

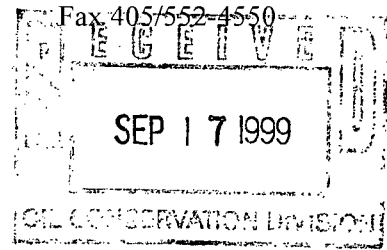
**DEVON
ENERGY
CORPORATION**

20 North Broadway
Suite 1500
Oklahoma City, Oklahoma 73102

P-5(P1-342N/R

405/235-3611

Fax 405/552-4550



September 15, 1999

New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

CERTIFIED MAIL: Z 068 589 409

Attention: Ben Stone

Dear Mr. Stone:

Administrative approval for an increase in surface injection pressures is respectfully requested for injection wells at Devon Energy Corporation's Keel "A" and Keel "B" leases located in Sections 5 & 7-T17S-R31E Eddy County, New Mexico. Step-rate tests performed within both of these sections indicate that increasing the current OCD approved **surface injection pressure gradient** to 0.63 psi/ft for Section 5 injectors and 0.66 psi/ft for Section 7 injectors will not exceed the subsurface injection interval's parting pressure within the areas reviewed.

Attached is a plat showing the Keel "A" and Keel "B" leases. The Keel "A" lease, located in Section 7-T17S-R31E, has fifteen wells injecting into the Grayburg and San Andres intervals. Step-rate test performed at six of the wells located in Section 7 and one well on the C. A. Russell lease located in Section 18-T17S-R31E indicate that the average surface *parting* pressure gradient for this lease (surface *parting* pressure gradient = surface parting pressure from step-rate test ÷ uppermost perforation depth) is 0.68 psi /ft.

The portion of the Keel "B" lease under review is located in Section 5-T17S-R31E and has twelve wells injecting into the Grayburg and San Andres intervals. Step rate tests performed at five of the wells located in Section 5 indicate that the average surface *parting* pressure gradient for this section is .65 psi/ft. The 12 step rate tests are attached for your review with a tabulated summary of the test results presented in Table I.

In addition to the 12 step-rate tests and their tabulated results also attached for your consideration and presented in Table II are the Section 5 & 7 injection wells where pressure increases are sought. Only the wells requiring modification of their injection pressures are listed in this table. Wells not included have already had their injection pressures revised by previous orders.

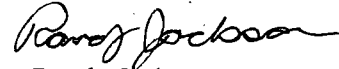
Increasing the surface injection pressure gradients as requested in Table II will improve secondary recovery efficiency but not exceed the formation's parting pressures. Since the requested injection pressures are below the parting pressures as determined by the step-rate test, fracturing of the subsurface formations will not occur at the requested injection pressure gradients; therefore, injected fluids will remain contained within the approved injection intervals.

The wells in which step-rate tests were performed are noted on the plat. As can be seen step-rate tests were performed around the perimeter of the area being reviewed with one additional test being conducted within the perimeter's interior. This distribution was selected so that an accurate

representation of the entire area could be obtained. Due to the consistency of the step-rate test results Devon feels very comfortable that the 12 step-rate tests accurately depict the parting pressures of the entire area being reviewed.

If you require any additional information regarding this matter please call me at 405-552-4560.

Sincerely;



Randy Jackson
District Engineer

**TABLE I
DEVON ENERGY CORPORATION
STEP RATE TEST SUMMARY**

WELL	STEP RATE TEST PERFORMED	LOCATION	TOP PERFORATION (ft)	STEP RATE	STEP RATE	SURFACE PARTING GRADIENT
				BOTTOMHOLE PARTING PRESSURE (psi)	SURFACE PARTING PRESSURE (psi)	@ TOP PERFORATION** (psi/ft)

WPX-687	✓ KEEL "B" 9A-2268	8/23/99	5-T17S-R31E	3072	3470 ✓	1925 ✓	0.63	.61
A-10758	KEEL "B" 11	8/17/99	5-T17S-R31E	2944	3270 ✓	1950 ✓	0.66	.64
WPX-687	✓ KEEL "B" 14A-2268	8/26/99	5-T17S-R31E	3050	3545 ✓	2025 ✓	0.66	
"	✓ KEEL "B" 19 "	8/24/99	5-T17S-R31E	3052	3432 ✓	1965 ✓	0.64	
"	✓ KEEL "B" 37 "	8/25/99	5-T17S-R31E	2945	3385 ✓	1885 ✓	0.64	
A-10758	AVERAGE					1950	0.65	

WPX-687	✓ KEEL "A" 03	8/11/99	7-17S-R31E	2755	2990 ✓	1680 ✓	0.61	.59
"	✓ KEEL "A" 06	8/12/99	7-17S-R31E	2815	3265 ✓	2040 ✓	0.72	
A-2268-A	KEEL "A" 12	8/20/99	7-17S-R31E	2827	3420 ✓	2025 ✓	0.72	
WPX-750	✓ KEEL "A" 15A-2268	8/16/99	7-17S-R31E	2798	3160 ✓	1800 ✓	0.64	
WPX-690	✓ KEEL "A" 17A-2268	8/18/99	7-17S-R31E	2870	3095 ✓	1940 ✓	0.68	
WPX-687	✓ KEEL "A" 28 "	8/19/99	7-17S-R31E	2770	3157 ✓	1975-1820	0.71	.63 ✗
"	✓ RUSSELL 18 "	4/27/98	8-T17S-R31E	2740	3038 ✓	1888-1780	0.69	.63 ✗
	AVERAGE					1907	0.68	

**SURFACE PARTING GRADIENT = SURFACE PARTING PRESSURE FROM STEP RATE TEST
UPPERMOST PERFORATION DEPTH

TABLE II
DEVON ENERGY CORPORATION
PROPOSED SURFACE PRESSURE INJECTION GRADIENTS

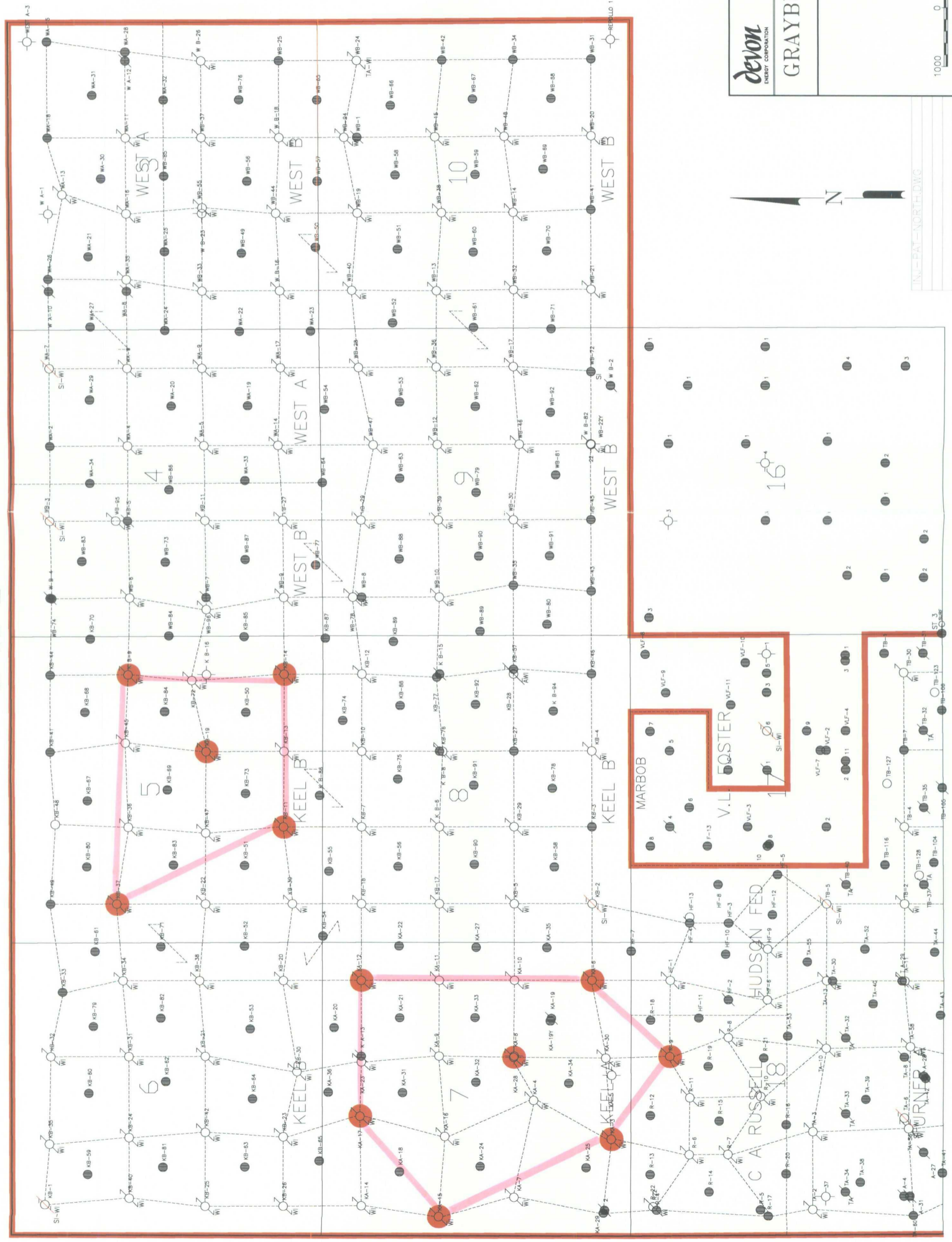
			SURFACE PARTING GRADIENT	REQUESTED	REQUESTED
			@	SURFACE	SURFACE
		TOP	TOP	INJECTION	INJECTION
WELL	LOCATION	PERFORATION	PERFORATION*	GRADIENT	PRESSURE**
		(ft)	(psi/ft)	(psi/ft)	(psi)
KEEL "B" 09	5-T17S-R31E	3072	0.65	0.63	1935
KEEL "B" 13	5-T17S-R31E	2992	0.65	0.63	1885
KEEL "B" 14	5-T17S-R31E	3050	0.65	0.63	1922
KEEL "B" 19	5-T17S-R31E	3052	0.65	0.63	1923
KEEL "B" 36	5-T17S-R31E	2977	0.65	0.63	1876
KEEL "B" 37	5-T17S-R31E	2945	0.65	0.63	1855
KEEL "B" 45	5-T17S-R31E	3048	0.65	0.63	1920
KEEL "B" 72	5-T17S-R31E	3082	0.65	0.63	1942
KEEL "A" 03	7-T17S-R31E	2755	0.68	0.66	1818
KEEL "A" 04	7-T17S-R31E	2779	0.68	0.66	1834
KEEL "A" 06	7-T17S-R31E	2815	0.68	0.66	1858
KEEL "A" 10	7-T17S-R31E	2832	0.68	0.66	1869
KEEL "A" 15	7-T17S-R31E	2798	0.68	0.66	1847
KEEL "A" 16	7-T17S-R31E	2791	0.68	0.66	1842
KEEL "A" 17	7-T17S-R31E	2870	0.68	0.66	1894
KEEL "A" 28	7-T17S-R31E	2770	0.68	0.66	1828
KEEL "A" 30	7-T17S-R31E	2754	0.68	0.66	1818

*SURFACE PARTING GRADIENT = SURFACE PARTING PRESSURE FROM STEP RATE TEST
UPPERMOST PERFORATION DEPTH

**BY OCD DEFINITION THE SURFACE INJECTION GRADIENT WILL BE UTILIZED TO DETERMINE THE
MAXIMUM SURFACE INJECTION PRESSURE BY MULTIPLYING THE APPROPRIATE GRADIENT BY THE DEPTH
OF THE UPPERMOST PERFORATION.

R 31 E

T 17 S



GRAYBURG-JACKSON AREA
 EDDY COUNTY, NEW MEXICO



INA-PAT-NORTH.DWG



R. JACKSON

9/99

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #3
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3005'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/11/99
PAGE START TIME: 12:27:37
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		80.61	SPSI 1350
-0.002	0.00	2693.90		
0.032	300.00		80.62	
0.030	300.00	2693.94		
0.063	300.00		80.63	
0.066	300.00	2694.14		
0.099	300.00		80.67	
0.097	300.00	2701.72		
0.130	300.00		80.61	
0.132	300.00	2717.62		
0.165	300.00		80.56	
0.163	300.00	2728.30		
0.196	300.00		80.51	
0.199	300.00	2740.61		
0.227	300.00		80.45	
0.230	300.00	2747.58		
0.263	300.00		80.41	
0.261	300.00	2755.43		
0.294	300.00		80.37	
0.297	300.00	2763.02		
0.330	300.00		80.32	
0.328	300.00	2770.01		
0.361	300.00		80.29	
0.363	300.00	2775.65		
0.396	300.00		80.25	
0.394	300.00	2780.97		
0.427	300.00		80.20	
0.430	300.00	2784.85		
0.459	300.00		80.11	
0.461	300.00	2788.80		
0.495	300.00		80.03	SPSI 1460
0.493	300.00	2792.86		
0.526	600.00		79.95	
0.528	600.00	2802.43		
0.561	600.00		79.81	
0.559	600.00	2813.46		
0.592	600.00		79.62	
0.595	600.00	2823.16		
0.628	600.00		79.34	
0.626	600.00	2830.39		
0.659	600.00		79.07	
0.661	600.00	2837.45		
0.690	600.00		78.75	
0.692	600.00	2842.80		
0.726	600.00		78.39	
0.724	600.00	2849.11		
0.757	600.00		78.13	
0.759	600.00	2855.28		
0.792	600.00		77.81	
0.790	600.00	2860.86		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.823	600.00		77.57	
0.826	600.00	2865.99		
0.856	600.00		77.25	
0.859	600.00	2871.04		
0.887	600.00		77.07	
0.890	600.00	2875.44		
0.923	600.00		76.81	
0.921	600.00	2878.55		
0.954	600.00		76.70	
0.957	600.00	2882.59		
0.989	600.00		76.69	SPSI 1560
0.987	600.00	2885.76		
1.020	900.00		76.67	
1.023	900.00	2896.04		
1.056	900.00		76.71	
1.054	900.00	2903.32		
1.087	900.00		76.79	
1.089	900.00	2910.92		
1.123	900.00		76.90	
1.121	900.00	2916.75		
1.154	900.00		77.02	
1.156	900.00	2921.99		
1.185	900.00		77.15	
1.187	900.00	2928.38		
1.220	900.00		77.30	
1.218	900.00	2931.84		
1.251	900.00		77.46	
1.254	900.00	2937.03		
1.287	900.00		77.71	
1.285	900.00	2941.54		
1.318	900.00		77.86	
1.321	900.00	2946.05		
1.354	900.00		78.13	
1.352	900.00	2949.14		
1.385	900.00		78.41	
1.387	900.00	2953.86		
1.416	900.00		78.70	
1.418	900.00	2957.06		
1.451	900.00		78.99	
1.449	900.00	2959.68		
1.482	900.00		79.20	SPSI 1650
1.484	900.00	2963.32		
1.517	1200.00		79.43	
1.516	1200.00	2965.37		
1.549	1200.00		79.58	
1.551	1200.00	2973.47		
1.584	1200.00		79.76	
1.582	1200.00	2977.61		
1.615	1200.00		79.90	
1.618	1200.00	2983.70		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.647	1200.00		80.02	
1.650	1200.00	2988.33		
1.680	1200.00		80.14	
1.683	1200.00	2990.94		
1.716	1200.00		80.30	
1.714	1200.00	2994.54		
1.747	1200.00		80.46	
1.749	1200.00	2998.00		
1.783	1200.00		80.67	
1.781	1200.00	3001.67		
1.814	1200.00		80.88	
1.816	1200.00	3005.38		
1.845	1200.00		81.11	
1.847	1200.00	3008.24		
1.880	1200.00		81.34	
1.878	1200.00	3011.02		
1.911	1200.00		81.52	
1.914	1200.00	3013.69		
1.947	1200.00		81.67	
1.945	1200.00	3015.42		
1.978	1200.00		81.78	
1.981	1200.00	3018.23		
2.013	1500.00		81.89	SPSI 1730
2.011	1500.00	3024.60		
2.044	1500.00		82.05	
2.047	1500.00	3029.59		
2.080	1500.00		82.21	
2.078	1500.00	3033.12		
2.111	1500.00		82.34	
2.113	1500.00	3036.14		
2.142	1500.00		82.50	
2.144	1500.00	3037.86		
2.177	1500.00		82.67	
2.176	1500.00	3040.69		
2.209	1500.00		82.85	
2.211	1500.00	3042.90		
2.244	1500.00		83.07	
2.242	1500.00	3045.46		
2.275	1500.00		83.26	
2.278	1500.00	3046.83		
2.311	1500.00		83.44	
2.309	1500.00	3048.39		
2.342	1500.00		83.54	
2.340	1500.00	3049.13		
2.373	1500.00		83.67	
2.376	1500.00	3050.95		
2.409	1500.00		83.71	
2.407	1500.00	3054.03		
2.440	1500.00		83.77	
2.442	1500.00	3055.24		

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GAUGE S/N: 77675

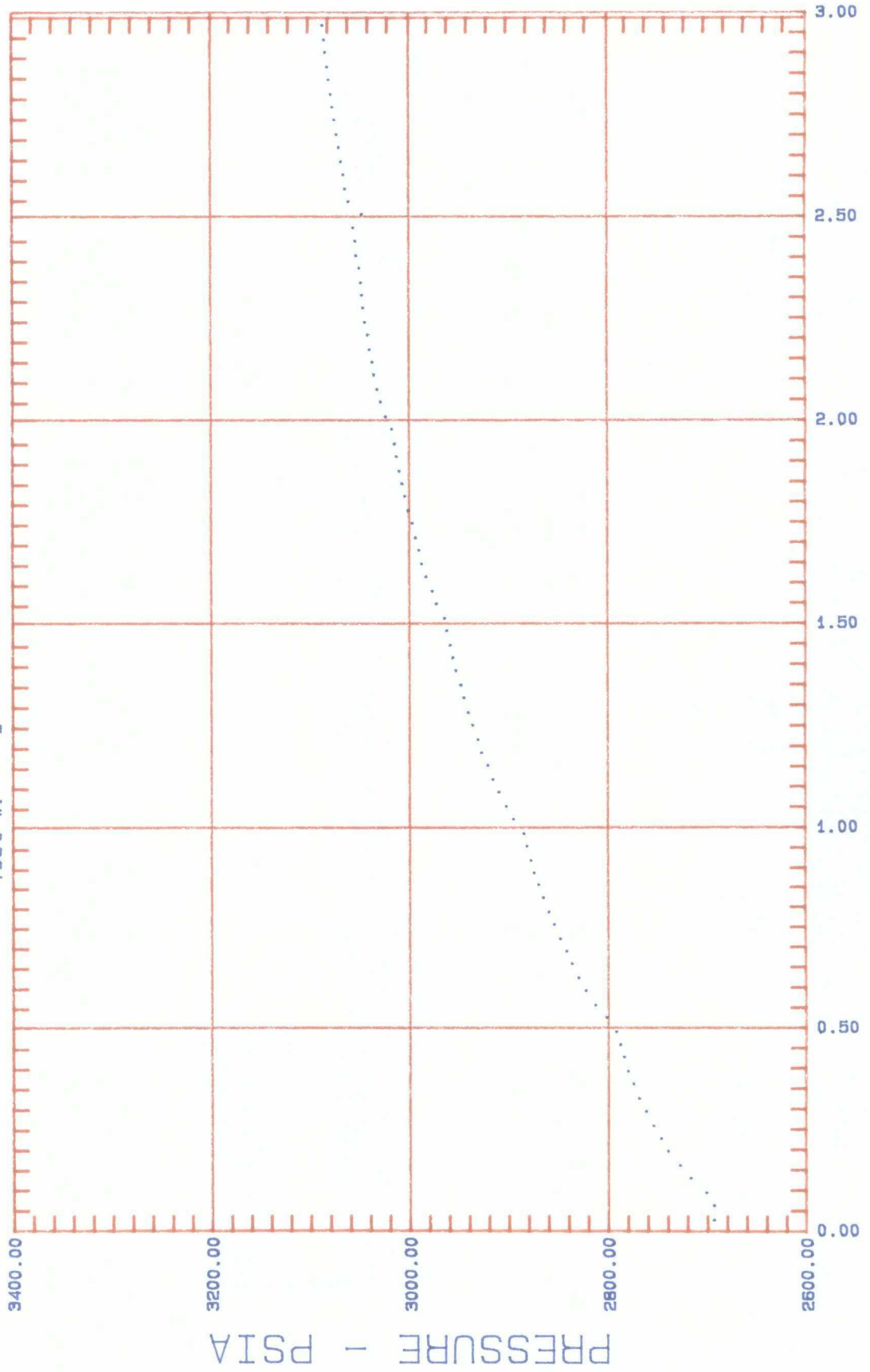
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2.473	1500.00		83.84	SPSI 1780
2.476	1500.00	3056.81		
2.506	1800.00		83.89	
2.509	1800.00	3047.34		
2.537	1800.00		83.84	
2.540	1800.00	3061.36		
2.573	1800.00		83.88	
2.571	1800.00	3065.02		
2.604	1800.00		83.94	
2.607	1800.00	3067.02		
2.640	1800.00		83.97	
2.638	1800.00	3069.44		
2.671	1800.00		84.04	
2.673	1800.00	3071.56		
2.706	1800.00		84.19	
2.704	1800.00	3073.63		
2.737	1800.00		84.37	
2.740	1800.00	3075.88		
2.769	1800.00		84.67	
2.771	1800.00	3077.70		
2.804	1800.00		84.96	
2.802	1800.00	3079.18		
2.835	1800.00		85.13	
2.838	1800.00	3081.28		
2.871	1800.00		85.27	
2.869	1800.00	3082.64		
2.902	1800.00		85.38	
2.904	1800.00	3084.83		
2.937	1800.00		85.49	
2.936	1800.00	3086.05		
2.969	1800.00		85.57	
2.971	1800.00	3087.76		
3.000	1800.00		85.64	
3.002	1800.00	3089.17		

Plot starting date: 8/11/99
time: 12:27:37

Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #3
Well #: 1
Test #: 1

Location: KEEL FIELD
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3005'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #3
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3005'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

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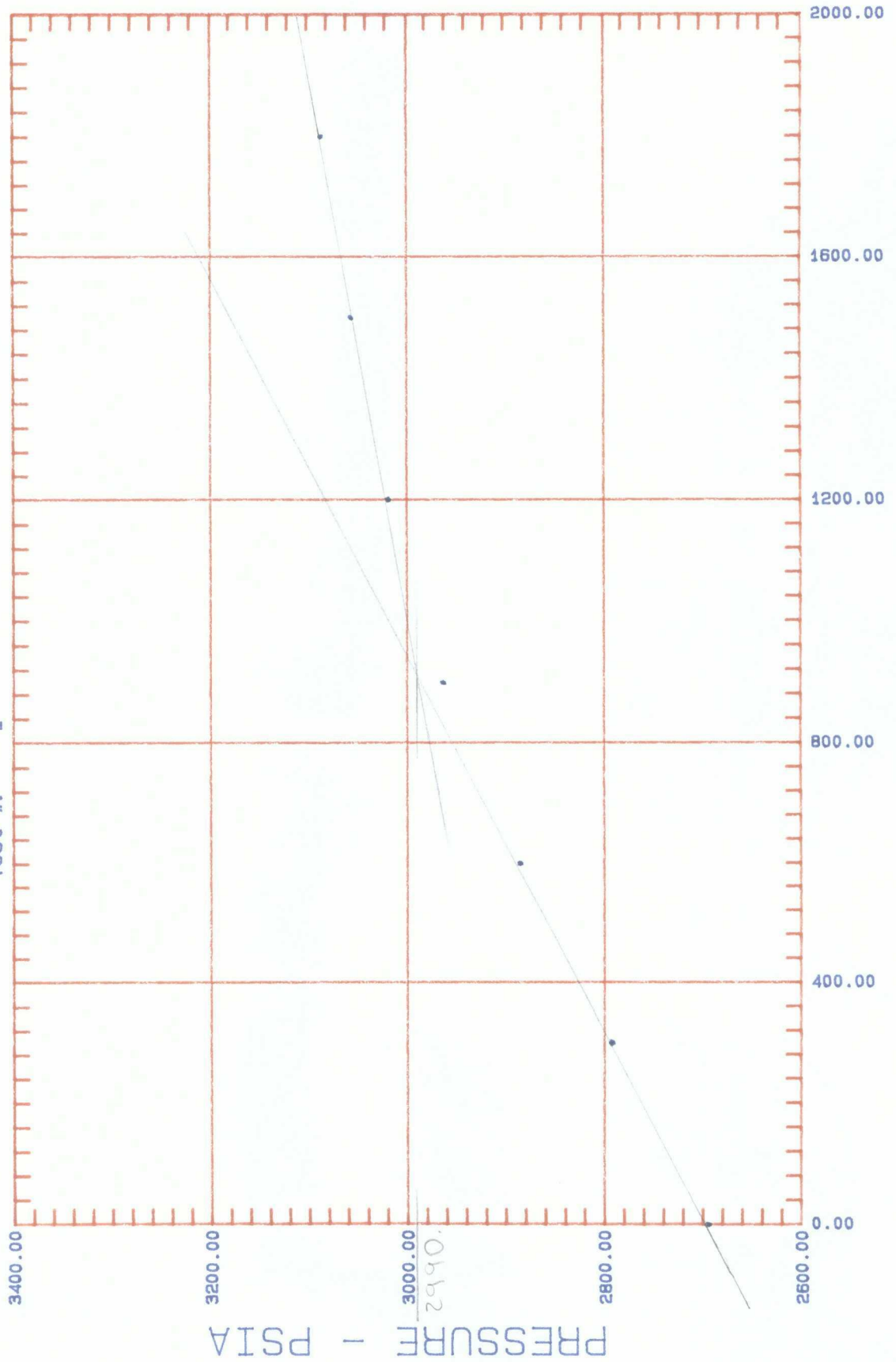
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	2693.90		
0.500	300.00	2792.86		
1.000	600.00	2885.76		
1.500	900.00	2963.32		
2.000	1200.00	3018.23		
2.500	1500.00	3056.81		
3.000	1800.00	3087.76		

Plot starting date: 8/11/99
time: 12:27: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #3
Well #: 1
Test #: 1

Location: KEEL FIELD
Operator: D. GRAYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3005'



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #3
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION: KEEL FIELD
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: 8/11/99
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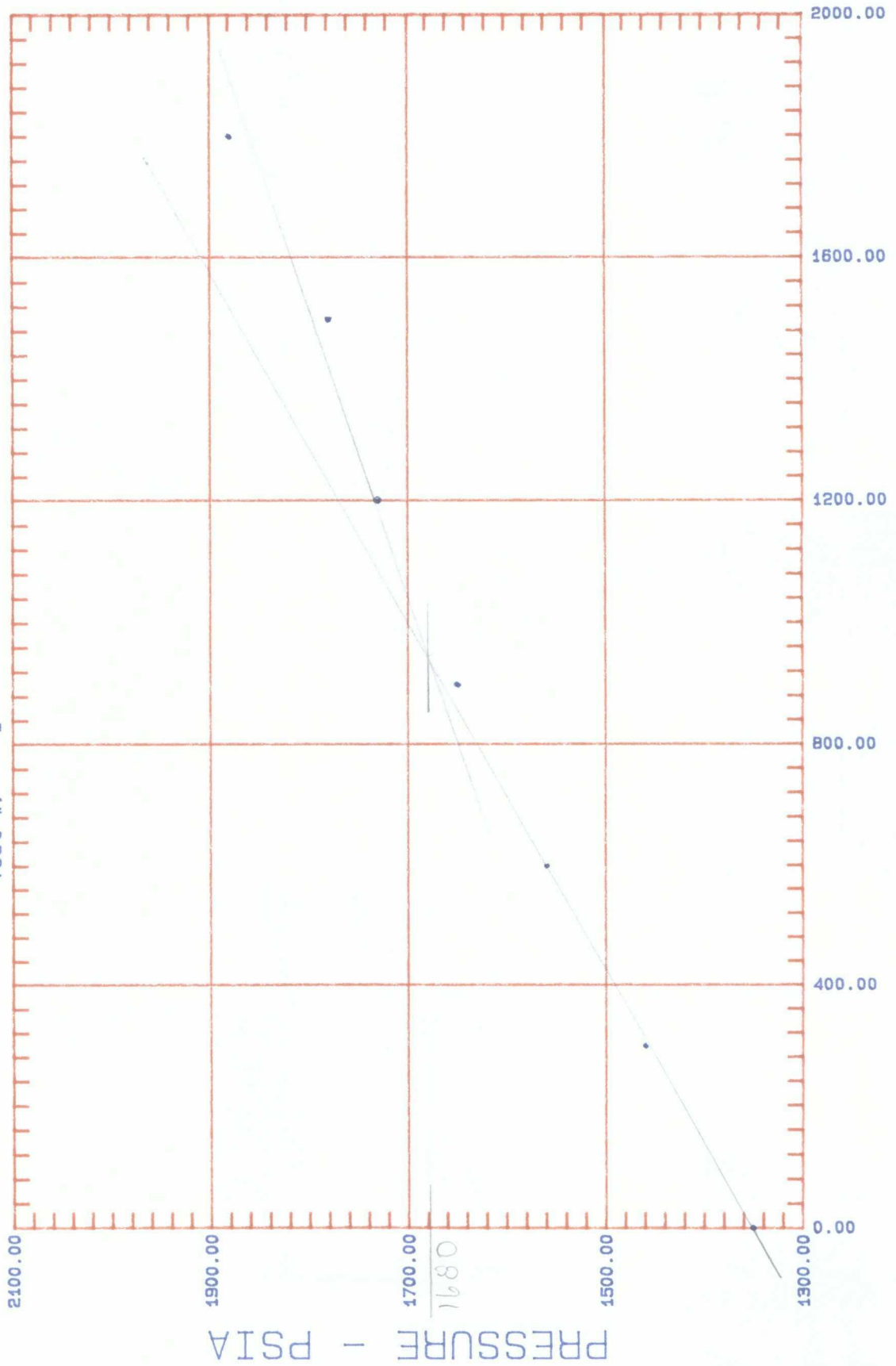
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1350.00		
0.500	300.00	1460.00		
1.000	600.00	1560.00		
1.500	900.00	1650.00		
2.000	1200.00	1730.00		
2.500	1500.00	1780.00		
3.000	1800.00	1880.00		

Plot starting date: 8/11/99
time: 12:27: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #3
Well #: 1
Test #: 1

Location: KEEL FIELD
Operator: D. GRAYDER
Comments: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #6
WELL NUMBER: 2
TEST NUMBER: 2
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3060'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/12/99
PAGE START TIME: 10:33: 4
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		80.25	SPSI 1350
0.003	0.00	2712.95		
0.032	200.00		80.26	
0.035	200.00	2732.88		
0.068	200.00		80.28	
0.066	200.00	2751.21		
0.099	200.00		80.24	
0.101	200.00	2767.04		
0.134	200.00		80.24	
0.133	200.00	2776.10		
0.166	200.00		80.23	
0.168	200.00	2783.61		
0.201	200.00		80.21	
0.199	200.00	2789.93		
0.232	200.00		80.19	
0.235	200.00	2796.25		
0.263	200.00		80.16	
0.266	200.00	2801.55		
0.299	200.00		80.12	
0.297	200.00	2806.55		
0.330	200.00		80.08	
0.333	200.00	2811.74		
0.366	200.00		80.03	
0.364	200.00	2816.87		
0.397	200.00		79.98	
0.399	200.00	2820.84		
0.432	200.00		79.91	
0.430	200.00	2811.69		
0.463	200.00		79.86	
0.466	200.00	2820.39		
0.498	200.00		79.79	SPSI 1480
0.496	200.00	2825.04		
0.528	400.00		79.72	
0.530	400.00	2852.96		
0.563	400.00		79.54	
0.561	400.00	2862.17		
0.594	400.00		79.40	
0.597	400.00	2871.18		
0.630	400.00		79.24	
0.628	400.00	2878.91		
0.661	400.00		79.11	
0.663	400.00	2882.80		
0.692	400.00		78.98	
0.694	400.00	2888.84		
0.728	400.00		78.81	
0.726	400.00	2898.29		
0.759	400.00		78.67	
0.761	400.00	2905.14		
0.794	400.00		78.50	
0.792	400.00	2912.51		

