



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

April 29, 1991

Blackwood & Nichols Co.
PO Box 1237
Durango, Co. 81302-1237

Attention: Jim Abbey

RE: *Injection Pressure Increase
Pump Mesa SWD No. 1
San Juan County, New Mexico*

Dear Mr. Abbey:

Reference is made to your request dated April 9, 1991, to increase the surface injection pressure on the Pump Mesa SWD Well No. 1. This request is based on a step rate test conducted on the well on April 2, 1991. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well.

WELL AND LOCATION

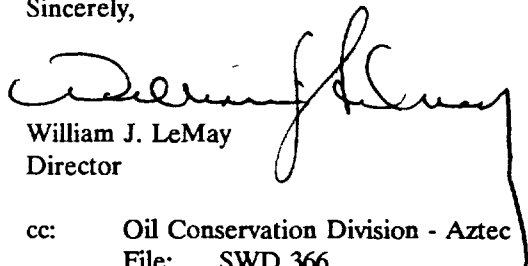
MAXIMUM INJECTION
SURFACE PRESSURE

Pump Mesa SWD No. 1
990' FSL & 1600'FWL (Unit N)
Section 36, T-31 North, R-8 West, NMPM
San Juan County, New Mexico

2250 PS1G

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,


William J. LeMay
Director

cc: Oil Conservation Division - Aztec
File: SWD 366
D. Catanach
R. Brown

BLACKWOOD & NICHOLS CO. OIL CONSERVA
A LIMITED PARTNERSHIP REC
P.O. BOX 1237
DURANGO, COLORADO 81302-1237
(303) 247-0728

1991 APR 11

April 9, 1991

Mr. Dave Catanach
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Pump Mesa SWD #1 Surface Pressure Variance

Dear Dave:

I have compiled the results of the Pump Mesa SWD #1 Step Rate Test, Temperature and Tracer survey for your review. Blackwood & Nichols believes the new data supports the proposed request for an increase in our surface injection pressure.

Current Needs

The Pump Mesa gathering system consists of sixteen (16) Fruitland coal wells. Six (6) of the coal wells are shut-in and ten (10) are curtailed by 40% due to the 1620 psig surface injection limit.

The week ending 3-31-91, Pump Mesa Gathering System produced a daily average of 8931 mcf/d gas and 3380 BWPD. Daily injection pressures at the disposal well averaged 1503 psig.

Our estimated average daily production could reach 16,000 BWPD if wells were allowed to produce at pipeline pressures. An increase to 2250 psig surface pressure may not meet total field demands but it will help dispose of water resulting from initial flush production.

The Step Rate Test indicated no parting occurs between the Morrison and Entrada formations when flowing bottom hole pressures @ 8985' remain below 5487 psig.

Mr. Dave Catanach
April 9, 1991
Page two

Temperature and Tracer logs support water containment between top and bottom zones. Also the Frac Height and Radio Active Tracer logs are consistent in predicting fluid migration and fracture growth.

Based on the above information, Blackwood & Nichols finds no evidence or reason to believe increased injection pressures will result in fluid contamination outside the Morrison-Entrada interval.

Thank you for the time to review our proposal. Please advise if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Abbey", with a stylized flourish at the end.

Jim Abbey
Operations Engineer
BLACKWOOD & NICHOLS CO., LTD

JKA/avd

cc: Frank Chavez - NMOCD, Aztec
Mack Duckworth - Devon Energy
Mark Manson - Blackwood & Nichols

Dave Catnach

OIL CONSERVATION DIVISION
RECEIVED

'91 APR 11 AM 8 55

Based on the step rate test we will agree

to an increase to 2250th.

3

1941
23 2 1941

BLACKWOOD & NICHOLS CO.
A LIMITED PARTNERSHIP
P.O. BOX 1237
DURANGO, COLORADO 81302-1237
(303) 247-0728

April 5, 1991

RECEIVED
APR 05 1991
OIL CON. DIV.
DIST. 3

Mr. Frank Chavez
Oil Conservation Division
1000 Rio Brazos Drive
Aztec, New Mexico 87410

Re: Pump Mesa SWD #1 Surface Pressure Variance

Dear Frank:

I have compiled the results of the Pump Mesa SWD #1 Step Rate Test, Temperature and Tracer survey for your review. Blackwood & Nichols believes the new data supports the proposed request for an increase in our surface injection pressure.

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Mr. Frank Chavez
April 5, 1991
Page two

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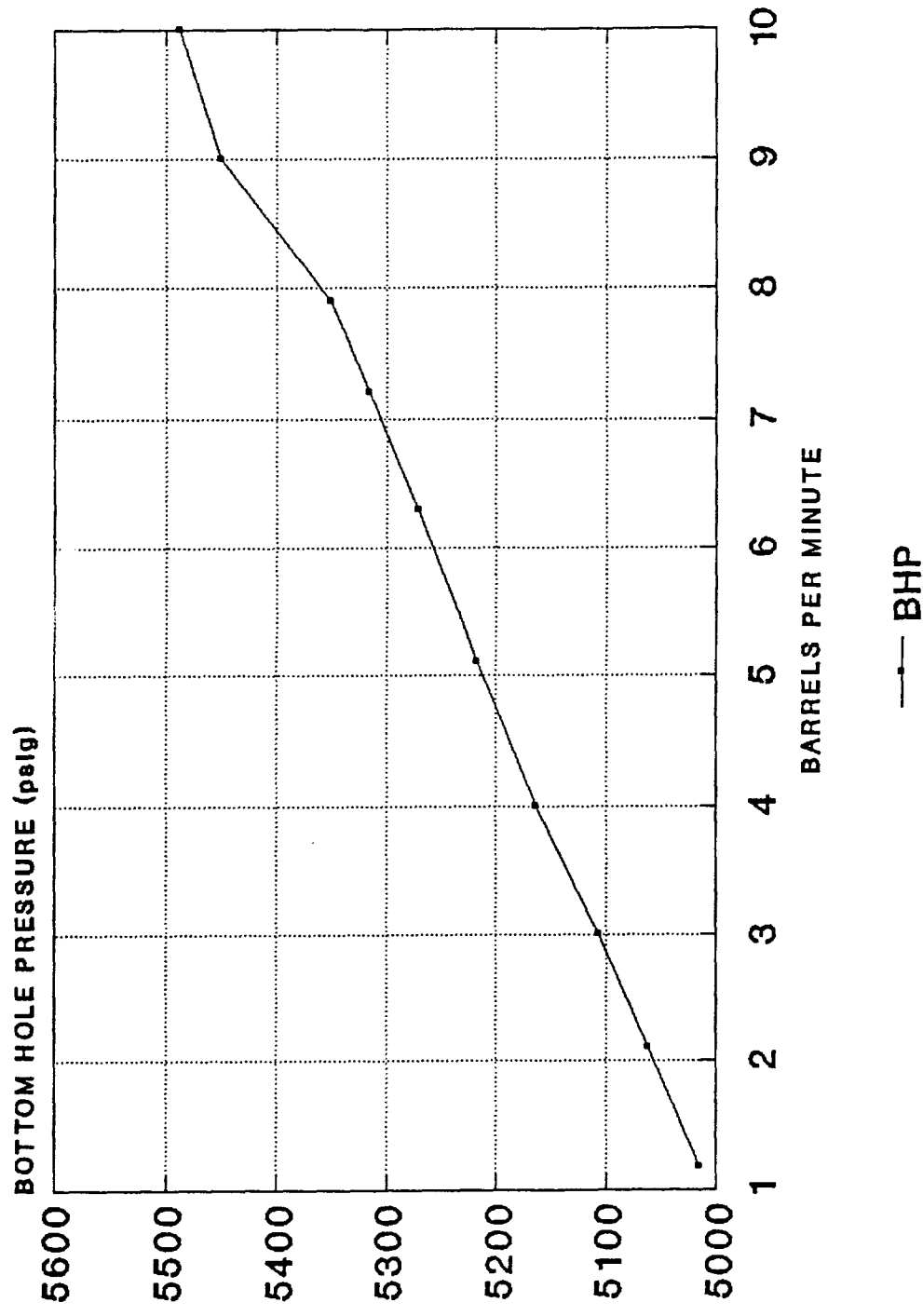
Jim Abbey
Operations Engineer
BLACKWOOD & NICHOLS CO., LTD

