

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping204 N. Auburn
Farmington, New Mexico 87401
(505) 327-4892

December 8, 1993

Mr. Frank Chavez
NMOCD
1000 Rio Brazos Road
Aztec, NM 87410

Re: Sunco Disposal Well #1
NW/4 Section 2, T29N, R12W

RECEIVED
DEC - 9 1993
OIL CON. DIV
DIST. 9

Dear Mr. Chavez,

On December 7, 1993, Sunco ran a step rate injection test on the subject well. The well was fraced with 100,000# of sand since the January 14, 1993 step rate test. The data from the bottom hole pressure recorder indicates that a surface injection pressure of 2850 psig at 6.6 BPM can be achieved without breakover.

As a result of this test, Sunco requests administrative approval for an increase of the injection pressure to a maximum of 2850 psig.

Both the surface and bottom hole data are plotted on the attached Figure 1. I have attached the Western job log as Exhibit A and the bottom hole data as Exhibit B.

If you have any questions concerning this test, please don't hesitate to call.

Sincerely,

Paul C. Thompson, P.E.

cc: Chuck Baicgard (Sunco)

FIGURE #1

SUNCO SWD #1

STEP RATE TEST

December 7, 1993

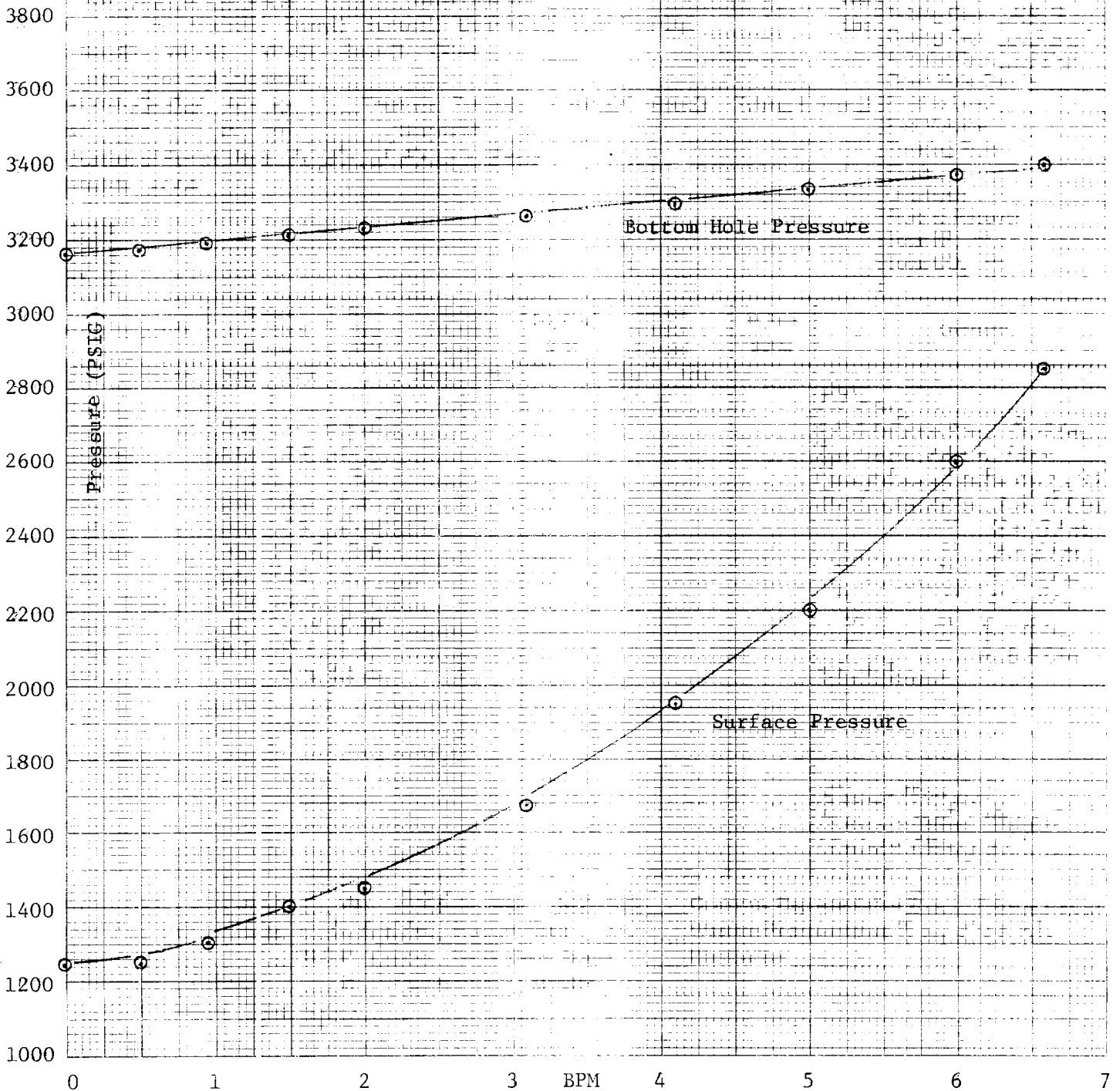
46 1323

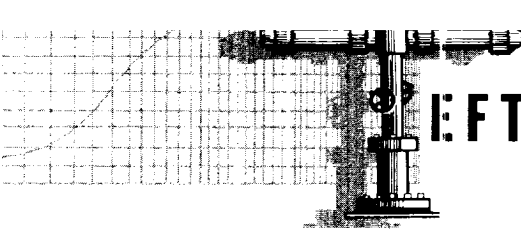
10 X 10 TO 1/4 INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

Pressure (PSIG)

Bottom Hole Pressure

Surface Pressure





BHP • BU • PI • DD • GWT • RFS • GOR • FL • TS

J. E. TELLER, INC.

reservoir engineering data

FARMINGTON, NEW MEXICO / MIDLAND, TEXAS
GRAND JUNCTION, COLORADO

P. O. Box 1198
Farmington, New Mexico 87499
(505) 325-1731

Farmington Fax (505) 325-1148
Midland Fax (915) 682-5329
Grand Junction Fax (303) 241-7634

EXHIBIT B

Sunco Trucking Co.