PAGE START DATE: 8/12/99
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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.825	400.00		78.35	
0.828	400.00	2920.26		
0.858	400.00		78.20	
0.861	400.00	2924.58		
0.894	400.00		78.06	
0.892	400.00	2928.21		
0.925	400.00		77.94	
0.928	400.00	2934.12		
0.956	400.00		77.82	
0.959	400.00	2938.70		
0.990	400.00		77.74	SPSI 1600
0.993	400.00	2943.72		
1.024	600.00		77.60	
1.026	600.00	2964.36		
1.059	600.00		77.42	
1.057	600.00	2978.85		
1.090	600.00		77.25	
1.093	600.00	2986.63		
1.121	600.00		77.11	
1.124	600.00	2991.62		
1.157	600.00		76.94	
1.155	600.00	2993.45		
1.188	600.00		76.80	
1.191	600.00	2998.57		
1.224	600.00		76.64	
1.222	600.00	3003.38		
1.255	600.00		76.52	
1.257	600.00	3008.14		
1.290	600.00		76.39	
1.288	600.00	3011.84		
1.321	600.00		76.31	
1.324	600.00	3015.87		
1.353	600.00		76.24	
1.355	600.00	3021.56		
1.388	600.00		76.16	
1.386	600.00	3025.57		
1.419	600.00		76.11	
1.422	600.00	3030.74		
1.455	600.00		76.06	
1.453	600.00	3030.23		
1.486	600.00		76.02	SPSI 1700
1.488	600.00	3034.67		
1.519	800.00		76.00	
1.522	800.00	3059.77		
1.550	800.00		75.95	
1.553	800.00	3077.91		
1.586	800.00		75.88	
1.584	800.00	3096.71		
1.617	800.00		75.82	
1.619	800.00	3108.37		

PAGE START DATE: 8/12/99
PAGE START TIME: 12:12:16
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.653	800.00		75.73	
1.651	800.00	3106.70		
1.685	800.00		75.70	
1.683	800.00	3108.02		
1.716	800.00		75.69	
1.719	800.00	3118.14		
1.752	800.00		75.71	
1.750	800.00	3126.44		
1.783	800.00		75.75	
1.786	800.00	3124.92		
1.814	800.00		75.81	
1.817	800.00	3128.10		
1.850	800.00		75.90	
1.848	800.00	3135.77		
1.881	800.00		75.98	
1.883	800.00	3127.69		
1.916	800.00		76.08	
1.914	800.00	3129.82		
1.948	800.00		76.19	
1.950	800.00	3134.32		
1.982	800.00		76.31	SPSI 1820
1.980	800.00	3136.28		
2.013	1000.00		76.41	
2.016	1000.00	3154.35		
2.049	1000.00		76.53	
2.047	1000.00	3195.69		
2.080	1000.00		76.64	
2.083	1000.00	3233.62		
2.111	1000.00		76.75	
2.114	1000.00	3237.16		
2.147	1000.00		76.88	
2.145	1000.00	3241.32		
2.178	1000.00		77.01	
2.180	1000.00	3248.89		
2.213	1000.00		77.17	
2.211	1000.00	3250.98		
2.244	1000.00		77.32	
2.247	1000.00	3250.42		
2.280	1000.00		77.49	
2.278	1000.00	3252.30		
2.311	1000.00		77.64	
2.314	1000.00	3253.21		
2.342	1000.00		77.78	
2.345	1000.00	3256.44		
2.378	1000.00		77.94	
2.376	1000.00	3255.28		
2.409	1000.00		78.07	
2.411	1000.00	3253.82		
2.444	1000.00		78.22	
2.443	1000.00	3254.25		

PAGE START DATE: 8/12/99
PAGE START TIME: 13: 1:33
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.475	1000.00		78.34	SPSI 1920
2.477	1000.00	3253.24		
2.509	1200.00		78.47	
2.511	1200.00	3243.45		
2.544	1200.00		78.58	
2.542	1200.00	3296.63		
2.575	1200.00		78.72	
2.578	1200.00	3283.56		
2.606	1200.00		78.83	
2.609	1200.00	3286.87		
2.642	1200.00		78.99	
2.640	1200.00	3295.71		
2.673	1200.00		79.16	
2.676	1200.00	3298.15		
2.709	1200.00		79.36	
2.707	1200.00	3296.70		
2.740	1200.00		79.53	
2.742	1200.00	3298.28		
2.775	1200.00		79.72	
2.773	1200.00	3301.38		
2.806	1200.00		79.89	
2.809	1200.00	3302.36		
2.838	1200.00		80.05	
2.840	1200.00	3297.65		
2.873	1200.00		80.22	
2.871	1200.00	3295.43		
2.904	1200.00		80.36	
2.907	1200.00	3294.04		
2.940	1200.00		80.51	
2.938	1200.00	3296.61		
2.970	1200.00		80.63	SPSI 2040
2.973	1200.00	3298.79		
3.005	1400.00		80.75	
3.003	1400.00	3310.88		
3.036	1400.00		80.93	
3.039	1400.00	3328.78		
3.072	1400.00		81.10	
3.070	1400.00	3337.25		
3.103	1400.00		81.28	
3.105	1400.00	3327.16		
3.138	1400.00		81.49	
3.136	1400.00	3329.09		
3.169	1400.00		81.66	
3.168	1400.00	3324.45		
3.201	1400.00		81.83	
3.203	1400.00	3330.13		
3.236	1400.00		82.01	
3.234	1400.00	3333.19		
3.267	1400.00		82.15	
3.270	1400.00	3334.66		

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PAGE START TIME: 13:51: 1
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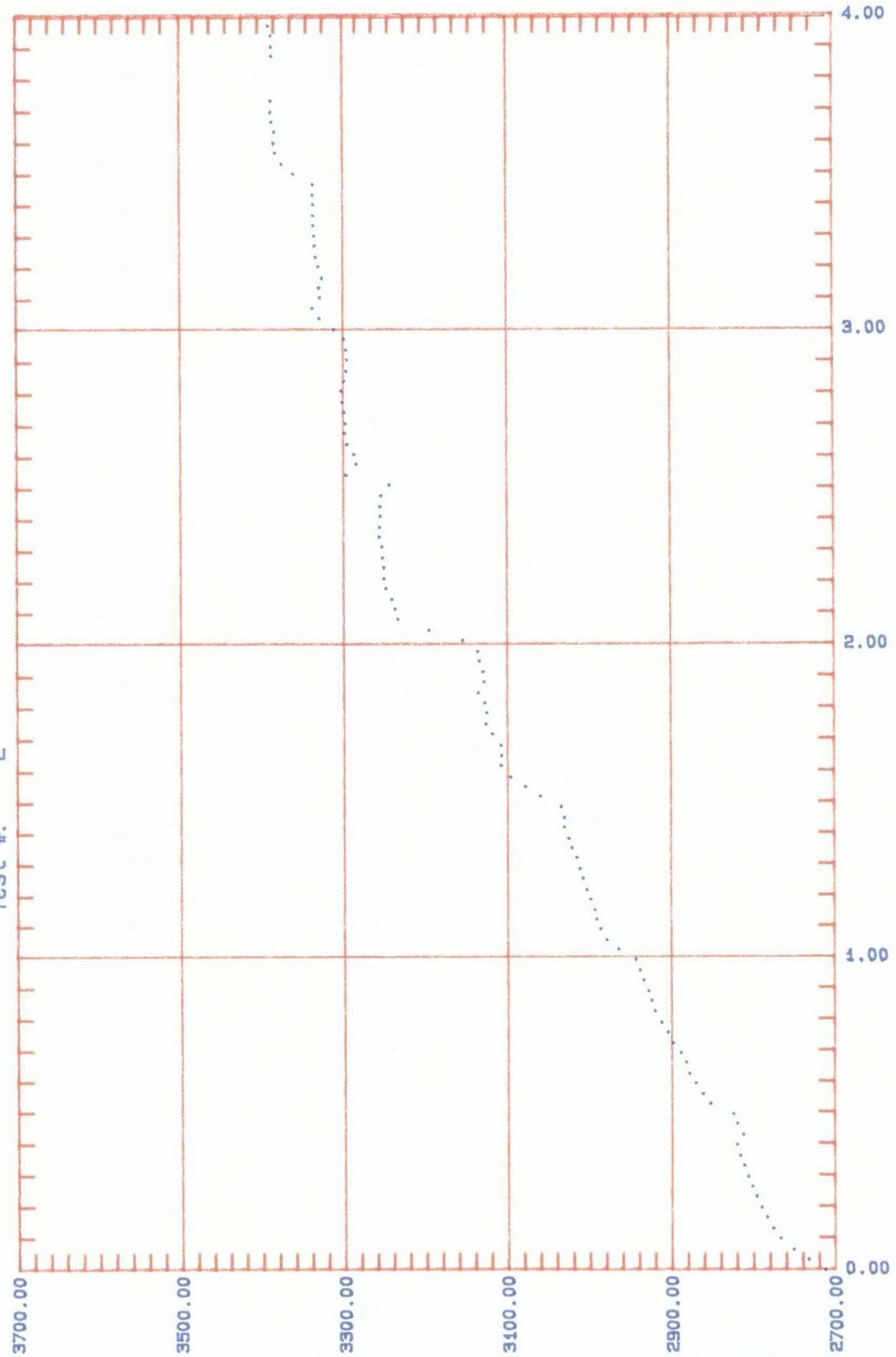
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.299	1400.00		82.28	
3.302	1400.00	3335.29		
3.332	1400.00		82.40	
3.335	1400.00	3336.40		
3.368	1400.00		82.52	
3.366	1400.00	3336.37		
3.399	1400.00		82.62	
3.401	1400.00	3335.69		
3.434	1400.00		82.73	
3.433	1400.00	3336.39		
3.468	1400.00		82.82	SPSI 2110
3.466	1400.00	3336.36		
3.498	1600.00		82.88	
3.501	1600.00	3360.02		
3.534	1600.00		83.04	
3.532	1600.00	3374.64		
3.565	1600.00		83.18	
3.567	1600.00	3382.33		
3.600	1600.00		83.37	
3.598	1600.00	3384.23		
3.631	1600.00		83.52	
3.634	1600.00	3382.55		
3.663	1600.00		83.64	
3.665	1600.00	3386.87		
3.698	1600.00		83.78	
3.696	1600.00	3387.97		
3.729	1600.00		83.90	
3.732	1600.00	3387.14		
3.870	1600.00		84.22	
3.873	1600.00	3385.90		
3.904	1600.00		84.28	
3.903	1600.00	3386.75		
3.936	1600.00		84.35	
3.938	1600.00	3387.67		
3.971	1600.00		84.44	
3.969	1600.00	3390.66		
4.002	1600.00		84.51	
4.005	1600.00	3391.96		

Plot starting date: 8/12/99
time: 10:33: 4
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #6
Well #: 2
Test #: 2

Location: KEEL FIELD
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3060'



PRESSURE - PSIA

DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV.
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #6
WELL NUMBER: 2
TEST NUMBER: 2
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GUAGE SET @ 3060'

POSITION	GAUGE SERIAL NUMBER
----------	---------------------

1	
2	
3	
4	

PAGE START DATE: 8/12/99
PAGE START TIME: 10:33: 0
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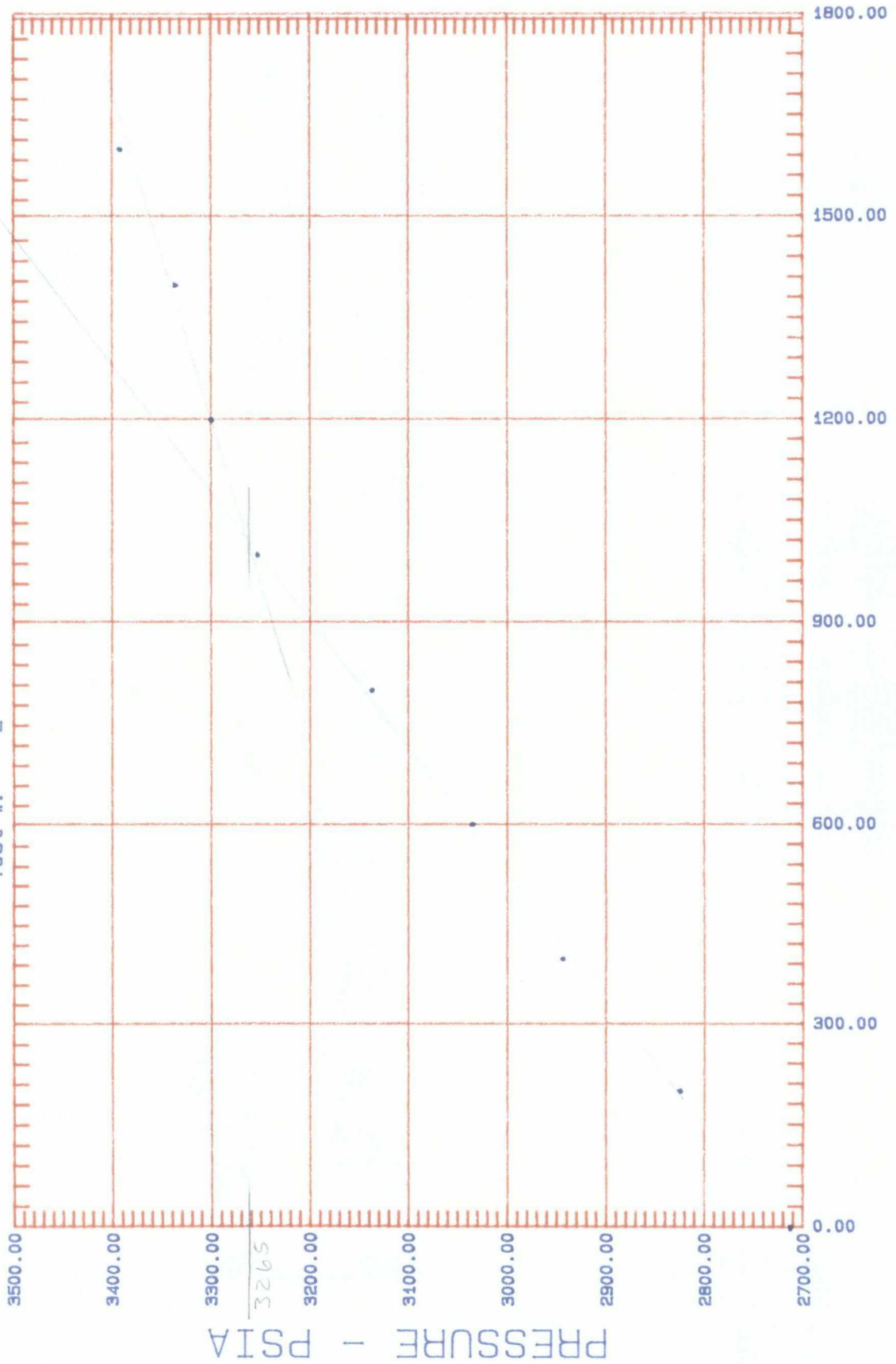
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DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	2712.95		
0.500	200.00	2825.04		
1.000	400.00	2943.72		
1.500	600.00	3034.67		
2.000	800.00	3136.28		
2.500	1000.00	3253.24		
3.000	1200.00	3298.79		
3.500	1400.00	3336.36		
4.000	1600.00	3391.96		

Plot starting date: 8/12/99
time: 10:33: 0

Company: LIGHTFOOT WIRELINE SERV. Location: GRAYBURG--JACKSON
Client: DEVON ENERGY Operator: D. GRYDER
Well name: J.L. KEEL "A" #6 Comments: STEP-RATE TEST BHP/RATE
Well #: 2 GUAGE SET @ 3060'
Test #: 2

Gauge S/N



FLOW RATE - BBLs/DAY

COMPANY: LIGHTFOOT WIRELINE SERV.
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #6
WELL NUMBER: 2
TEST NUMBER: 2
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

POSITION	GAUGE SERIAL NUMBER
1	
2	
3	
4	

PAGE START DATE: 8/12/99
PAGE START TIME: 10:33: 0
DATA FILE: 12

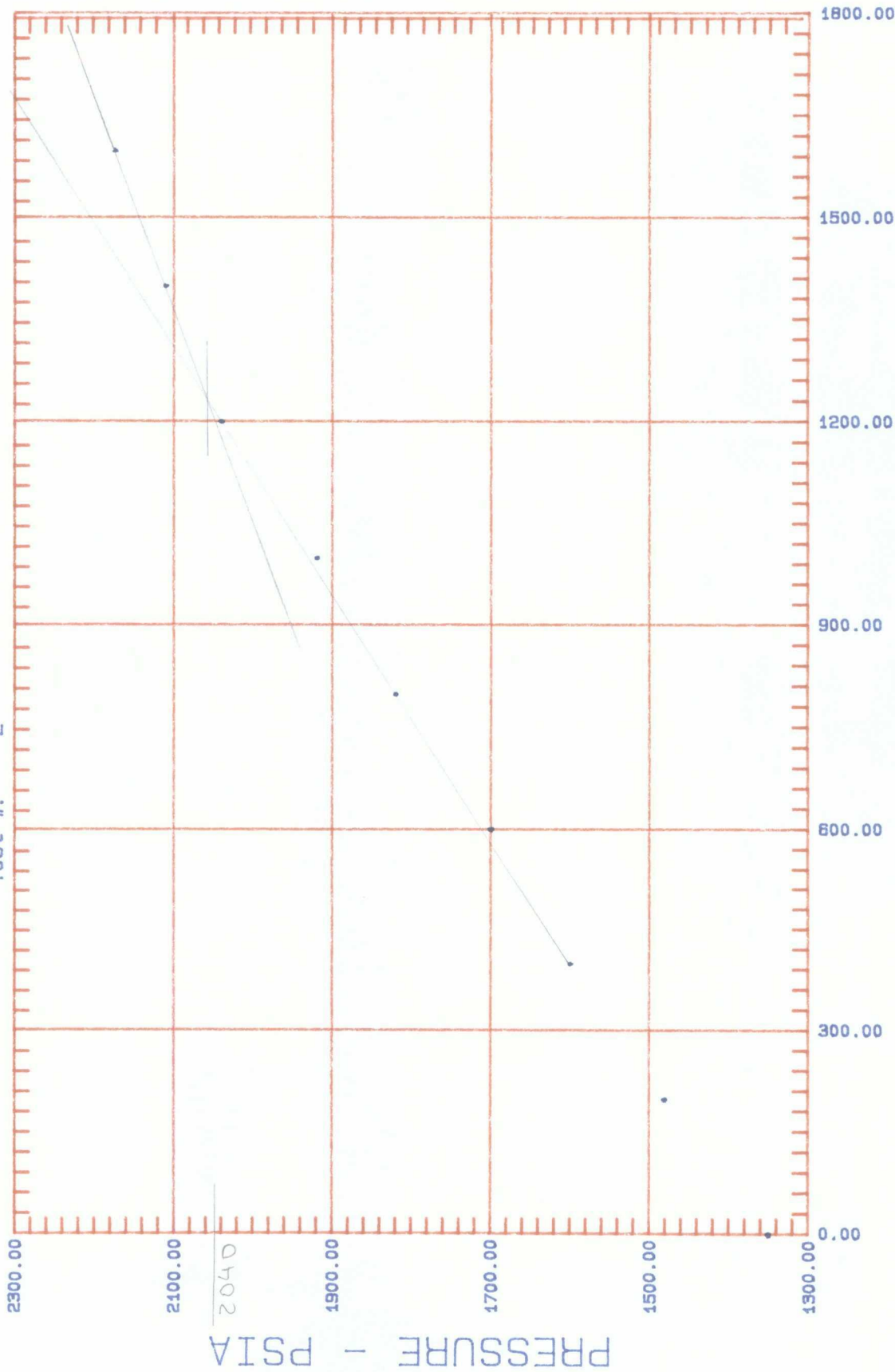
GAUGE S/N:

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1350.00		
0.500	200.00	1480.00		
1.000	400.00	1600.00		
1.500	600.00	1700.00		
2.000	800.00	1820.00		
2.500	1000.00	1920.00		
3.000	1200.00	2040.00		
3.500	1400.00	2110.00		
4.000	1600.00	2175.00		

Plot starting date: 8/12/99
time: 10:33: 0

Company: LIGHTFOOT WIRELINE SERV. Location: GRAYBURG--JACKSON
Client: DEVON ENERGY Operator: D. GRYDER
Well name: J.L. KEEL "A" #6 Comments: STEP-RATE TEST SURF/RATE
Well #: 2 GUAGE SET @ SURFACE
Test #: 2

Gauge S/N



FLOW RATE - BBLs/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #12
WELL NUMBER: 7
TEST NUMBER: 7
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3207'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/20/99
PAGE START TIME: 10:43: 7
DATA FILE: 5

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	70.00		79.74	SPSI 1720
0.002	70.00	3246.65		
0.034	270.00		79.74	
0.037	270.00	3262.19		
0.070	270.00		79.69	
0.068	270.00	3280.78		
0.101	270.00		79.63	
0.103	270.00	3296.77		
0.132	270.00		79.54	
0.134	270.00	3308.00		
0.167	270.00		79.44	
0.166	270.00	3317.64		
0.199	270.00		79.35	
0.201	270.00	3326.86		
0.234	270.00		79.24	
0.232	270.00	3333.58		
0.265	270.00		79.17	
0.268	270.00	3340.15		
0.301	270.00		79.08	
0.299	270.00	3345.21		
0.332	270.00		78.98	
0.334	270.00	3350.32		
0.363	270.00		78.91	
0.366	270.00	3354.32		
0.399	270.00		78.86	
0.397	270.00	3358.08		
0.430	270.00		78.82	
0.432	270.00	3362.03		
0.465	270.00		78.78	
0.463	270.00	3365.26		
0.496	270.00		78.76	
0.497	270.00	3368.54		
0.532	470.00		78.74	SPSI 1975
0.530	470.00	3379.76		
0.563	470.00		78.66	
0.566	470.00	3387.11		
0.594	470.00		78.57	
0.597	470.00	3400.90		
0.630	470.00		78.52	
0.628	470.00	3402.03		
0.661	470.00		78.46	
0.663	470.00	3402.81		
0.696	470.00		78.41	
0.694	470.00	3403.44		
0.728	470.00		78.38	
0.730	470.00	3403.07		
0.763	470.00		78.36	
0.761	470.00	3404.26		
0.794	470.00		78.34	
0.797	470.00	3406.26		

PAGE START DATE: 8/20/99
PAGE START TIME: 11:32:40
DATA FILE: 5

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.826	470.00		78.29	
0.828	470.00	3409.06		
0.859	470.00		78.25	
0.861	470.00	3411.23		
0.894	470.00		78.18	
0.892	470.00	3413.08		
0.925	470.00		78.09	
0.928	470.00	3414.57		
0.961	470.00		78.02	
0.959	470.00	3415.56		
0.993	470.00		77.98	SPSI 2025
0.991	470.00	3416.26		
1.027	670.00		77.92	
1.025	670.00	3422.84		
1.058	670.00		77.80	
1.060	670.00	3430.56		
1.089	670.00		77.68	
1.091	670.00	3434.61		
1.124	670.00		77.53	
1.123	670.00	3437.20		
1.156	670.00		77.42	
1.158	670.00	3439.14		
1.191	670.00		77.32	
1.189	670.00	3440.28		
1.222	670.00		77.24	
1.225	670.00	3441.10		
1.258	670.00		77.16	
1.256	670.00	3441.55		
1.289	670.00		77.09	
1.291	670.00	3441.90		
1.320	670.00		77.02	
1.323	670.00	3442.20		
1.356	670.00		76.96	
1.354	670.00	3442.40		
1.387	670.00		76.90	
1.389	670.00	3442.70		
1.422	670.00		76.84	
1.420	670.00	3442.74		
1.453	670.00		76.80	
1.456	670.00	3442.96		
1.488	670.00		76.74	SPSI 2050
1.486	670.00	3443.08		
1.518	870.00		76.69	
1.521	870.00	3448.75		
1.554	870.00		76.58	
1.552	870.00	3455.23		
1.585	870.00		76.50	
1.588	870.00	3458.66		
1.621	870.00		76.43	
1.619	870.00	3460.62		

PAGE START DATE: 8/20/99
PAGE START TIME: 12:22:13
DATA FILE: 5

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.652	870.00		76.38	
1.654	870.00	3462.50		
1.684	870.00		76.36	
1.687	870.00	3463.06		
1.720	870.00		76.33	
1.718	870.00	3463.50		
1.751	870.00		76.33	
1.754	870.00	3463.99		
1.782	870.00		76.32	
1.785	870.00	3463.65		
1.818	870.00		76.30	
1.816	870.00	3464.06		
1.849	870.00		76.31	
1.851	870.00	3464.33		
1.884	870.00		76.31	
1.882	870.00	3464.12		
1.916	870.00		76.33	
1.918	870.00	3464.56		
1.951	870.00		76.34	
1.949	870.00	3463.91		
1.982	870.00		76.37	
1.985	870.00	3463.02		
2.017	1070.00		76.41	SPSI 2075
2.015	1070.00	3461.07		
2.048	1070.00		76.43	
2.051	1070.00	3472.37		
2.079	1070.00		76.48	
2.082	1070.00	3476.15		
2.115	1070.00		76.53	
2.113	1070.00	3478.31		
2.146	1070.00		76.56	
2.148	1070.00	3479.48		
2.181	1070.00		76.62	
2.179	1070.00	3480.11		
2.212	1070.00		76.68	
2.215	1070.00	3480.50		
2.248	1070.00		76.76	
2.246	1070.00	3480.69		
2.279	1070.00		76.82	
2.282	1070.00	3480.57		
2.310	1070.00		76.89	
2.313	1070.00	3480.44		
2.346	1070.00		76.99	
2.344	1070.00	3480.43		
2.377	1070.00		77.07	
2.379	1070.00	3480.48		
2.412	1070.00		77.17	
2.411	1070.00	3480.49		
2.444	1070.00		77.27	
2.446	1070.00	3480.47		

PAGE START DATE: 8/20/99
PAGE START TIME: 13:11:38
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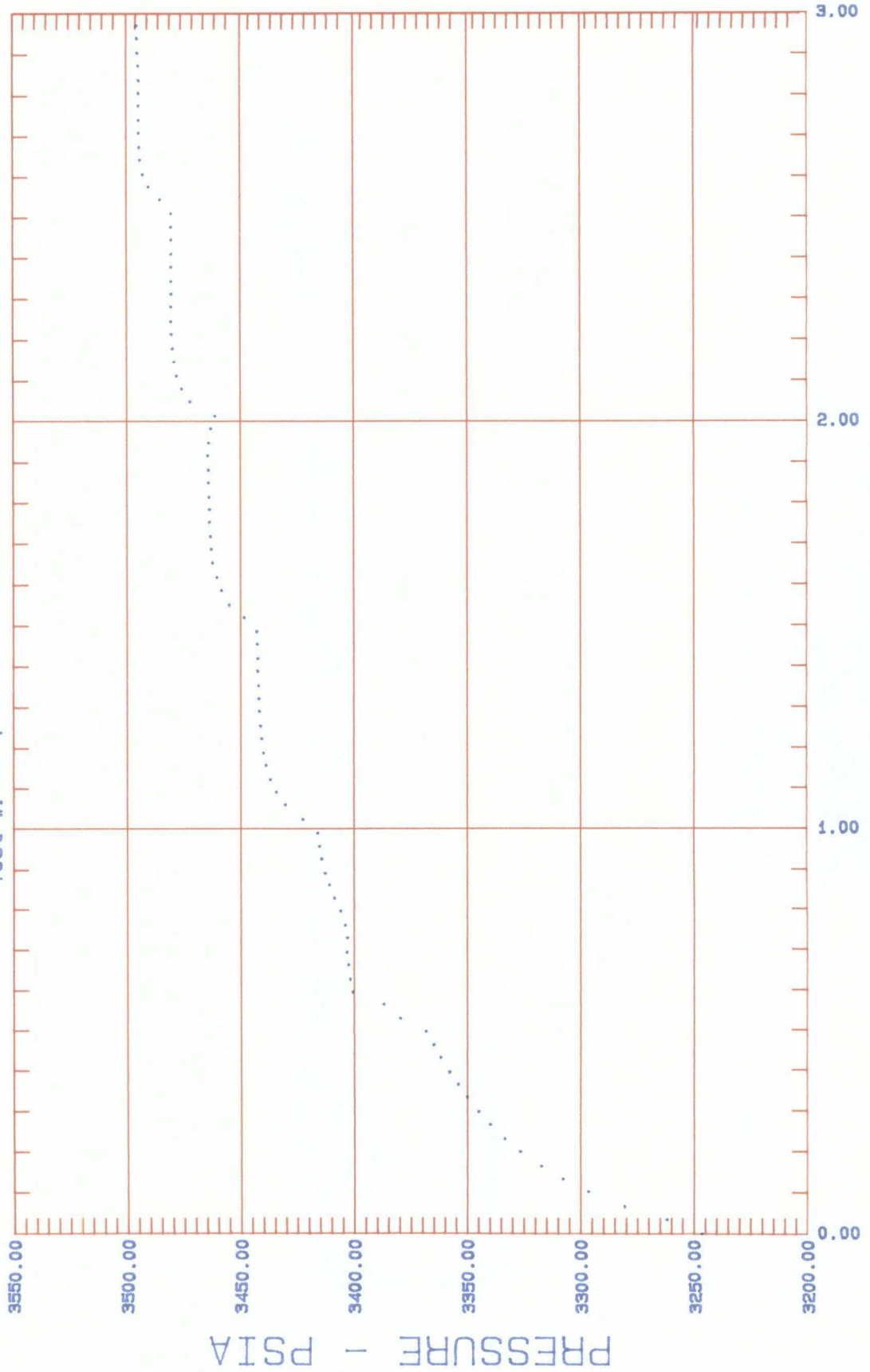
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.475	1070.00		77.36	
2.478	1070.00	3480.41		
2.508	1270.00		77.45	
2.511	1270.00	3480.42		
2.543	1270.00		77.56	SPSI 2100
2.545	1270.00	3485.55		
2.574	1270.00		77.66	
2.576	1270.00	3490.57		
2.609	1270.00		77.77	
2.607	1270.00	3493.05		
2.641	1270.00		77.88	
2.643	1270.00	3494.29		
2.676	1270.00		78.01	
2.674	1270.00	3494.60		
2.707	1270.00		78.10	
2.710	1270.00	3494.81		
2.743	1270.00		78.24	
2.741	1270.00	3494.78		
2.774	1270.00		78.37	
2.776	1270.00	3494.86		
2.805	1270.00		78.50	
2.807	1270.00	3494.75		
2.841	1270.00		78.64	
2.839	1270.00	3494.73		
2.872	1270.00		78.77	
2.874	1270.00	3494.91		
2.907	1270.00		78.93	
2.905	1270.00	3495.29		
2.938	1270.00		79.03	
2.941	1270.00	3495.42		
2.974	1270.00		79.18	SPSI 2125
2.972	1270.00	3495.52		

Plot starting date: 8/20/99
time: 10:43: 7
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "A" #12
Well #: 7
Test #: 7