JKA/avd

cc: Mack Duckworth
Mark Manson

PUMP MESA SWD 1 STEP RATE TEST

BLACKWOOD & NICHOLS



4-2-91
Depth of recorder - 8985'

Blackwood & Nichols Co. Ltd.

Date: 4-2-91

Pump Mesa SWD #1

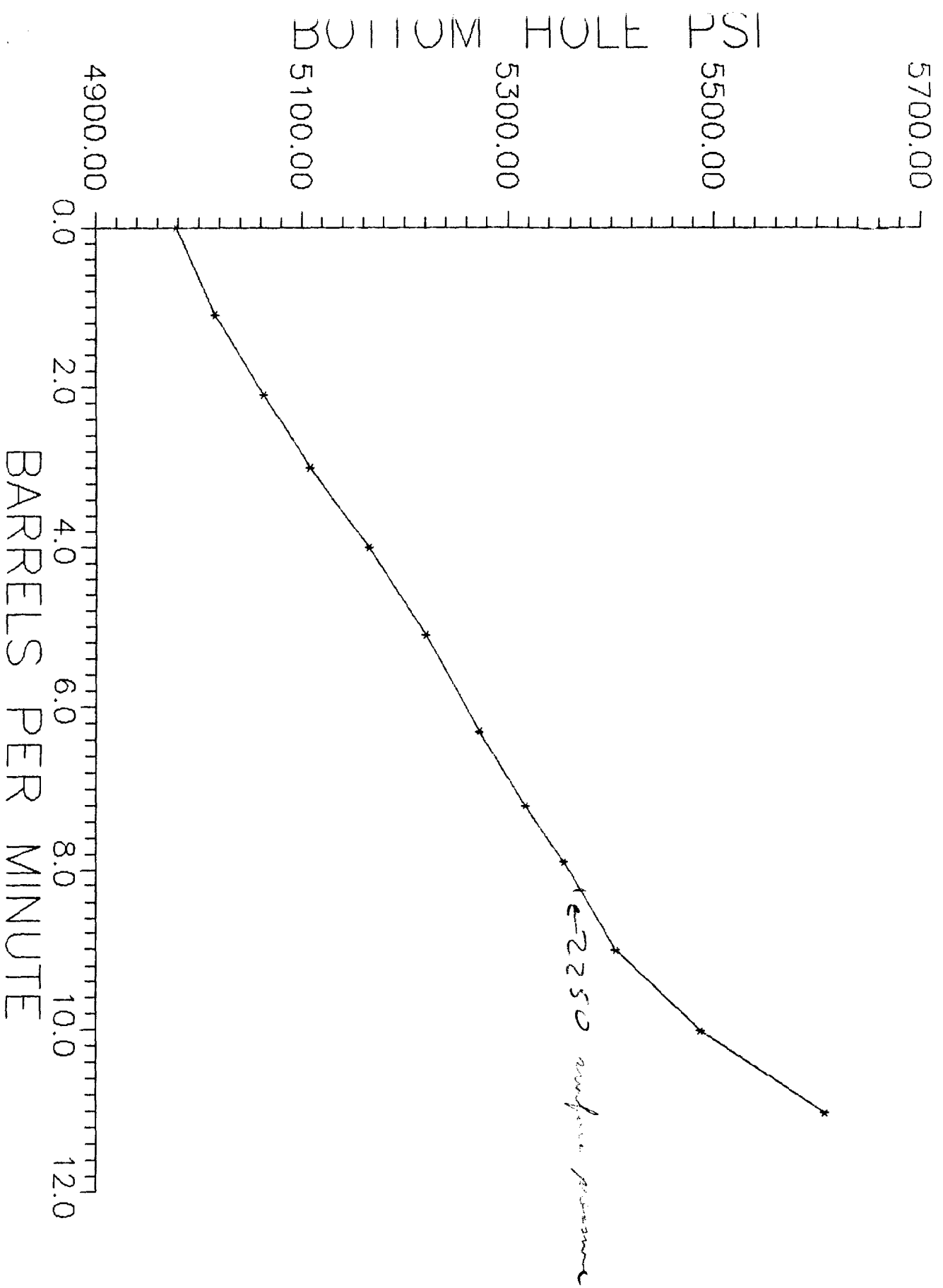
Step rate test.

Morrison, Bluff, Entrada

Top perforation at 8152', bottom at 8970'.

Bottom hole recorder depth: 8985'

STAGE	TIME	RATE bpm	SURFACE psig	BHP psig	FRICTION psig	HP psig
1	12:46:42	1.17	1117	5015	-8	3890
2	13:01:24	2.10	1200	5062	28	3890
3	13:16:24	3.00	1317	5107	100	3890
4	13:31:24	4.00	1450	5164	176	3890
5	13:46:06	5.10	1660	5217	333	3890
6	14:01:06	6.30	1860	5271	479	3890
7	14:16:24	7.20	2050	5315	625	3890
8	14:31:06	7.90	2240	5351	779	3890
9	15:05:54	9.00	2549	5450	989	3890
10	15:19:24	10.00	2824	5487	1227	3890





EFTELLER, 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

BLACKWOOD & NICHOLS CO. LTD

PUMP MESA SWD #1

APRIL 2, 1991

Serving the Rocky Mountain Area & Permian Basin Area

Page A

Page A

Customer BLACKWOOD AND NICHOLS CO, LTD.
Street P.O.BOX 1237
City/State..... DURANGO, COLORADO 80302
Country U.S.A.
Service Company ... TEFTELLER, INC.

```
Well Name ..... PUMP MESA SWD #1
Well Location ..... SAN JUAN COUNTY, NEW MEXICO
Field / Pool .....
Status (Oil, Gas, Other) ..... WATER DISPOSAL
```

```

Test Type ..... STEP-RATE
Date of Test ..... 4-2-91
Producing Interval .....
Recorder Depth ..... 8985' KB
Recorder Position .....
Shut In Date ..... Start: 4-2-91
                               Stop: 4-2-91
                               Duration: 6 HOURS
Bottom Hole Temperature .....