Sunco SWD No. 1

December 7, 1993

Serving the Rocky Mountain Area & Permian Basin Area

 *
 * EVENT SUMMARY *
 *

COMPANY : SUNCO

PAGE : B

WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD hh:mm:ss	Time hh:mm:ss	Test Time hhhh.hhhh	Key Event	Pressure Psig	Temp Deg F
12/07 10:34:30		1.8250	INSTRUMENT @4295'	3165.42	59.84
12/07 10:45:00		2.0000	STARTED PUMPING	3158.34	72.15
12/07 11:00:00		2.2500	RATE #1 - .50 BPM	3175.61	76.44
12/07 11:12:00		2.4500	RATE #2 - .95 BPM	3191.52	69.13
12/07 11:28:00		2.7167	RATE #3 - 1.50 BPM	3206.55	62.22
12/07 11:44:00		2.9833	RATE #4 - 2.00 BPM	3234.50	56.21
12/07 11:58:00		3.2167	RATE #5 - 3.00 BPM	3259.11	52.80
12/07 12:12:00		3.4500	RATE #6 - 4.00 BPM	3291.92	49.89
12/07 12:28:00		3.7167	RATE #7 - 5.00 BPM	3331.41	48.80
12/07 12:51:00		4.1000	RATE #8 - 6.00 BPM	3373.61	49.04
12/07 13:04:00		4.3167	RATE #9 - 6.60 BPM	3395.56	47.28
12/07 13:20:30		4.5917	PUMPING SHUT DOWN	3422.92	49.28
12/07 13:40:00		4.9167	INSTRUMENT OFF BOTTOM	3307.79	56.74

