00	3038.99		

PAGE START DATE: 10/18/99
PAGE START TIME: 16:33:38
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
2.474	500.00		101.70	SPSI 1000
2.476	500.00	3044.64		
2.507	600.00		101.70	
2.509	600.00	3063.69		
2.538	600.00		101.70	
2.540	600.00	3074.12		
2.573	600.00		101.70	
2.571	600.00	3082.21		
2.604	600.00		101.68	
2.607	600.00	3096.34		
2.640	600.00		101.68	
2.638	600.00	3104.31		
2.671	600.00		101.67	
2.674	600.00	3114.65		
2.707	600.00		101.66	
2.705	600.00	3121.46		
2.738	600.00		101.66	
2.740	600.00	3124.80		
2.769	600.00		101.65	
2.771	600.00	3134.34		
2.804	600.00		101.65	
2.802	600.00	3138.07		
2.836	600.00		101.64	
2.838	600.00	3141.45		
2.871	600.00		101.64	
2.869	600.00	3145.39		
2.902	600.00		101.62	
2.905	600.00	3149.78		
2.938	600.00		101.62	
2.936	600.00	3153.86		
2.967	600.00		101.62	SPSI 1000
2.969	600.00	3157.52		
3.001	800.00		101.60	
3.004	800.00	3195.67		
3.037	800.00		101.60	
3.035	800.00	3221.13		
3.068	800.00		101.62	
3.070	800.00	3230.22		
3.099	800.00		101.59	
3.101	800.00	3239.32		
3.134	800.00		101.57	
3.132	800.00	3248.16		
3.166	800.00		101.55	
3.168	800.00	3257.17		
3.201	800.00		101.54	
3.199	800.00	3263.82		
3.232	800.00		101.53	
3.235	800.00	3272.01		
3.268	800.00		101.52	
3.266	800.00	3277.86		

PAGE START DATE: 10/18/99
PAGE START TIME: 17:23: 8
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.299	800.00		101.49	
3.301	800.00	3284.34		
3.332	800.00		101.43	
3.334	800.00	3295.18		
3.363	800.00		101.41	
3.365	800.00	3304.92		
3.398	800.00		101.39	
3.396	800.00	3311.98		
3.429	800.00		101.37	
3.432	800.00	3319.25		
3.465	800.00		101.39	
3.463	800.00	3332.03		
3.496	1000.00		101.34	
3.499	1000.00	3336.88		
3.532	1000.00		101.35	
3.530	1000.00	3349.84		
3.563	1000.00		101.33	
3.565	1000.00	3380.81		
3.594	1000.00		101.31	
3.596	1000.00	3398.49		
3.629	1000.00		101.28	
3.628	1000.00	3412.35		
3.661	1000.00		101.23	
3.663	1000.00	3424.76		
3.696	1000.00		101.18	
3.694	1000.00	3432.18		
3.727	1000.00		101.13	
3.730	1000.00	3446.31		
3.759	1000.00		101.08	SPSI 1350
3.761	1000.00	3454.59		
3.794	1000.00		101.03	
3.793	1000.00	3462.11		
3.826	1000.00		100.98	
3.828	1000.00	3470.21		
3.861	1000.00		100.92	
3.859	1000.00	3481.02		
3.892	1000.00		100.87	
3.895	1000.00	3489.21		
3.928	1000.00		100.82	
3.926	1000.00	3499.93		
3.958	1000.00		100.76	SPSI 1500
3.961	1000.00	3526.64		
3.992	1300.00		100.66	
3.994	1300.00	3560.40		
4.023	1300.00		100.56	
4.026	1300.00	3584.07		
4.059	1300.00		100.42	
4.057	1300.00	3602.33		
4.090	1300.00		100.31	
4.092	1300.00	3623.16		