```

Gauge Identification

```
Gauge Manufacturer ..... MICRO-SMART SYSTEMS
Serial Number ..... 114
Model Number ..... SP2000
Pressure Range ..... 10K
Battery Type .....
Calibration I.D. ....
Last Calibration ..... 1/ 8/91
```

Gauge Setup Parameters

```

Probe Set Up Time ..... 4/ 2/91  9:39: 0
Time Delay to First Reading ....
Test Type Selection ..... STEP-RATE
Test Duration Selection ..... 6 HOURS

```

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	9:39: 0	.0000	.01	58.56		
4/ 2	9:41:15	.0375	.01	58.56	.00	
4/ 2	9:41:30	.0417	.01	58.60	.00	
4/ 2	9:41:45	.0458	.01	58.65	.00	
4/ 2	9:42: 0	.0500	.01	58.70	.00	
4/ 2	9:42:15	.0542	.01	58.74	.00	
4/ 2	9:42:30	.0583	.01	58.79	.00	
4/ 2	9:42:45	.0625	.01	58.83	.00	
4/ 2	9:43: 0	.0667	.01	58.88	.00	
4/ 2	9:43:15	.0708	.01	58.93	.00	
4/ 2	9:43:30	.0750	.01	58.98	.00	
4/ 2	9:43:45	.0792	.01	59.02	.00	
4/ 2	9:44: 0	.0833	.01	59.07	.00	
4/ 2	9:45: 0	.1000	.01	59.25	.00	
4/ 2	9:46: 0	.1167	.01	59.56	.00	
4/ 2	9:47: 0	.1333	.01	59.85	.00	
4/ 2	9:48: 0	.1500	.01	60.15	.00	
4/ 2	9:49: 0	.1667	.01	60.52	.00	
4/ 2	9:50: 0	.1833	.01	60.89	.00	
4/ 2	9:51: 0	.2000	.01	61.27	.00	
4/ 2	9:52: 0	.2167	.01	61.64	.00	
4/ 2	9:53: 0	.2333	.01	61.97	.00	
4/ 2	9:54: 0	.2500	.01	62.30	.00	
4/ 2	9:55: 0	.2667	.01	62.64	.00	
4/ 2	9:56: 0	.2333	.01	62.97	.00	
4/ 2	9:57: 0	.3000	.01	63.30	.00	
4/ 2	9:58: 0	.3167	.01	63.59	.00	
4/ 2	9:59: 0	.3333	.01	63.86	.00	
4/ 2	10: 0: 0	.3500	.01	64.15	.00	
4/ 2	10: 1: 0	.3667	.01	64.32	.00	
4/ 2	10: 2: 0	.3833	.01	64.48	.00	
4/ 2	10: 3: 0	.4000	.01	64.64	.00	
4/ 2	10: 4: 0	.4167	.01	64.80	.00	
4/ 2	10: 5: 0	.4333	.01	64.99	.00	
4/ 2	10: 6: 0	.4500	.01	65.12	.00	
4/ 2	10: 7: 0	.4667	.01	65.25	.00	
4/ 2	10: 8: 0	.4833	.01	65.38	.00	
4/ 2	10: 9: 0	.5000	.21	65.37	.20	
4/ 2	10:10: 0	.5167	60.82	65.07	60.61	
4/ 2	10:10:15	.5208	1079.52	64.86	1018.70	
4/ 2	10:10:30	.5250	1073.09	64.57	-6.43	
4/ 2	10:10:45	.5292	1069.45	64.28	-3.64	
4/ 2	10:11: 0	.5333	1065.81	63.99	-3.64	
4/ 2	10:11:15	.5375	1065.81	63.70	.00	
4/ 2	10:11:30	.5417	1066.10	63.40	.29	
4/ 2	10:11:45	.5458	1060.18	63.12	-5.92	
4/ 2	10:12: 0	.5500	1059.73	62.83	-.45	
4/ 2	10:12:15	.5542	226.22	62.53	-833.51	
4/ 2	10:12:30	.5583	5.73	62.24	-220.49	
4/ 2	10:12:45	.5625	.01	61.96	-5.72	
4/ 2	10:13: 0	.5667	.01	61.66	.00	
4/ 2	10:13:15	.5708	.01	61.40	.00	
4/ 2	10:13:30	.5750	.01	61.16	.00	
4/ 2	10:13:45	.5792	.01	60.94	.00	
4/ 2	10:14: 0	.5833	.01	60.70	.00	
4/ 2	10:14:15	.5875	.01	60.47	.00	
4/ 2	10:14:30	.5917	.01	60.24	.00	
4/ 2	10:14:45	.5958	.01	60.01	.00	
4/ 2	10:15: 0	.6000	.01	59.78	.00	
4/ 2	10:15:15	.6042	.01	59.54	.00	
4/ 2	10:15:30	.6083	.01	59.31	.00	
4/ 2	10:15:45	.6125	.01	59.08	.00	
4/ 2	10:16: 0	.6167	.01	58.85	.00	
4/ 2	10:17: 0	.6333	1067.33	58.11	1067.32	
4/ 2	10:17:15	.6375	1065.98	57.94	-1.35	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	10:17:30	.6417	1068.30	57.97	2.32	
4/ 2	10:17:45	.6458	1082.02	58.01	13.71	
4/ 2	10:18: 0	.6500	1096.28	58.04	14.26	
4/ 2	10:18:15	.6542	1113.89	58.07	17.61	
4/ 2	10:18:30	.6583	1130.66	58.10	16.77	
4/ 2	10:18:45	.6625	1149.11	58.13	18.45	
4/ 2	10:19: 0	.6667	1168.96	58.17	19.85	
4/ 2	10:19:15	.6708	1189.64	58.19	20.67	
4/ 2	10:19:30	.6750	1210.88	58.23	21.25	
4/ 2	10:19:45	.6792	1231.56	58.26	20.68	
4/ 2	10:20: 0	.6833	1252.52	58.29	20.96	
4/ 2	10:20:15	.6875	1274.00	58.56	21.47	
4/ 2	10:20:30	.6917	1295.81	58.89	21.81	
4/ 2	10:20:45	.6958	1317.89	59.22	22.08	
4/ 2	10:21: 0	.7000	1339.97	59.55	22.08	
4/ 2	10:21:15	.7042	1365.40	59.88	25.43	