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	08:45:00	.0000	.01	56.56		
12/07	08:47:07	.0354	1.71	45.02		
12/07	08:47:15	.0375	1.73	44.97		
12/07	08:47:22	.0396	1.99	44.92		
12/07	08:47:30	.0417	2.01	44.86		
12/07	08:47:37	.0437	2.03	44.81		
12/07	08:47:45	.0458	2.05	44.76		
12/07	08:47:52	.0479	2.08	44.71		
12/07	08:48:00	.0500	2.11	44.65		
12/07	08:48:07	.0521	2.13	44.60		
12/07	08:48:15	.0542	2.14	44.55		
12/07	08:48:22	.0562	2.14	44.50		
12/07	08:48:30	.0583	2.13	44.45		
12/07	08:49:00	.0667	2.12	44.27		
12/07	08:49:30	.0750	2.11	44.16		
12/07	08:50:00	.0833	2.09	44.05		
12/07	08:50:30	.0917	2.08	43.93		
12/07	08:51:00	.1000	2.06	43.81		
12/07	08:51:30	.1083	2.05	43.71		
12/07	08:52:00	.1167	2.03	43.59		
12/07	08:52:30	.1250	2.02	43.46		
12/07	08:53:00	.1333	2.01	43.35		
12/07	08:53:30	.1417	2.00	43.23		
12/07	08:54:00	.1500	2.01	43.14		
12/07	08:54:30	.1583	2.02	43.01		
12/07	08:55:00	.1667	2.02	42.93		
12/07	08:55:30	.1750	2.01	42.85		
12/07	08:56:00	.1833	1.99	42.76		
12/07	08:56:30	.1917	1.97	42.68		
12/07	08:57:00	.2000	1.95	42.59		
12/07	08:57:30	.2083	1.93	42.50		
12/07	08:58:00	.2167	1.92	42.41		
12/07	08:58:30	.2250	3.00	42.34		
12/07	08:59:00	.2333	4.65	42.26		
12/07	08:59:30	.2417	10.28	42.17		
12/07	09:00:00	.2500	124.13	42.09		
12/07	09:00:30	.2583	1330.32	42.00		
12/07	09:01:00	.2667	1327.85	41.96		
12/07	09:01:30	.2750	1327.45	41.86		
12/07	09:02:00	.2833	1326.36	41.76		
12/07	09:02:30	.2917	1325.16	41.67		
12/07	09:03:00	.3000	1323.95	41.57		
12/07	09:03:30	.3083	1322.75	41.47		
12/07	09:04:00	.3167	1321.68	41.38		
12/07	09:04:30	.3250	1320.62	41.28		
12/07	09:05:00	.3333	1319.70	41.18		
12/07	09:05:30	.3417	1318.76	41.09		
12/07	09:06:00	.3500	1317.84	40.99		
12/07	09:06:30	.3583	1317.05	40.89		
12/07	09:07:00	.3667	1315.71	40.83		
12/07	09:07:30	.3750	1315.29	40.81		
12/07	09:08:00	.3833	1314.60	40.78		
12/07	09:08:30	.3917	1313.45	40.76		
12/07	09:09:00	.4000	1313.10	40.75		
12/07	09:09:30	.4083	1312.08	40.73		
12/07	09:10:00	.4167	1311.78	40.71		
12/07	09:10:30	.4250	1311.19	40.69		
12/07	09:11:00	.4333	1310.17	40.67		
12/07	09:11:30	.4417	1309.87	40.65		
12/07	09:12:00	.4500	1309.44	40.63		
12/07	09:12:30	.4583	1308.73	40.61		
12/07	09:13:00	.4667	1307.76	40.62		
12/07	09:13:30	.4750	1307.51	40.64		
12/07	09:14:00	.4833	1307.05	40.66		
12/07	09:14:30	.4917	1306.08	40.67		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	09:15:00	.5000	1305.83	40.69		
12/07	09:15:30	.5083	1305.49	40.71		
12/07	09:16:00	.5167	1304.95	40.73		
12/07	09:16:30	.5250	1304.11	40.75		
12/07	09:17:00	.5333	1303.86	40.77		
12/07	09:17:30	.5417	1303.49	40.78		
12/07	09:18:00	.5500	1303.06	40.81		
12/07	09:18:30	.5583	1302.63	40.83		
12/07	09:19:00	.5667	1302.16	40.85		
12/07	09:19:30	.5750	1301.67	40.89		
12/07	09:20:00	.5833	1301.25	40.93		
12/07	09:20:30	.5917	1300.89	40.97		
12/07	09:21:00	.6000	1300.56	41.02		
12/07	09:21:30	.6083	1300.11	41.06		
12/07	09:22:00	.6167	1294.70	41.10		
12/07	09:22:30	.6250	1291.08	41.14		
12/07	09:23:00	.6333	1291.07	41.19		
12/07	09:23:30	.6417	1291.04	41.23		
12/07	09:24:00	.6500	1291.00	41.27		
12/07	09:24:30	.6583	1290.96	41.32		
12/07	09:25:00	.6667	1290.93	41.37		
12/07	09:25:30	.6750	1290.89	41.41		
12/07	09:26:00	.6833	1290.85	41.47		
12/07	09:26:30	.6917	1290.83	41.53		
12/07	09:27:00	.7000	1290.81	41.57		
12/07	09:27:30	.7083	1290.80	41.63		
12/07	09:28:00	.7167	1290.80	41.68		
12/07	09:28:30	.7250	1290.82	41.74		
12/07	09:29:00	.7333	1291.05	41.79		
12/07	09:29:30	.7417	1291.44	41.84		
12/07	09:30:00	.7500	1291.76	41.90		
12/07	09:30:30	.7583	1291.76	41.96		
12/07	09:31:00	.7667	1292.07	42.02		
12/07	09:31:30	.7750	1292.08	42.08		
12/07	09:32:00	.7833	1292.31	42.15		
12/07	09:32:30	.7917	1292.67	42.22		
12/07	09:33:00	.8000	1292.68	42.28		
12/07	09:33:30	.8083	1292.90	42.35		
12/07	09:34:00	.8167	1293.31	42.41		
12/07	09:34:30	.8250	1293.33	42.48		
12/07	09:35:00	.8333	1293.86	42.55		
12/07	09:35:30	.8417	1294.24	42.62		