Location: GRAYBURG--JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3207'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #12
WELL NUMBER: 7
TEST NUMBER: 7
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3207'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/20/99
PAGE START TIME: 10:43: 0
DATA FILE: 6

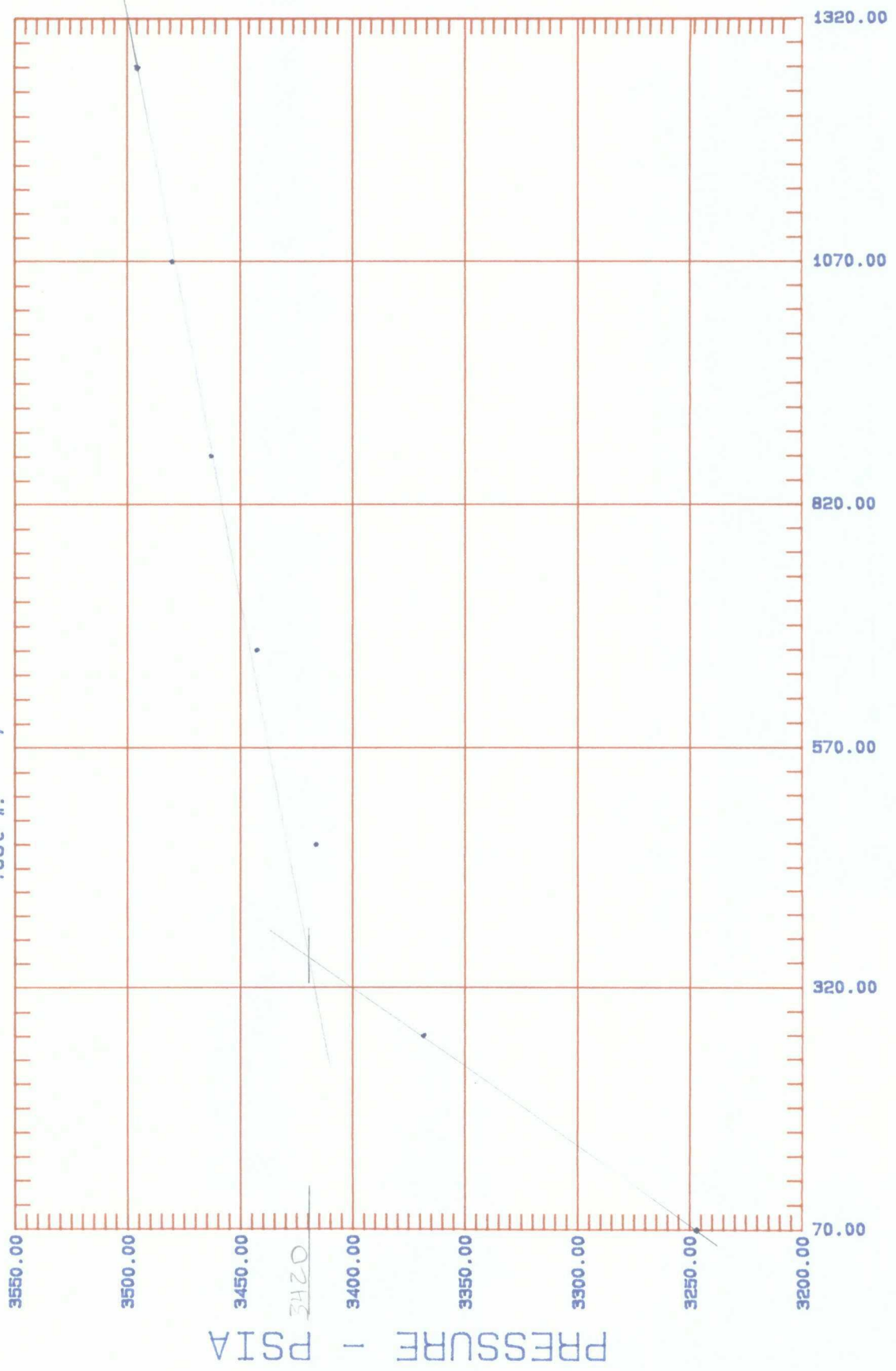
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	70.00	3246.65		
0.500	270.00	3368.54		
1.000	470.00	3416.26		
1.500	670.00	3443.08		
2.000	870.00	3463.02		
2.500	1070.00	3480.41		
3.000	1270.00	3495.52		

Plot starting date: 8/20/99
 time: 10:43: 0
 Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "A" #12
 Well #: 7
 Test #: 7

Location: GRAYBURG-JACKSON
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 3207'



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #12
WELL NUMBER: 7
TEST NUMBER: 7
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

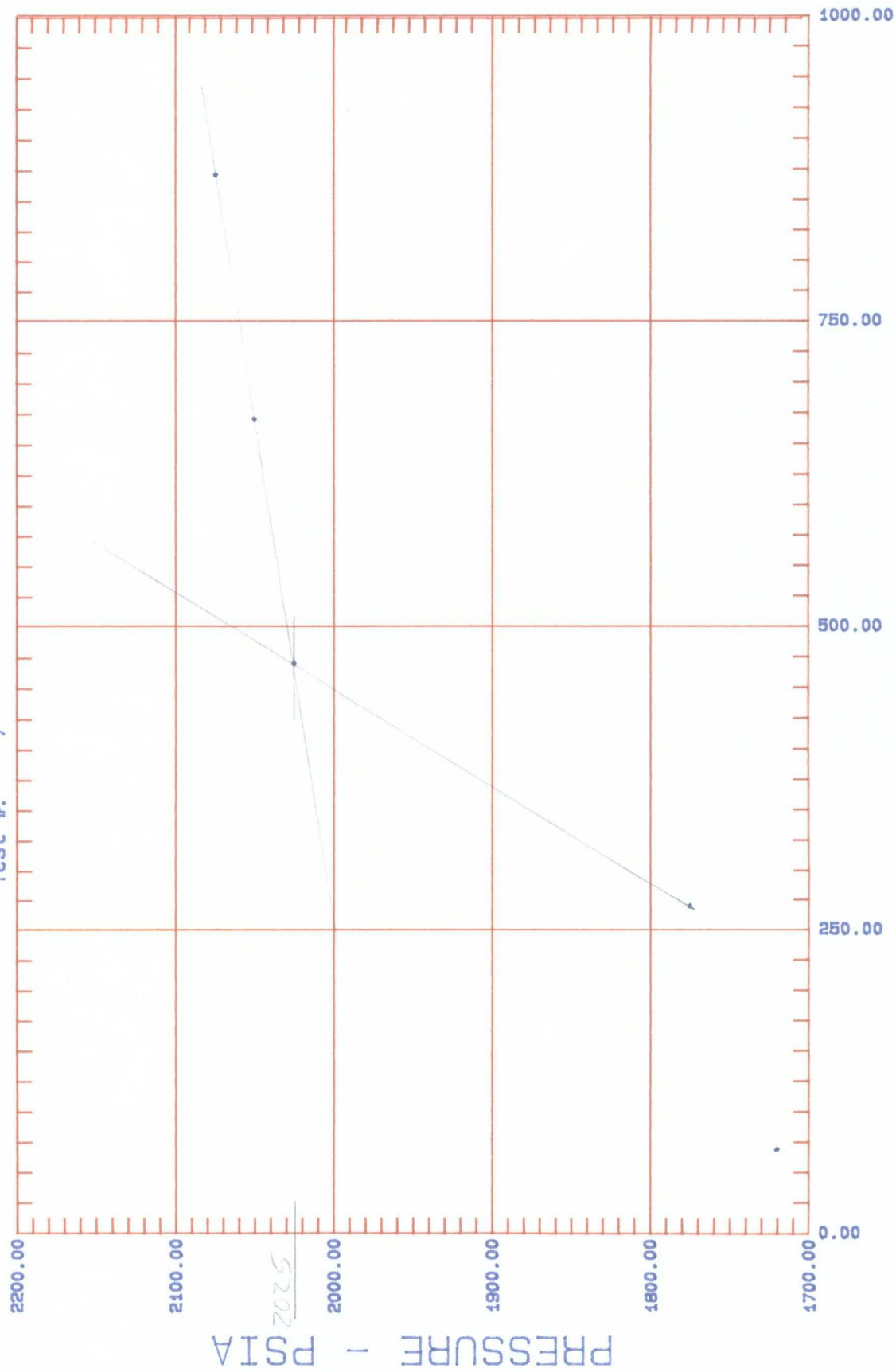
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PAGE START TIME: 10:43: 0
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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	70.00	1720.00		
0.500	270.00	1775.00		
1.000	470.00	2025.00		
1.500	670.00	2050.00		
2.000	870.00	2075.00		
2.500	1070.00	2100.00		
3.000	1270.00	2125.00		

Plot starting date: 8/20/99
time: 10:43:00
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "A" #12
Well #: 7
Test #: 7
Location: GRAYBURG-JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #15
WELL NUMBER: 3
TEST NUMBER: 3
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3182'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/15/99
PAGE START TIME: 13:39:20
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		81.99	SPSI 1650
-0.002	0.00	3038.04		
0.032	200.00		82.01	
0.030	200.00	3037.87		
0.063	200.00		82.02	
0.066	200.00	3037.84		
0.099	200.00		82.03	
0.097	200.00	3043.33		
0.130	200.00		82.04	
0.132	200.00	3048.55		
0.166	200.00		82.06	
0.164	200.00	3050.05		
0.197	200.00		82.06	
0.195	200.00	3051.88		
0.228	200.00		82.07	
0.230	200.00	3053.75		
0.263	200.00		82.08	
0.261	200.00	3055.17		
0.294	200.00		82.08	
0.297	200.00	3056.66		
0.330	200.00		82.08	
0.328	200.00	3057.83		
0.361	200.00		82.08	
0.364	200.00	3058.55		
0.392	200.00		82.08	
0.395	200.00	3058.88		
0.428	200.00		82.08	
0.426	200.00	3059.44		
0.459	200.00		82.08	
0.461	200.00	3060.16		
0.494	200.00		82.08	SPSI 1675
0.496	200.00	3060.86		
0.524	400.00		82.08	
0.527	400.00	3061.46		
0.560	400.00		82.08	
0.558	400.00	3062.18		
0.591	400.00		82.08	
0.594	400.00	3062.98		
0.627	400.00		82.08	
0.625	400.00	3063.64		
0.658	400.00		82.08	
0.660	400.00	3064.38		
0.693	400.00		82.09	
0.691	400.00	3065.00		
0.724	400.00		82.09	
0.727	400.00	3065.69		
0.756	400.00		82.09	
0.758	400.00	3066.25		
0.791	400.00		82.09	
0.789	400.00	3066.81		

PAGE START DATE: 8/15/99
PAGE START TIME: 14:28:40
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.822	400.00		82.09	
0.825	400.00	3067.43		
0.855	400.00		82.09	
0.858	400.00	3068.00		
0.891	400.00		82.08	
0.889	400.00	3068.51		
0.922	400.00		82.08	
0.924	400.00	3069.08		
0.958	400.00		82.09	
0.956	400.00	3069.58		
0.989	400.00		82.09	
0.991	400.00	3070.92		
1.020	400.00		82.09	
1.022	400.00	3070.97		
1.054	600.00		82.09	
1.057	600.00	3074.72		
1.085	600.00		82.09	
1.088	600.00	3077.65		
1.121	600.00		82.09	
1.119	600.00	3079.47		
1.152	600.00		82.10	
1.154	600.00	3081.44		
1.188	600.00		82.11	
1.186	600.00	3083.12		
1.219	600.00		82.11	
1.221	600.00	3084.41		
1.254	600.00		82.09	
1.252	600.00	3085.35		
1.285	600.00		82.09	
1.288	600.00	3086.62		
1.316	600.00		82.08	
1.319	600.00	3087.83		
1.352	600.00		82.08	
1.350	600.00	3088.84		
1.383	600.00		82.08	
1.386	600.00	3089.95		
1.419	600.00		82.07	
1.417	600.00	3090.37		
1.450	600.00		82.07	
1.452	600.00	3091.55		
1.486	600.00		82.07	SPSI 1710
1.484	600.00	3092.92		
1.515	800.00		82.07	
1.518	800.00	3095.53		
1.551	800.00		82.07	
1.549	800.00	3097.74		
1.582	800.00		82.07	
1.584	800.00	3099.97		
1.618	800.00		82.07	
1.616	800.00	3101.61		

PAGE START DATE: 8/15/99
PAGE START TIME: 15:18:15
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.649	800.00		82.07	
1.651	800.00	3103.23		
1.682	800.00		82.07	
1.680	800.00	3104.50		
1.713	800.00		82.08	
1.715	800.00	3105.17		
1.748	800.00		82.07	
1.746	800.00	3106.03		
1.779	800.00		82.07	
1.782	800.00	3106.87		
1.815	800.00		82.07	
1.813	800.00	3107.66		
1.846	800.00		82.07	
1.849	800.00	3108.60		
1.877	800.00		82.07	
1.880	800.00	3109.43		
1.913	800.00		82.07	
1.911	800.00	3110.24		
1.944	800.00		82.07	
1.946	800.00	3111.21		
1.979	800.00		82.07	SPSI 1735
1.977	800.00	3111.97		
2.013	1000.00		82.07	
2.011	1000.00	3111.56		
2.044	1000.00		82.07	
2.047	1000.00	3115.20		
2.076	1000.00		82.07	
2.078	1000.00	3117.49		
2.111	1000.00		82.07	
2.109	1000.00	3119.12		
2.142	1000.00		82.07	
2.145	1000.00	3120.62		
2.178	1000.00		82.08	
2.176	1000.00	3121.88		
2.209	1000.00		82.07	
2.211	1000.00	3123.20		
2.244	1000.00		82.07	
2.242	1000.00	3124.28		
2.276	1000.00		82.07	
2.278	1000.00	3125.37		
2.307	1000.00		82.07	
2.309	1000.00	3126.43		
2.342	1000.00		82.07	
2.340	1000.00	3127.30		
2.373	1000.00		82.07	
2.376	1000.00	3128.01		
2.409	1000.00		82.07	
2.407	1000.00	3128.66		
2.440	1000.00		82.07	
2.442	1000.00	3129.76		

PAGE START DATE: 8/15/99
PAGE START TIME: 16: 7:38
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.472	1000.00		82.07	
2.474	1000.00	3130.72		
2.505	1200.00		82.08	SPSI 1765
2.507	1200.00	3133.08		
2.540	1200.00		82.07	
2.538	1200.00	3135.05		
2.571	1200.00		82.07	
2.574	1200.00	3135.91		
2.607	1200.00		82.07	
2.605	1200.00	3137.03		
2.637	1200.00		82.07	
2.640	1200.00	3138.27		
2.673	1200.00		82.06	
2.671	1200.00	3139.51		
2.704	1200.00		82.06	
2.707	1200.00	3140.36		
2.735	1200.00		82.05	
2.738	1200.00	3141.00		
2.771	1200.00		82.05	
2.769	1200.00	3142.05		
2.802	1200.00		82.05	
2.804	1200.00	3143.40		
2.837	1200.00		82.05	
2.836	1200.00	3144.31		
2.869	1200.00		82.05	
2.871	1200.00	3145.44		
2.904	1200.00		82.05	
2.902	1200.00	3146.64		
2.935	1200.00		82.05	
2.938	1200.00	3147.53		
2.966	1200.00		82.05	
2.969	1200.00	3148.16		
3.002	1600.00		82.05	SPSI 1800
3.000	1600.00	3150.68		
3.033	1600.00		82.05	
3.036	1600.00	3154.99		
3.069	1600.00		82.05	
3.067	1600.00	3157.33		
3.100	1600.00		82.05	
3.102	1600.00	3159.79		
3.135	1600.00		82.04	
3.133	1600.00	3161.47		
3.166	1600.00		82.04	
3.169	1600.00	3163.24		
3.198	1600.00		82.04	
3.200	1600.00	3164.59		
3.233	1600.00		82.04	
3.231	1600.00	3165.92		
3.264	1600.00		82.03	
3.267	1600.00	3167.36		

PAGE START DATE: 8/15/99
PAGE START TIME: 16:57:21
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.300	1600.00		82.03	
3.298	1600.00	3168.52		
3.332	1600.00		82.03	
3.330	1600.00	3169.77		
3.363	1600.00		82.03	
3.366	1600.00	3170.96		
3.399	1600.00		82.02	
3.397	1600.00	3172.01		
3.430	1600.00		82.02	
3.432	1600.00	3173.01		
3.466	1600.00		82.02	
3.464	1600.00	3174.03		
3.496	2000.00		82.03	SPSI 1850
3.498	2000.00	3173.90		
3.531	2000.00		82.02	
3.529	2000.00	3174.15		
3.562	2000.00		82.02	
3.565	2000.00	3177.79		
3.593	2000.00		82.02	
3.596	2000.00	3181.03		
3.629	2000.00		82.02	
3.627	2000.00	3183.25		
3.660	2000.00		82.01	
3.662	2000.00	3185.24		
3.696	2000.00		82.01	
3.694	2000.00	3186.79		
3.727	2000.00		82.01	
3.729	2000.00	3188.25		
3.762	2000.00		82.01	
3.760	2000.00	3189.98		
3.793	2000.00		82.02	
3.796	2000.00	3191.58		
3.824	2000.00		82.01	
3.827	2000.00	3192.49		
3.860	2000.00		82.01	
3.858	2000.00	3193.01		
3.891	2000.00		82.01	
3.894	2000.00	3194.90		
3.927	2000.00		82.01	
3.925	2000.00	3196.17		
3.958	2000.00		82.01	
3.960	2000.00	3197.65		
3.992	2400.00		82.00	SPSI 1875
3.990	2400.00	3198.82		
4.023	2400.00		81.99	
4.026	2400.00	3201.82		
4.059	2400.00		82.00	
4.057	2400.00	3204.14		
4.090	2400.00		81.99	
4.092	2400.00	3206.45		

PAGE START DATE: 8/15/99
PAGE START TIME: 17:46:38
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.122	2400.00		81.99	
4.124	2400.00	3208.06		
4.155	2400.00		81.98	
4.157	2400.00	3209.61		
4.190	2400.00		81.98	
4.188	2400.00	3210.96		
4.221	2400.00		81.98	
4.224	2400.00	3212.36		
4.257	2400.00		81.97	
4.255	2400.00	3213.57		
4.288	2400.00		81.97	
4.291	2400.00	3215.01		
4.319	2400.00		81.97	
4.322	2400.00	3216.08		
4.355	2400.00		81.97	
4.353	2400.00	3217.29		
4.386	2400.00		81.97	
4.388	2400.00	3218.75		
4.421	2400.00		81.96	
4.419	2400.00	3219.71		
4.453	2400.00		81.96	
4.455	2400.00	3220.84		
4.488	2800.00		81.95	
4.486	2800.00	3222.31		
4.519	2800.00		81.96	
4.521	2800.00	3226.14		
4.554	2800.00		81.95	
4.553	2800.00	3228.12		
4.586	2800.00		81.95	
4.588	2800.00	3230.17		
4.617	2800.00		81.94	
4.619	2800.00	3231.64		
4.652	2800.00		81.94	
4.650	2800.00	3232.82		
4.683	2800.00		81.94	
4.686	2800.00	3234.28		
4.719	2800.00		81.94	
4.717	2800.00	3235.43		
4.750	2800.00		81.94	
4.753	2800.00	3236.61		
4.786	2800.00		81.93	
4.784	2800.00	3237.57		
4.817	2800.00		81.93	
4.815	2800.00	3238.57		
4.848	2800.00		81.93	
4.850	2800.00	3239.60		
4.883	2800.00		81.93	
4.881	2800.00	3240.53		
4.914	2800.00		81.92	
4.917	2800.00	3241.45		

PAGE START DATE: 8/15/99
PAGE START TIME: 18:36:10
DATA FILE: 1

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.947	2800.00		81.92	SPSI 1990
4.950	2800.00	3242.20		
4.980	3200.00		81.92	
4.983	3200.00	3245.32		
5.016	3200.00		81.92	
5.014	3200.00	3247.61		
5.047	3200.00		81.91	
5.049	3200.00	3249.66		
5.083	3200.00		81.91	
5.081	3200.00	3251.01		
5.114	3200.00		81.91	
5.116	3200.00	3252.70		
5.145	3200.00		81.90	
5.147	3200.00	3254.12		
5.180	3200.00		81.90	
5.178	3200.00	3255.53		
5.211	3200.00		81.90	
5.214	3200.00	3256.76		
5.247	3200.00		81.90	
5.245	3200.00	3257.81		
5.278	3200.00		81.90	
5.281	3200.00	3259.03		
5.309	3200.00		81.89	
5.312	3200.00	3260.06		
5.345	3200.00		81.89	
5.343	3200.00	3261.04		
5.376	3200.00		81.89	
5.378	3200.00	3262.04		
5.411	3200.00		81.88	
5.409	3200.00	3262.93		
5.445	3200.00		81.88	SPSI 2060
5.443	3200.00	3263.78		
5.475	3600.00		81.87	
5.478	3600.00	3265.45		
5.511	3600.00		81.87	
5.509	3600.00	3267.54		
5.542	3600.00		81.87	
5.544	3600.00	3269.46		
5.577	3600.00		81.87	
5.575	3600.00	3270.86		
5.608	3600.00		81.87	
5.611	3600.00	3272.18		
5.639	3600.00		81.87	
5.642	3600.00	3273.35		
5.675	3600.00		81.87	
5.673	3600.00	3274.38		
5.706	3600.00		81.87	
5.709	3600.00	3274.95		
5.742	3600.00		81.87	
5.740	3600.00	3275.76		

PAGE START DATE: 8/15/99
PAGE START TIME: 19:25:42
DATA FILE: 1

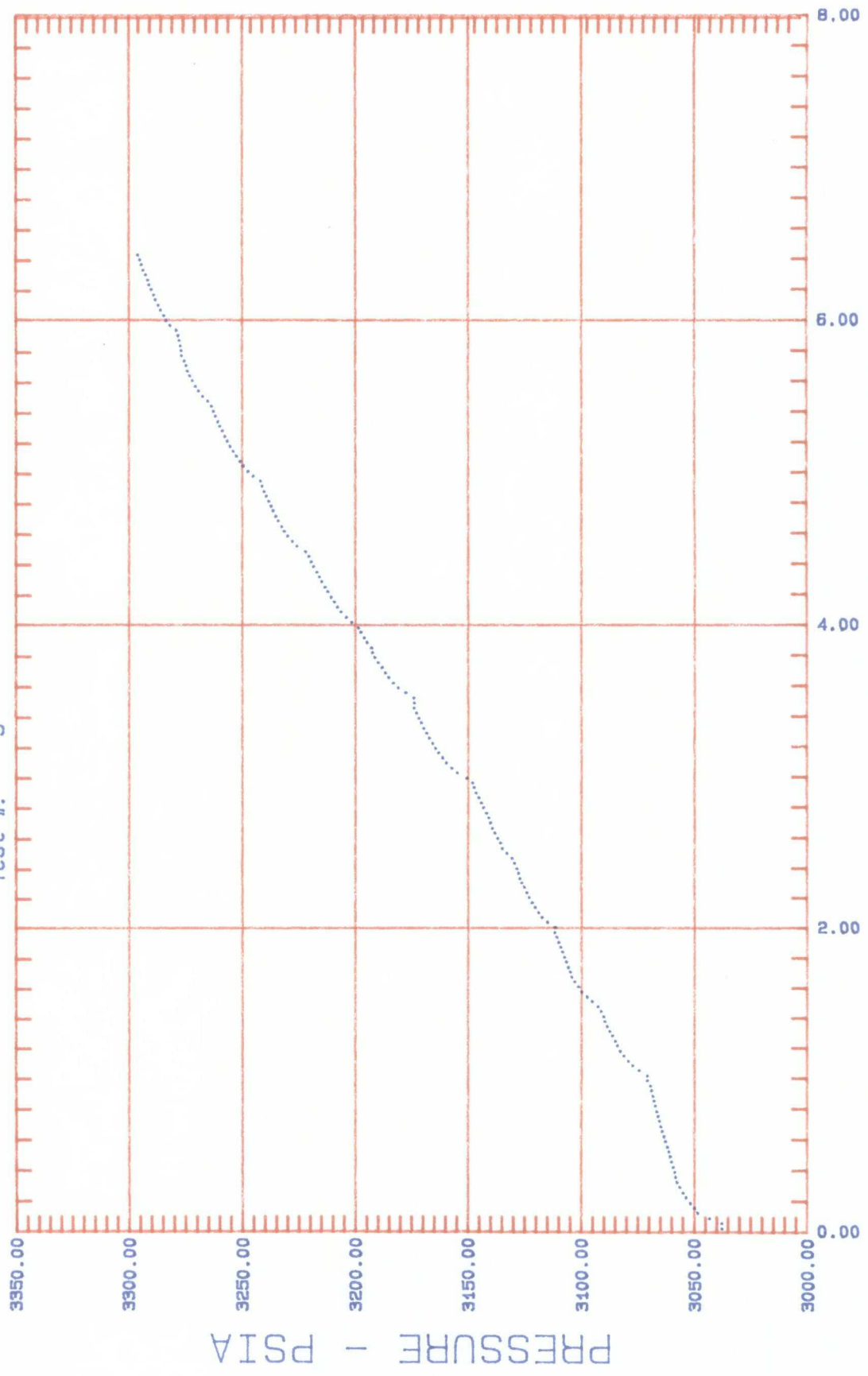
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
5.773	3600.00		81.87	
5.775	3600.00	3277.00		
5.806	3600.00		81.86	
5.808	3600.00	3277.15		
5.841	3600.00		81.86	
5.839	3600.00	3277.46		
5.873	3600.00		81.86	
5.875	3600.00	3278.05		
5.904	3600.00		81.86	
5.906	3600.00	3278.61		
5.938	3600.00		81.86	SPSI 2100
5.941	3600.00	3279.31		
5.971	4000.00		81.85	
5.974	4000.00	3282.12		
6.002	4000.00		81.85	
6.005	4000.00	3283.67		
6.038	4000.00		81.84	
6.036	4000.00	3284.82		
6.069	4000.00		81.84	
6.072	4000.00	3286.23		
6.105	4000.00		81.84	
6.103	4000.00	3287.21		
6.136	4000.00		81.83	
6.138	4000.00	3288.54		
6.171	4000.00		81.83	
6.169	4000.00	3289.31		
6.203	4000.00		81.82	
6.205	4000.00	3290.34		
6.234	4000.00		81.82	
6.236	4000.00	3291.40		
6.269	4000.00		81.82	
6.267	4000.00	3291.95		
6.300	4000.00		81.81	
6.303	4000.00	3292.83		
6.336	4000.00		81.82	
6.334	4000.00	3293.88		
6.367	4000.00		81.81	
6.369	4000.00	3294.60		
6.403	4000.00		81.81	
6.401	4000.00	3295.33		
6.434	4000.00		81.80	SPSI 2175
6.432	4000.00	3296.25		

Plot starting date: 8/15/99
time: 13:39:20
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #15
Well #: 3
Test #: 3

Location: KEEL FIELD
Operator: D. GRyder
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3182'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #15
WELL NUMBER: 3
TEST NUMBER: 3
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3182'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

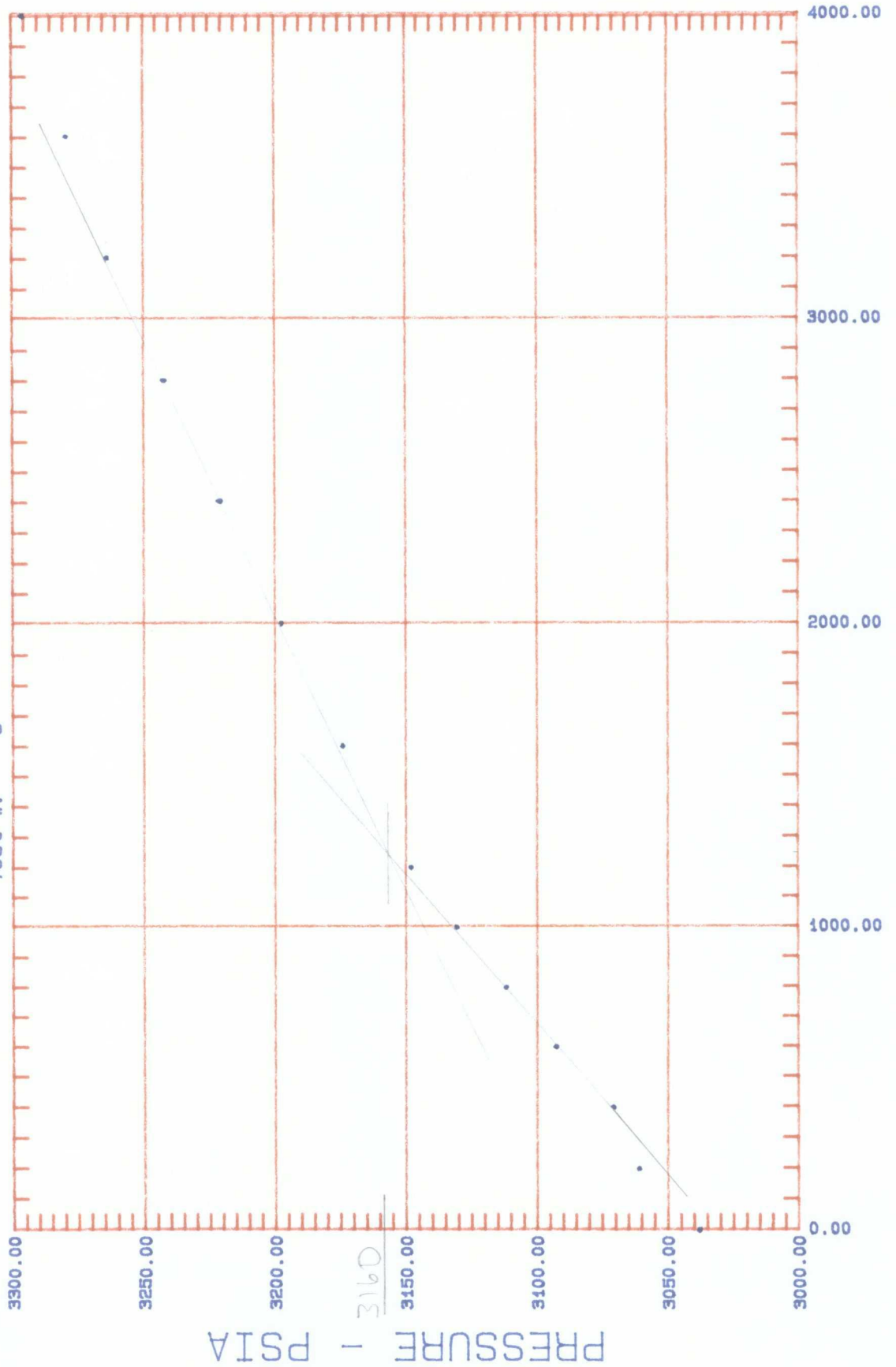
PAGE START DATE: 8/16/99
PAGE START TIME: 13:39: 0
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	3038.04		
0.500	200.00	3060.86		
1.000	400.00	3070.92		
1.500	600.00	3092.92		
2.000	800.00	3111.97		
2.500	1000.00	3130.72		
3.000	1200.00	3148.16		
3.500	1600.00	3174.03		
4.000	2000.00	3197.65		
4.500	2400.00	3220.84		
5.000	2800.00	3242.20		
5.500	3200.00	3263.78		
6.000	3600.00	3279.31		
6.500	4000.00	3296.25		

Plot starting date: 8/16/99
time: 13:39: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #15
Well #: 3
Test #: 3
Location: KEEL FIELD
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3182'



COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL A #15
WELL NUMBER: 3
TEST NUMBER: 3
LOCATION: KEEL FIELD
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: 8/16/99
PAGE START TIME: 13:39: 0
DATA FILE: 2

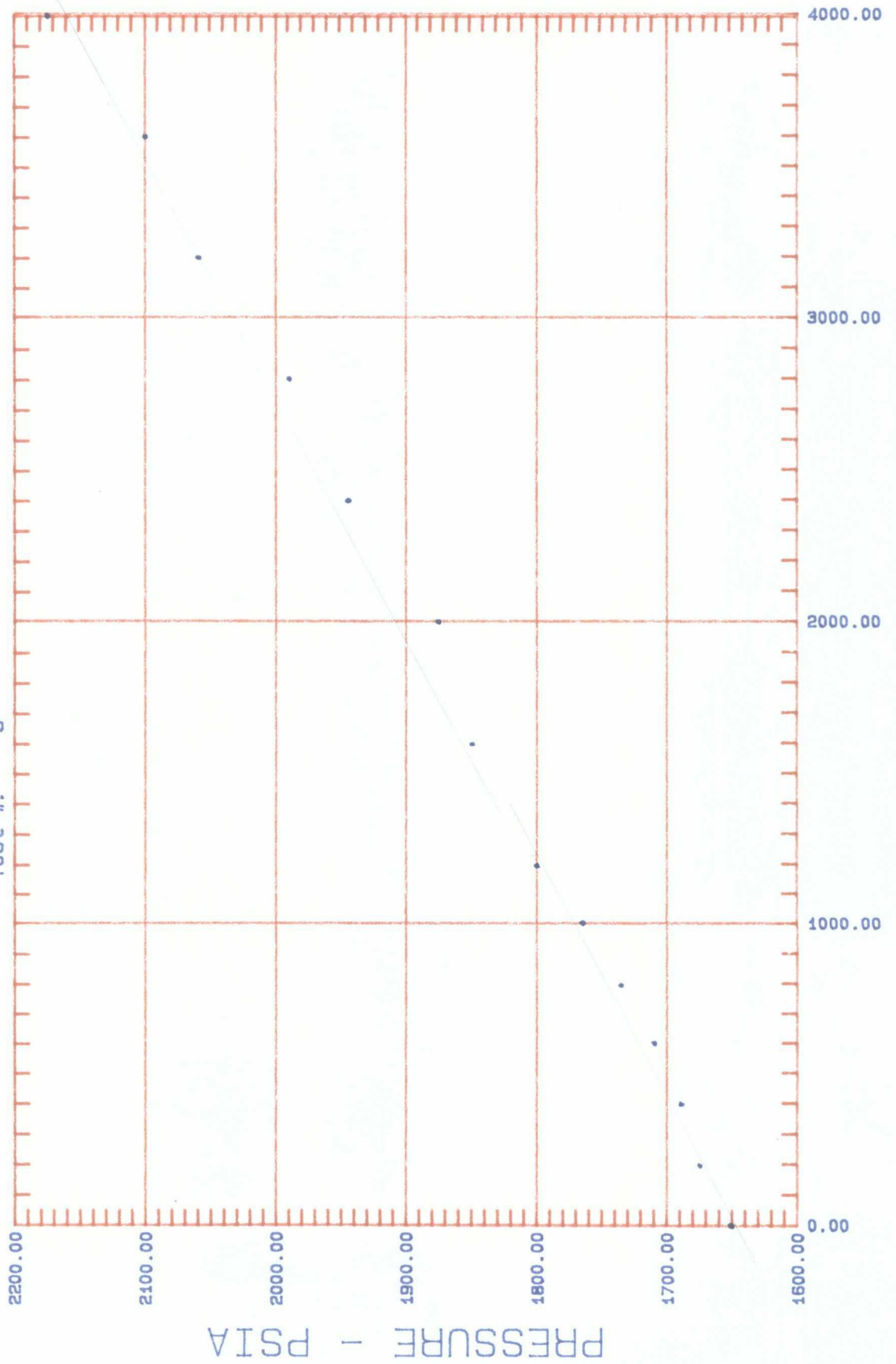
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1650.00		
0.500	200.00	1675.00		
1.000	400.00	1690.00		
1.500	600.00	1710.00		
2.000	800.00	1735.00		
2.500	1000.00	1765.00		
3.000	1200.00	1800.00		
3.500	1600.00	1850.00		
4.000	2000.00	1875.00		
4.500	2400.00	1945.00		
5.000	2800.00	1990.00		
5.500	3200.00	2060.00		
6.000	3600.00	2100.00		
6.500	4000.00	2175.00		

Plot starting date: 8/16/99
time: 13:39: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL A #15
Well #: 3
Test #: 3

Location: KEEL FIELD
Operator: D. GRYDER
Comments: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE



FLOW RATE - BBLs/DAY

PRESSURE - PSIA

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #17
WELL NUMBER: 5
TEST NUMBER: 5
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3059'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/18/99
PAGE START TIME: 10:15:45
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		77.85	SPSI 1550
0.002	0.00	2949.36		
0.033	300.00		77.85	
0.035	300.00	2949.27		
0.068	300.00		77.86	
0.066	300.00	2950.92		
0.099	300.00		77.88	
0.102	300.00	2952.45		
0.135	300.00		77.96	
0.133	300.00	2953.53		
0.166	300.00		78.05	
0.168	300.00	2954.57		
0.201	300.00		78.13	
0.199	300.00	2955.35		
0.232	300.00		78.18	
0.235	300.00	2956.02		
0.264	300.00		78.22	
0.266	300.00	2956.65		
0.299	300.00		78.26	
0.297	300.00	2957.26		
0.330	300.00		78.31	
0.333	300.00	2957.95		
0.366	300.00		78.37	
0.364	300.00	2958.51		
0.397	300.00		78.42	
0.399	300.00	2959.16		
0.432	300.00		78.48	
0.431	300.00	2959.74		
0.464	300.00		78.53	
0.466	300.00	2960.36		
0.499	300.00		78.57	SPSI 1610
0.497	300.00	2960.85		
0.529	600.00		78.59	
0.531	600.00	2961.25		
0.564	600.00		78.60	
0.562	600.00	2963.40		
0.595	600.00		78.57	
0.598	600.00	2964.48		
0.626	600.00		78.49	
0.629	600.00	2965.46		
0.662	600.00		78.37	
0.660	600.00	2966.35		
0.693	600.00		78.24	
0.696	600.00	2967.38		
0.729	600.00		78.11	
0.727	600.00	2968.21		
0.760	600.00		77.98	
0.762	600.00	2969.12		
0.795	600.00		77.84	
0.793	600.00	2969.89		

PAGE START DATE: 8/18/99
PAGE START TIME: 11: 5:20
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.826	600.00		77.70	
0.829	600.00	2970.73		
0.859	600.00		77.55	
0.862	600.00	2971.55		
0.891	600.00		77.42	
0.893	600.00	2972.21		
0.926	600.00		77.27	
0.924	600.00	2972.92		
0.957	600.00		77.14	
0.960	600.00	2973.63		
0.993	600.00		77.05	
0.991	600.00	2974.29		
1.023	900.00		76.97	SPSI 1665
1.026	900.00	2975.83		
1.059	900.00		76.82	
1.057	900.00	2977.16		
1.090	900.00		76.70	
1.092	900.00	2978.64		
1.126	900.00		76.57	
1.124	900.00	2979.76		
1.157	900.00		76.49	
1.159	900.00	2981.01		
1.188	900.00		76.42	
1.190	900.00	2982.01		
1.223	900.00		76.32	
1.221	900.00	2982.96		
1.254	900.00		76.26	
1.257	900.00	2984.04		
1.290	900.00		76.21	
1.288	900.00	2984.99		
1.321	900.00		76.20	
1.324	900.00	2986.02		
1.352	900.00		76.22	
1.355	900.00	2986.90		
1.388	900.00		76.28	
1.386	900.00	2987.75		
1.419	900.00		76.35	
1.421	900.00	2988.69		
1.454	900.00		76.44	
1.452	900.00	2989.48		
1.486	900.00		76.54	SPSI 1700
1.488	900.00	2990.36		
1.518	1200.00		76.64	
1.521	1200.00	2992.02		
1.554	1200.00		76.77	
1.552	1200.00	2993.48		
1.585	1200.00		76.87	
1.587	1200.00	2994.96		
1.621	1200.00		77.00	
1.619	1200.00	2996.07		

PAGE START DATE: 8/18/99
PAGE START TIME: 11:54:47
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.651	1200.00		77.11	
1.653	1200.00	2997.39		
1.684	1200.00		77.24	
1.686	1200.00	2998.41		
1.719	1200.00		77.42	
1.717	1200.00	2999.53		
1.750	1200.00		77.59	
1.753	1200.00	3000.66		
1.781	1200.00		77.78	
1.784	1200.00	3001.76		
1.817	1200.00		78.02	
1.815	1200.00	3002.76		
1.848	1200.00		78.25	
1.851	1200.00	3003.82		
1.884	1200.00		78.46	
1.882	1200.00	3004.62		
1.915	1200.00		78.65	
1.917	1200.00	3005.60		
1.950	1200.00		78.83	
1.948	1200.00	3006.45		
1.982	1200.00		78.99	SPSI 1740
1.984	1200.00	3007.36		
2.015	1500.00		79.14	
2.013	1500.00	3005.82		
2.046	1500.00		79.28	
2.049	1500.00	3009.35		
2.082	1500.00		79.49	
2.080	1500.00	3010.91		
2.113	1500.00		79.67	
2.116	1500.00	3012.38		
2.149	1500.00		79.85	
2.147	1500.00	3013.53		
2.180	1500.00		80.06	
2.178	1500.00	3014.76		
2.211	1500.00		80.31	
2.213	1500.00	3016.12		
2.246	1500.00		80.60	
2.244	1500.00	3017.20		
2.277	1500.00		80.85	
2.280	1500.00	3018.36		
2.313	1500.00		81.13	
2.311	1500.00	3019.34		
2.344	1500.00		81.35	
2.347	1500.00	3020.40		
2.375	1500.00		81.55	
2.378	1500.00	3021.30		
2.411	1500.00		81.75	
2.409	1500.00	3022.18		
2.442	1500.00		81.92	
2.444	1500.00	3023.18		

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PAGE START TIME: 12:44:21
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.477	1500.00		82.11	SPSI 1780
2.479	1500.00	3024.14		
2.510	1800.00		82.28	
2.508	1800.00	3025.80		
2.541	1800.00		82.47	
2.543	1800.00	3027.43		
2.576	1800.00		82.71	
2.574	1800.00	3028.85		
2.607	1800.00		82.95	
2.610	1800.00	3030.32		
2.643	1800.00		83.24	
2.641	1800.00	3031.53		
2.674	1800.00		83.47	
2.676	1800.00	3032.85		
2.709	1800.00		83.69	
2.707	1800.00	3033.85		
2.740	1800.00		83.90	
2.742	1800.00	3035.05		
2.775	1800.00		84.13	
2.773	1800.00	3036.12		
2.806	1800.00		84.30	
2.809	1800.00	3037.30		
2.837	1800.00		84.43	
2.840	1800.00	3038.25		
2.873	1800.00		84.58	
2.871	1800.00	3039.20		
2.904	1800.00		84.73	
2.907	1800.00	3040.32		
2.940	1800.00		84.90	
2.938	1800.00	3041.12		
2.971	1800.00		85.04	SPSI 1840
2.973	1800.00	3042.19		
3.004	2100.00		85.11	
3.007	2100.00	3043.85		
3.036	2100.00		85.17	
3.038	2100.00	3045.11		
3.071	2100.00		85.30	
3.069	2100.00	3046.54		
3.102	2100.00		85.50	
3.105	2100.00	3048.14		
3.138	2100.00		85.77	
3.136	2100.00	3049.33		
3.169	2100.00		86.00	
3.171	2100.00	3050.54		
3.204	2100.00		86.23	
3.202	2100.00	3051.46		
3.236	2100.00		86.37	
3.238	2100.00	3052.51		
3.267	2100.00		86.47	
3.269	2100.00	3053.44		

PAGE START DATE: 8/18/99
PAGE START TIME: 13:33:55
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.303	2100.00		86.56	
3.301	2100.00	3054.41		
3.335	2100.00		86.64	
3.333	2100.00	3055.42		
3.366	2100.00		86.73	
3.368	2100.00	3056.42		
3.401	2100.00		86.80	
3.399	2100.00	3057.31		
3.432	2100.00		86.88	
3.435	2100.00	3058.42		
3.465	2100.00		86.95	SPSI 1890
3.467	2100.00	3059.03		
3.499	2500.00		87.04	
3.501	2500.00	3061.38		
3.534	2500.00		87.15	
3.532	2500.00	3062.90		
3.566	2500.00		87.24	
3.568	2500.00	3064.47		
3.597	2500.00		87.43	
3.599	2500.00	3065.87		
3.632	2500.00		87.69	
3.630	2500.00	3067.09		
3.663	2500.00		87.89	
3.666	2500.00	3068.30		
3.699	2500.00		88.06	
3.697	2500.00	3069.29		
3.730	2500.00		88.15	
3.732	2500.00	3070.35		
3.766	2500.00		88.23	
3.764	2500.00	3071.29		
3.797	2500.00		88.28	
3.799	2500.00	3072.39		
3.828	2500.00		88.32	
3.830	2500.00	3073.34		
3.863	2500.00		88.37	
3.861	2500.00	3074.33		
3.894	2500.00		88.42	
3.897	2500.00	3075.45		
3.930	2500.00		88.50	
3.928	2500.00	3076.39		
3.961	2500.00		88.57	SPSI 1950
3.963	2500.00	3077.45		
3.996	2900.00		88.71	
3.994	2900.00	3081.59		
4.027	2900.00		88.81	
4.029	2900.00	3083.46		
4.062	2900.00		88.97	
4.061	2900.00	3084.86		
4.094	2900.00		89.10	
4.096	2900.00	3086.30		

PAGE START DATE: 8/18/99
PAGE START TIME: 14:23:17
DATA FILE: 3

GAUGE S/N: 77675

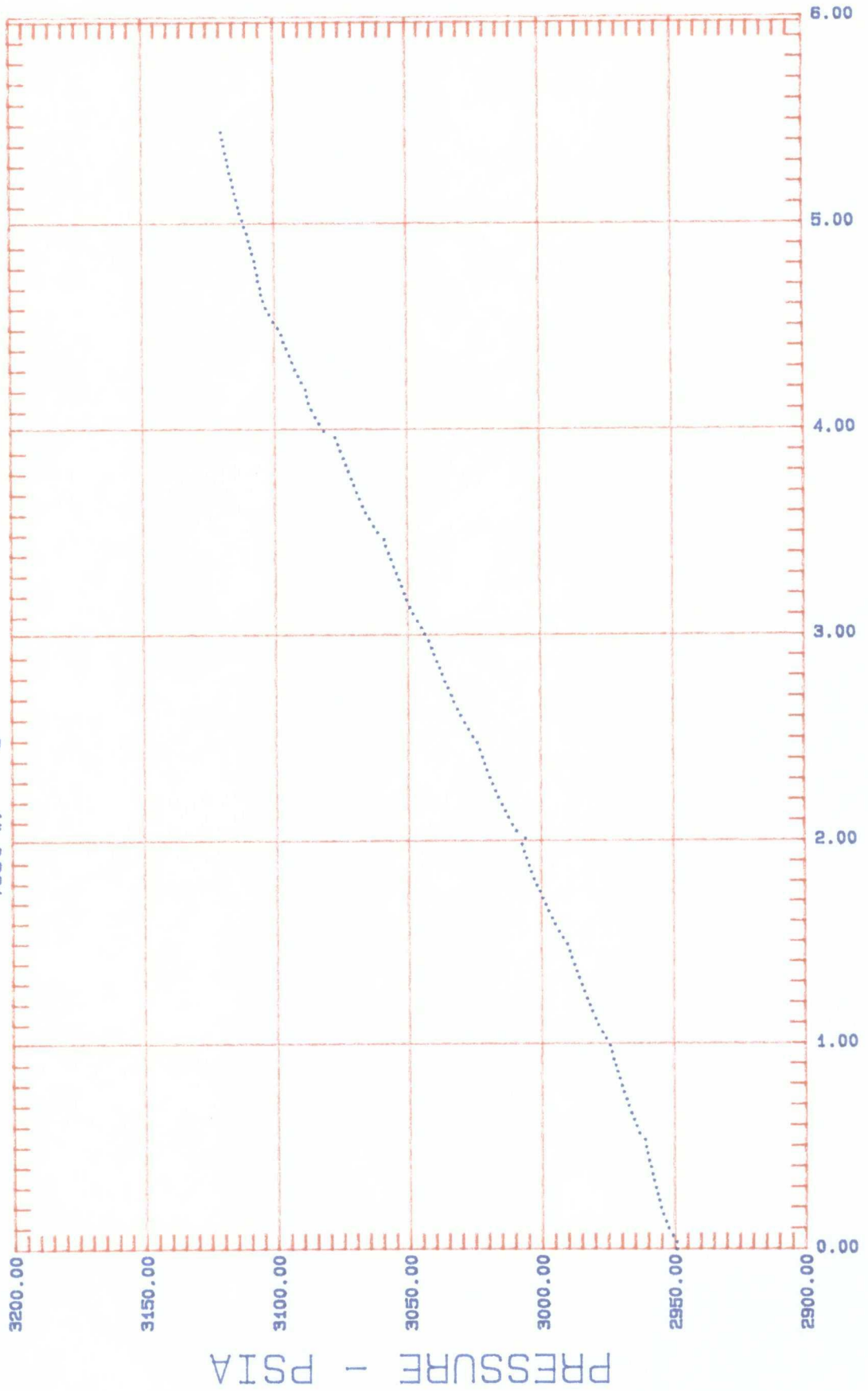
DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.126	2900.00		89.28	
4.128	2900.00	3087.39		
4.159	2900.00		89.41	
4.161	2900.00	3087.95		
4.194	2900.00		89.46	
4.192	2900.00	3088.47		
4.225	2900.00		89.45	
4.228	2900.00	3090.06		
4.256	2900.00		89.43	
4.259	2900.00	3091.22		
4.292	2900.00		89.47	
4.290	2900.00	3092.42		
4.323	2900.00		89.54	
4.326	2900.00	3093.48		
4.359	2900.00		89.61	
4.357	2900.00	3094.51		
4.390	2900.00		89.65	
4.392	2900.00	3095.64		
4.425	2900.00		89.71	
4.423	2900.00	3096.69		
4.456	2900.00		89.74	
4.459	2900.00	3097.58		
4.488	3300.00		89.72	SPSI 2050
4.491	3300.00	3098.80		
4.524	3300.00		89.74	
4.522	3300.00	3100.54		
4.555	3300.00		89.84	
4.557	3300.00	3102.06		
4.590	3300.00		90.00	
4.588	3300.00	3103.34		
4.621	3300.00		90.09	
4.624	3300.00	3104.35		
4.652	3300.00		90.18	
4.655	3300.00	3105.14		
4.688	3300.00		90.22	
4.686	3300.00	3105.45		
4.719	3300.00		90.24	
4.722	3300.00	3106.28		
4.755	3300.00		90.22	
4.753	3300.00	3106.53		
4.786	3300.00		90.17	
4.788	3300.00	3107.17		
4.821	3300.00		90.10	
4.819	3300.00	3107.47		
4.852	3300.00		90.04	
4.855	3300.00	3108.42		
4.884	3300.00		90.01	
4.886	3300.00	3109.06		
4.919	3300.00		89.99	
4.917	3300.00	3109.65		

PAGE START DATE: 8/18/99
PAGE START TIME: 15:12:46
DATA FILE: 3

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.950	3300.00		89.97	SPSI 2050
4.953	3300.00	3110.31		
4.983	3700.00		89.93	
4.986	3700.00	3111.30		
5.019	3700.00		89.92	
5.017	3700.00	3112.01		
5.050	3700.00		89.92	
5.052	3700.00	3112.95		
5.086	3700.00		89.92	
5.084	3700.00	3113.54		
5.117	3700.00		89.92	
5.119	3700.00	3114.28		
5.148	3700.00		89.88	
5.150	3700.00	3114.86		
5.183	3700.00		89.86	
5.181	3700.00	3115.47		
5.214	3700.00		89.83	
5.217	3700.00	3116.10		
5.250	3700.00		89.83	
5.248	3700.00	3116.77		
5.281	3700.00		89.86	
5.284	3700.00	3117.26		
5.312	3700.00		89.87	
5.315	3700.00	3117.71		
5.348	3700.00		89.90	
5.346	3700.00	3118.38		
5.379	3700.00		89.90	
5.381	3700.00	3118.79		
5.414	3700.00		89.91	
5.412	3700.00	3119.42		
5.449	3700.00		89.88	SPSI 2090
5.447	3700.00	3119.98		

Plot starting date: 8/18/99
 time: 10:15:45
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "A" #17
 Well #: 5
 Test #: 5
 Location: GRAYBURG-JACKSON
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 3059'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #17
WELL NUMBER: 5
TEST NUMBER: 5
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3059'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/18/99
PAGE START TIME: 10:15: 0
DATA FILE: 4

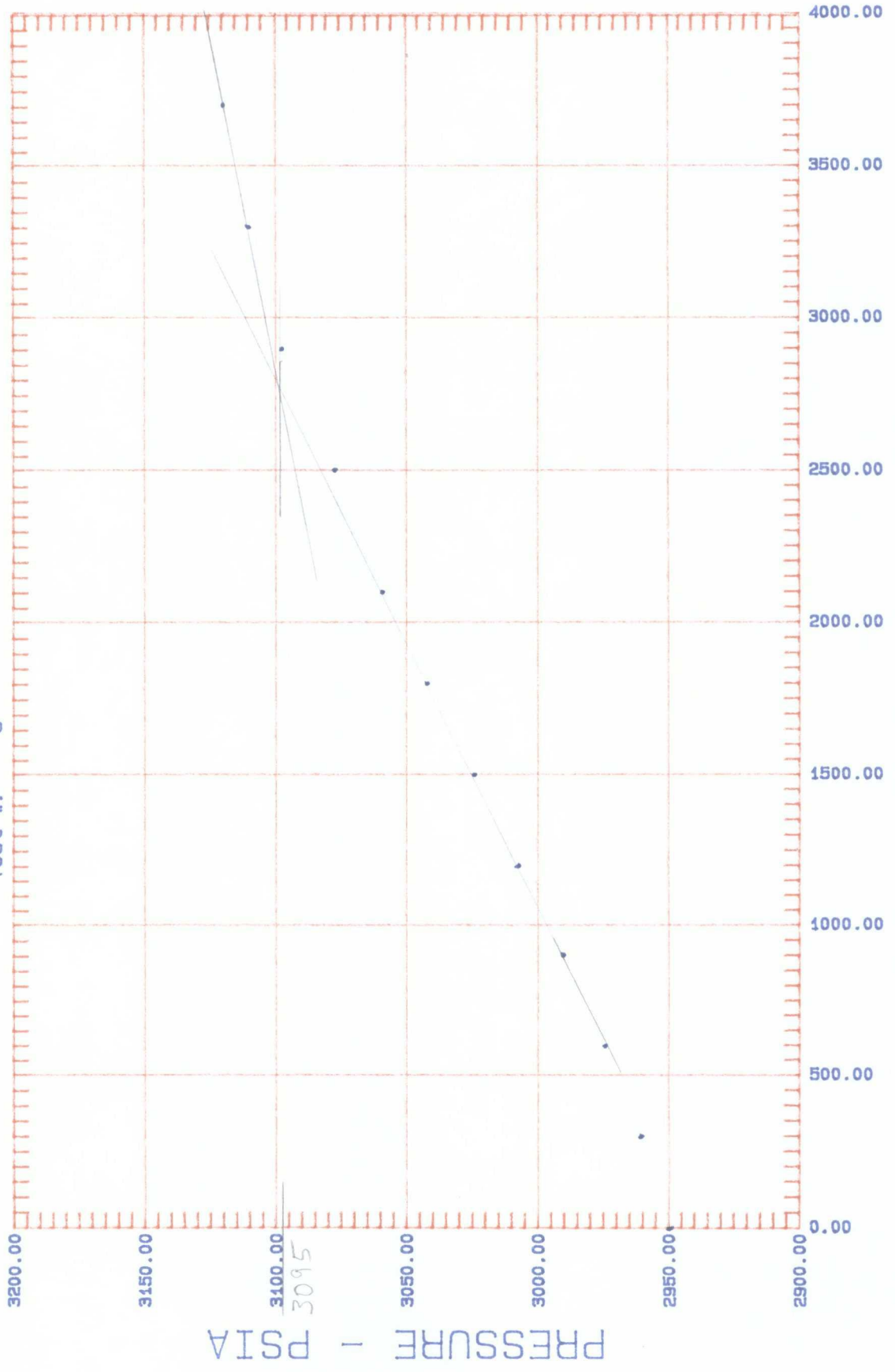
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	2949.36		
0.500	300.00	2960.85		
1.000	600.00	2974.29		
1.500	900.00	2990.36		
2.000	1200.00	3007.36		
2.500	1500.00	3024.14		
3.000	1800.00	3042.19		
3.500	2100.00	3059.03		
4.000	2500.00	3077.45		
4.500	2900.00	3097.58		
5.000	3300.00	3110.31		
5.500	3700.00	3119.98		

Plot starting date: 8/18/99
time: 10:15:0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "A" #17
Well #: 5
Test #: 5

Location: GRAYBURG-JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3059'



COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #17
WELL NUMBER: 5
TEST NUMBER: 5
LOCATION: GRAYBURG-JACKSON
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: 8/18/99
PAGE START TIME: 10:15: 0
DATA FILE: 4

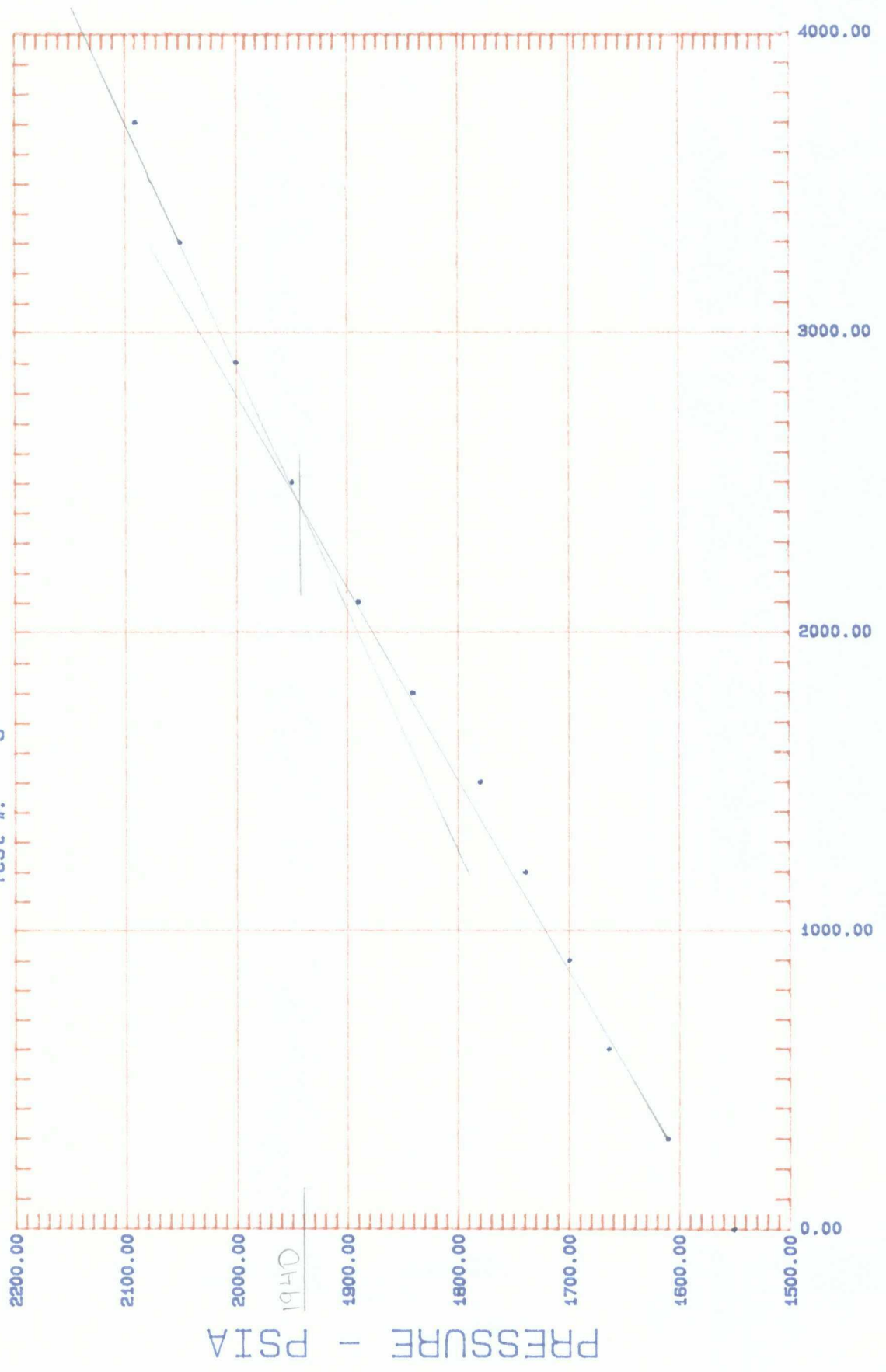
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1550.00		
0.500	300.00	1610.00		
1.000	600.00	1665.00		
1.500	900.00	1700.00		
2.000	1200.00	1740.00		
2.500	1500.00	1780.00		
3.000	1800.00	1840.00		
3.500	2100.00	1890.00		
4.000	2500.00	1950.00		
4.500	2900.00	2000.00		
5.000	3300.00	2050.00		
5.500	3700.00	2090.00		

Plot starting date: 8/18/99
time: 10:15:0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "A" #17
Well #: 5
Test #: 5

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



FLOW RATE - BBLS/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #28
WELL NUMBER: 6
TEST NUMBER: 6
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3160'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/19/99
PAGE START TIME: 11:23:14
DATA FILE: 4

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		81.38	SPSI 1530
0.003	0.00	3019.74		
0.034	300.00		81.40	
0.037	300.00	3019.53		
0.066	300.00		81.42	
0.068	300.00	3020.42		
0.101	300.00		81.42	
0.099	300.00	3022.38		
0.132	300.00		81.43	
0.135	300.00	3023.20		
0.168	300.00		81.44	
0.166	300.00	3023.99		
0.199	300.00		81.44	
0.201	300.00	3024.78		
0.234	300.00		81.45	
0.232	300.00	3025.42		
0.266	300.00		81.45	
0.268	300.00	3026.13		
0.297	300.00		81.45	
0.299	300.00	3026.70		
0.332	300.00		81.45	
0.330	300.00	3027.25		
0.363	300.00		81.45	
0.366	300.00	3027.84		
0.399	300.00		81.45	
0.397	300.00	3028.36		
0.430	300.00		81.45	
0.432	300.00	3028.92		
0.466	300.00		81.46	
0.464	300.00	3029.39		
0.496	300.00		81.46	SPSI 1650
0.498	300.00	3029.90		
0.531	600.00		81.45	
0.529	600.00	3031.48		
0.562	600.00		81.46	
0.565	600.00	3033.07		
0.598	600.00		81.46	
0.596	600.00	3034.09		
0.629	600.00		81.46	
0.631	600.00	3035.22		
0.660	600.00		81.46	
0.663	600.00	3036.29		
0.696	600.00		81.46	
0.694	600.00	3037.15		
0.727	600.00		81.46	
0.729	600.00	3037.80		
0.762	600.00		81.46	
0.760	600.00	3038.37		
0.793	600.00		81.46	
0.796	600.00	3039.21		