4/ 2	10:21:30	.7083	1391.93	60.21	26.54	
4/ 2	10:21:45	.7125	1420.70	60.54	28.77	
4/ 2	10:22: 0	.7167	1448.63	60.87	27.93	
4/ 2	10:22:15	.7208	1477.38	61.20	28.76	
4/ 2	10:22:30	.7250	1506.42	61.53	29.03	
4/ 2	10:22:45	.7292	1535.45	61.86	29.03	
4/ 2	10:23: 0	.7333	1563.91	62.18	28.46	
4/ 2	10:23:15	.7375	1592.69	62.55	28.78	
4/ 2	10:23:30	.7417	1622.05	62.95	29.36	
4/ 2	10:23:45	.7458	1651.69	63.36	29.64	
4/ 2	10:24: 0	.7500	1680.76	63.76	29.07	
4/ 2	10:24:15	.7542	1710.40	64.17	29.63	
4/ 2	10:24:30	.7583	1740.30	64.57	29.90	
4/ 2	10:24:45	.7625	1769.63	64.97	29.34	
4/ 2	10:25: 0	.7667	1798.97	65.38	29.34	
4/ 2	10:25:15	.7708	1829.14	65.78	30.16	
4/ 2	10:25:30	.7750	1859.58	66.19	30.45	
4/ 2	10:25:45	.7792	1889.74	66.59	30.15	
4/ 2	10:26: 0	.7833	1920.45	67.00	30.71	
4/ 2	10:26:15	.7875	1951.19	67.44	30.73	
4/ 2	10:26:30	.7917	1981.68	67.93	30.49	
4/ 2	10:26:45	.7958	2011.89	68.42	30.21	
4/ 2	10:27: 0	.8000	2042.64	68.91	30.76	
4/ 2	10:27:15	.8042	2075.62	69.40	32.98	
4/ 2	10:27:30	.8083	2108.04	69.89	32.42	
4/ 2	10:27:45	.8125	2141.01	70.38	32.97	
4/ 2	10:28: 0	.8167	2173.96	70.86	32.95	
4/ 2	10:28:15	.8208	2206.64	71.36	32.68	
4/ 2	10:28:30	.8250	2239.59	71.85	32.95	
4/ 2	10:28:45	.8292	2274.21	72.34	34.61	
4/ 2	10:29: 0	.8333	2308.53	72.83	34.33	
4/ 2	10:29:15	.8375	2343.15	73.35	34.62	
4/ 2	10:29:30	.8417	2377.29	73.98	34.14	
4/ 2	10:29:45	.8458	2411.97	74.60	34.68	
4/ 2	10:30: 0	.8500	2446.63	75.21	34.66	
4/ 2	10:30:15	.8542	2481.30	75.83	34.66	
4/ 2	10:30:30	.8583	2516.78	76.45	35.49	
4/ 2	10:30:45	.8625	2551.15	77.07	34.37	
4/ 2	10:31: 0	.8667	2585.51	77.69	34.36	
4/ 2	10:31:15	.8708	2620.69	78.31	35.18	
4/ 2	10:31:30	.8750	2655.03	78.93	34.34	
4/ 2	10:31:45	.8792	2690.20	79.54	35.17	
4/ 2	10:32: 0	.8833	2725.36	80.17	35.16	
4/ 2	10:32:15	.8875	2759.81	80.99	34.45	
4/ 2	10:32:30	.8917	2794.64	81.99	34.83	
4/ 2	10:32:45	.8958	2829.45	82.99	34.81	
4/ 2	10:33: 0	.9000	2864.26	84.00	34.81	
4/ 2	10:33:15	.9042	2899.04	85.00	34.79	
4/ 2	10:33:30	.9083	2933.81	86.00	34.77	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	10:33:45	.9125	2968.86	87.01	35.05	
4/ 2	10:34: 0	.9167	3003.88	88.02	35.02	
4/ 2	10:34:15	.9208	3038.34	89.03	34.46	
4/ 2	10:34:30	.9250	3073.89	90.03	35.55	
4/ 2	10:34:45	.9292	3108.88	91.04	34.99	
4/ 2	10:35: 0	.9333	3143.85	92.05	34.97	
4/ 2	10:35:15	.9375	3178.89	93.21	35.04	
4/ 2	10:35:30	.9417	3214.19	94.37	35.30	
4/ 2	10:35:45	.9458	3249.48	95.53	35.29	
4/ 2	10:36: 0	.9500	3285.30	96.69	35.82	
4/ 2	10:36:15	.9542	3320.83	97.86	35.53	
4/ 2	10:36:30	.9583	3356.34	99.02	35.51	
4/ 2	10:36:45	.9625	3391.84	100.18	35.50	
4/ 2	10:37: 0	.9667	3427.33	101.35	35.48	
4/ 2	10:37:15	.9708	3463.07	102.51	35.74	
4/ 2	10:37:30	.9750	3498.52	103.68	35.45	
4/ 2	10:37:45	.9792	3533.95	104.85	35.43	
4/ 2	10:38: 0	.9833	3570.75	106.02	36.81	
4/ 2	10:38:15	.9875	3606.38	107.07	35.62	
4/ 2	10:38:30	.9917	3641.97	108.09	35.59	
4/ 2	10:38:45	.9958	3677.83	109.13	35.86	
4/ 2	10:39: 0	1.0000	3713.68	110.16	35.84	
4/ 2	10:39:15	1.0042	3749.78	111.18	36.10	
4/ 2	10:39:30	1.0083	3785.87	112.22	36.09	
4/ 2	10:39:45	1.0125	3821.95	113.25	36.08	
4/ 2	10:40: 0	1.0167	3856.91	114.28	34.96	
4/ 2	10:40:15	1.0208	3892.12	115.31	35.22	
4/ 2	10:40:30	1.0250	3927.33	116.35	35.21	
4/ 2	10:40:45	1.0292	3963.63	117.39	36.29	
4/ 2	10:41: 0	1.0333	4000.18	118.42	36.55	
4/ 2	10:41:15	1.0375	4036.73	119.46	36.55	
4/ 2	10:41:30	1.0417	4074.64	120.53	37.92	
4/ 2	10:41:45	1.0458	4111.72	121.60	37.07	
4/ 2	10:42: 0	1.0500	4150.43	122.67	38.71	