12/07	09:36:00	.8500	1294.77	42.68		
12/07	09:36:30	.8583	98.62	42.74		
12/07	09:37:00	.8667	1.37	42.81		
12/07	09:37:30	.8750	1.37	42.87		
12/07	09:38:00	.8833	1.37	42.92		
12/07	09:38:30	.8917	1.38	42.97		
12/07	09:39:00	.9000	1.38	43.02		
12/07	09:39:30	.9083	1.38	43.09		
12/07	09:40:00	.9167	1.39	43.13		
12/07	09:40:30	.9250	1.41	43.18		
12/07	09:41:00	.9333	1.41	43.23		
12/07	09:41:30	.9417	1.42	43.29		
12/07	09:42:00	.9500	1.42	43.35		
12/07	09:42:30	.9583	1.41	43.39		
12/07	09:43:00	.9667	1.40	43.43		
12/07	09:43:30	.9750	1.39	43.49		
12/07	09:44:00	.9833	1.38	43.55		
12/07	09:44:30	.9917	1.37	43.61		
12/07	09:45:00	1.0000	1.36	43.66		
12/07	09:45:30	1.0083	1.35	43.72		
12/07	09:46:00	1.0167	1.35	43.78		
12/07	09:46:30	1.0250	1.34	43.83		
12/07	09:47:00	1.0333	1.34	43.89		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	09:47:30	1.0417	1.33	43.94		
12/07	09:48:00	1.0500	1.32	44.00		
12/07	09:48:30	1.0583	1.31	44.06		
12/07	09:49:00	1.0667	1.31	44.12		
12/07	09:49:30	1.0750	1.30	44.19		
12/07	09:50:00	1.0833	1.29	44.25		
12/07	09:50:30	1.0917	1.28	44.32		
12/07	09:51:00	1.1000	1.26	44.33		
12/07	09:51:30	1.1083	1.23	44.40		
12/07	09:52:00	1.1167	1.21	44.46		
12/07	09:52:30	1.1250	1.18	44.53		
12/07	09:53:00	1.1333	1.16	44.60		
12/07	09:53:30	1.1417	1.14	44.66		
12/07	09:54:00	1.1500	1.12	44.73		
12/07	09:54:30	1.1583	1.10	44.80		
12/07	09:55:00	1.1667	1.08	44.85		
12/07	09:55:30	1.1750	1.05	44.93		
12/07	09:56:00	1.1833	1.03	45.02		
12/07	09:56:30	1.1917	1.00	45.09		
12/07	09:57:00	1.2000	.98	45.17		
12/07	09:57:30	1.2083	.96	45.26		
12/07	09:58:00	1.2167	.93	45.31		
12/07	09:58:30	1.2250	.90	45.40		
12/07	09:59:00	1.2333	.88	45.47		
12/07	09:59:30	1.2417	.86	45.55		
12/07	10:00:00	1.2500	.84	45.63		
12/07	10:00:30	1.2583	.82	45.72		
12/07	10:01:00	1.2667	.80	45.79		
12/07	10:01:30	1.2750	.78	45.85		
12/07	10:02:00	1.2833	.75	45.93		
12/07	10:02:30	1.2917	.72	46.01		
12/07	10:03:00	1.3000	.69	46.10		
12/07	10:03:30	1.3083	.66	46.18		
12/07	10:04:00	1.3167	.64	46.27		
12/07	10:04:30	1.3250	.62	46.35		
12/07	10:05:00	1.3333	.60	46.44		
12/07	10:05:30	1.3417	.57	46.49		
12/07	10:06:00	1.3500	.55	46.58		
12/07	10:06:30	1.3583	.51	46.66		
12/07	10:07:00	1.3667	.48	46.74		
12/07	10:07:30	1.3750	.44	46.81		
12/07	10:08:00	1.3833	.41	46.89		
12/07	10:08:30	1.3917	.38	46.97		
12/07	10:09:00	1.4000	.36	47.04		
12/07	10:09:30	1.4083	.34	47.12		
12/07	10:10:00	1.4167	.32	47.20		
12/07	10:10:30	1.4250	.31	47.27		
12/07	10:11:00	1.4333	.29	47.35		
12/07	10:11:30	1.4417	.28	47.42		
12/07	10:12:00	1.4500	.27	47.49		
12/07	10:12:30	1.4583	.26	47.57		
12/07	10:13:00	1.4667	.25	47.63		
12/07	10:13:30	1.4750	.24	47.61		
12/07	10:14:00	1.4833	.23	47.59		
12/07	10:14:30	1.4917	1.19	47.55		
12/07	10:15:00	1.5000	146.73	47.54		
12/07	10:15:30	1.5083	3030.09	47.53		
12/07	10:16:00	1.5167	2889.73	47.51		
12/07	10:16:30	1.5250	2856.80	47.51		
12/07	10:17:00	1.5333	2836.60	47.49		
12/07	10:17:30	1.5417	2819.44	47.49		
12/07	10:18:00	1.5500	2802.84	47.47		
12/07	10:18:30	1.5583	2463.50	47.46		
12/07	10:19:00	1.5667	156.40	47.37		
12/07	10:19:30	1.5750	41.03	47.31		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	10:20:00	1.5833	1.56	47.26		
12/07	10:20:30	1.5917	1.57	47.20		
12/07	10:21:00	1.6000	1.59	47.14		
12/07	10:21:30	1.6083	2.28	47.09		
12/07	10:22:00	1.6167	7.64	47.03		
12/07	10:22:30	1.6250	1239.99	46.97		
12/07	10:23:00	1.6333	1269.59	46.92		
12/07	10:23:30	1.6417	1284.81	46.86		
12/07	10:24:00	1.6500	1325.20	46.81		
12/07	10:24:30	1.6583	1384.39	46.75		
12/07	10:25:00	1.6667	1446.47	46.39		
12/07	10:25:30	1.6750	1531.32	46.53		
12/07	10:26:00	1.6833	1619.77	46.67		
12/07	10:26:30	1.6917	1708.50	46.81		
12/07	10:27:00	1.7000	1793.08	46.95		
12/07	10:27:30	1.7083	1894.81	47.09		
12/07	10:28:00	1.7167	1999.59	47.23		
12/07	10:28:30	1.7250	2102.72	47.37		
12/07	10:29:00	1.7333	2201.14	47.50		
12/07	10:29:30	1.7417	2296.25	47.64		
12/07	10:30:00	1.7500	2388.58	47.78		
12/07	10:30:30	1.7583	2484.80	47.92		