PAGE START DATE: 8/19/99
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DATA FILE: 4

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.825	600.00		81.46	
0.827	600.00	3039.93		
0.858	600.00		81.46	
0.861	600.00	3040.75		
0.894	600.00		81.46	
0.892	600.00	3041.48		
0.925	600.00		81.46	
0.927	600.00	3042.16		
0.960	600.00		81.45	
0.958	600.00	3042.77		
0.992	600.00		81.45	SPSI 1700
0.994	600.00	3043.43		
1.023	900.00		81.45	
1.025	900.00	3045.30		
1.058	900.00		81.45	
1.056	900.00	3047.00		
1.089	900.00		81.45	
1.092	900.00	3048.41		
1.125	900.00		81.45	
1.123	900.00	3049.58		
1.156	900.00		81.44	
1.159	900.00	3050.76		
1.192	900.00		81.45	
1.190	900.00	3051.78		
1.223	900.00		81.44	
1.225	900.00	3052.89		
1.254	900.00		81.44	
1.256	900.00	3053.80		
1.289	900.00		81.44	
1.288	900.00	3054.67		
1.321	900.00		81.44	
1.323	900.00	3055.66		
1.356	900.00		81.43	
1.354	900.00	3056.46		
1.387	900.00		81.43	
1.390	900.00	3057.38		
1.423	900.00		81.43	
1.421	900.00	3058.16		
1.454	900.00		81.43	
1.456	900.00	3059.02		
1.485	900.00		81.43	SPSI 1725
1.487	900.00	3059.78		
1.520	1200.00		81.43	
1.518	1200.00	3061.78		
1.551	1200.00		81.43	
1.554	1200.00	3064.31		
1.587	1200.00		81.43	
1.585	1200.00	3065.92		
1.618	1200.00		81.43	
1.620	1200.00	3067.60		

PAGE START DATE: 8/19/99
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DATA FILE: 4

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.650	1200.00		81.43	
1.652	1200.00	3069.01		
1.683	1200.00		81.43	
1.685	1200.00	3070.33		
1.718	1200.00		81.42	
1.716	1200.00	3071.67		
1.749	1200.00		81.42	
1.752	1200.00	3073.10		
1.785	1200.00		81.42	
1.783	1200.00	3074.28		
1.816	1200.00		81.41	
1.819	1200.00	3075.57		
1.852	1200.00		81.41	
1.850	1200.00	3076.67		
1.883	1200.00		81.40	
1.885	1200.00	3077.90		
1.914	1200.00		81.39	
1.916	1200.00	3078.93		
1.949	1200.00		81.39	
1.948	1200.00	3079.92		
1.980	1200.00		81.39	SPSI 1790
1.983	1200.00	3080.98		
2.016	1600.00		81.37	
2.014	1600.00	3077.22		
2.047	1600.00		81.36	
2.049	1600.00	3083.57		
2.083	1600.00		81.36	
2.081	1600.00	3085.11		
2.114	1600.00		81.35	
2.116	1600.00	3086.20		
2.145	1600.00		81.35	
2.147	1600.00	3087.16		
2.180	1600.00		81.34	
2.178	1600.00	3088.14		
2.211	1600.00		81.34	
2.214	1600.00	3089.12		
2.247	1600.00		81.32	
2.245	1600.00	3090.20		
2.278	1600.00		81.32	
2.281	1600.00	3091.36		
2.314	1600.00		81.33	
2.312	1600.00	3092.40		
2.345	1600.00		81.32	
2.347	1600.00	3093.52		
2.376	1600.00		81.30	
2.378	1600.00	3094.35		
2.411	1600.00		81.28	
2.409	1600.00	3095.44		
2.443	1600.00		81.28	
2.445	1600.00	3096.40		

PAGE START DATE: 8/19/99
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DATA FILE: 4

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.479	1600.00		81.27	
2.477	1600.00	3097.09		
2.511	2000.00		81.27	
2.509	2000.00	3098.06		
2.543	2000.00		81.27	SPSI 1825
2.545	2000.00	3100.07		
2.574	2000.00		81.27	
2.576	2000.00	3101.84		
2.609	2000.00		81.25	
2.607	2000.00	3103.44		
2.640	2000.00		81.24	
2.643	2000.00	3105.09		
2.676	2000.00		81.23	
2.674	2000.00	3106.35		
2.707	2000.00		81.21	
2.709	2000.00	3108.00		
2.743	2000.00		81.21	
2.741	2000.00	3109.12		
2.774	2000.00		81.20	
2.776	2000.00	3110.45		
2.805	2000.00		81.18	
2.807	2000.00	3111.44		
2.840	2000.00		81.16	
2.838	2000.00	3112.58		
2.871	2000.00		81.15	
2.874	2000.00	3113.76		
2.907	2000.00		81.15	
2.905	2000.00	3114.90		
2.938	2000.00		81.13	
2.941	2000.00	3116.15		
2.973	2000.00		81.12	SPSI 1860
2.971	2000.00	3117.11		
3.004	2400.00		81.12	
3.006	2400.00	3119.25		
3.039	2400.00		81.12	
3.037	2400.00	3121.20		
3.070	2400.00		81.12	
3.073	2400.00	3122.89		
3.106	2400.00		81.11	
3.104	2400.00	3124.23		
3.137	2400.00		81.07	
3.139	2400.00	3125.60		
3.168	2400.00		81.05	
3.171	2400.00	3126.82		
3.204	2400.00		80.96	
3.202	2400.00	3127.79		
3.235	2400.00		80.92	
3.237	2400.00	3129.10		
3.270	2400.00		80.89	
3.268	2400.00	3130.20		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.301	2400.00		80.86	
3.304	2400.00	3131.43		
3.334	2400.00		80.83	
3.337	2400.00	3132.53		
3.366	2400.00		80.81	
3.368	2400.00	3133.57		
3.401	2400.00		80.79	
3.399	2400.00	3134.55		
3.432	2400.00		80.76	
3.435	2400.00	3135.71		
3.467	2400.00		80.74	SPSI 1910
3.469	2400.00	3136.79		
3.498	2800.00		80.71	
3.500	2800.00	3138.82		
3.533	2800.00		80.70	
3.531	2800.00	3140.68		
3.564	2800.00		80.71	
3.567	2800.00	3142.23		
3.600	2800.00		80.71	
3.598	2800.00	3143.75		
3.631	2800.00		80.57	
3.634	2800.00	3144.97		
3.667	2800.00		80.48	
3.665	2800.00	3146.25		
3.698	2800.00		80.45	
3.700	2800.00	3147.43		
3.729	2800.00		80.41	
3.731	2800.00	3148.39		
3.764	2800.00		80.38	
3.762	2800.00	3149.33		
3.796	2800.00		80.37	
3.798	2800.00	3150.44		
3.831	2800.00		80.37	
3.829	2800.00	3151.34		
3.862	2800.00		80.37	
3.865	2800.00	3152.35		
3.898	2800.00		80.36	
3.896	2800.00	3153.18		
3.929	2800.00		80.36	
3.931	2800.00	3154.11		
3.960	2800.00		80.36	SPSI 1975
3.962	2800.00	3154.96		
3.995	3200.00		80.36	
3.993	3200.00	3157.38		
4.026	3200.00		80.35	
4.029	3200.00	3159.04		
4.062	3200.00		80.34	
4.060	3200.00	3160.29		
4.093	3200.00		80.34	
4.096	3200.00	3161.59		

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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.125	3200.00		80.34	
4.127	3200.00	3162.65		
4.158	3200.00		80.37	
4.160	3200.00	3163.86		
4.193	3200.00		80.41	
4.191	3200.00	3164.82		
4.224	3200.00		80.43	
4.227	3200.00	3166.00		
4.260	3200.00		80.46	
4.258	3200.00	3166.88		
4.291	3200.00		80.48	
4.294	3200.00	3168.06		
4.327	3200.00		80.52	
4.325	3200.00	3168.98		
4.358	3200.00		80.55	
4.360	3200.00	3170.02		
4.389	3200.00		80.58	
4.391	3200.00	3170.86		
4.424	3200.00		80.65	
4.423	3200.00	3171.83		
4.455	3200.00		80.73	SPSI 2050
4.458	3200.00	3172.77		
4.491	3600.00		80.81	
4.489	3600.00	3174.41		
4.522	3600.00		80.87	
4.524	3600.00	3176.27		
4.557	3600.00		80.93	
4.555	3600.00	3177.52		
4.588	3600.00		80.98	
4.591	3600.00	3178.75		
4.624	3600.00		81.09	
4.622	3600.00	3179.58		
4.655	3600.00		81.19	
4.653	3600.00	3180.16		
4.686	3600.00		81.26	
4.689	3600.00	3180.81		
4.722	3600.00		81.34	
4.720	3600.00	3181.53		
4.753	3600.00		81.39	
4.755	3600.00	3182.39		
4.788	3600.00		81.45	
4.786	3600.00	3183.25		
4.819	3600.00		81.49	
4.822	3600.00	3184.15		
4.851	3600.00		81.53	
4.853	3600.00	3184.91		
4.886	3600.00		81.59	
4.884	3600.00	3185.36		
4.917	3600.00		81.66	
4.920	3600.00	3186.20		

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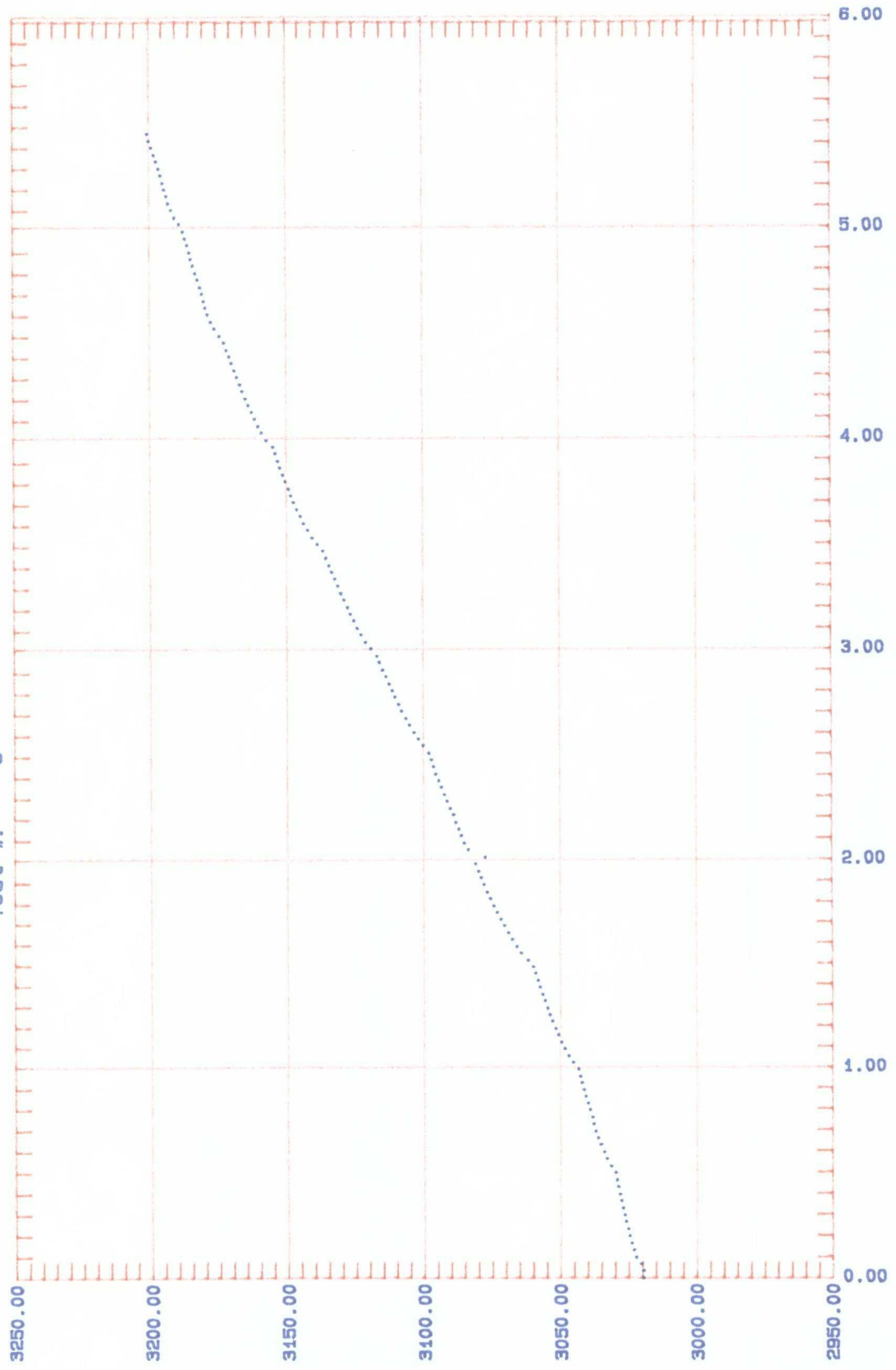
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
4.953	3600.00		81.80	SPSI 2100
4.951	3600.00	3187.03		
4.985	4000.00		81.92	
4.983	4000.00	3187.80		
5.016	4000.00		81.98	
5.019	4000.00	3189.07		
5.052	4000.00		82.04	
5.050	4000.00	3190.73		
5.083	4000.00		82.11	
5.085	4000.00	3191.95		
5.118	4000.00		82.28	
5.116	4000.00	3193.06		
5.149	4000.00		82.33	
5.152	4000.00	3193.64		
5.181	4000.00		82.38	
5.183	4000.00	3194.57		
5.216	4000.00		82.44	
5.214	4000.00	3195.03		
5.247	4000.00		82.47	
5.250	4000.00	3195.82		
5.283	4000.00		82.50	
5.281	4000.00	3196.57		
5.314	4000.00		82.51	
5.316	4000.00	3197.39		
5.349	4000.00		82.55	
5.348	4000.00	3198.23		
5.381	4000.00		82.68	
5.383	4000.00	3199.27		
5.412	4000.00		82.81	
5.414	4000.00	3200.12		
5.446	4000.00		82.91	SPSI 2150
5.448	4000.00	3200.71		

Plot starting date: 8/19/99
time: 11:23:14
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "A" #28
Well #: 6
Test #: 6

Location: GRAYBURG-JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3160'



PRESSURE - PSIA

DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #28
WELL NUMBER: 6
TEST NUMBER: 6
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3160'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/19/99
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GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	3019.74		
0.500	300.00	3029.90		
1.000	600.00	3043.43		
1.500	900.00	3059.78		
2.000	1200.00	3080.98		
2.500	1600.00	3097.09		
3.000	2000.00	3117.11		
3.500	2400.00	3136.79		
4.000	2800.00	3154.96		
4.500	3200.00	3172.77		
5.000	3600.00	3187.03		
5.500	4000.00	3200.71		

Plot starting date: 8/19/99

time: 11:23: 0

Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV

Client: DEVON ENERGY

Well name: J.L. KEEL "A" #28

Well #: 6

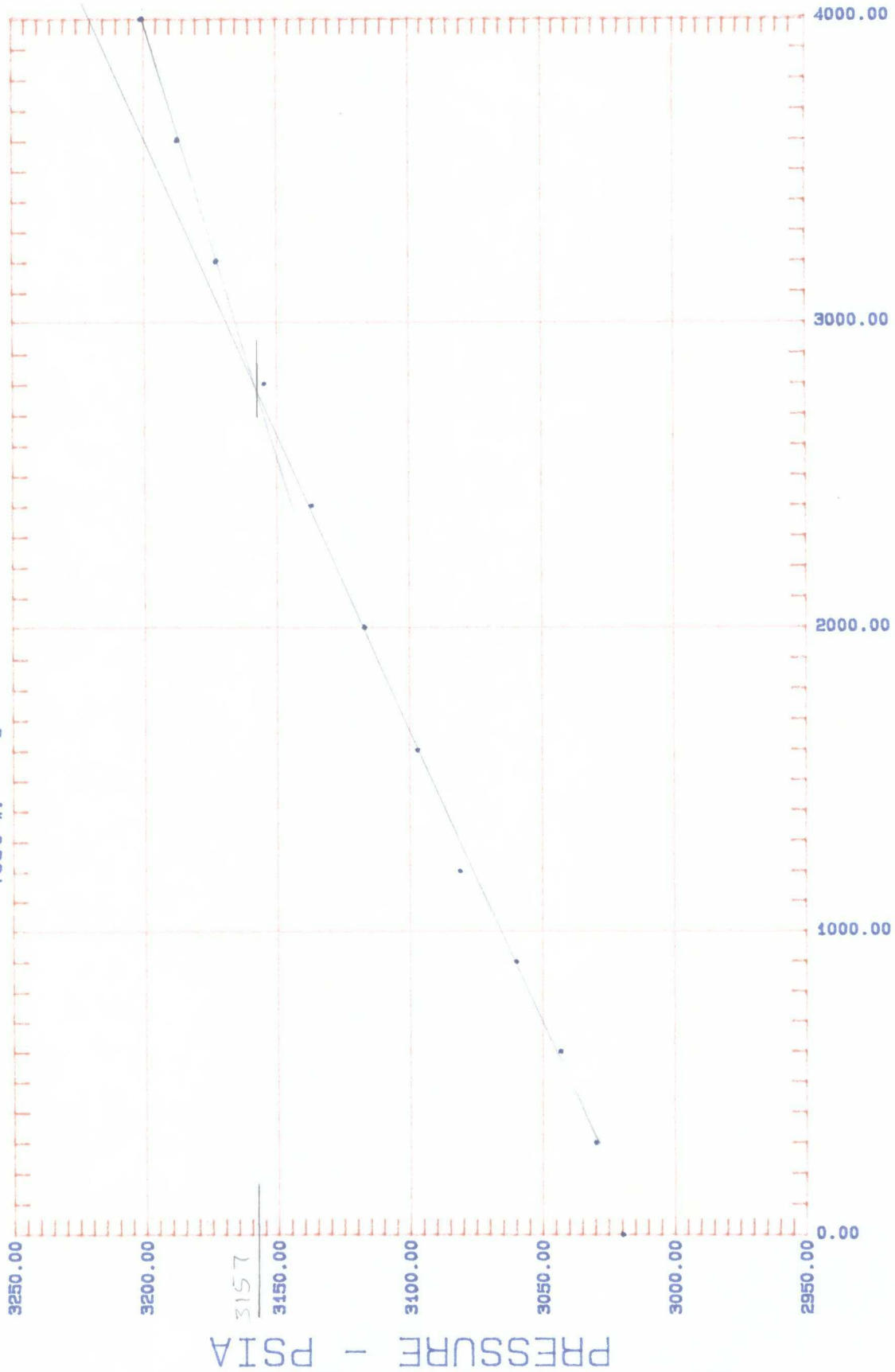
Test #: 6

Location: GRAYBURG-JACKSON

Operator: D. GRYDER

Comments: STEP-RATE TEST BHP/RATE

GAUGE SET @ 3160'



FLOW RATE - BBLs/DAY

PRESSURE - PSIA

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "A" #28
WELL NUMBER: 6
TEST NUMBER: 6
LOCATION: GRAYBURG-JACKSON
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: 8/19/99
PAGE START TIME: 11:23: 0
DATA FILE: 5

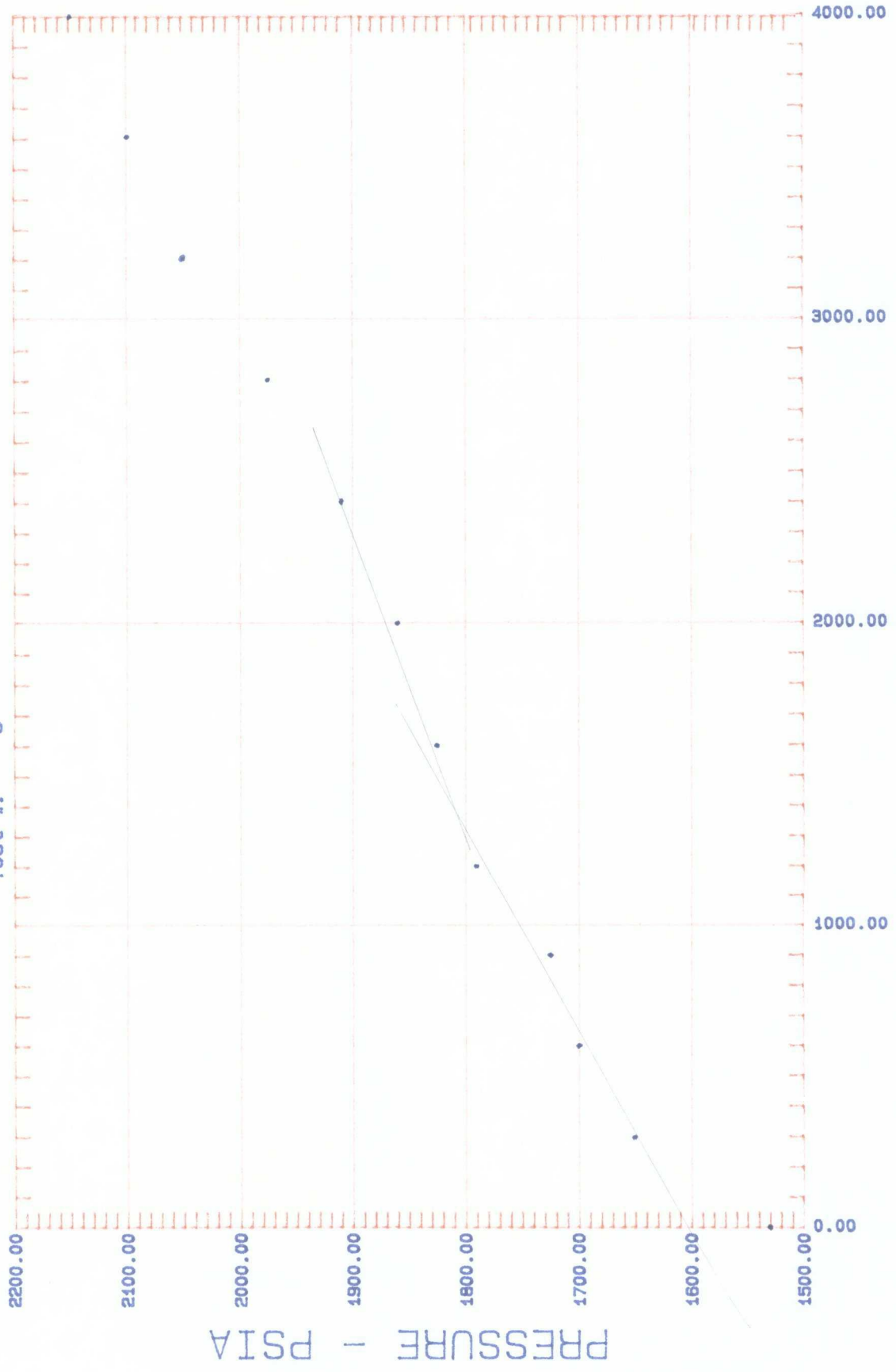
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1530.00		
0.500	300.00	1650.00		
1.000	600.00	1700.00		
1.500	900.00	1725.00		
2.000	1200.00	1790.00		
2.500	1600.00	1825.00		
3.000	2000.00	1860.00		
3.500	2400.00	1910.00		
4.000	2800.00	1975.00		
4.500	3200.00	2050.00		
5.000	3600.00	2100.00		
5.500	4000.00	2150.00		

Plot starting date: 8/19/99
time: 11:23: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "A" #28
Well #: 6
Test #: 6

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



FLOW RATE - BBLs/DAY

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: DEVON ENERGY CORPORATION

DATE: APRIL 27, 1998

WELL NAME: C.A. RUSSELL NO. 9
EDDY COUNTY, NEW MEXICO

W.O.#: 98-14-0673

PERFS = 2740-3465

PACKER DEPTH = 2648

BHP GAUGE DEPTH = 3102

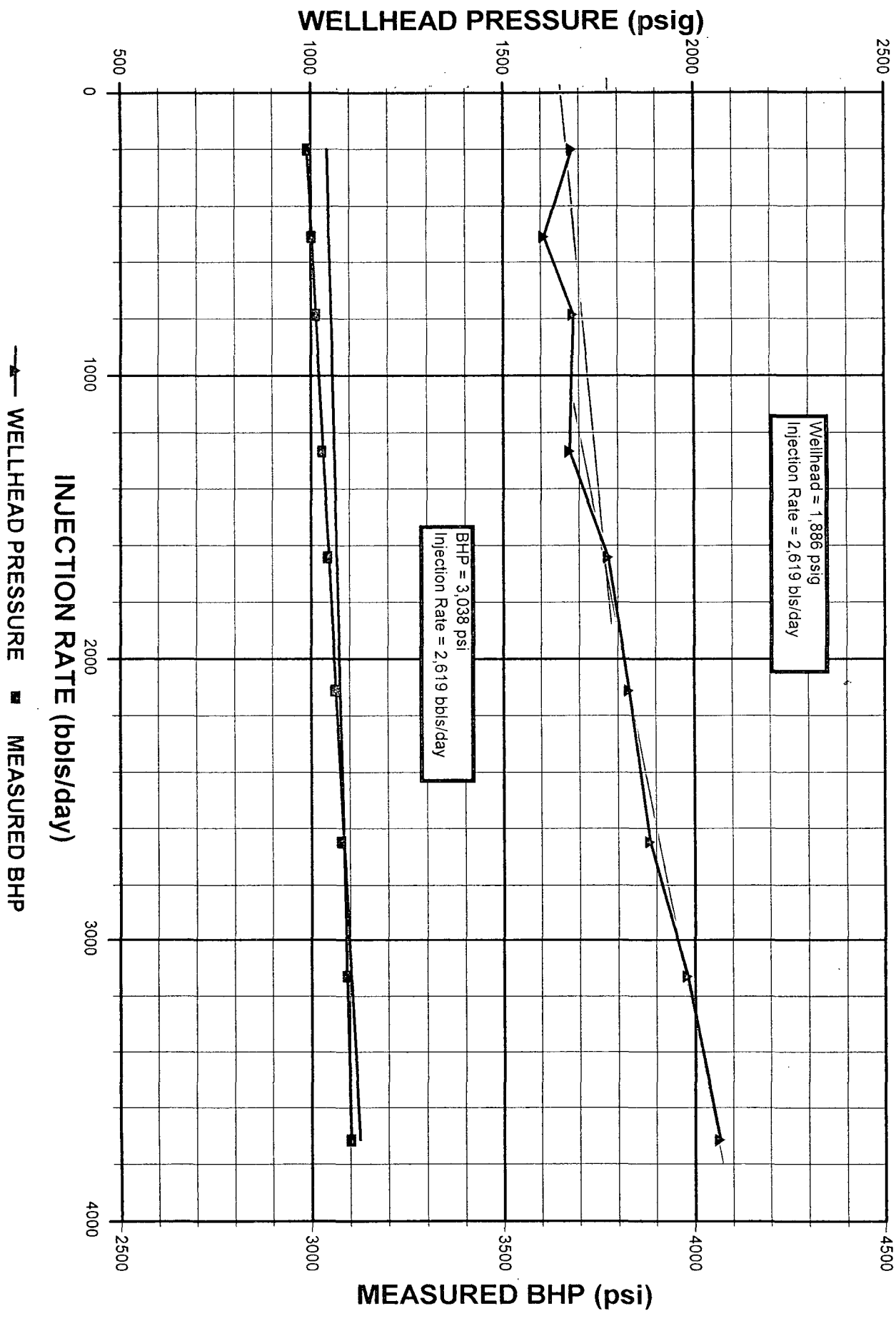
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
	9:50	1561.9				1561.9		2982.0
	9:55	1479.0	0.6	172.8	1.040	1478.0	5.04	2988.0
	10:00	1537.0	1.4	230.4	1.770	1535.2	6.72	2991.0
1	10:05	1683.2	2.1	201.6	1.383	1681.8	5.88	2992.5
				201.6				
	10:10	1627.1	3.8	489.6	7.140	1620.0	14.28	2997.1
	10:15	1657.1	5.6	518.4	7.936	1649.2	15.12	3000.1
2	10:20	1609.6	7.4	518.4	7.936	1601.7	15.12	3003.1
				508.8				
	10:25	1660.9	10.1	777.6	16.803	1644.1	22.68	
	10:30	1667.2	12.9	806.4	17.972	1649.2	23.52	3012.1
3	10:35	1684.8	15.6	777.6	16.803	1668.0	22.68	3013.7
				787.19				
	10:40	1650.0	19.9	1238.4	39.745	1610.3	36.12	3022.7
	10:45	1660.1	24.3	1267.2	41.472	1618.6	36.96	3025.8
4	10:50	1676.4	28.8	1296.0	43.232	1633.2	37.80	3028.8
				1267.2				
	10:55	1765.1	34.4	1612.8	64.790	1700.3	47.04	3036.4
	11:00	1778.9	40.1	1641.6	66.947	1712.0	47.88	3040.9
5	11:05	1777.6	45.9	1670.4	69.136	1708.5	48.72	3044.0
				1641.6				
	11:10	1858.8	53.3	2131.2	108.503	1750.3	62.16	3050.0
	11:15	1831.2	60.6	2102.4	105.806	1725.4	61.32	3056.0
6	11:20	1831.2	67.9	2102.4	105.806	1725.4	61.32	3062.2
				2112.0				
	11:25	1896.2	77.1	2649.6	162.319	1733.9	77.28	3071.3
	11:30	1873.7	86.2	2620.8	159.070	1714.6	76.44	3074.3
7	11:35	1885.0	95.5	2678.4	165.598	1719.4	78.12	3077.4
				2649.6				

STEP NO. & REMARKS	TIME	(1)	(2)	(3)	(4)	(5)	(6)	(7)
		SURFACE TUBING PRESS. (psig)	CUMMULATIVE VOL. INJECTED (bbls)	INJECTION RATE (bbls/day)	FRICTION HEAD LOSS (psi)	CORRECTED TUBING PRESS. (psi) (1) - (4)	INJECTION RATE (gpm) (3)/34.2857	MEASURED BHP (psi)
8	11:40	1996.2	106.2	3081.6	214.646	1781.6	89.88	3085.0
	11:45	1949.9	117.1	3139.2	222.127	1727.8	91.56	3089.6
	11:50	1982.4	128.1	3168.0	225.912	1756.5	92.40	3092.0
9				3129.6				
	11:55	2072.2	141.0	3715.2	303.357	1768.8	108.36	3098.7
	12:00	2065.1	153.9	3715.2	303.357	1761.7	108.36	3101.8
FALLOFF				3715.2				
	12:03	1822.2				1822.2		3101.8
	12:04	1748.5				1748.5		3089.7
	12:05	1740.9				1740.9		3086.7
	12:06	1739.7				1739.7		3085.1
	12:07	1738.4				1738.4		3083.6
	12:08	1737.1				1737.1		3082.1
	12:09	1737.1				1737.1		3082.1
12:10	1735.8				1735.8		3080.6	
	12:15	1733.2				1733.2		3077.6

STEP RATE INJECTION TEST

DEVON ENERGY CORPORATION

Well Name:
C.A. Russell No. 9
Eddy County, New Mexico



COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #9
WELL NUMBER: 8
TEST NUMBER: 8
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3456'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/23/99
PAGE START TIME: 11:26:39
DATA FILE: 6