PAGE START DATE: 10/18/99
PAGE START TIME: 18:12:45
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.126	1300.00		100.17	
4.124	1300.00	3634.61		
4.158	1300.00		100.06	
4.156	1300.00	3645.49		
4.189	1300.00		99.92	
4.191	1300.00	3656.82		
4.224	1300.00		99.81	
4.222	1300.00	3666.77		
4.255	1300.00		99.70	
4.258	1300.00	3679.49		
4.291	1300.00		99.57	
4.289	1300.00	3692.43		
4.322	1300.00		99.48	
4.324	1300.00	3701.61		
4.353	1300.00		99.41	
4.356	1300.00	3713.76		
4.389	1300.00		99.33	
4.387	1300.00	3721.37		
4.420	1300.00		99.24	
4.422	1300.00	3733.86		
4.456	1300.00		99.11	SPSI 1760
4.453	1300.00	3742.95		
4.486	1600.00		98.83	
4.488	1600.00	3783.82		
4.521	1600.00		98.55	
4.519	1600.00	3806.60		
4.552	1600.00		98.24	
4.555	1600.00	3822.77		
4.588	1600.00		97.89	
4.586	1600.00	3836.23		
4.619	1600.00		97.55	
4.621	1600.00	3855.35		
4.650	1600.00		97.19	
4.653	1600.00	3870.09		
4.686	1600.00		96.81	
4.684	1600.00	3883.86		
4.717	1600.00		96.45	
4.719	1600.00	3896.42		
4.752	1600.00		95.98	
4.750	1600.00	3909.58		
4.783	1600.00		95.65	
4.786	1600.00	3920.73		
4.819	1600.00		95.48	
4.817	1600.00	3932.94		
4.850	1600.00		95.38	
4.853	1600.00	3943.43		
4.881	1600.00		95.26	
4.884	1600.00	3953.47		
4.917	1600.00		95.06	
4.915	1600.00	3961.07		

PAGE START DATE: 10/18/99
PAGE START TIME: 19: 2: 9
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
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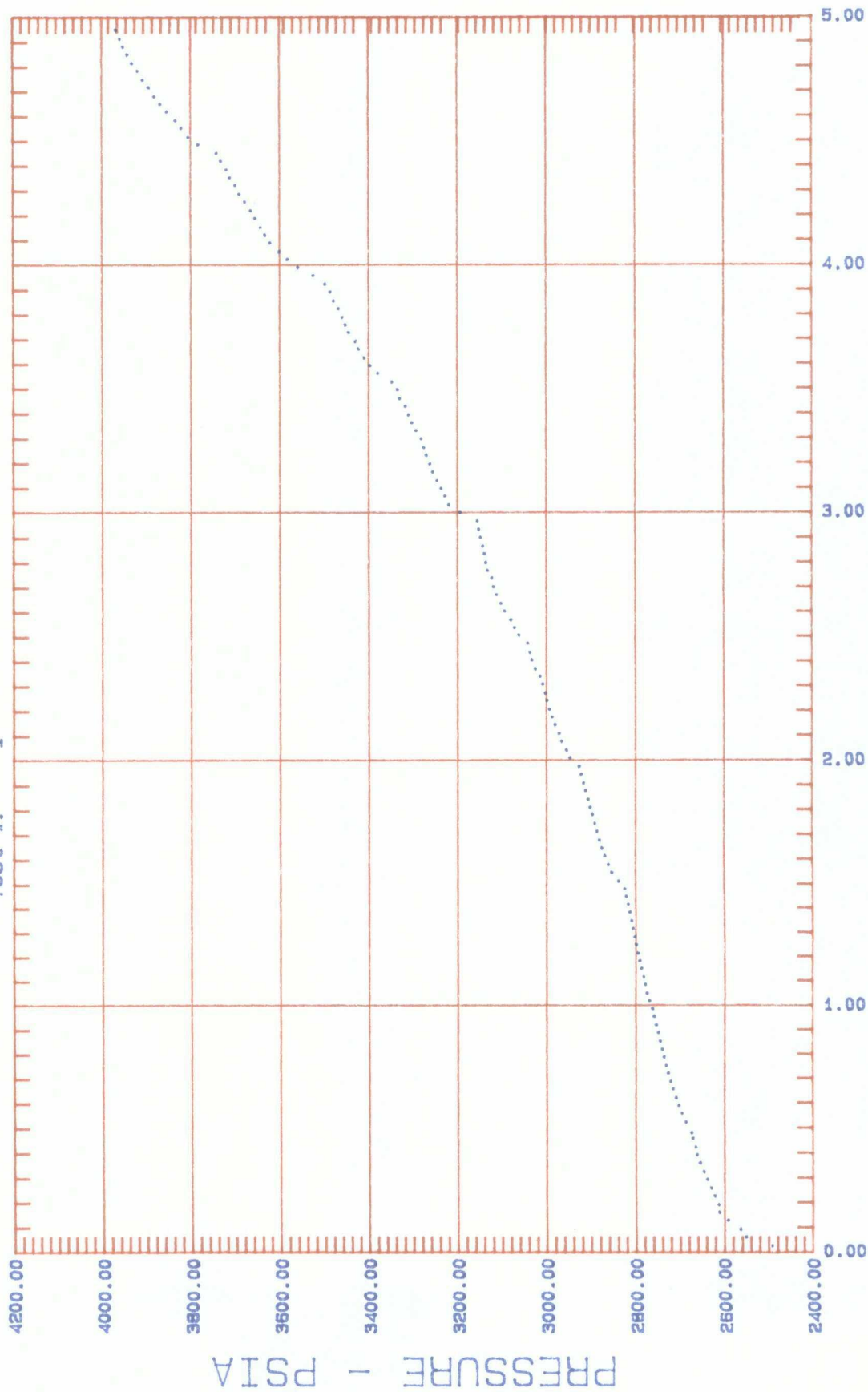
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Plot starting date: 10/18/99
time: 14: 5:12
Gauge S/N 77675