12/07	10:31:00	1.7667	2590.63	49.02		
12/07	10:31:30	1.7750	2690.88	50.56		
12/07	10:32:00	1.7833	2784.44	52.11		
12/07	10:32:30	1.7917	2882.38	53.66		
12/07	10:33:00	1.8000	2978.89	55.20		
12/07	10:33:30	1.8083	3067.61	56.75		
12/07	10:34:00	1.8167	3141.93	58.29		
12/07	10:34:30	1.8250	3165.42	59.84		
12/07	10:35:00	1.8333	3165.24	61.38		INSTRUMENT @4295'
12/07	10:35:30	1.8417	3166.38	62.92		
12/07	10:36:00	1.8500	3165.76	64.46		
12/07	10:36:30	1.8583	3165.13	66.00		
12/07	10:37:00	1.8667	3164.70	66.94		
12/07	10:37:30	1.8750	3164.66	67.36		
12/07	10:38:00	1.8833	3164.63	67.84		
12/07	10:38:30	1.8917	3164.50	68.23		
12/07	10:39:00	1.9000	3164.33	68.65		
12/07	10:39:30	1.9083	3162.79	69.08		
12/07	10:40:00	1.9167	3162.17	69.51		
12/07	10:40:30	1.9250	3161.59	69.94		
12/07	10:41:00	1.9333	3161.07	70.36		
12/07	10:41:30	1.9417	3161.02	70.79		
12/07	10:42:00	1.9500	3160.91	71.22		
12/07	10:42:30	1.9583	3159.94	71.65		
12/07	10:43:00	1.9667	3159.63	71.84		
12/07	10:43:30	1.9750	3159.40	71.92		
12/07	10:44:00	1.9833	3159.17	72.00		
12/07	10:44:30	1.9917	3158.95	72.07		
12/07	10:45:00	2.0000	3158.34	72.15		STARTED PUMPING
12/07	10:45:30	2.0083	3157.99	72.22		
12/07	10:46:00	2.0167	3157.77	72.31		
12/07	10:46:30	2.0250	3162.26	72.38		
12/07	10:47:00	2.0333	3158.91	72.46		
12/07	10:47:30	2.0417	3162.17	72.54		
12/07	10:48:00	2.0500	3158.55	72.61		
12/07	10:48:30	2.0583	3169.23	72.69		
12/07	10:49:00	2.0667	3162.62	73.15		
12/07	10:49:30	2.0750	3161.83	73.49		
12/07	10:50:00	2.0833	3162.44	73.83		
12/07	10:50:30	2.0917	3162.44	74.16		
12/07	10:51:00	2.1000	3162.42	74.50		
12/07	10:51:30	2.1083	3165.19	74.84		
12/07	10:52:00	2.1167	3165.28	75.17		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	10:52:30	2.1250	3165.92	75.51		
12/07	10:53:00	2.1333	3167.40	75.85		
12/07	10:53:30	2.1417	3167.66	76.18		
12/07	10:54:00	2.1500	3166.36	76.53		
12/07	10:54:30	2.1583	3169.77	76.86		
12/07	10:55:00	2.1667	3168.80	76.78		
12/07	10:55:30	2.1750	3172.58	76.75		
12/07	10:56:00	2.1833	3165.18	76.72		
12/07	10:56:30	2.1917	3174.27	76.68		
12/07	10:57:00	2.2000	3173.37	76.65		
12/07	10:57:30	2.2083	3173.23	76.61		
12/07	10:58:00	2.2167	3173.94	76.58		
12/07	10:58:30	2.2250	3174.93	76.55		
12/07	10:59:00	2.2333	3174.74	76.51		
12/07	10:59:30	2.2417	3175.28	76.48		
12/07	11:00:00	2.2500	3175.61	76.44		RATE #1 - .50 BPM
12/07	11:00:30	2.2583	3171.41	76.41		
12/07	11:01:00	2.2667	3178.63	76.28		
12/07	11:01:30	2.2750	3178.05	76.03		
12/07	11:02:00	2.2833	3182.22	75.78		
12/07	11:02:30	2.2917	3176.87	75.54		
12/07	11:03:00	2.3000	3180.59	75.29		
12/07	11:03:30	2.3083	3181.90	75.05		
12/07	11:04:00	2.3167	3189.68	74.80		
12/07	11:04:30	2.3250	3180.48	74.56		
12/07	11:05:00	2.3333	3186.95	74.31		
12/07	11:05:30	2.3417	3186.37	74.06		
12/07	11:06:00	2.3500	3179.55	73.81		
12/07	11:06:30	2.3583	3196.20	73.57		
12/07	11:07:00	2.3667	3185.97	73.20		
12/07	11:07:30	2.3750	3202.72	72.80		
12/07	11:08:00	2.3833	3187.84	72.39		
12/07	11:08:30	2.3917	3203.50	71.98		
12/07	11:09:00	2.4000	3187.79	71.58		
12/07	11:09:30	2.4083	3205.11	71.17		
12/07	11:10:00	2.4167	3189.40	70.76		
12/07	11:10:30	2.4250	3208.92	70.35		
12/07	11:11:00	2.4333	3190.18	69.95		
12/07	11:11:30	2.4417	3209.71	69.54		
12/07	11:12:00	2.4500	3191.52	69.13		RATE #2 - .95 BPM
12/07	11:12:30	2.4583	3208.30	68.73		
12/07	11:13:00	2.4667	3192.85	68.35		
12/07	11:13:30	2.4750	3197.17	68.05		
12/07	11:14:00	2.4833	3198.24	67.75		
12/07	11:14:30	2.4917	3198.04	67.46		
12/07	11:15:00	2.5000	3198.07	67.16		
12/07	11:15:30	2.5083	3202.07	66.86		
12/07	11:16:00	2.5167	3201.68	66.57		
12/07	11:16:30	2.5250	3201.70	66.27		
12/07	11:17:00	2.5333	3201.60	65.97		
12/07	11:17:30	2.5417	3201.62	65.67		
12/07	11:18:00	2.5500	3198.37	65.37		
12/07	11:18:30	2.5583	3198.42	65.07		
12/07	11:19:00	2.5667	3201.74	64.85		
12/07	11:19:30	2.5750	3204.34	64.68		
12/07	11:20:00	2.5833	3204.90	64.50		
12/07	11:20:30	2.5917	3204.43	64.32		
12/07	11:21:00	2.6000	3204.12	64.15		