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	60.00		81.47	SPSI 1700
-0.002	60.00	3341.99		
0.032	260.00		81.48	
0.034	260.00	3365.29		
0.068	260.00		81.50	
0.066	260.00	3379.24		
0.099	260.00		81.50	
0.101	260.00	3387.95		
0.130	260.00		81.52	
0.132	260.00	3393.58		
0.165	260.00		81.56	
0.163	260.00	3398.04		
0.196	260.00		81.58	
0.199	260.00	3402.48		
0.232	260.00		81.53	
0.230	260.00	3405.85		
0.263	260.00		81.53	
0.266	260.00	3409.12		
0.299	260.00		81.53	
0.297	260.00	3411.71		
0.330	260.00		81.52	
0.332	260.00	3414.38		
0.361	260.00		81.52	
0.363	260.00	3416.55		
0.396	260.00		81.52	
0.394	260.00	3418.46		
0.428	260.00		81.52	
0.430	260.00	3420.46		
0.463	260.00		81.51	
0.461	260.00	3422.04		
0.495	260.00		81.51	SPSI 1925
0.497	260.00	3423.77		
0.525	460.00		81.50	
0.528	460.00	3435.52		
0.561	460.00		81.49	
0.559	460.00	3449.67		
0.592	460.00		81.48	
0.594	460.00	3454.31		
0.628	460.00		81.47	
0.626	460.00	3458.10		
0.659	460.00		81.46	
0.661	460.00	3462.67		
0.694	460.00		81.48	
0.692	460.00	3464.72		
0.725	460.00		81.48	
0.728	460.00	3467.68		
0.756	460.00		81.47	
0.759	460.00	3469.48		
0.792	460.00		81.46	
0.790	460.00	3471.39		

PAGE START DATE: 8/23/99
PAGE START TIME: 12:16: 2
DATA FILE: 6

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.823	460.00		81.45	
0.826	460.00	3472.17		
0.856	460.00		81.44	
0.858	460.00	3473.71		
0.891	460.00		81.44	
0.889	460.00	3474.65		
0.923	460.00		81.43	
0.925	460.00	3475.42		
0.958	460.00		81.40	
0.956	460.00	3476.36		
0.989	460.00		81.39	
0.992	460.00	3476.96		
1.023	660.00		81.39	SPSI 1975
1.025	660.00	3477.79		
1.054	660.00		81.39	
1.056	660.00	3490.73		
1.089	660.00		81.39	
1.087	660.00	3495.15		
1.120	660.00		81.39	
1.123	660.00	3498.30		
1.156	660.00		81.38	
1.154	660.00	3499.82		
1.187	660.00		81.36	
1.189	660.00	3501.15		
1.223	660.00		81.36	
1.221	660.00	3501.96		
1.254	660.00		81.35	
1.256	660.00	3502.77		
1.285	660.00		81.35	
1.287	660.00	3503.32		
1.320	660.00		81.34	
1.318	660.00	3503.76		
1.351	660.00		81.34	
1.354	660.00	3504.05		
1.387	660.00		81.36	
1.385	660.00	3504.21		
1.418	660.00		81.36	
1.421	660.00	3504.22		
1.454	660.00		81.35	
1.452	660.00	3503.97		
1.484	660.00		81.35	SPSI 1925
1.487	660.00	3503.79		
1.519	860.00		81.34	
1.518	860.00	3503.66		
1.551	860.00		81.33	
1.553	860.00	3514.45		
1.582	860.00		81.30	
1.584	860.00	3516.23		
1.617	860.00		81.30	
1.615	860.00	3517.04		

PAGE START DATE: 8/23/99
PAGE START TIME: 13: 5:45
DATA FILE: 6

GAUGE S/N: 77675

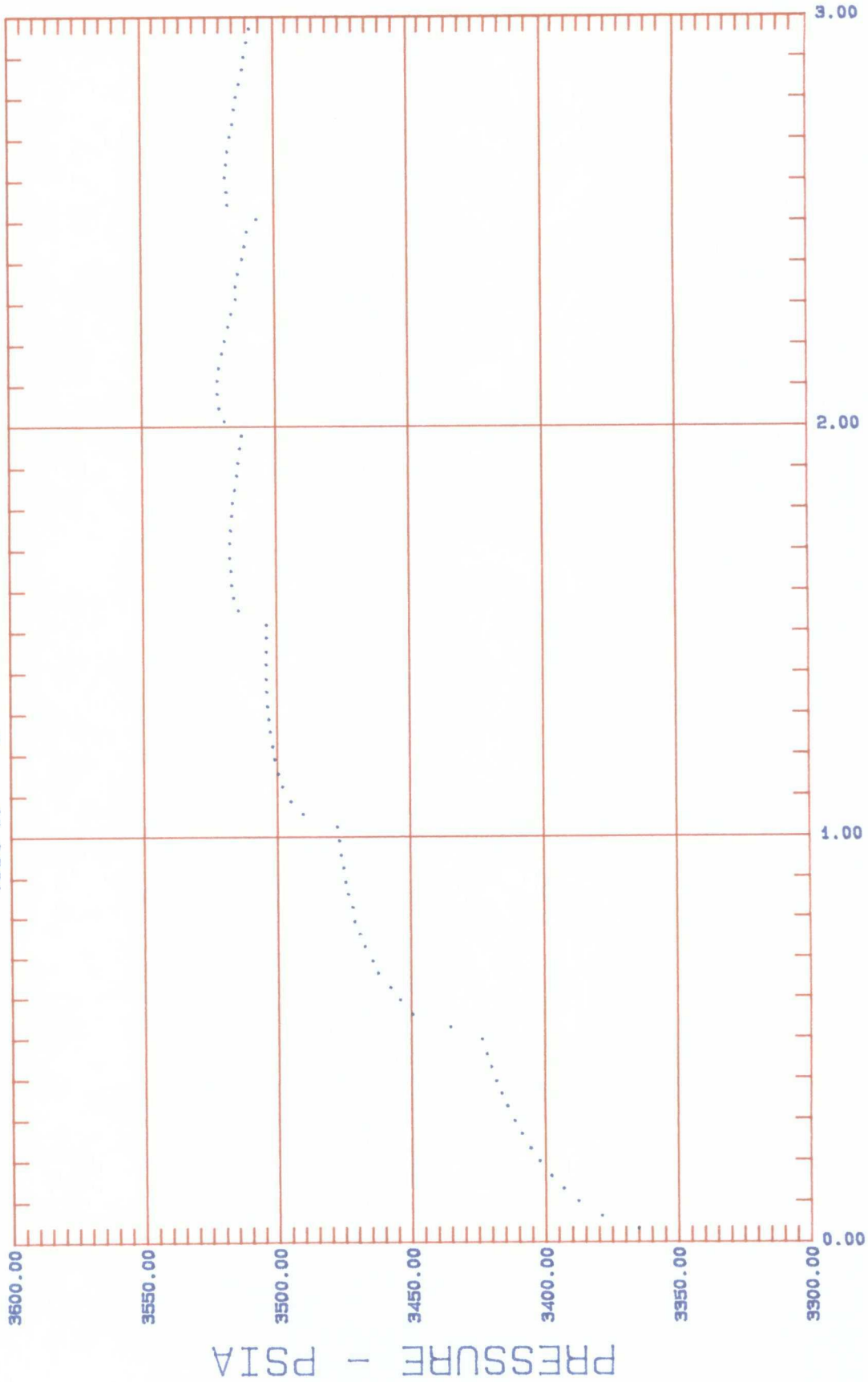
DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.652	860.00		81.30	
1.650	860.00	3517.27		
1.684	860.00		81.29	
1.682	860.00	3517.66		
1.715	860.00		81.29	
1.717	860.00	3517.51		
1.750	860.00		81.28	
1.748	860.00	3516.98		
1.781	860.00		81.27	
1.784	860.00	3516.58		
1.813	860.00		81.26	
1.815	860.00	3516.12		
1.848	860.00		81.26	
1.846	860.00	3515.35		
1.879	860.00		81.25	
1.882	860.00	3514.58		
1.915	860.00		81.24	
1.913	860.00	3514.04		
1.946	860.00		81.24	
1.948	860.00	3513.37		
1.981	860.00		81.26	SPSI 2050
1.979	860.00	3512.64		
2.012	1060.00		81.28	
2.014	1060.00	3519.36		
2.047	1060.00		81.26	
2.045	1060.00	3521.27		
2.078	1060.00		81.24	
2.081	1060.00	3522.03		
2.109	1060.00		81.20	
2.112	1060.00	3521.68		
2.145	1060.00		81.20	
2.143	1060.00	3521.06		
2.176	1060.00		81.19	
2.179	1060.00	3519.86		
2.212	1060.00		81.19	
2.210	1060.00	3518.80		
2.243	1060.00		81.18	
2.245	1060.00	3517.57		
2.278	1060.00		81.17	
2.276	1060.00	3516.28		
2.309	1060.00		81.16	
2.312	1060.00	3514.49		
2.341	1060.00		81.14	
2.343	1060.00	3514.57		
2.376	1060.00		81.12	
2.374	1060.00	3513.65		
2.407	1060.00		81.11	
2.410	1060.00	3512.07		
2.443	1060.00		81.12	
2.441	1060.00	3511.20		

PAGE START DATE: 8/23/99
PAGE START TIME: 13:55: 5
DATA FILE: 6

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.474	1060.00		81.12	
2.476	1060.00	3510.23		
2.509	1260.00		81.13	SPSI 2060
2.507	1260.00	3506.48		
2.540	1260.00		81.15	
2.543	1260.00	3517.73		
2.576	1260.00		81.16	
2.574	1260.00	3518.04		
2.607	1260.00		81.18	
2.609	1260.00	3518.70		
2.638	1260.00		81.17	
2.640	1260.00	3518.00		
2.673	1260.00		81.16	
2.671	1260.00	3517.45		
2.704	1260.00		81.14	
2.707	1260.00	3516.42		
2.740	1260.00		81.13	
2.738	1260.00	3515.41		
2.771	1260.00		81.13	
2.774	1260.00	3514.75		
2.807	1260.00		81.14	
2.805	1260.00	3513.96		
2.838	1260.00		81.13	
2.836	1260.00	3512.84		
2.869	1260.00		81.14	
2.871	1260.00	3511.62		
2.904	1260.00		81.14	
2.903	1260.00	3511.05		
2.936	1260.00		81.15	
2.938	1260.00	3509.94		
2.969	1260.00		81.15	SPSI 2050
2.972	1260.00	3508.88		

Plot starting date: 8/23/99
 time: 11:26:39
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "B" #9
 Well #: 8
 Test #: 8
 Location: GRAYBURG-JACKSON
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 3456'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #9
WELL NUMBER: 8
TEST NUMBER: 8
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3456'

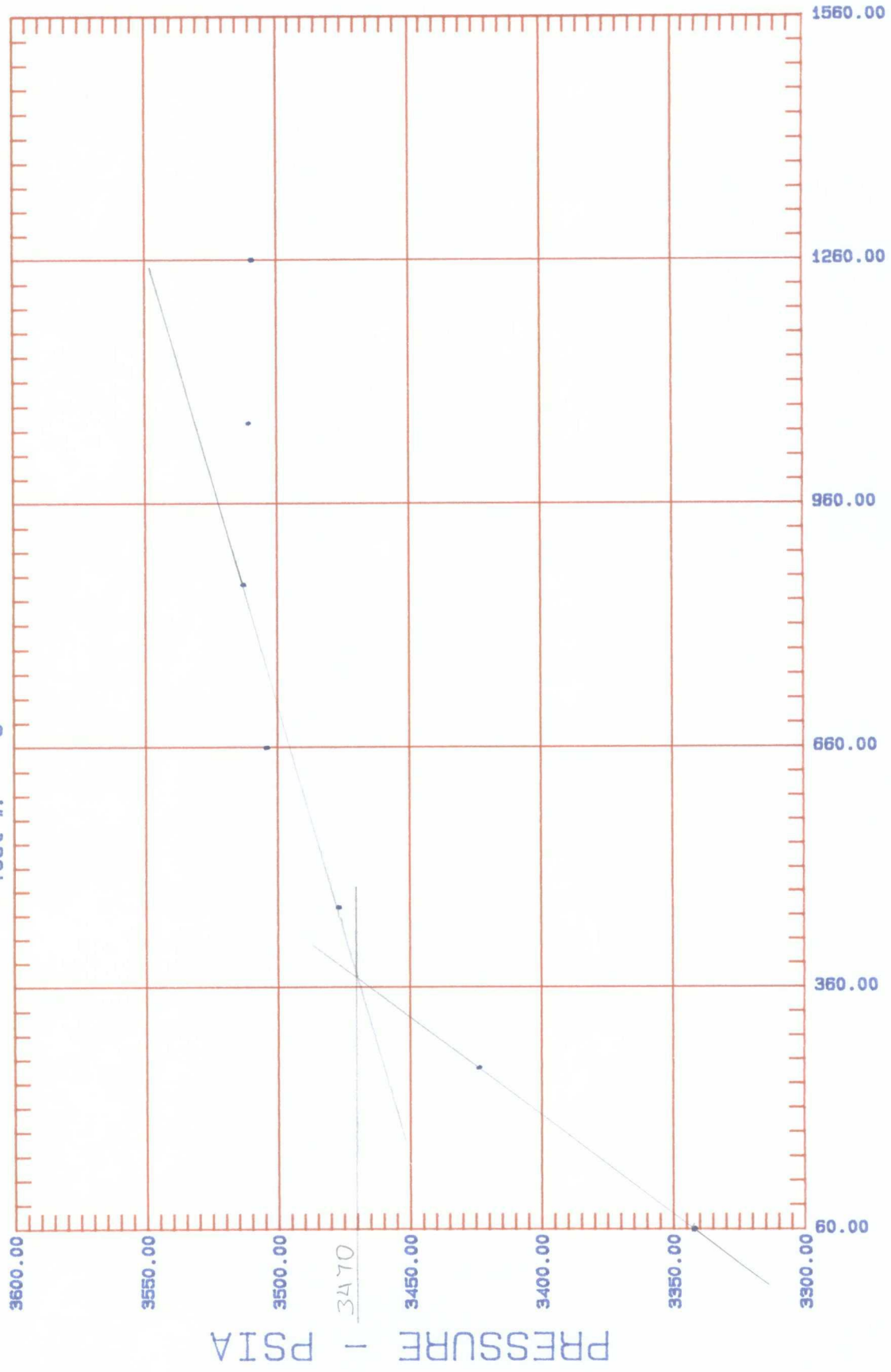
POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/23/99
PAGE START TIME: 11:26: 0
DATA FILE: 7

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	60.00	3341.99		
0.500	260.00	3423.77		
1.000	460.00	3476.96		
1.500	660.00	3503.79		
2.000	860.00	3512.64		
2.500	1060.00	3510.23		
3.000	1260.00	3508.88		

Plot starting date: 8/23/99
 time: 11:26: 0
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "B" #9
 Well #: 8
 Test #: 8
 Location: GRAYBURG--JACKSON
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 3456'



FLOW RATE - BBL/DAY

PRESSURE - PSIA

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #9
WELL NUMBER: 8
TEST NUMBER: 8
LOCATION: GRAYBURG-JACKSON
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: 8/23/99
PAGE START TIME: 11:26: 0
DATA FILE: 7

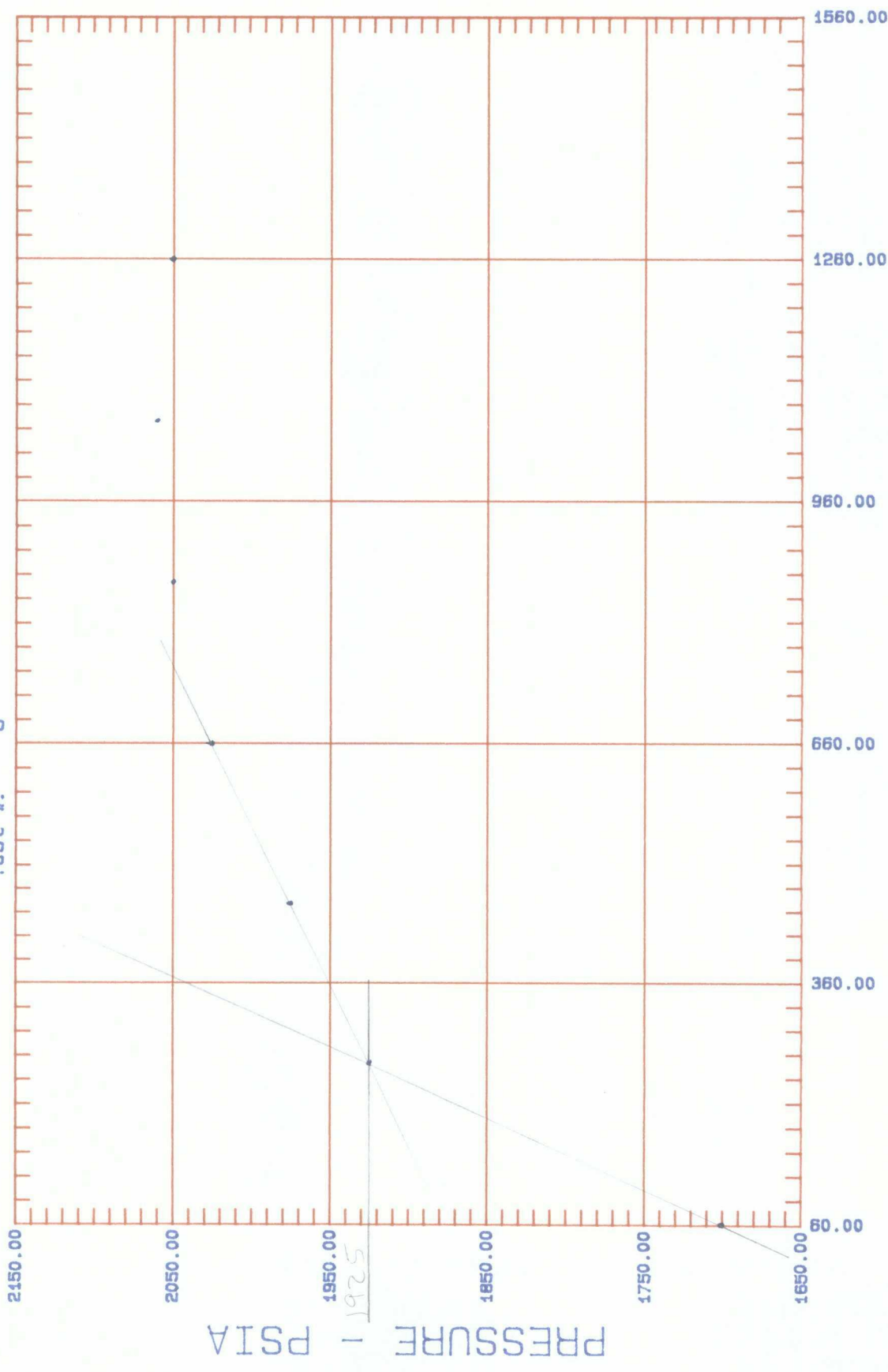
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	60.00	1700.00		
0.500	260.00	1925.00		
1.000	460.00	1975.00		
1.500	660.00	2025.00		
2.000	860.00	2050.00		
2.500	1060.00	2060.00		
3.000	1260.00	2050.00		

Plot starting date: 8/23/99
time: 11:26: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #9
Well #: 8
Test #: 8

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



FLOW RATE - BBLs/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL B #11
WELL NUMBER: 4
TEST NUMBER: 4
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 2944'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/17/99
PAGE START TIME: 12:43:38
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		78.97	SPSI 1600
-0.002	0.00	2940.04		
0.033	300.00		78.97	
0.031	300.00	2945.05		
0.064	300.00		78.96	
0.066	300.00	2950.00		
0.099	300.00		78.94	
0.097	300.00	2946.72		
0.130	300.00		78.93	
0.133	300.00	2950.05		
0.166	300.00		78.92	
0.164	300.00	2973.97		
0.197	300.00		78.90	
0.199	300.00	2998.52		
0.228	300.00		78.89	
0.231	300.00	3013.22		
0.264	300.00		78.89	
0.262	300.00	3026.46		
0.295	300.00		78.89	
0.297	300.00	3034.81		
0.330	300.00		78.88	
0.328	300.00	3042.79		
0.361	300.00		78.87	
0.364	300.00	3049.17		
0.397	300.00		78.83	
0.395	300.00	3054.08		
0.428	300.00		78.77	
0.431	300.00	3057.98		
0.459	300.00		78.74	
0.462	300.00	3061.44		
0.495	300.00		78.62	
0.493	300.00	3064.37		
0.526	300.00		78.57	
0.528	300.00	3067.28		
0.561	600.00		78.51	
0.559	600.00	3069.28		
0.592	600.00		78.38	
0.594	600.00	3124.05		
0.628	600.00		78.23	
0.626	600.00	3141.08		
0.659	600.00		78.11	
0.661	600.00	3153.84		
0.694	600.00		77.94	
0.692	600.00	3162.54		
0.725	600.00		77.80	
0.728	600.00	3169.61		
0.759	600.00		77.64	
0.757	600.00	3175.98		
0.790	600.00		77.51	
0.793	600.00	3179.05		

PAGE START DATE: 8/17/99
PAGE START TIME: 13:33:12
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.826	600.00		77.38	
0.824	600.00	3184.46		
0.858	600.00		77.26	
0.856	600.00	3186.30		
0.889	600.00		77.12	
0.892	600.00	3188.68		
0.925	600.00		77.04	
0.923	600.00	3190.59		
0.956	600.00		76.97	
0.958	600.00	3193.09		
0.991	600.00		76.88	SPSI 1935
0.989	600.00	3193.83		
1.021	900.00		76.85	
1.024	900.00	3192.42		
1.057	900.00		76.66	
1.055	900.00	3224.63		
1.088	900.00		76.53	
1.091	900.00	3241.62		
1.119	900.00		76.37	
1.122	900.00	3249.32		
1.155	900.00		76.18	
1.153	900.00	3255.66		
1.186	900.00		76.05	
1.188	900.00	3258.16		
1.221	900.00		75.94	
1.219	900.00	3258.93		
1.252	900.00		75.87	
1.255	900.00	3258.21		
1.288	900.00		75.80	
1.286	900.00	3257.52		
1.319	900.00		75.76	
1.322	900.00	3258.32		
1.350	900.00		75.72	
1.353	900.00	3260.60		
1.386	900.00		75.69	
1.384	900.00	3262.36		
1.417	900.00		75.68	
1.419	900.00	3261.60		
1.452	900.00		75.68	
1.451	900.00	3263.24		
1.483	900.00		75.68	SPSI 2010
1.485	900.00	3265.46		
1.518	1200.00		75.69	
1.516	1200.00	3279.62		
1.549	1200.00		75.70	
1.552	1200.00	3293.65		
1.585	1200.00		75.74	
1.583	1200.00	3296.53		
1.616	1200.00		75.79	
1.618	1200.00	3296.32		

PAGE START DATE: 8/17/99
PAGE START TIME: 14:22:30
DATA FILE: 2

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.648	1200.00		75.83	
1.650	1200.00	3296.86		
1.681	1200.00		75.87	
1.683	1200.00	3297.38		
1.716	1200.00		75.96	
1.714	1200.00	3297.33		
1.748	1200.00		76.07	
1.750	1200.00	3298.90		
1.783	1200.00		76.21	
1.781	1200.00	3300.98		
1.814	1200.00		76.34	
1.817	1200.00	3302.96		
1.845	1200.00		76.46	
1.848	1200.00	3303.13		
1.881	1200.00		76.60	
1.879	1200.00	3305.77		
1.912	1200.00		76.72	
1.914	1200.00	3305.08		
1.948	1200.00		76.87	
1.946	1200.00	3303.04		
1.979	1200.00		76.98	SPSI 2070
1.981	1200.00	3300.86		
2.014	1500.00		77.08	
2.012	1500.00	3278.63		
2.045	1500.00		77.24	
2.047	1500.00	3320.07		
2.076	1500.00		77.38	
2.079	1500.00	3326.83		
2.112	1500.00		77.53	
2.110	1500.00	3327.82		
2.143	1500.00		77.68	
2.145	1500.00	3326.44		
2.178	1500.00		77.86	
2.176	1500.00	3328.18		
2.209	1500.00		78.06	
2.212	1500.00	3337.21		
2.245	1500.00		78.28	
2.243	1500.00	3339.34		
2.276	1500.00		78.44	
2.279	1500.00	3335.65		
2.311	1500.00		78.59	
2.309	1500.00	3332.76		
2.342	1500.00		78.74	
2.341	1500.00	3329.39		
2.374	1500.00		78.88	
2.376	1500.00	3326.45		
2.409	1500.00		79.05	
2.407	1500.00	3324.41		
2.440	1500.00		79.18	
2.443	1500.00	3322.83		

PAGE START DATE: 8/17/99
PAGE START TIME: 15:12:13
DATA FILE: 2

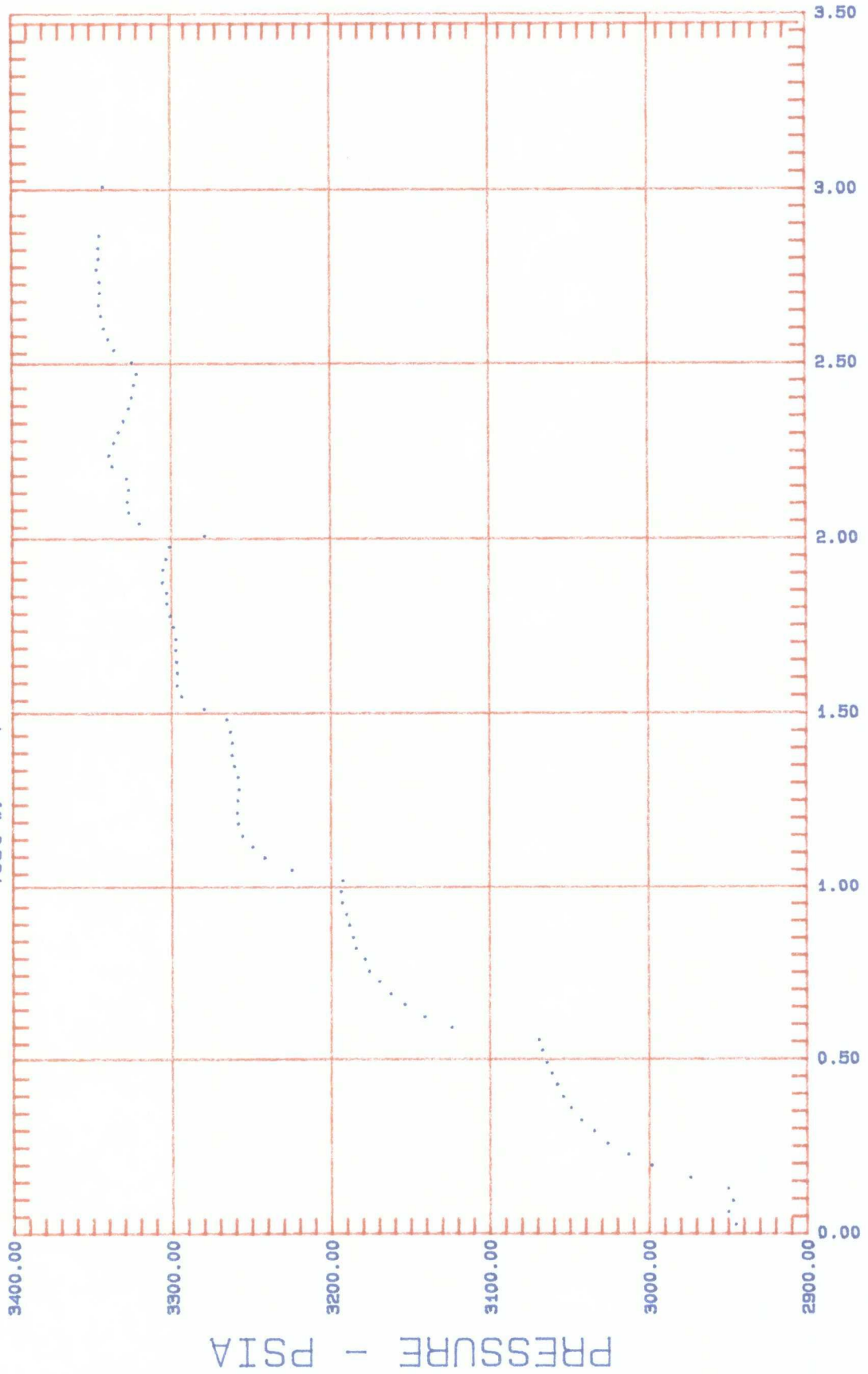
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.476	1500.00		79.34	
2.474	1500.00	3321.32		
2.509	1800.00		79.47	
2.507	1800.00	3324.56		
2.540	1800.00		79.64	
2.543	1800.00	3335.65		
2.571	1800.00		79.84	
2.574	1800.00	3339.65		
2.607	1800.00		80.08	
2.605	1800.00	3342.04		
2.638	1800.00		80.29	
2.640	1800.00	3344.02		
2.673	1800.00		80.53	
2.671	1800.00	3345.18		
2.704	1800.00		80.72	
2.707	1800.00	3344.39		
2.740	1800.00		80.90	
2.738	1800.00	3344.73		
2.771	1800.00		81.07	
2.774	1800.00	3346.59		
2.802	1800.00		81.20	
2.805	1800.00	3344.91		
2.838	1800.00		81.36	
2.836	1800.00	3345.56		
2.869	1800.00		81.47	
2.871	1800.00	3344.45		
3.014	1800.00		81.92	
3.012	1800.00	3342.06		

Plot starting date: 8/17/99
time: 12:43:38
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL B #11
Well #: 4
Test #: 4

Location: KEEL FIELD
Operator: D. GRYSER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 2944'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL B #11
WELL NUMBER: 4
TEST NUMBER: 4
LOCATION: KEEL FIELD
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 2944'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/17/99
PAGE START TIME: 12:43: 0
DATA FILE: 3

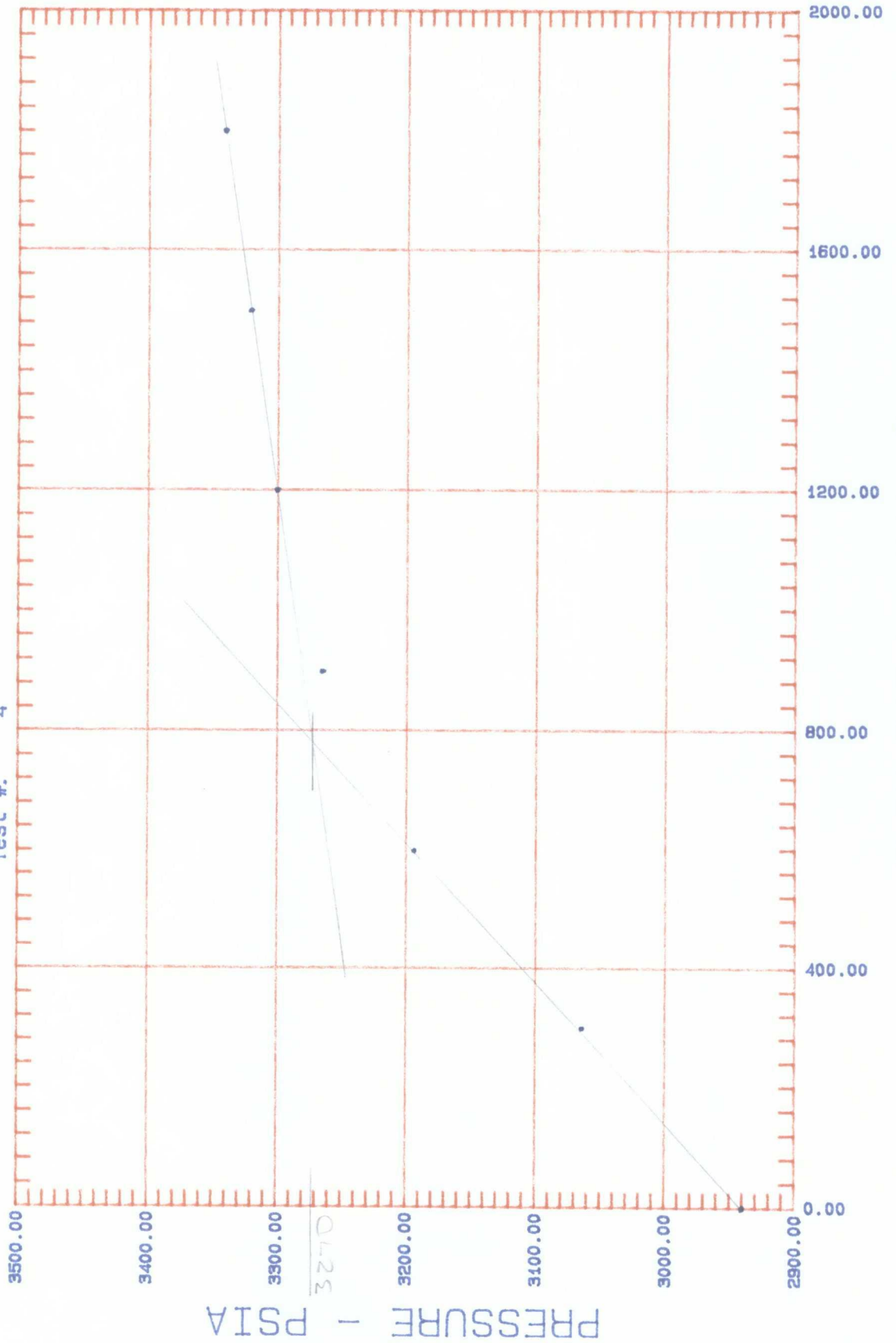
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	2940.04		
0.500	300.00	3064.37		
1.000	600.00	3193.83		
1.500	900.00	3265.46		
2.000	1200.00	3300.86		
2.500	1500.00	3321.32		
3.000	1800.00	3342.06		