4/ 2	10:42:15	1.0542	4187.20	123.74	36.77	
4/ 2	10:42:30	1.0583	4221.74	124.81	34.55	
4/ 2	10:42:45	1.0625	4258.20	125.88	36.46	
4/ 2	10:43: 0	1.0667	4293.54	126.95	35.34	
4/ 2	10:43:15	1.0708	4328.32	128.03	34.78	
4/ 2	10:43:30	1.0750	4361.43	129.10	33.11	
4/ 2	10:43:45	1.0792	4389.57	130.18	28.14	
4/ 2	10:44: 0	1.0833	4418.80	131.26	29.23	
4/ 2	10:44:15	1.0875	4448.30	132.35	29.50	
4/ 2	10:44:30	1.0917	4477.73	133.24	29.43	
4/ 2	10:44:45	1.0958	4508.24	134.13	30.52	
4/ 2	10:45: 0	1.1000	4539.02	135.01	30.78	
4/ 2	10:45:15	1.1042	4568.69	135.91	29.67	
4/ 2	10:45:30	1.1083	4598.62	136.80	29.93	
4/ 2	10:45:45	1.1125	4628.26	137.68	29.64	
4/ 2	10:46: 0	1.1167	4658.72	138.57	30.46	
4/ 2	10:46:15	1.1208	4691.10	139.47	32.38	
4/ 2	10:46:30	1.1250	4725.10	140.36	34.01	
4/ 2	10:46:45	1.1292	4756.08	141.25	30.98	
4/ 2	10:47: 0	1.1333	4783.47	142.14	27.39	
4/ 2	10:47:15	1.1375	4808.72	142.04	25.25	
4/ 2	10:47:30	1.1417	4833.15	141.96	24.43	
4/ 2	10:47:45	1.1458	4855.94	141.89	22.79	
4/ 2	10:48: 0	1.1500	4878.17	141.81	22.23	
4/ 2	10:48:15	1.1542	4901.51	141.74	23.34	
4/ 2	10:48:30	1.1583	4926.77	141.66	25.26	
4/ 2	10:48:45	1.1625	4946.26	141.59	19.49	
4/ 2	10:49: 0	1.1667	4957.51	141.51	11.25	
4/ 2	10:49:15	1.1708	4962.99	141.44	5.48	
4/ 2	10:49:30	1.1750	4967.37	141.37	4.38	
4/ 2	10:49:45	1.1792	4971.76	141.30	4.38	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	10:50: 0	1.1833	4980.54	141.22	8.78	INSTRUMENT @ 8985' KB
4/ 2	10:50:15	1.1875	4986.01	141.12	5.48	
4/ 2	10:50:30	1.1917	4986.46	140.38	.45	
4/ 2	10:50:45	1.1958	4987.73	139.65	1.26	
4/ 2	10:51: 0	1.2000	4988.81	138.92	1.08	
4/ 2	10:51:15	1.2042	4989.83	138.18	1.02	
4/ 2	10:51:30	1.2083	4989.98	137.45	.15	
4/ 2	10:51:45	1.2125	4990.16	136.72	.18	
4/ 2	10:52: 0	1.2167	4990.33	135.99	.16	
4/ 2	10:52:15	1.2208	4990.44	135.25	.11	
4/ 2	10:52:30	1.2250	4990.42	134.52	-.02	
4/ 2	10:52:45	1.2292	4990.41	133.79	-.01	
4/ 2	10:53: 0	1.2333	4990.40	133.06	-.01	
4/ 2	10:53:15	1.2375	4990.38	132.22	-.02	
4/ 2	10:53:30	1.2417	4990.36	131.52	-.02	
4/ 2	10:53:45	1.2458	4990.33	130.84	-.03	
4/ 2	10:54: 0	1.2500	4990.31	130.18	-.02	
4/ 2	10:54:15	1.2542	4990.27	129.48	-.04	
4/ 2	10:54:30	1.2583	4990.23	128.82	-.04	
4/ 2	10:54:45	1.2625	4990.19	128.16	-.04	
4/ 2	10:55: 0	1.2667	4990.08	127.39	-.11	
4/ 2	10:55:15	1.2708	4989.98	126.73	-.09	
4/ 2	10:55:30	1.2750	4989.88	126.04	-.10	
4/ 2	10:55:45	1.2792	4989.75	125.33	-.13	
4/ 2	10:56: 0	1.2833	4989.61	124.64	-.14	
4/ 2	10:57: 0	1.2900	4988.50	122.69	-1.11	
4/ 2	10:58: 0	1.2967	4988.16	121.40	-.34	
4/ 2	10:59: 0	1.3033	4987.55	120.11	-.61	
4/ 2	11: 0: 0	1.3100	4987.26	118.82	-.29	
4/ 2	11: 1: 0	1.3167	4987.01	118.01	-.25	
4/ 2	11: 2: 0	1.3233	4986.74	117.49	-.27	
4/ 2	11: 3: 0	1.3300	4986.47	116.97	-.27	
4/ 2	11: 4: 0	1.3367	4986.22	116.45	-.25	
4/ 2	11: 5: 0	1.3433	4986.02	116.14	-.20	
4/ 2	11: 6: 0	1.3500	4985.84	115.94	-.18	
4/ 2	11: 7: 0	1.3567	4985.66	115.74	-.18	
4/ 2	11: 8: 0	1.3633	4985.51	115.54	-.15	
4/ 2	11: 9: 0	1.3700	4985.36	115.40	-.15	
4/ 2	11:10: 0	1.3767	4985.23	115.33	-.13	
4/ 2	11:11: 0	1.3833	4985.12	115.24	-.11	
4/ 2	11:12: 0	1.3900	4984.99	115.17	-.13	
4/ 2	11:13: 0	1.3967	4984.87	115.10	-.13	
4/ 2	11:14: 0	1.4033	4984.77	115.08	-.10	
4/ 2	11:15: 0	1.4100	4984.66	115.04	-.10	
4/ 2	11:16: 0	1.4167	4984.54	115.01	-.12	
4/ 2	11:17: 0	1.4233	4984.42	114.99	-.12	
4/ 2	11:18: 0	1.4300	4984.34	114.98	-.08	
4/ 2	11:19: 0	1.4367	4984.24	114.96	-.10	
4/ 2	11:20: 0	1.4433	4984.14	114.95	-.10	
4/ 2	11:21: 0	1.4500	4984.04	114.94	-.10	