12/07	11:21:30	2.6083	3203.35	63.97		
12/07	11:22:00	2.6167	3203.28	63.79		
12/07	11:22:30	2.6250	3202.52	63.62		
12/07	11:23:00	2.6333	3201.13	63.44		
12/07	11:23:30	2.6417	3204.74	63.26		
12/07	11:24:00	2.6500	3206.41	63.09		
12/07	11:24:30	2.6583	3206.89	62.92		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	11:25:00	2.6667	3203.69	62.78		
12/07	11:25:30	2.6750	3202.73	62.69		
12/07	11:26:00	2.6833	3204.36	62.60		
12/07	11:26:30	2.6917	3208.01	62.51		
12/07	11:27:00	2.7000	3207.49	62.41		
12/07	11:27:30	2.7083	3202.62	62.32		
12/07	11:28:00	2.7167	3206.55	62.22		RATE #3 - 1.50 BPM
12/07	11:28:30	2.7250	3209.37	62.13		
12/07	11:29:00	2.7333	3203.37	62.03		
12/07	11:29:30	2.7417	3203.87	61.94		
12/07	11:30:00	2.7500	3210.67	61.85		
12/07	11:30:30	2.7583	3214.05	61.76		
12/07	11:31:00	2.7667	3214.05	61.65		
12/07	11:31:30	2.7750	3214.70	61.45		
12/07	11:32:00	2.7833	3219.65	61.24		
12/07	11:32:30	2.7917	3218.77	61.03		
12/07	11:33:00	2.8000	3221.59	60.81		
12/07	11:33:30	2.8083	3222.62	60.61		
12/07	11:34:00	2.8167	3220.78	60.40		
12/07	11:34:30	2.8250	3225.63	60.19		
12/07	11:35:00	2.8333	3222.19	59.97		
12/07	11:35:30	2.8417	3223.51	59.76		
12/07	11:36:00	2.8500	3225.87	59.56		
12/07	11:36:30	2.8583	3224.02	59.34		
12/07	11:37:00	2.8667	3225.10	59.06		
12/07	11:37:30	2.8750	3226.67	58.84		
12/07	11:38:00	2.8833	3227.02	58.62		
12/07	11:38:30	2.8917	3230.22	58.40		
12/07	11:39:00	2.9000	3230.52	58.17		
12/07	11:39:30	2.9083	3228.06	57.95		
12/07	11:40:00	2.9167	3232.08	57.73		
12/07	11:40:30	2.9250	3232.54	57.51		
12/07	11:41:00	2.9333	3230.48	57.28		
12/07	11:41:30	2.9417	3234.78	57.06		
12/07	11:42:00	2.9500	3231.91	56.84		
12/07	11:42:30	2.9583	3232.95	56.62		
12/07	11:43:00	2.9667	3236.61	56.46		
12/07	11:43:30	2.9750	3233.39	56.33		
12/07	11:44:00	2.9833	3234.50	56.21		RATE #4 - 2.00 BPM
12/07	11:44:30	2.9917	3237.99	56.08		
12/07	11:45:00	3.0000	3242.51	55.95		
12/07	11:45:30	3.0083	3242.01	55.83		
12/07	11:46:00	3.0167	3244.64	55.69		
12/07	11:46:30	3.0250	3244.44	55.57		
12/07	11:47:00	3.0333	3245.15	55.44		
12/07	11:47:30	3.0417	3249.62	55.31		
12/07	11:48:00	3.0500	3249.87	55.18		
12/07	11:48:30	3.0583	3245.94	55.06		
12/07	11:49:00	3.0667	3251.59	54.90		
12/07	11:49:30	3.0750	3251.41	54.75		
12/07	11:50:00	3.0833	3250.39	54.60		
12/07	11:50:30	3.0917	3250.42	54.46		
12/07	11:51:00	3.1000	3251.92	54.32		
12/07	11:51:30	3.1083	3253.45	54.17		
12/07	11:52:00	3.1167	3253.47	54.03		
12/07	11:52:30	3.1250	3253.50	53.88		
12/07	11:53:00	3.1333	3257.73	53.74		
12/07	11:53:30	3.1417	3257.54	53.60		
12/07	11:54:00	3.1500	3253.80	53.45		
12/07	11:54:30	3.1583	3256.69	53.31		
12/07	11:55:00	3.1667	3260.36	53.20		
12/07	11:55:30	3.1750	3256.53	53.14		
12/07	11:56:00	3.1833	3257.17	53.07		
12/07	11:56:30	3.1917	3258.33	53.00		
12/07	11:57:00	3.2000	3261.95	52.93		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	11:57:30	3.2083	3260.82	52.87		
12/07	11:58:00	3.2167	3259.11	52.80		
12/07	11:58:30	3.2250	3260.99	52.74		RATE #5 - 2.50 BPM
12/07	11:59:00	3.2333	3264.36	52.67		
12/07	11:59:30	3.2417	3267.45	52.61		
12/07	12:00:00	3.2500	3270.27	52.54		
12/07	12:00:30	3.2583	3271.50	52.47		
12/07	12:01:00	3.2667	3272.16	52.40		
12/07	12:01:30	3.2750	3276.58	52.26		
12/07	12:02:00	3.2833	3277.42	52.12		
12/07	12:02:30	3.2917	3282.89	51.97		
12/07	12:03:00	3.3000	3283.88	51.83		
12/07	12:03:30	3.3083	3279.80	51.68		
12/07	12:04:00	3.3167	3283.51	51.54		
12/07	12:04:30	3.3250	3286.67	51.39		
12/07	12:05:00	3.3333	3284.30	51.25		
12/07	12:05:30	3.3417	3285.60	51.10		
12/07	12:06:00	3.3500	3286.21	50.96		
12/07	12:06:30	3.3583	3287.60	50.81		
12/07	12:07:00	3.3667	3292.23	50.67		
12/07	12:07:30	3.3750	3285.66	50.59		
12/07	12:08:00	3.3833	3292.92	50.51		
12/07	12:08:30	3.3917	3292.92	50.43		
12/07	12:09:00	3.4000	3290.27	50.36		
12/07	12:09:30	3.4083	3291.33	50.28		
12/07	12:10:00	3.4167	3291.64	50.20		
12/07	12:10:30	3.4250	3296.83	50.12		
12/07	12:11:00	3.4333	3289.69	50.04		