Plot starting date: 8/17/99
time: 12:43: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL B #11
Well #: 4
Test #: 4

Location: KEEL FIELD
Operator: D. GRYSER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 2944'



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: KEEL B #11
WELL NUMBER: 4
TEST NUMBER: 4
LOCATION: KEEL FIELD
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: 8/17/99
PAGE START TIME: 12:43: 0
DATA FILE: 3

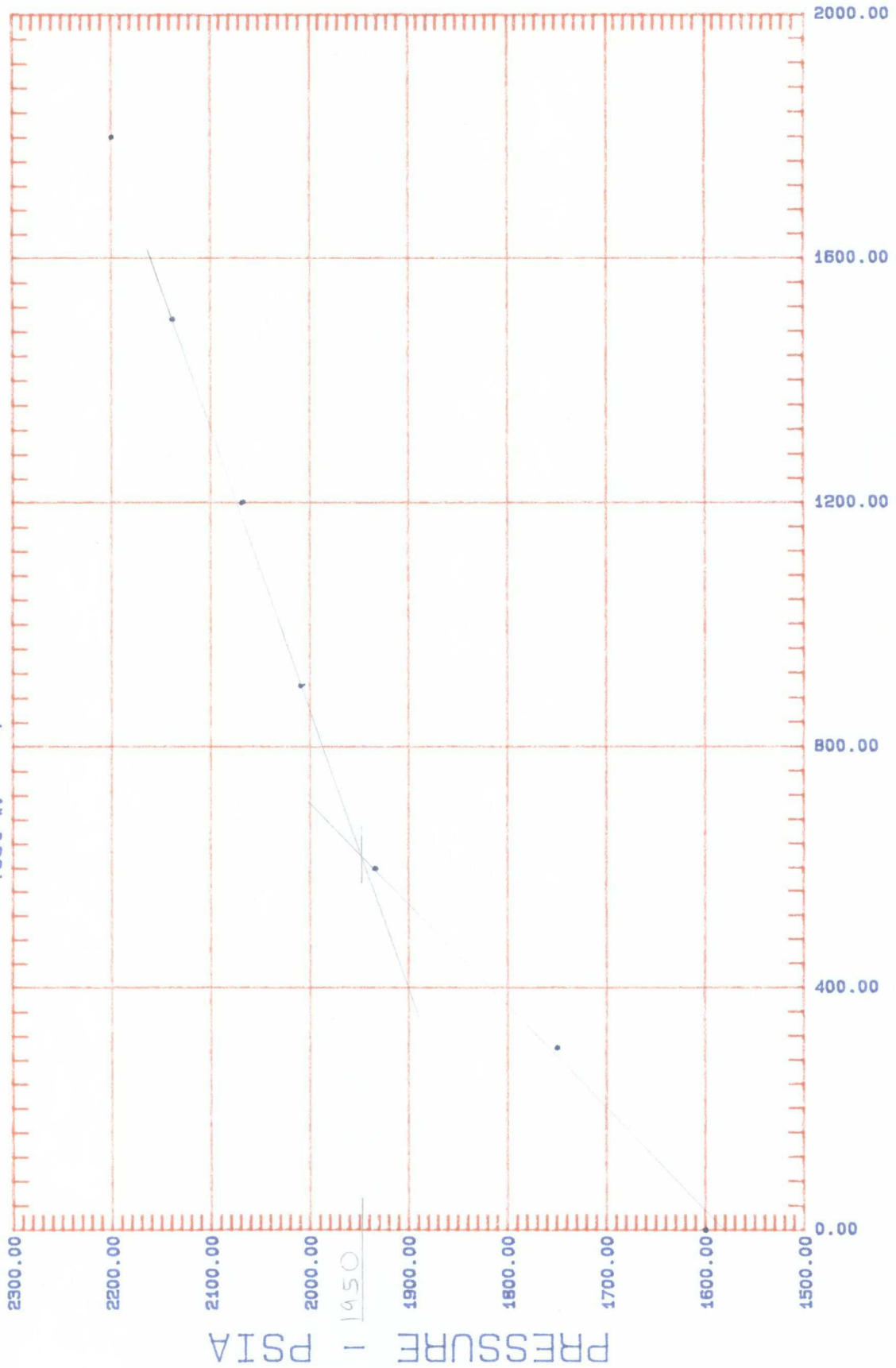
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1600.00		
0.500	300.00	1750.00		
1.000	600.00	1935.00		
1.500	900.00	2010.00		
2.000	1200.00	2070.00		
2.500	1500.00	2140.00		
3.000	1800.00	2200.00		

Plot starting date: 8/17/99
time: 12:43:00
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: KEEL B #11
Well #: 4
Test #: 4

Location: KEEL FIELD
Operator: D. GRYDER
Comments: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #14
WELL NUMBER: 11
TEST NUMBER: 11
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3385'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/26/99
PAGE START TIME: 9:34:23
DATA FILE: 9

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00		81.48	SPSI 1625
-0.002	0.00	3132.73		
0.031	200.00		81.52	
0.033	200.00	3133.77		
0.066	200.00		81.54	
0.064	200.00	3154.97		
0.097	200.00		81.54	
0.100	200.00	3175.22		
0.133	200.00		81.53	
0.131	200.00	3185.89		
0.164	200.00		81.53	
0.166	200.00	3197.17		
0.199	200.00		81.55	
0.198	200.00	3206.49		
0.231	200.00		81.56	
0.233	200.00	3216.35		
0.262	200.00		81.54	
0.264	200.00	3224.08		
0.297	200.00		81.51	
0.295	200.00	3231.16		
0.328	200.00		81.49	
0.331	200.00	3239.05		
0.364	200.00		81.46	
0.362	200.00	3245.66		
0.395	200.00		81.42	
0.397	200.00	3253.28		
0.431	200.00		81.39	
0.429	200.00	3259.32		
0.462	200.00		81.36	
0.464	200.00	3266.00		
0.493	200.00		81.32	
0.495	200.00	3270.84		
0.528	400.00		81.29	
0.526	400.00	3276.37		
0.559	400.00		81.25	
0.562	400.00	3288.94		
0.595	400.00		81.20	
0.593	400.00	3303.28		
0.626	400.00		81.14	
0.629	400.00	3321.30		
0.662	400.00		81.04	
0.660	400.00	3334.25		
0.693	400.00		80.98	
0.691	400.00	3346.85		
0.724	400.00		80.90	
0.726	400.00	3358.02		
0.759	400.00		80.82	
0.757	400.00	3368.19		
0.791	400.00		80.75	
0.793	400.00	3379.42		

PAGE START DATE: 8/26/99
PAGE START TIME: 10:23:59
DATA FILE: 9

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.827	400.00		80.67	
0.825	400.00	3390.66		
0.859	400.00		80.59	
0.857	400.00	3397.56		
0.890	400.00		80.52	
0.892	400.00	3406.51		
0.925	400.00		80.44	
0.923	400.00	3413.99		
0.956	400.00		80.37	
0.959	400.00	3422.45		
0.991	400.00		80.29	SPSI 1975
0.989	400.00	3429.43		
1.022	600.00		80.21	
1.024	600.00	3443.14		
1.058	600.00		80.07	
1.056	600.00	3456.60		
1.089	600.00		79.89	
1.091	600.00	3467.38		
1.120	600.00		79.65	
1.122	600.00	3474.79		
1.155	600.00		79.43	
1.153	600.00	3481.53		
1.186	600.00		79.25	
1.189	600.00	3489.48		
1.222	600.00		79.08	
1.220	600.00	3495.20		
1.253	600.00		78.97	
1.256	600.00	3502.62		
1.289	600.00		78.86	
1.287	600.00	3508.91		
1.320	600.00		78.76	
1.322	600.00	3515.56		
1.351	600.00		78.66	
1.353	600.00	3520.51		
1.386	600.00		78.52	
1.384	600.00	3524.71		
1.417	600.00		78.40	
1.420	600.00	3527.21		
1.453	600.00		78.25	
1.451	600.00	3529.32		
1.484	600.00		78.14	
1.487	600.00	3532.34		
1.515	800.00		78.04	
1.518	800.00	3534.97		
1.549	800.00		77.94	
1.552	800.00	3543.13		
1.585	800.00		77.80	
1.583	800.00	3551.54		
1.616	800.00		77.67	
1.618	800.00	3558.51		

PAGE START DATE: 8/26/99
PAGE START TIME: 11:13:14
DATA FILE: 9

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.647	800.00		77.52	
1.650	800.00	3563.73		
1.681	800.00		77.38	
1.683	800.00	3568.05		
1.716	800.00		77.24	
1.714	800.00	3570.98		
1.747	800.00		77.15	
1.750	800.00	3574.65		
1.783	800.00		77.06	
1.781	800.00	3577.08		
1.814	800.00		76.95	
1.816	800.00	3576.11		
1.849	800.00		76.81	
1.848	800.00	3575.08		
1.881	800.00		76.73	
1.883	800.00	3574.23		
1.912	800.00		76.68	
1.914	800.00	3574.02		
1.947	800.00		76.64	
1.945	800.00	3575.30		
1.978	800.00		76.63	SPSI 2110
1.981	800.00	3578.89		
2.014	1000.00		76.63	
2.012	1000.00	3584.57		
2.045	1000.00		76.62	
2.048	1000.00	3590.23		
2.081	1000.00		76.61	
2.079	1000.00	3593.65		
2.112	1000.00		76.61	
2.114	1000.00	3597.30		
2.143	1000.00		76.61	
2.145	1000.00	3597.46		
2.178	1000.00		76.62	
2.176	1000.00	3598.19		
2.209	1000.00		76.64	
2.212	1000.00	3598.58		
2.245	1000.00		76.68	
2.243	1000.00	3600.42		
2.276	1000.00		76.73	
2.279	1000.00	3601.20		
2.312	1000.00		76.79	
2.310	1000.00	3602.34		
2.343	1000.00		76.86	
2.341	1000.00	3602.37		
2.374	1000.00		76.93	
2.376	1000.00	3602.83		
2.409	1000.00		77.02	
2.407	1000.00	3603.74		
2.441	1000.00		77.11	
2.443	1000.00	3602.52		

PAGE START DATE: 8/26/99
PAGE START TIME: 12: 2:56
DATA FILE: 9

GAUGE S/N: 77675

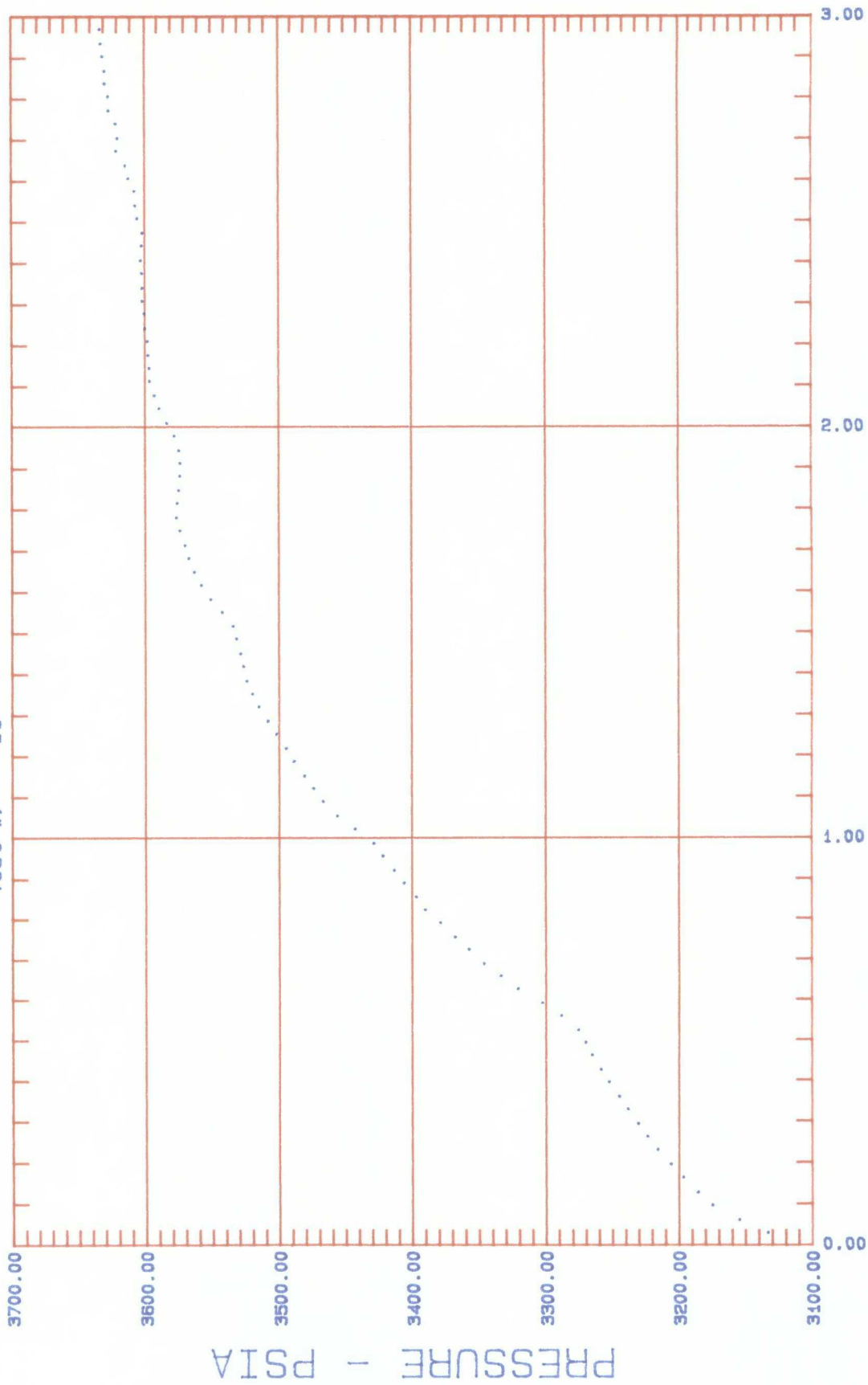
DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.476	1000.00		77.21	SPSI 2150
2.474	1000.00	3601.64		
2.507	1200.00		77.30	
2.509	1200.00	3606.15		
2.542	1200.00		77.42	
2.541	1200.00	3607.78		
2.574	1200.00		77.52	
2.576	1200.00	3608.42		
2.605	1200.00		77.63	
2.607	1200.00	3612.80		
2.640	1200.00		77.74	
2.638	1200.00	3615.07		
2.671	1200.00		77.84	
2.674	1200.00	3621.82		
2.707	1200.00		77.96	
2.705	1200.00	3620.40		
2.738	1200.00		78.07	
2.741	1200.00	3622.16		
2.774	1200.00		78.20	
2.772	1200.00	3627.39		
2.805	1200.00		78.33	
2.807	1200.00	3628.01		
2.836	1200.00		78.47	
2.838	1200.00	3630.27		
2.871	1200.00		78.61	
2.869	1200.00	3630.32		
2.902	1200.00		78.72	
2.905	1200.00	3631.98		
2.938	1200.00		78.86	
2.936	1200.00	3633.48		
2.969	1200.00		78.97	
2.972	1200.00	3633.73		
3.000	1200.00		79.09	
3.003	1200.00	3632.71		
3.036	1200.00		79.20	
3.034	1200.00	3608.72		
3.067	1200.00		79.28	
3.069	1200.00	3606.41		
3.102	1200.00		79.37	
3.101	1200.00	3601.58		
3.134	1200.00		79.39	
3.136	1200.00	3591.92		
3.169	1200.00		79.49	
3.167	1200.00	3566.52		

Plot starting date: 8/26/99
time: 9:34:23

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #14
Well #: 11
Test #: 11

Location: GRAYBURG--JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3385'

Gauge S/N 77675



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #14
WELL NUMBER: 11
TEST NUMBER: 11
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3385'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/26/99
PAGE START TIME: 9:34: 0
DATA FILE: 10

GAUGE S/N: 77675

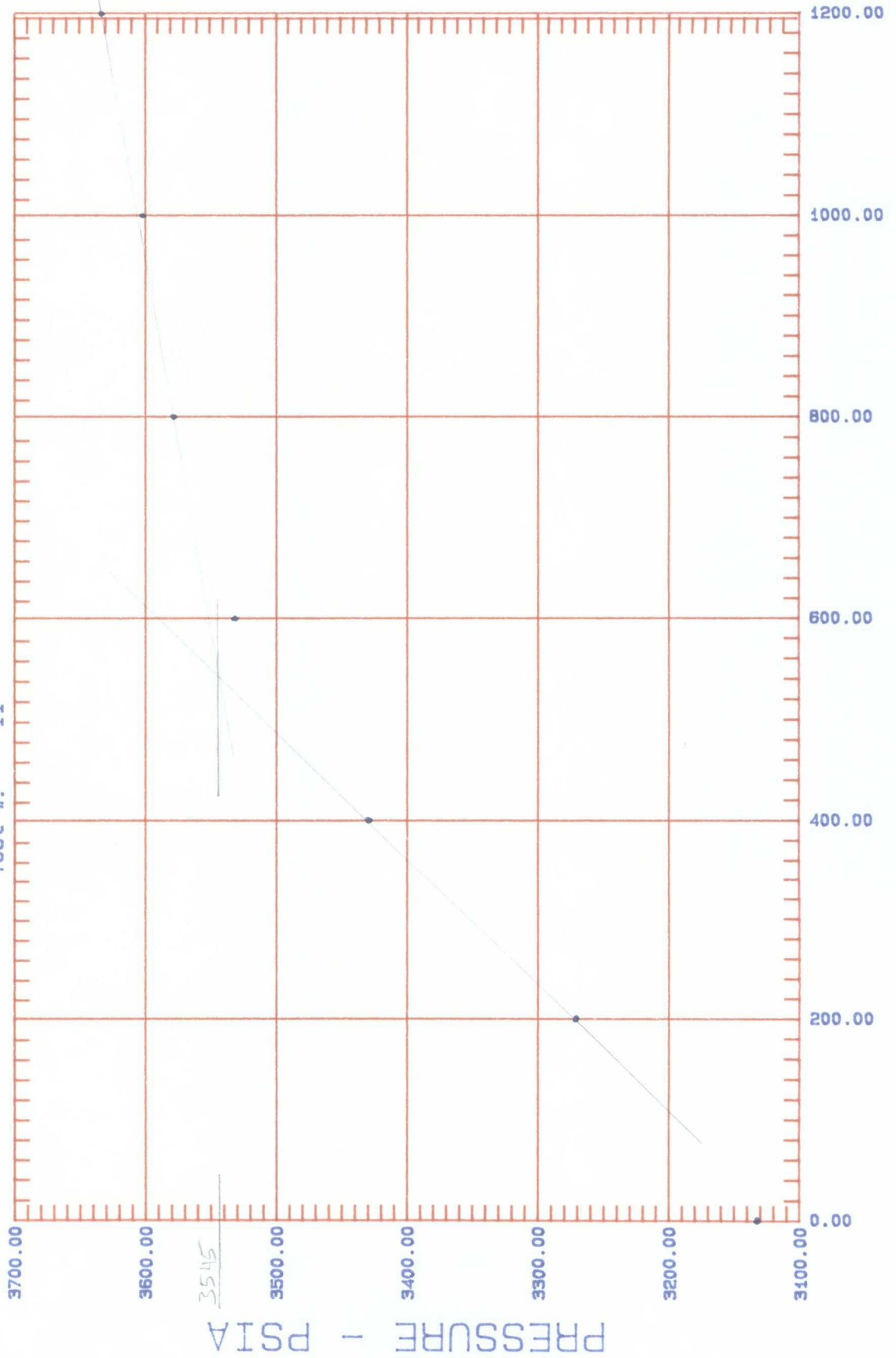
DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	3132.73		
0.500	200.00	3270.84		
1.000	400.00	3429.43		
1.500	600.00	3532.34		
2.000	800.00	3578.89		
2.500	1000.00	3601.64		
3.000	1200.00	3633.73		

Plot starting date: 8/26/99
time: 9:34: 0

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #14
Well #: 11
Test #: 11

Location: GRAYBURG--JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3385'

Gauge S/N 77675



FLOW RATE - BBLs/DAY

PRESSURE - PSIA

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #14
WELL NUMBER: 11
TEST NUMBER: 11
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST SURF/RATE
GAUGE SET @ SURFACE

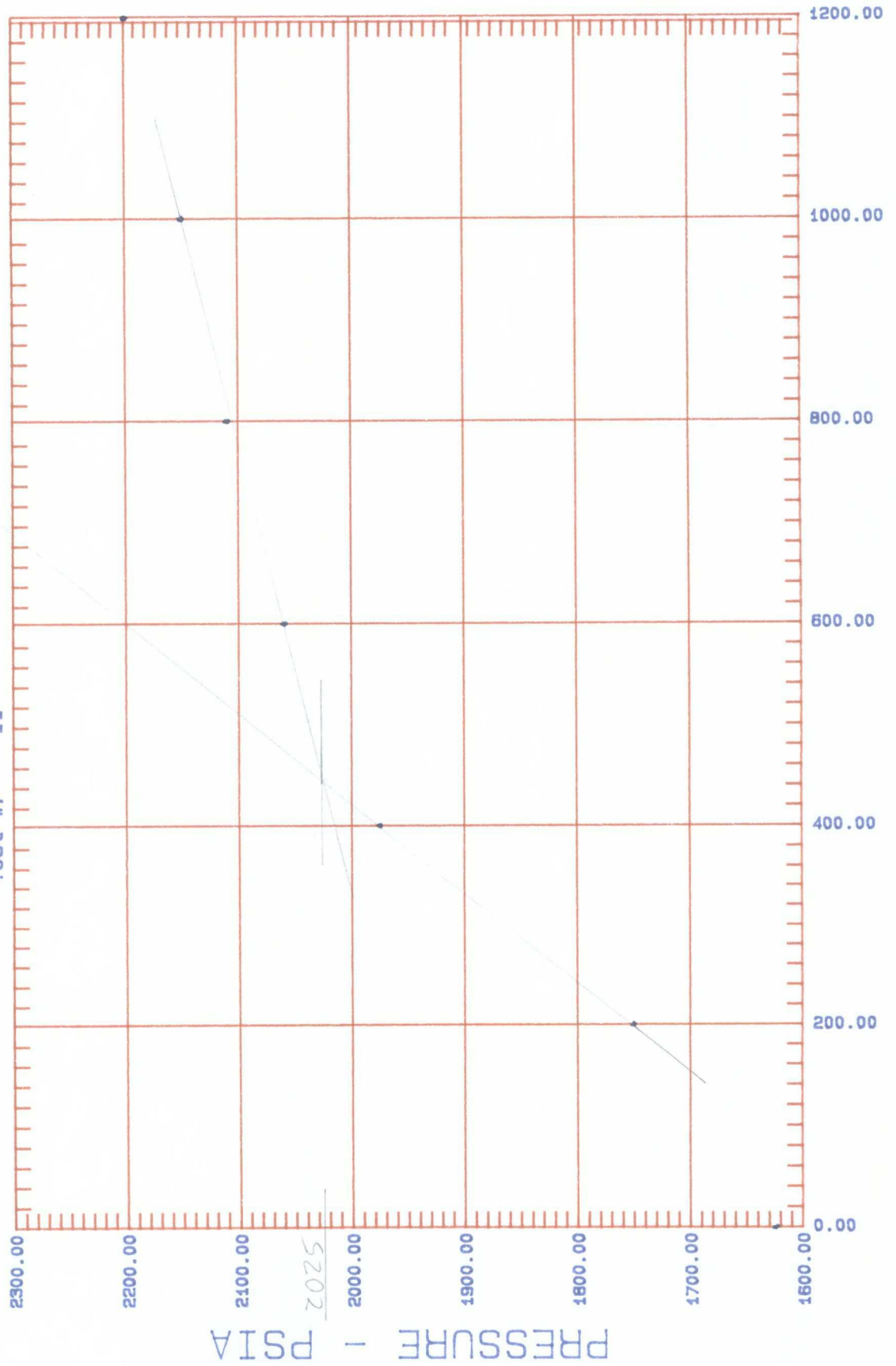
POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/26/99
PAGE START TIME: 9:34: 0
DATA FILE: 10

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	0.00	1625.00		
0.500	200.00	1750.00		
1.000	400.00	1975.00		
1.500	600.00	2060.00		
2.000	800.00	2110.00		
2.500	1000.00	2150.00		
3.000	1200.00	2200.00		

Plot starting date: 8/26/99
 time: 9:34: 0
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "B" #14
 Well #: 11
 Test #: 11
 Location: GRAYBURG--JACKSON
 Operator: D. GRYDER
 Comments: STEP-RATE TEST SURF/RATE
 GAUGE SET @ SURFACE



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #19
WELL NUMBER: 9
TEST NUMBER: 9
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3364'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/24/99
PAGE START TIME: 10:55:16
DATA FILE: 7

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	80.00		79.54	SPSI 1750
0.003	80.00	3309.42		
0.035	280.00		79.56	
0.033	280.00	3311.99		
0.066	280.00		79.58	
0.069	280.00	3316.31		
0.102	280.00		79.59	
0.100	280.00	3319.76		
0.133	280.00		79.61	
0.136	280.00	3323.35		
0.164	280.00		79.62	
0.167	280.00	3326.28		
0.200	280.00		79.62	
0.198	280.00	3329.01		
0.231	280.00		79.62	
0.233	280.00	3331.96		
0.266	280.00		79.61	
0.264	280.00	3334.35		
0.298	280.00		79.60	
0.300	280.00	3336.99		
0.333	280.00		79.59	
0.331	280.00	3339.14		
0.364	280.00		79.58	
0.367	280.00	3341.48		
0.395	280.00		79.56	
0.398	280.00	3343.39		
0.431	280.00		79.54	
0.429	280.00	3345.22		
0.462	280.00		79.53	
0.464	280.00	3347.21		
0.497	280.00		79.51	
0.496	280.00	3348.87		
0.529	480.00		79.48	SPSI 1920
0.531	480.00	3352.97		
0.564	480.00		79.46	
0.562	480.00	3356.82		
0.595	480.00		79.46	
0.598	480.00	3360.90		
0.626	480.00		79.45	
0.629	480.00	3364.31		
0.662	480.00		79.43	
0.660	480.00	3367.38		
0.693	480.00		79.42	
0.696	480.00	3370.70		
0.729	480.00		79.38	
0.727	480.00	3373.23		
0.760	480.00		79.34	
0.762	480.00	3376.04		
0.795	480.00		79.31	
0.793	480.00	3378.43		

PAGE START DATE: 8/24/99
PAGE START TIME: 11:44:51
DATA FILE: 7

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.826	480.00		79.29	
0.829	480.00	3380.79		
0.860	480.00		79.25	
0.858	480.00	3382.31		
0.891	480.00		79.20	
0.893	480.00	3383.65		
0.926	480.00		79.16	
0.924	480.00	3384.87		
0.958	480.00		79.16	
0.960	480.00	3384.95		
0.993	480.00		79.11	SPSI 1960
0.991	480.00	3387.00		
1.023	680.00		79.05	
1.026	680.00	3390.53		
1.059	680.00		78.97	
1.057	680.00	3394.11		
1.090	680.00		78.84	
1.092	680.00	3397.65		
1.125	680.00		78.75	
1.123	680.00	3400.52		
1.156	680.00		78.62	
1.159	680.00	3403.38		
1.188	680.00		78.51	
1.190	680.00	3405.72		
1.223	680.00		78.41	
1.221	680.00	3407.92		
1.254	680.00		78.27	
1.257	680.00	3410.16		
1.290	680.00		78.13	
1.288	680.00	3412.06		
1.321	680.00		77.96	
1.323	680.00	3413.95		
1.352	680.00		77.87	
1.354	680.00	3415.67		
1.388	680.00		77.76	
1.386	680.00	3417.24		
1.419	680.00		77.67	
1.421	680.00	3418.90		
1.454	680.00		77.57	
1.452	680.00	3420.28		
1.484	680.00		77.48	SPSI 2000
1.487	680.00	3421.74		
1.520	980.00		77.35	
1.518	980.00	3424.21		
1.551	980.00		77.26	
1.554	980.00	3429.00		
1.587	980.00		77.17	
1.585	980.00	3432.48		
1.618	980.00		77.09	
1.620	980.00	3435.96		

PAGE START DATE: 8/24/99
PAGE START TIME: 12:34:14
DATA FILE: 7

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBL/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.649	980.00		77.02	
1.652	980.00	3438.75		
1.683	980.00		76.95	
1.685	980.00	3441.32		
1.718	980.00		76.87	
1.716	980.00	3443.54		
1.749	980.00		76.80	
1.752	980.00	3445.78		
1.785	980.00		76.74	
1.783	980.00	3447.58		
1.816	980.00		76.69	
1.818	980.00	3449.61		
1.847	980.00		76.65	
1.849	980.00	3451.40		
1.883	980.00		76.62	
1.881	980.00	3452.83		
1.914	980.00		76.60	
1.916	980.00	3454.36		
1.949	980.00		76.61	
1.947	980.00	3455.63		
1.981	980.00		76.62	SPSI 2040
1.984	980.00	3457.42		
2.012	1280.00		76.65	
2.015	1280.00	3460.46		
2.048	1280.00		76.73	
2.046	1280.00	3463.88		
2.079	1280.00		76.78	
2.081	1280.00	3467.05		
2.114	1280.00		76.84	
2.113	1280.00	3469.44		
2.146	1280.00		76.90	
2.148	1280.00	3470.73		
2.181	1280.00		76.99	
2.179	1280.00	3472.73		
2.212	1280.00		77.07	
2.215	1280.00	3475.09		
2.243	1280.00		77.16	
2.246	1280.00	3476.95		
2.279	1280.00		77.27	
2.277	1280.00	3478.62		
2.310	1280.00		77.37	
2.313	1280.00	3480.40		
2.346	1280.00		77.51	
2.344	1280.00	3481.90		
2.377	1280.00		77.63	
2.379	1280.00	3483.63		
2.412	1280.00		77.77	
2.410	1280.00	3484.94		
2.443	1280.00		77.89	
2.446	1280.00	3486.36		