4/ 2	11:22: 0	1.4567	4983.98	114.93	-.07	
4/ 2	11:23: 0	1.4633	4983.89	114.93	-.08	
4/ 2	11:24: 0	1.4700	4983.78	114.92	-.12	
4/ 2	11:25: 0	1.4767	4983.68	114.92	-.10	
4/ 2	11:26: 0	1.4833	4983.57	114.92	-.11	
4/ 2	11:27: 0	1.4900	4983.45	114.92	-.11	
4/ 2	11:28: 0	1.4967	4983.34	114.92	-.11	
4/ 2	11:29: 0	1.5033	4983.21	114.92	-.13	
4/ 2	11:30: 0	1.5100	4983.09	114.91	-.11	
4/ 2	11:31: 0	1.5167	4983.01	114.91	-.08	
4/ 2	11:32: 0	1.5233	4982.93	114.90	-.08	
4/ 2	11:33: 0	1.5300	4982.83	114.91	-.10	
4/ 2	11:34: 0	1.5367	4982.77	114.91	-.06	
4/ 2	11:35: 0	1.5433	4982.69	114.91	-.08	
4/ 2	11:36: 0	1.5500	4982.61	114.91	-.08	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2 11:37: 0		1.9667	4982.49	114.91	-.11	
4/ 2 11:38: 0		1.9833	4982.41	114.91	-.08	
4/ 2 11:39: 0		2.0000	4982.33	114.92	-.08	
4/ 2 11:40: 0		2.0167	4982.22	114.92	-.11	
4/ 2 11:41: 0		2.0333	4982.12	114.92	-.10	
4/ 2 11:42: 0		2.0500	4982.02	114.92	-.10	
4/ 2 11:43: 0		2.0667	4981.92	114.92	-.10	
4/ 2 11:44: 0		2.0833	4981.83	114.92	-.10	
4/ 2 11:45: 0		2.1000	4981.71	114.92	-.11	
4/ 2 11:46: 0		2.1167	4981.63	114.92	-.08	
4/ 2 11:47: 0		2.1333	4981.55	114.92	-.08	
4/ 2 11:48: 0		2.1500	4981.46	114.93	-.10	
4/ 2 11:49: 0		2.1667	4981.39	114.93	-.06	
4/ 2 11:50: 0		2.1833	4981.29	114.93	-.10	
4/ 2 11:51: 0		2.2000	4981.21	114.93	-.08	
4/ 2 11:52: 0		2.2167	4981.11	114.93	-.10	
4/ 2 11:53: 0		2.2333	4981.02	114.93	-.10	
4/ 2 11:54: 0		2.2500	4980.92	114.93	-.10	
4/ 2 11:55: 0		2.2667	4980.82	114.93	-.10	
4/ 2 11:56: 0		2.2833	4980.72	114.93	-.10	
4/ 2 11:57: 0		2.3000	4980.63	114.94	-.10	
4/ 2 11:58: 0		2.3167	4980.56	114.94	-.06	
4/ 2 11:59: 0		2.3333	4980.48	114.94	-.08	
4/ 2 12: 0: 0		2.3500	4980.38	114.94	-.10	
4/ 2 12: 1: 0		2.3667	4980.27	114.94	-.11	
4/ 2 12: 2: 0		2.3833	4980.17	114.95	-.10	
4/ 2 12: 3: 0		2.4000	4980.08	114.95	-.10	
4/ 2 12: 4: 0		2.4167	4979.98	114.96	-.10	
4/ 2 12: 5: 0		2.4333	4979.90	114.96	-.08	
4/ 2 12: 6: 0		2.4500	4979.83	114.96	-.07	
4/ 2 12: 7: 0		2.4667	4979.75	114.97	-.08	
4/ 2 12: 8: 0		2.4833	4979.69	114.98	-.06	
4/ 2 12: 9: 0		2.5000	4979.61	114.98	-.08	
4/ 2 12:10: 0		2.5167	4979.53	114.99	-.08	
4/ 2 12:11: 0		2.5333	4979.47	114.99	-.06	
4/ 2 12:12: 0		2.5500	4979.38	114.99	-.08	
4/ 2 12:13: 0		2.5667	4979.30	114.99	-.08	
4/ 2 12:14: 0		2.5833	4979.19	114.99	-.11	
4/ 2 12:15: 0		2.6000	4979.09	114.99	-.10	
4/ 2 12:16: 0		2.6167	4979.00	115.00	-.10	
4/ 2 12:17: 0		2.6333	4978.88	115.00	-.11	
4/ 2 12:18: 0		2.6500	4978.77	115.01	-.11	
4/ 2 12:19: 0		2.6667	4978.67	115.01	-.10	
4/ 2 12:20: 0		2.6833	4978.58	115.01	-.10	
4/ 2 12:21: 0		2.7000	4978.48	115.01	-.10	
4/ 2 12:22: 0		2.7167	4978.38	115.01	-.10	
4/ 2 12:23: 0		2.7333	4978.01	115.01	-.37	
4/ 2 12:24: 0		2.7500	4977.62	115.01	-.39	
4/ 2 12:25: 0		2.7667	4984.79	115.03	7.17	
4/ 2 12:25:15		2.7708	4982.30	115.03	-2.49	
4/ 2 12:25:30		2.7750	4984.79	115.02	2.49	
4/ 2 12:25:45		2.7792	4985.37	115.01	.58	
4/ 2 12:26: 0		2.7833	4986.77	115.01	1.40	
4/ 2 12:26:15		2.7875	4986.78	115.00	.01	
4/ 2 12:26:30		2.7917	4986.80	114.99	.02	
4/ 2 12:26:45		2.7958	4989.17	114.99	2.38	
4/ 2 12:27: 0		2.8000	4989.61	114.98	.44	
4/ 2 12:27:15		2.8042	4988.75	114.97	-.86	
4/ 2 12:27:30		2.8083	4987.38	114.96	-1.37	
4/ 2 12:27:45		2.8125	4987.36	114.96	-.02	
4/ 2 12:28: 0		2.8167	4986.77	114.95	-.59	
4/ 2 12:29: 0		2.8333	4986.41	114.90	-.37	
4/ 2 12:30: 0		2.8500	4991.14	114.99	4.73	
4/ 2 12:31: 0		2.8667	4994.19	115.08	3.05	
4/ 2 12:32: 0		2.8833	4995.38	115.17	1.19	