12/07	12:11:30	3.4417	3290.20	49.97		
12/07	12:12:00	3.4500	3291.92	49.89		RATE #6 - 3.00 BPM
12/07	12:12:30	3.4583	3292.38	49.81		
12/07	12:13:00	3.4667	3294.22	49.78		
12/07	12:13:30	3.4750	3294.94	49.74		
12/07	12:14:00	3.4833	3296.11	49.69		
12/07	12:14:30	3.4917	3292.78	49.66		
12/07	12:15:00	3.5000	3306.65	49.62		
12/07	12:15:30	3.5083	3306.65	49.57		
12/07	12:16:00	3.5167	3310.59	49.54		
12/07	12:16:30	3.5250	3311.06	49.50		
12/07	12:17:00	3.5333	3313.98	49.46		
12/07	12:17:30	3.5417	3313.42	49.42		
12/07	12:18:00	3.5500	3318.19	49.38		
12/07	12:18:30	3.5583	3317.35	49.34		
12/07	12:19:00	3.5667	3319.38	49.28		
12/07	12:19:30	3.5750	3314.71	49.24		
12/07	12:20:00	3.5833	3320.56	49.20		
12/07	12:20:30	3.5917	3321.18	49.16		
12/07	12:21:00	3.6000	3316.19	49.12		
12/07	12:21:30	3.6083	3316.37	49.08		
12/07	12:22:00	3.6167	3317.42	49.04		
12/07	12:22:30	3.6250	3325.98	49.00		
12/07	12:23:00	3.6333	3325.87	48.96		
12/07	12:23:30	3.6417	3325.04	48.92		
12/07	12:24:00	3.6500	3323.54	48.88		
12/07	12:24:30	3.6583	3328.89	48.84		
12/07	12:25:00	3.6667	3327.87	48.83		
12/07	12:25:30	3.6750	3327.40	48.83		
12/07	12:26:00	3.6833	3328.23	48.82		
12/07	12:26:30	3.6917	3323.65	48.81		
12/07	12:27:00	3.7000	3326.97	48.81		
12/07	12:27:30	3.7083	3327.71	48.80		
12/07	12:28:00	3.7167	3331.41	48.80		RATE #7 - 4.00 BPM
12/07	12:28:30	3.7250	3325.60	48.79		
12/07	12:29:00	3.7333	3333.64	48.78		
12/07	12:29:30	3.7417	3332.93	48.78		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	12:30:00	3.7500	3332.91	48.77		
12/07	12:30:30	3.7583	3343.90	48.76		
12/07	12:31:00	3.7667	3336.43	48.76		
12/07	12:31:30	3.7750	3336.14	48.75		
12/07	12:32:00	3.7833	3346.13	48.74		
12/07	12:32:30	3.7917	3345.21	48.74		
12/07	12:33:00	3.8000	3345.06	48.72		
12/07	12:33:30	3.8083	3341.18	48.71		
12/07	12:34:00	3.8167	3348.10	48.71		
12/07	12:34:30	3.8250	3347.52	48.70		
12/07	12:35:00	3.8333	3352.27	48.69		
12/07	12:35:30	3.8417	3344.80	48.68		
12/07	12:36:00	3.8500	3350.90	48.67		
12/07	12:36:30	3.8583	3350.02	48.67		
12/07	12:37:00	3.8667	3358.65	48.67		
12/07	12:37:30	3.8750	3357.62	48.68		
12/07	12:38:00	3.8833	3357.63	48.69		
12/07	12:38:30	3.8917	3349.49	48.70		
12/07	12:39:00	3.9000	3349.92	48.71		
12/07	12:39:30	3.9083	3356.95	48.72		
12/07	12:40:00	3.9167	3357.52	48.74		
12/07	12:40:30	3.9250	3358.75	48.74		
12/07	12:41:00	3.9333	3358.77	48.76		
12/07	12:41:30	3.9417	3353.59	48.76		
12/07	12:42:00	3.9500	3352.55	48.78		
12/07	12:42:30	3.9583	3358.55	48.79		
12/07	12:43:00	3.9667	3363.25	48.80		
12/07	12:43:30	3.9750	3358.53	48.81		
12/07	12:44:00	3.9833	3364.05	48.83		
12/07	12:44:30	3.9917	3357.68	48.84		
12/07	12:45:00	4.0000	3356.79	48.85		
12/07	12:45:30	4.0083	3360.97	48.87		
12/07	12:46:00	4.0167	3357.64	48.88		
12/07	12:46:30	4.0250	3358.36	48.90		
12/07	12:47:00	4.0333	3352.08	48.91		
12/07	12:47:30	4.0417	3360.93	48.92		
12/07	12:48:00	4.0500	3364.79	48.94		
12/07	12:48:30	4.0583	3373.64	48.95		
12/07	12:49:00	4.0667	3363.40	48.95		
12/07	12:49:30	4.0750	3368.09	48.97		
12/07	12:50:00	4.0833	3370.84	48.99		
12/07	12:50:30	4.0917	3371.84	49.02		
12/07	12:51:00	4.1000	3373.61	49.04		
12/07	12:51:30	4.1083	3378.25	49.06		
12/07	12:52:00	4.1167	3359.96	49.09		
12/07	12:52:30	4.1250	3380.15	49.11		
12/07	12:53:00	4.1333	3380.43	49.13		
12/07	12:53:30	4.1417	3381.69	49.16		
12/07	12:54:00	4.1500	3383.17	49.18		
12/07	12:54:30	4.1583	3384.26	49.21		
12/07	12:55:00	4.1667	3385.86	49.13		
12/07	12:55:30	4.1750	3383.57	48.99		
12/07	12:56:00	4.1833	3383.57	48.82		
12/07	12:56:30	4.1917	3387.15	48.69		
12/07	12:57:00	4.2000	3387.97	48.55		
12/07	12:57:30	4.2083	3388.38	48.40		
12/07	12:58:00	4.2167	3387.76	48.24		
12/07	12:58:30	4.2250	3387.80	48.10		
12/07	12:59:00	4.2333	3389.62	47.95		
12/07	12:59:30	4.2417	3393.17	47.80		
12/07	13:00:00	4.2500	3393.86	47.66		
12/07	13:00:30	4.2583	3393.85	47.49		
12/07	13:01:00	4.2667	3393.89	47.40		
12/07	13:01:30	4.2750	3393.52	47.38		
12/07	13:02:00	4.2833	3392.55	47.35		