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PAGE START TIME: 13:23:52
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GAUGE S/N: 77675

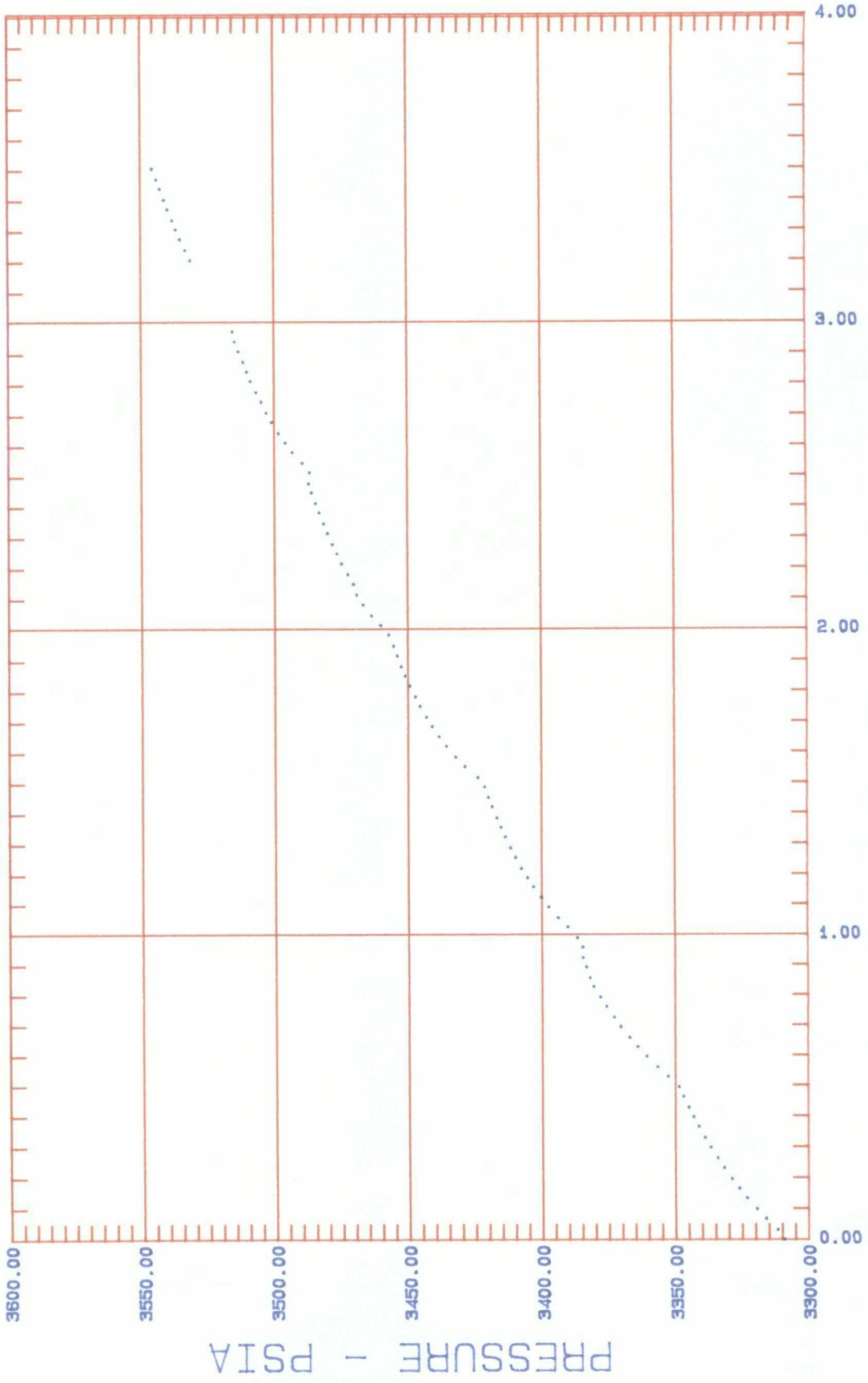
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2.475	1280.00	3487.43		
2.509	1580.00		78.15	
2.511	1580.00	3486.83		
2.544	1580.00		78.28	
2.542	1580.00	3489.79		
2.575	1580.00		78.38	
2.578	1580.00	3493.46		
2.606	1580.00		78.51	
2.609	1580.00	3496.02		
2.642	1580.00		78.59	
2.640	1580.00	3498.67		
2.673	1580.00		78.71	
2.676	1580.00	3501.21		
2.709	1580.00		78.85	
2.707	1580.00	3503.24		
2.740	1580.00		78.99	
2.742	1580.00	3505.06		
2.775	1580.00		79.16	
2.773	1580.00	3507.01		
2.806	1580.00		79.32	
2.809	1580.00	3509.08		
2.837	1580.00		79.48	
2.840	1580.00	3510.53		
2.873	1580.00		79.65	
2.871	1580.00	3511.92		
2.904	1580.00		79.80	
2.907	1580.00	3513.61		
2.940	1580.00		79.95	
2.938	1580.00	3515.13		
2.973	1580.00		80.10	SPSI 2110
2.971	1580.00	3515.89		
3.204	1880.00		80.94	
3.202	1880.00	3531.75		
3.237	1880.00		81.11	
3.235	1880.00	3533.65		
3.268	1880.00		81.29	
3.271	1880.00	3535.54		
3.299	1880.00		81.45	
3.302	1880.00	3537.07		
3.335	1880.00		81.62	
3.333	1880.00	3538.49		
3.366	1880.00		81.75	
3.369	1880.00	3540.12		
3.402	1880.00		81.89	
3.400	1880.00	3541.50		
3.433	1880.00		82.00	
3.435	1880.00	3543.04		
3.468	1880.00		82.11	
3.466	1880.00	3544.34		

PAGE START DATE: 8/24/99
PAGE START TIME: 14:25:14
DATA FILE: 7

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
3.499	1880.00		82.21	
3.502	1880.00	3545.89		

Plot starting date: 8/24/99
 time: 10:55:16
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "B" #19
 Well #: 9
 Test #: 9
 Location: GRAYBURG-JACKSON
 Operator: D. GRYDER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 3364'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #19
WELL NUMBER: 9
TEST NUMBER: 9
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3364'

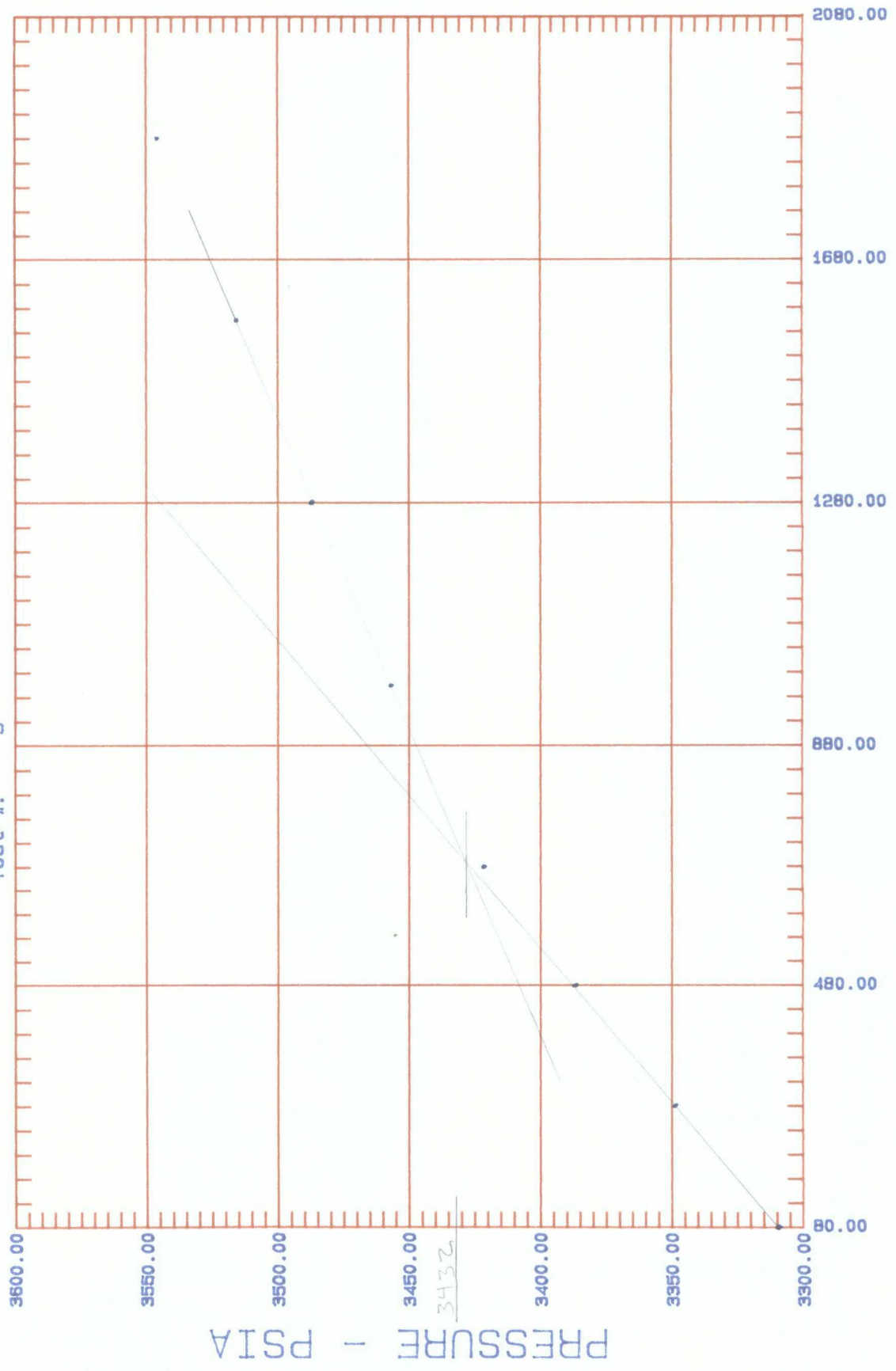
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2	63150
3	77675
4	

PAGE START DATE: 8/24/99
PAGE START TIME: 10:55: 0
DATA FILE: 8

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	80.00	3309.42		
0.500	280.00	3348.87		
1.000	480.00	3387.00		
1.500	680.00	3421.74		
2.000	980.00	3457.42		
2.500	1280.00	3487.43		
3.000	1580.00	3515.89		
3.500	1880.00	3545.89		

Plot starting date: 8/24/99
 time: 10:55:00
 Gauge S/N 77675
 Company: LIGHTFOOT WIRELINE SERV
 Client: DEVON ENERGY
 Well name: J.L. KEEL "B" #19
 Well #: 9
 Test #: 9
 Location: GRAYBURG--JACKSON
 Operator: D. GRYSER
 Comments: STEP-RATE TEST BHP/RATE
 GAUGE SET @ 3364'



FLOW RATE - BBL/DAY

PRESSURE - PSIA

3432

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #19
WELL NUMBER: 9
TEST NUMBER: 9
LOCATION: GRAYBURG-JACKSON
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: 8/24/99
PAGE START TIME: 10:55: 0
DATA FILE: 8

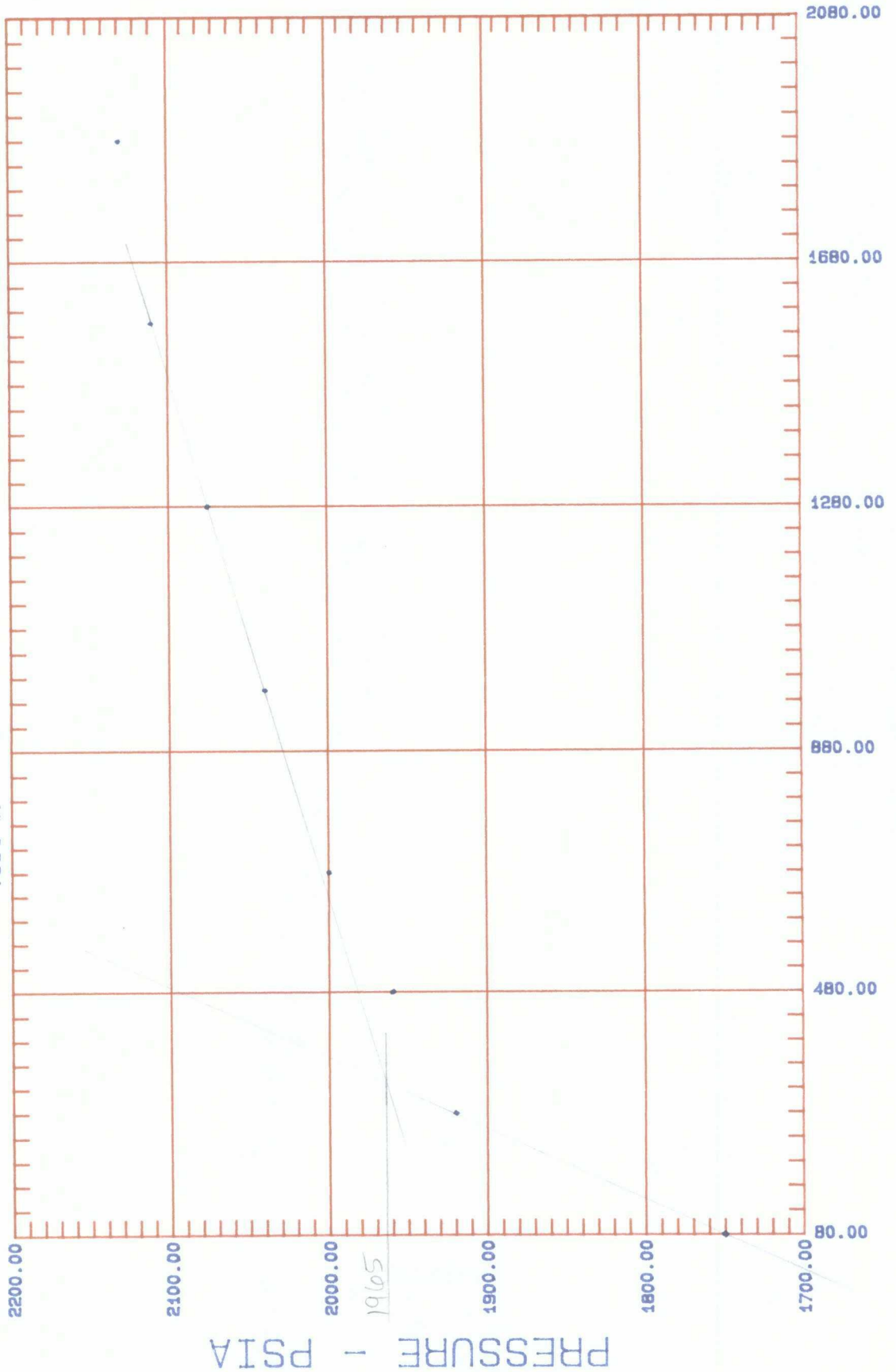
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	80.00	1750.00		
0.500	280.00	1920.00		
1.000	480.00	1960.00		
1.500	680.00	2000.00		
2.000	980.00	2040.00		
2.500	1280.00	2075.00		
3.000	1580.00	2110.00		
3.500	1880.00	2130.00		

Plot starting date: 8/24/99
time: 10:55: 0
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #19
Well #: 9
Test #: 9

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



FLOW RATE - BBL/DAY

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #37
WELL NUMBER: 10
TEST NUMBER: 10
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3321'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/25/99
PAGE START TIME: 11:46:25
DATA FILE: 8

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	130.00		81.85	SPSI 1700
0.003	130.00	3161.37		
0.031	330.00		81.90	
0.033	330.00	3169.37		
0.066	330.00		81.88	
0.064	330.00	3188.25		
0.098	330.00		81.88	
0.100	330.00	3199.79		
0.133	330.00		81.88	
0.131	330.00	3207.81		
0.164	330.00		81.89	
0.167	330.00	3215.29		
0.200	330.00		81.89	
0.198	330.00	3221.08		
0.231	330.00		81.89	
0.233	330.00	3226.93		
0.262	330.00		81.88	
0.264	330.00	3231.35		
0.298	330.00		81.88	
0.296	330.00	3235.35		
0.329	330.00		81.87	
0.331	330.00	3239.47		
0.364	330.00		81.87	
0.362	330.00	3242.87		
0.395	330.00		81.86	
0.398	330.00	3246.49		
0.431	330.00		81.86	
0.429	330.00	3249.38		
0.462	330.00		81.86	
0.464	330.00	3252.20		
0.497	330.00		81.87	SPSI 1840
0.495	330.00	3254.93		
0.526	530.00		81.86	
0.529	530.00	3264.53		
0.562	530.00		81.84	
0.560	530.00	3273.65		
0.593	530.00		81.82	
0.595	530.00	3283.20		
0.628	530.00		81.80	
0.626	530.00	3288.91		
0.659	530.00		81.78	
0.662	530.00	3294.82		
0.695	530.00		81.75	
0.693	530.00	3299.05		
0.726	530.00		81.73	
0.729	530.00	3303.60		
0.757	530.00		81.72	
0.760	530.00	3307.23		
0.793	530.00		81.71	
0.791	530.00	3310.53		

PAGE START DATE: 8/25/99
PAGE START TIME: 12:35:51
DATA FILE: 8

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.824	530.00		81.72	
0.826	530.00	3315.10		
0.857	530.00		81.72	
0.859	530.00	3319.21		
0.893	530.00		81.68	
0.891	530.00	3322.63		
0.924	530.00		81.60	
0.926	530.00	3325.78		
0.959	530.00		81.53	
0.957	530.00	3328.97		
0.990	530.00		81.52	SPSI 1925
0.993	530.00	3332.11		
1.021	730.00		81.51	
1.023	730.00	3341.65		
1.056	730.00		81.47	
1.054	730.00	3351.79		
1.088	730.00		81.43	
1.090	730.00	3359.70		
1.123	730.00		81.35	
1.121	730.00	3365.73		
1.154	730.00		81.34	
1.157	730.00	3371.65		
1.190	730.00		81.25	
1.188	730.00	3376.69		
1.221	730.00		81.24	
1.223	730.00	3382.00		
1.252	730.00		81.21	
1.254	730.00	3384.51		
1.288	730.00		81.12	
1.286	730.00	3386.77		
1.319	730.00		80.99	
1.321	730.00	3389.16		
1.354	730.00		80.94	
1.352	730.00	3391.15		
1.385	730.00		80.89	
1.388	730.00	3393.34		
1.421	730.00		80.83	
1.419	730.00	3395.47		
1.452	730.00		80.77	
1.454	730.00	3397.60		
1.486	730.00		80.71	SPSI 1975
1.484	730.00	3399.47		
1.516	930.00		80.72	
1.519	930.00	3408.12		
1.552	930.00		80.75	
1.550	930.00	3414.44		
1.583	930.00		80.64	
1.585	930.00	3422.34		
1.618	930.00		80.54	
1.616	930.00	3427.49		

PAGE START DATE: 8/25/99
PAGE START TIME: 13:25:23
DATA FILE: 8

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
1.649	930.00		80.46	
1.652	930.00	3432.15		
1.683	930.00		80.41	
1.685	930.00	3436.46		
1.718	930.00		80.31	
1.716	930.00	3440.31		
1.749	930.00		80.23	
1.752	930.00	3442.80		
1.780	930.00		80.15	
1.783	930.00	3446.77		
1.816	930.00		80.06	
1.814	930.00	3450.26		
1.847	930.00		79.99	
1.849	930.00	3453.04		
1.883	930.00		80.01	
1.881	930.00	3455.38		
1.914	930.00		79.93	
1.916	930.00	3458.71		
1.949	930.00		79.89	
1.947	930.00	3460.36		
1.979	930.00		79.87	SPSI 2050
1.982	930.00	3462.70		
2.015	1130.00		79.81	
2.013	1130.00	3470.10		
2.046	1130.00		79.72	
2.048	1130.00	3476.65		
2.077	1130.00		79.60	
2.079	1130.00	3480.06		
2.111	1130.00		79.46	
2.114	1130.00	3484.14		
2.147	1130.00		79.33	
2.145	1130.00	3487.85		
2.178	1130.00		79.23	
2.181	1130.00	3491.38		
2.209	1130.00		79.14	
2.212	1130.00	3493.71		
2.245	1130.00		79.04	
2.243	1130.00	3496.28		
2.276	1130.00		78.95	
2.278	1130.00	3499.02		
2.311	1130.00		78.88	
2.309	1130.00	3501.89		
2.343	1130.00		78.81	
2.345	1130.00	3504.24		
2.378	1130.00		78.74	
2.376	1130.00	3506.26		
2.409	1130.00		78.68	
2.412	1130.00	3508.57		
2.440	1130.00		78.65	
2.443	1130.00	3511.10		

PAGE START DATE: 8/25/99
PAGE START TIME: 14:15: 0
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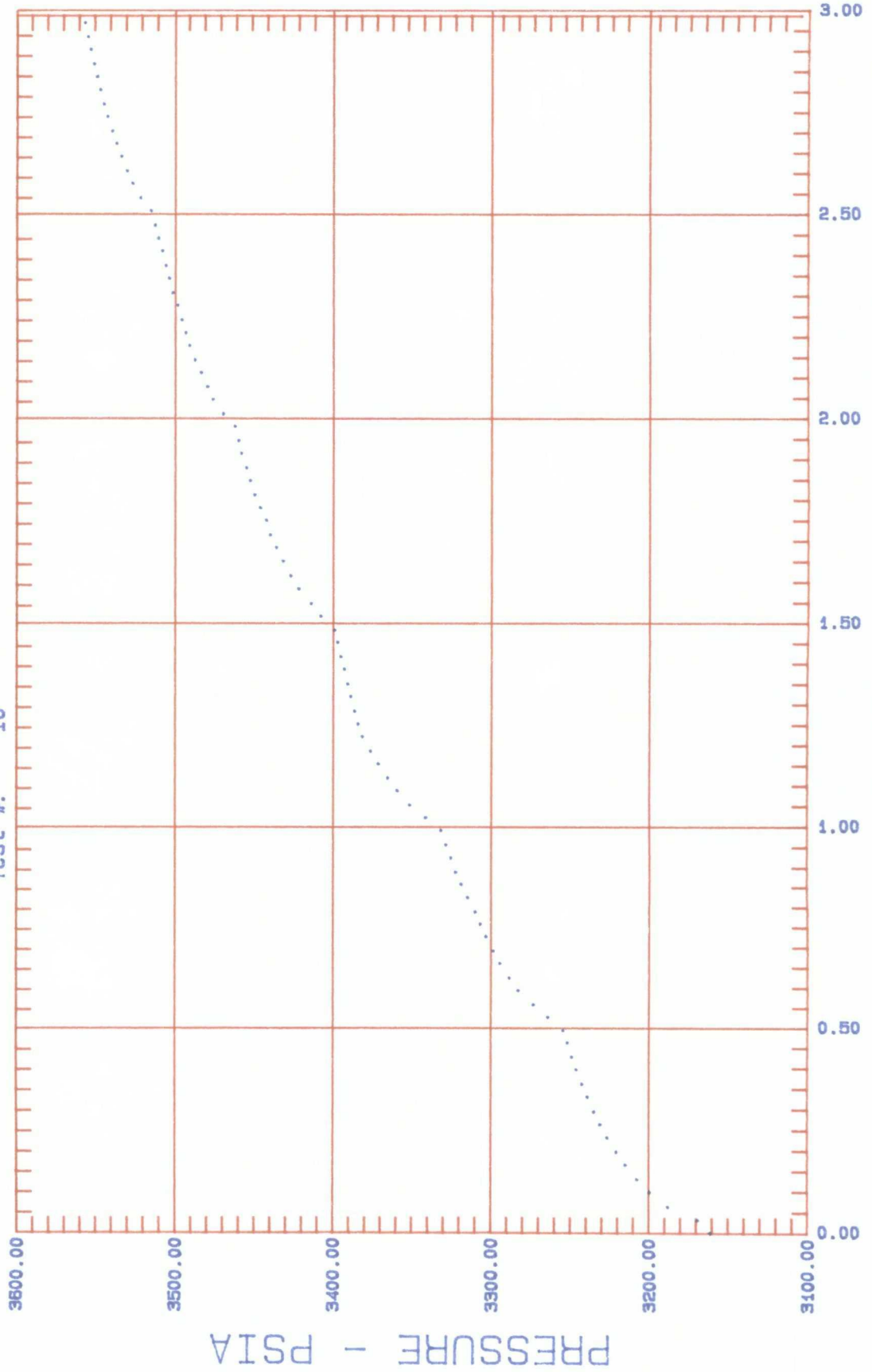
GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
2.476	1130.00		78.61	
2.474	1130.00	3513.18		
2.507	1130.00		78.56	SPSI 2110
2.509	1130.00	3515.74		
2.543	1130.00		78.52	
2.541	1130.00	3522.14		
2.574	1130.00		78.48	
2.576	1130.00	3527.21		
2.609	1130.00		78.44	
2.607	1130.00	3530.80		
2.640	1130.00		78.42	
2.643	1130.00	3534.50		
2.671	1130.00		78.39	
2.674	1130.00	3537.48		
2.707	1130.00		78.39	
2.705	1130.00	3540.17		
2.738	1130.00		78.37	
2.741	1130.00	3543.16		
2.774	1130.00		78.37	
2.772	1130.00	3545.40		
2.805	1130.00		78.36	
2.807	1130.00	3547.73		
2.836	1130.00		78.37	
2.838	1130.00	3549.53		
2.871	1130.00		78.37	
2.869	1130.00	3551.49		
2.902	1130.00		78.38	
2.905	1130.00	3553.74		
2.938	1130.00		78.41	
2.936	1130.00	3555.42		
2.969	1130.00		78.43	SPSI 2165
2.971	1130.00	3557.49		

Plot starting date: 8/25/99
time: 11:46:25
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #37
Well #: 10
Test #: 10

Location: GRAYBURG-JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3321'



DELTA TIME - HRS

COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #37
WELL NUMBER: 10
TEST NUMBER: 10
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3321'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/25/99
PAGE START TIME: 11:46: 0
DATA FILE: 9

GAUGE S/N: 77675

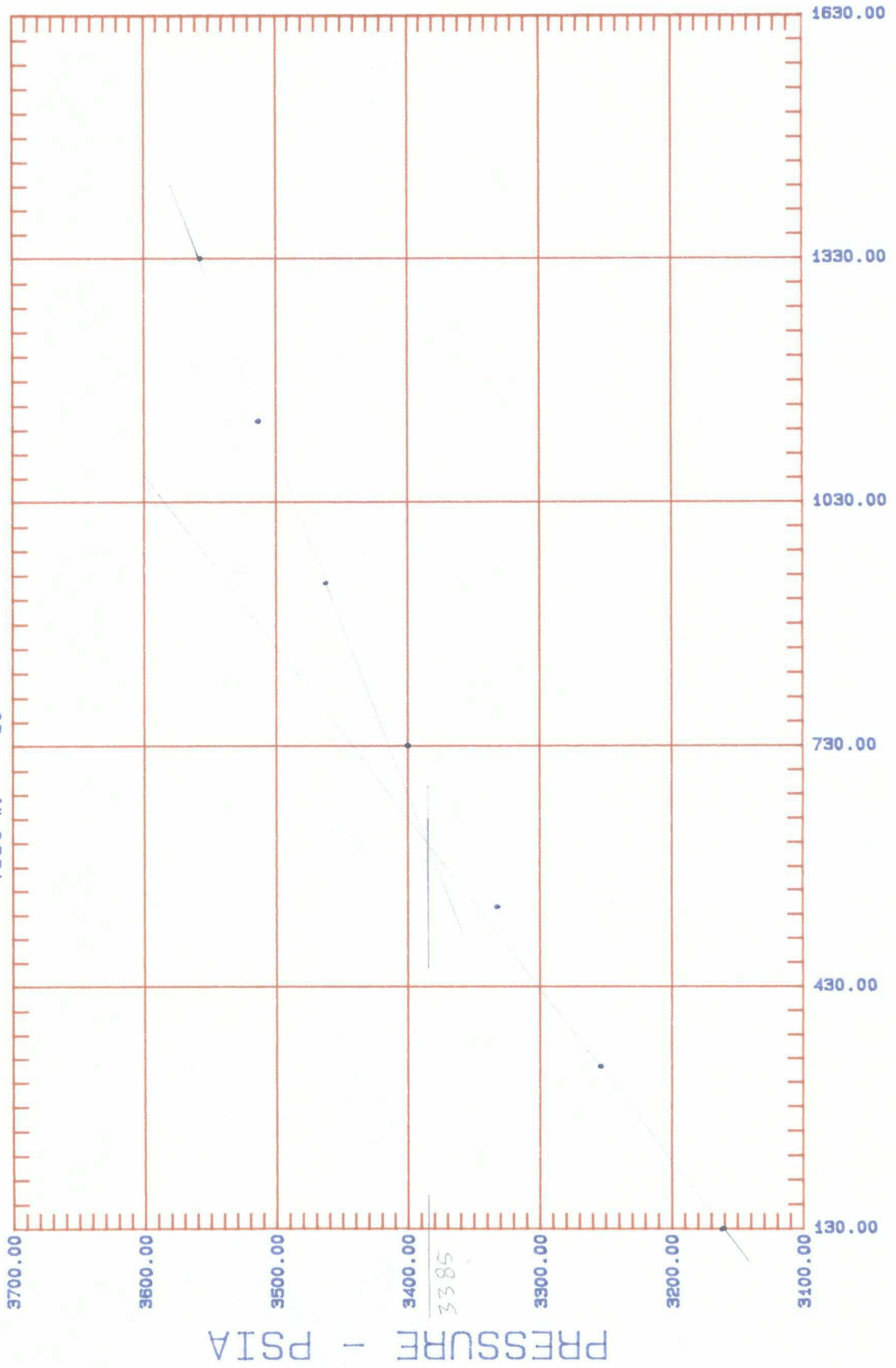
DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
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0.500	330.00	3254.93		
1.000	530.00	3332.11		
1.500	730.00	3399.47		
2.000	930.00	3462.70		
2.500	1130.00	3513.18		
3.000	1330.00	3557.49		

Plot starting date: 8/25/99
time: 11:46: 0

Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #37
Well #: 10
Test #: 10

Location: GRAYBURG--JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3324'



COMPANY: LIGHTFOOT WIRELINE SERV
CLIENT: DEVON ENERGY
GAUGE NUMBER: 77675
WELL NAME: J.L. KEEL "B" #37
WELL NUMBER: 10
TEST NUMBER: 10
LOCATION: GRAYBURG-JACKSON
TEST OPERATOR: D. GRYDER
COMMENTS: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3321'

POSITION	GAUGE SERIAL NUMBER
1	
2	63150
3	77675
4	

PAGE START DATE: 8/25/99
PAGE START TIME: 11:46: 0
DATA FILE: 9

GAUGE S/N: 77675

DELTA TIME HRS	FLOW RATE BBLs/DAY	PRESSURE PSIA	TEMPERATURE F	COMMENTS
0.000	130.00	1700.00		
0.500	330.00	1840.00		
1.000	530.00	1925.00		
1.500	730.00	1975.00		
2.000	930.00	2050.00		
2.500	1130.00	2110.00		
3.000	1330.00	2165.00		

Plot starting date: 8/25/99
time: 11:46:00
Gauge S/N 77675

Company: LIGHTFOOT WIRELINE SERV
Client: DEVON ENERGY
Well name: J.L. KEEL "B" #37
Well #: 10
Test #: 10

Location: GRAYBURG-JACKSON
Operator: D. GRYDER
Comments: STEP-RATE TEST BHP/RATE
GAUGE SET @ 3321'