RATE #1 - 1 BPM

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	12:33: 0	2.9000	4997.32	115.89	1.94	
4/ 2	12:34: 0	2.9167	4997.34	118.86	.02	
4/ 2	12:35: 0	2.9333	4998.26	122.11	.93	
4/ 2	12:36: 0	2.9500	4998.53	125.22	.27	
4/ 2	12:37: 0	2.9667	4999.74	129.61	1.20	
4/ 2	12:38: 0	2.9833	5001.61	133.26	1.87	
4/ 2	12:39: 0	3.0000	5003.61	136.91	2.00	
4/ 2	12:40: 0	3.0167	5005.90	140.57	2.29	
4/ 2	12:41: 0	3.0333	5008.37	142.91	2.47	
4/ 2	12:42: 0	3.0500	5010.68	143.62	2.32	
4/ 2	12:43: 0	3.0667	5013.00	144.33	2.32	
4/ 2	12:44: 0	3.0833	5015.32	145.04	2.32	
4/ 2	12:45: 0	3.1000	5023.11	144.41	7.79	
4/ 2	12:45:15	3.1042	5023.80	144.19	.69	RATE #2 - 2 BPM
4/ 2	12:45:30	3.1083	5025.13	143.94	1.33	
4/ 2	12:45:45	3.1125	5026.32	143.69	1.19	
4/ 2	12:46: 0	3.1167	5027.52	143.44	1.20	
4/ 2	12:46:15	3.1208	5028.71	143.19	1.19	
4/ 2	12:46:30	3.1250	5029.76	142.94	1.06	
4/ 2	12:46:45	3.1292	5030.67	142.69	.91	
4/ 2	12:47: 0	3.1333	5031.60	142.44	.93	
4/ 2	12:47:15	3.1375	5032.84	142.19	1.23	
4/ 2	12:47:30	3.1417	5033.15	141.94	.31	
4/ 2	12:47:45	3.1458	5034.34	141.69	1.19	
4/ 2	12:48: 0	3.1500	5034.64	141.44	.30	
4/ 2	12:48:15	3.1542	5035.24	141.27	.60	
4/ 2	12:48:30	3.1583	5036.38	141.15	1.14	
4/ 2	12:48:45	3.1625	5036.71	141.04	.32	
4/ 2	12:49: 0	3.1667	5037.25	140.93	.55	
4/ 2	12:49:15	3.1708	5038.38	140.82	1.13	
4/ 2	12:49:30	3.1750	5038.67	140.71	.29	
4/ 2	12:49:45	3.1792	5039.25	140.60	.58	
4/ 2	12:50: 0	3.1833	5039.93	140.49	.68	
4/ 2	12:50:15	3.1875	5041.06	140.38	1.13	
4/ 2	12:50:30	3.1917	5041.40	140.27	.34	
4/ 2	12:50:45	3.1958	5042.40	140.16	1.00	
4/ 2	12:51: 0	3.2000	5042.73	140.05	.34	
4/ 2	12:51:15	3.2042	5043.41	139.95	.68	
4/ 2	12:51:30	3.2083	5044.54	139.79	1.12	
4/ 2	12:51:45	3.2125	5044.87	139.63	.33	
4/ 2	12:52: 0	3.2167	5045.86	139.47	.99	
4/ 2	12:52:15	3.2208	5046.19	139.31	.33	
4/ 2	12:52:30	3.2250	5047.18	139.15	.99	
4/ 2	12:52:45	3.2292	5047.46	138.99	.28	
4/ 2	12:53: 0	3.2333	5048.03	138.82	.57	
4/ 2	12:53:15	3.2375	5049.03	138.67	.99	
4/ 2	12:53:30	3.2417	5049.36	138.51	.33	
4/ 2	12:53:45	3.2458	5050.03	138.35	.67	
4/ 2	12:54: 0	3.2500	5051.15	138.19	1.12	
4/ 2	12:54:15	3.2542	5051.42	137.96	.27	
4/ 2	12:54:30	3.2583	5051.80	137.71	.38	
4/ 2	12:54:45	3.2625	5052.24	137.44	.44	
4/ 2	12:55: 0	3.2667	5052.99	137.18	.75	
4/ 2	12:55:15	3.2708	5053.97	136.92	.98	
4/ 2	12:55:30	3.2750	5054.24	136.66	.26	
4/ 2	12:55:45	3.2792	5054.62	136.40	.38	
4/ 2	12:56: 0	3.2833	5055.06	136.14	.44	
4/ 2	12:56:15	3.2875	5055.54	135.88	.48	
4/ 2	12:56:30	3.2917	5056.32	135.62	.78	
4/ 2	12:56:45	3.2958	5057.30	135.36	.98	
4/ 2	12:57: 0	3.3000	5057.57	135.11	.27	
4/ 2	12:57:15	3.3042	5057.91	134.84	.35	
4/ 2	12:57:30	3.3083	5058.50	134.66	.59	
4/ 2	12:57:45	3.3125	5059.29	134.47	.79	
4/ 2	12:58: 0	3.3167	5059.49	134.29	.20	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	12:58:15	3.3208	5059.82	134.11	.33	
4/ 2	12:58:30	3.3250	5060.21	133.93	.39	
4/ 2	12:58:45	3.3292	5060.60	133.74	.39	
4/ 2	12:59: 0	3.3333	5061.03	133.56	.42	
4/ 2	12:59:15	3.3375	5061.75	133.38	.72	
4/ 2	12:59:30	3.3417	5062.56	133.19	.81	
4/ 2	12:59:45	3.3458	5066.08	133.01	3.52	
4/ 2	13: 0: 0	3.3500	5067.07	132.83	.99	RATE #3 - 3 BPM
4/ 2	13: 0:15	3.3542	5068.55	132.77	1.48	
4/ 2	13: 0:30	3.3583	5069.81	132.87	1.26	
4/ 2	13: 0:45	3.3625	5070.91	132.97	1.10	
4/ 2	13: 1: 0	3.3667	5072.04	133.07	1.13	
4/ 2	13: 1:15	3.3708	5073.15	133.17	1.10	
4/ 2	13: 1:30	3.3750	5074.13	133.26	.98	
4/ 2	13: 1:45	3.3792	5075.10	133.36	.97	
4/ 2	13: 2: 0	3.3833	5075.94	133.46	.84	
4/ 2	13: 2:15	3.3875	5076.78	133.56	.84	
4/ 2	13: 2:30	3.3917	5077.63	133.66	.84	
4/ 2	13: 2:45	3.3958	5078.47	133.76	.84	
4/ 2	13: 3: 0	3.4000	5079.31	133.85	.84	
4/ 2	13: 3:15	3.4042	5080.17	134.09	.86	
4/ 2	13: 3:30	3.4083	5081.04	134.40	.87	
4/ 2	13: 3:45	3.4125	5082.24	134.71	1.20	
4/ 2	13: 4: 0	3.4167	5082.64	135.01	.40	
4/ 2	13: 4:15	3.4208	5083.71	135.32	1.07	
4/ 2	13: 4:30	3.4250	5084.11	135.63	.40	
4/ 2	13: 4:45	3.4292	5085.39	135.94	1.28	
4/ 2	13: 5: 0	3.4333	5085.77	136.25	.39	
4/ 2	13: 5:15	3.4375	5086.45	136.56	.68	
4/ 2	13: 5:30	3.4417	5087.20	136.87	.74	
4/ 2	13: 5:45	3.4458	5088.39	137.18	1.20	
4/ 2	13: 6: 0	3.4500	5088.79	137.49	.40	
4/ 2	13: 6:15	3.4542	5089.86	137.82	1.07	
4/ 2	13: 6:30	3.4583	5090.26	138.10	.40	
4/ 2	13: 6:45	3.4625	5091.54	138.39	1.27	
4/ 2	13: 7: 0	3.4667	5091.92	138.68	.38	
4/ 2	13: 7:15	3.4708	5092.59	138.96	.67	
4/ 2	13: 7:30	3.4750	5093.65	139.25	1.06	
4/ 2	13: 7:45	3.4792	5094.06	139.54	.40	
4/ 2	13: 8: 0	3.4833	5094.79	139.83	.74	
4/ 2	13: 8:15	3.4875	5095.98	140.11	1.19	
4/ 2	13: 8:30	3.4917	5096.38	140.40	.40	
4/ 2	13: 8:45	3.4958	5097.45	140.69	1.06	
4/ 2	13: 9: 0	3.5000	5097.79	140.97	.35	
4/ 2	13: 9:15	3.5042	5098.25	141.20	.46	
4/ 2	13: 9:30	3.5083	5099.00	141.37	.75	