RATE #8 - 6.00 BPM

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WELL NAME : SUNCO S.W.D. NO. 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	13:02:30	4.2917	3392.42	47.33		
12/07	13:03:00	4.3000	3392.43	47.32		
12/07	13:03:30	4.3083	3391.34	47.30		
12/07	13:04:00	4.3167	3395.56	47.28		RATE #9 - 6.60 BPM
12/07	13:04:30	4.3250	3396.00	47.26		
12/07	13:05:00	4.3333	3396.02	47.24		
12/07	13:05:30	4.3417	3396.04	47.22		
12/07	13:06:00	4.3500	3405.88	47.20		
12/07	13:06:30	4.3583	3402.02	47.18		
12/07	13:07:00	4.3667	3402.56	47.24		
12/07	13:07:30	4.3750	3403.89	47.31		
12/07	13:08:00	4.3833	3403.47	47.39		
12/07	13:08:30	4.3917	3403.17	47.47		
12/07	13:09:00	4.4000	3410.84	47.55		
12/07	13:09:30	4.4083	3405.78	47.63		
12/07	13:10:00	4.4167	3412.36	47.71		
12/07	13:10:30	4.4250	3411.11	47.80		
12/07	13:11:00	4.4333	3413.88	47.87		
12/07	13:11:30	4.4417	3408.27	47.96		
12/07	13:12:00	4.4500	3415.41	48.03		
12/07	13:12:30	4.4583	3411.74	48.11		
12/07	13:13:00	4.4667	3415.54	48.20		
12/07	13:13:30	4.4750	3416.49	48.28		
12/07	13:14:00	4.4833	3412.35	48.36		
12/07	13:14:30	4.4917	3412.35	48.44		
12/07	13:15:00	4.5000	3416.39	48.50		
12/07	13:15:30	4.5083	3419.36	48.58		
12/07	13:16:00	4.5167	3418.72	48.65		
12/07	13:16:30	4.5250	3414.53	48.73		
12/07	13:17:00	4.5333	3416.95	48.81		
12/07	13:17:30	4.5417	3420.77	48.88		
12/07	13:18:00	4.5500	3415.72	48.95		
12/07	13:18:30	4.5583	3422.02	49.03		
12/07	13:19:00	4.5667	3416.71	49.09		
12/07	13:19:30	4.5750	3420.80	49.16		
12/07	13:20:00	4.5833	3420.17	49.22		
12/07	13:20:30	4.5917	3422.92	49.28		PUMPING SHUT DOWN
12/07	13:21:00	4.6000	3419.82	49.35		
12/07	13:21:30	4.6083	3389.86	49.41		
12/07	13:22:00	4.6167	3380.40	49.47		
12/07	13:22:30	4.6250	3374.81	49.53		
12/07	13:23:00	4.6333	3369.77	49.60		
12/07	13:23:30	4.6417	3365.85	49.66		
12/07	13:24:00	4.6500	3362.20	49.72		
12/07	13:24:30	4.6583	3358.82	49.79		
12/07	13:25:00	4.6667	3355.95	49.90		
12/07	13:25:30	4.6750	3353.00	50.13		
12/07	13:26:00	4.6833	3350.33	50.35		
12/07	13:26:30	4.6917	3348.97	50.58		
12/07	13:27:00	4.7000	3346.57	50.80		
12/07	13:27:30	4.7083	3344.17	51.03		
12/07	13:28:00	4.7167	3342.07	51.25		
12/07	13:28:30	4.7250	3340.08	51.47		
12/07	13:29:00	4.7333	3338.11	51.70		
12/07	13:29:30	4.7417	3336.27	51.92		
12/07	13:30:00	4.7500	3334.44	52.14		
12/07	13:30:30	4.7583	3332.74	52.37		
12/07	13:31:00	4.7667	3331.13	52.65		
12/07	13:31:30	4.7750	3329.53	52.92		
12/07	13:32:00	4.7833	3327.94	53.19		
12/07	13:32:30	4.7917	3326.48	53.47		
12/07	13:33:00	4.8000	3325.01	53.74		
12/07	13:33:30	4.8083	3323.56	54.01		
12/07	13:34:00	4.8167	3322.09	54.29		
12/07	13:34:30	4.8250	3320.65	54.56		

COMPANY: SUNCO

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WELL NAME : SUNCO S.W.D. NO 1

DATE : 12/08/93

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F180C07.DAT

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
12/07	13:35:00	4.8333	3319.33	54.83		
12/07	13:35:30	4.8417	3318.01	55.11		
12/07	13:36:00	4.8500	3316.84	55.38		
12/07	13:36:30	4.8583	3315.66	55.65		
12/07	13:37:00	4.8667	3314.37	55.89		
12/07	13:37:30	4.8750	3313.16	56.03		
12/07	13:38:00	4.8833	3311.94	56.17		
12/07	13:38:30	4.8917	3310.88	56.31		
12/07	13:39:00	4.9000	3309.94	56.46		
12/07	13:39:30	4.9083	3308.85	56.60		
12/07	13:40:00	4.9167	3307.79	56.74		
12/07	13:40:30	4.9250	3306.85	56.88		INSTRUMENT OFF BOTTOM
12/07	13:41:00	4.9333	3303.59	57.03		
12/07	13:41:30	4.9417	3303.78	57.17		
12/07	13:42:00	4.9500	3280.18	57.30		
12/07	13:42:30	4.9583	3191.13	57.45		
12/07	13:43:00	4.9667	3086.45	57.46		
12/07	13:43:30	4.9750	2966.71	57.29		
12/07	13:44:00	4.9833	2844.48	57.12		
12/07	13:44:30	4.9917	2717.84	56.94		
12/07	13:45:00	5.0000	2586.51	56.77		
12/07	13:45:30	5.0083	2447.72	56.59		
12/07	13:46:00	5.0167	2302.04	56.42		
12/07	13:46:30	5.0250	2154.98	56.24		
12/07	13:47:00	5.0333	1999.36	56.07		
12/07	13:47:30	5.0417	1835.75	55.90		
12/07	13:48:00	5.0500	1665.80	55.72		
12/07	13:48:30	5.0583	1501.93	55.55		
12/07	13:49:00	5.0667	1388.21	54.67		
12/07	13:49:30	5.0750	1369.66	54.87		
12/07	13:50:00	5.0833	1364.92	55.06		
12/07	13:50:30	5.0917	1101.38	55.25		
12/07	13:51:00	5.1000	.01	55.45		
12/07	13:51:30	5.1083	.01	55.64		
12/07	13:52:00	5.1167	.01	55.83		
12/07	13:52:30	5.1250	.01	56.03		
12/07	13:53:00	5.1333	.01	56.22		
12/07	13:53:30	5.1417	.01	56.41		
12/07	13:54:00	5.1500	.01	56.61		
12/07	13:54:30	5.1583	.01	56.80		

SUNCO

Pressure vs Elapsed Time

SUNCO S.W.D. NO. 1
SAN JUAN COUNTY, NEW MEXICO
F188C07.DAT

TEFTTELLER, INC.
12-7-93
STEP RATE TEST