Company:
Client:
Well name:
Well #:
Test #:

LIGHTFOOT WIRELINE SERV
TEXACO E & P INC.
WEST VACUUM UNIT #68

Location: VACUUM GRAYBURG SAN ANDRES
Operator: D. GRAYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4700*



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #68
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 4700'

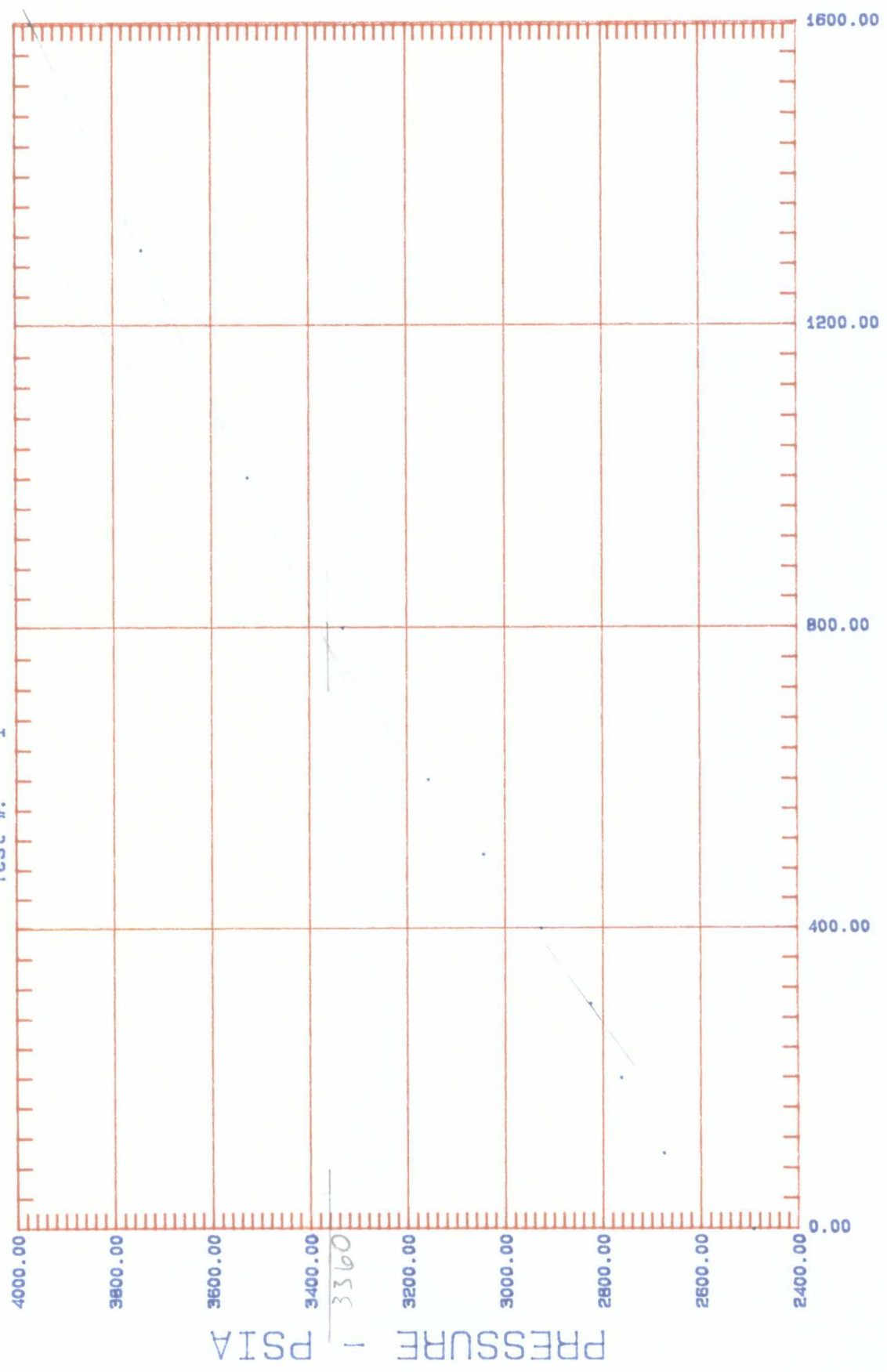
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2	63150
3	77675
4	

PAGE START DATE: 10/18/99
PAGE START TIME: 14: 4: 0
DATA FILE: 6

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
0.000	0.00	2493.04		
0.500	100.00	2675.93		
1.000	200.00	2763.89		
1.500	300.00	2826.57		
2.000	400.00	2928.64		
2.500	500.00	3044.64		
3.000	600.00	3157.52		
3.500	800.00	3332.03		
4.000	1000.00	3526.64		
4.500	1300.00	3742.95		
5.000	1600.00	3969.71		

Plot starting date: 10/18/99
 time: 14: 4: 0
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: TEXACO E & P INC.
 Well name: WEST VACUUM UNIT #68
 Well #: 1
 Test #: 1
 Location: VACUUM GRAYBURG SAN ANDRES
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 4700'



FLOW RATE - BBLS/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: TEXACO E & P INC.
GAUGE NUMBER: 77675
WELL NAME: WEST VACUMM UNIT #68
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION: VACUMM GRAYBURG SAN ANDRES
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

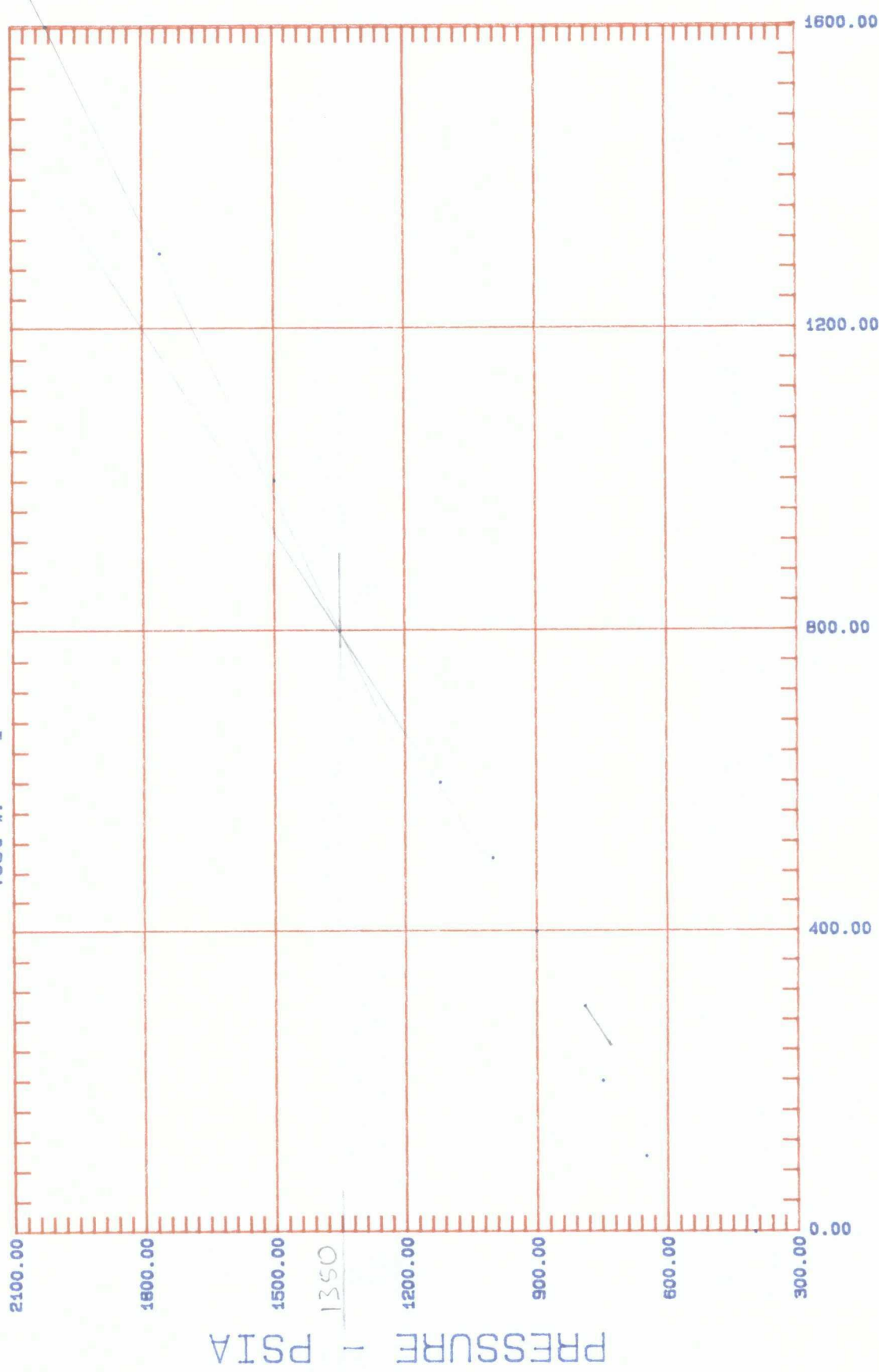
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PAGE START TIME: 14: 4: 0
DATA FILE: 6

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
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0.000	0.00	400.00		
0.500	100.00	650.00		
1.000	200.00	750.00		
1.500	300.00	790.00		
2.000	400.00	900.00		
2.500	500.00	1000.00		
3.000	600.00	1120.00		
3.500	800.00	1350.00		
4.000	1000.00	1500.00		
4.500	1300.00	1760.00		
5.000	1600.00	2020.00		

Plot starting date: 10/18/99
 time: 14: 4: 0
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: TEXACO E & P INC.
 Well name: WEST VACUUM UNIT #68
 Well #: 1
 Test #: 1
 Location: VACUUM GRAYBURG SAN ANDRES
 Operator: D. GRYDER
 Comments: STEP-RATE TEST SURF/RATE
 GAUGE SET @ SURFACE



FLOW RATE - BBLS/DAY