4/ 2	13: 9:45	3.5125	5100.05	141.54	1.04	
4/ 2	13:10: 0	3.5167	5100.43	141.71	.38	
4/ 2	13:10:15	3.5208	5101.47	141.87	1.04	
4/ 2	13:10:30	3.5250	5101.85	142.04	.38	
4/ 2	13:10:45	3.5292	5102.90	142.21	1.04	
4/ 2	13:11: 0	3.5333	5103.28	142.38	.38	
4/ 2	13:11:15	3.5375	5104.32	142.54	1.04	
4/ 2	13:11:30	3.5417	5104.65	142.71	.33	
4/ 2	13:11:45	3.5458	5105.27	142.88	.62	
4/ 2	13:12: 0	3.5500	5106.31	143.04	1.04	
4/ 2	13:12:15	3.5542	5106.64	143.15	.32	
4/ 2	13:12:30	3.5583	5107.07	143.22	.43	
4/ 2	13:12:45	3.5625	5107.56	143.27	.49	
4/ 2	13:13: 0	3.5667	5108.09	143.33	.53	
4/ 2	13:13:15	3.5708	5108.92	143.40	.83	
4/ 2	13:13:30	3.5750	5109.95	143.45	1.03	
4/ 2	13:13:45	3.5792	5110.26	143.51	.32	
4/ 2	13:14: 0	3.5833	5110.87	143.56	.60	
4/ 2	13:14:15	3.5875	5105.09	143.63	-5.77	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	13:14:30	3.5917	5107.85	143.68	2.75	
4/ 2	13:14:45	3.5958	5113.63	143.74	5.78	
4/ 2	13:15: 0	3.6000	5117.75	143.80	4.13	RATE #4 - 4 BPM
4/ 2	13:15:15	3.6042	5117.61	143.81	-.14	
4/ 2	13:15:30	3.6083	5118.21	143.80	.60	
4/ 2	13:15:45	3.6125	5119.72	143.78	1.52	
4/ 2	13:16: 0	3.6167	5121.22	143.77	1.50	
4/ 2	13:16:15	3.6208	5122.74	143.76	1.52	
4/ 2	13:16:30	3.6250	5124.09	143.74	1.35	
4/ 2	13:16:45	3.6292	5125.19	143.72	1.10	
4/ 2	13:17: 0	3.6333	5126.29	143.71	1.10	
4/ 2	13:17:15	3.6375	5127.53	143.69	1.24	
4/ 2	13:17:30	3.6417	5128.75	143.68	1.23	
4/ 2	13:17:45	3.6458	5129.70	143.66	.95	
4/ 2	13:18: 0	3.6500	5130.67	143.65	.97	
4/ 2	13:18:15	3.6542	5131.62	143.61	.95	
4/ 2	13:18:30	3.6583	5132.57	143.51	.96	
4/ 2	13:18:45	3.6625	5133.84	143.43	1.26	
4/ 2	13:19: 0	3.6667	5134.18	143.34	.34	
4/ 2	13:19:15	3.6708	5135.01	143.25	.83	
4/ 2	13:19:30	3.6750	5135.95	143.16	.94	
4/ 2	13:19:45	3.6792	5136.91	143.08	.96	
4/ 2	13:20: 0	3.6833	5137.85	142.98	.94	
4/ 2	13:20:15	3.6875	5138.66	142.90	.81	
4/ 2	13:20:30	3.6917	5139.47	142.81	.81	
4/ 2	13:20:45	3.6958	5140.43	142.72	.96	
4/ 2	13:21: 0	3.7000	5141.69	142.63	1.26	
4/ 2	13:21:15	3.7042	5142.03	142.51	.34	
4/ 2	13:21:30	3.7083	5142.70	142.36	.67	
4/ 2	13:21:45	3.7125	5143.51	142.22	.80	
4/ 2	13:22: 0	3.7167	5144.31	142.07	.80	
4/ 2	13:22:15	3.7208	5145.12	141.93	.80	
4/ 2	13:22:30	3.7250	5146.24	141.78	1.13	
4/ 2	13:22:45	3.7292	5146.58	141.64	.34	
4/ 2	13:23: 0	3.7333	5147.25	141.49	.67	
4/ 2	13:23:15	3.7375	5148.06	141.35	.81	
4/ 2	13:23:30	3.7417	5148.86	141.20	.80	
4/ 2	13:23:45	3.7458	5149.92	141.06	1.06	
4/ 2	13:24: 0	3.7500	5150.18	140.91	.25	
4/ 2	13:24:15	3.7542	5150.72	140.75	.54	
4/ 2	13:24:30	3.7583	5151.52	140.59	.80	
4/ 2	13:24:45	3.7625	5152.33	140.42	.80	
4/ 2	13:25: 0	3.7667	5153.13	140.26	.80	
4/ 2	13:25:15	3.7708	5153.93	140.09	.80	
4/ 2	13:25:30	3.7750	5154.73	139.93	.80	
4/ 2	13:25:45	3.7792	5155.53	139.76	.80	
4/ 2	13:26: 0	3.7833	5156.66	139.59	1.13	
4/ 2	13:26:15	3.7875	5156.99	139.43	.33	
4/ 2	13:26:30	3.7917	5157.66	139.26	.67	
4/ 2	13:26:45	3.7958	5158.46	139.09	.80	
4/ 2	13:27: 0	3.8000	5159.59	138.93	1.13	
4/ 2	13:27:15	3.8042	5159.92	138.76	.33	
4/ 2	13:27:30	3.8083	5160.92	138.59	1.00	
4/ 2	13:27:45	3.8125	5161.20	138.42	.28	
4/ 2	13:28: 0	3.8167	5161.60	138.24	.40	
4/ 2	13:28:15	3.8208	5162.31	138.07	.71	
4/ 2	13:28:30	3.8250	5163.30	137.90	.99	
4/ 2	13:28:45	3.8292	5163.63	137.72	.33	
4/ 2	13:29: 0	3.8333	5164.63	137.54	.99	
4/ 2	13:29:15	3.8375	5164.96	137.37	.33	
4/ 2	13:29:30	3.8417	5167.95	137.20	2.99	
4/ 2	13:29:45	3.8458	5172.60	137.02	4.65	
4/ 2	13:30: 0	3.8500	5173.01	136.85	.41	RATE #5 - 5 BPM
4/ 2	13:30:15	3.8542	5173.81	136.67	.80	
4/ 2	13:30:30	3.8583	5175.05	136.47	1.24	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	13:30:45	3.8625	5176.82	136.27	1.77	
4/ 2	13:31: 0	3.8667	5178.43	136.06	1.61	
4/ 2	13:31:15	3.8708	5178.41	135.87	-.02	
4/ 2	13:31:30	3.8750	5181.77	135.66	3.36	
4/ 2	13:31:45	3.8792	5180.87	135.46	-.90	
4/ 2	13:32: 0	3.8833	5180.65	135.25	-.22	
4/ 2	13:32:15	3.8875	5185.00	135.06	4.35	
4/ 2	13:32:30	3.8917	5185.41	134.85	.41	
4/ 2	13:32:45	3.8958	5189.90	134.65	4.49	
4/ 2	13:33: 0	3.9000	5186.84	134.45	-3.05	
4/ 2	13:33:15	3.9042	5189.84	134.23	3.00	
4/ 2	13:33:30	3.9083	5189.86	133.99	.02	
4/ 2	13:33:45	3.9125	5190.07	133.75	.21	
4/ 2	13:34: 0	3.9167	5190.73	133.50	.66	
4/ 2	13:34:15	3.9208	5192.06	133.26	1.33	
4/ 2	13:34:30	3.9250	5192.46	133.02	.39	
4/ 2	13:34:45	3.9292	5193.12	132.78	.67	
4/ 2	13:35: 0	3.9333	5194.06	132.53	.94	
4/ 2	13:35:15	3.9375	5195.13	132.29	1.07	
4/ 2	13:35:30	3.9417	5196.06	132.05	.93	
4/ 2	13:35:45	3.9458	5196.85	131.81	.80	
4/ 2	13:36: 0	3.9500	5197.65	131.57	.79	
4/ 2	13:36:15	3.9542	5198.44	131.32	.79	
4/ 2	13:36:30	3.9583	5199.24	131.07	.79	
4/ 2	13:36:45	3.9625	5200.03	130.82	.79	
4/ 2	13:37: 0	3.9667	5200.83	130.57	.80	
4/ 2	13:37:15	3.9708	5201.62	130.32	.79	
4/ 2	13:37:30	3.9750	5202.42	130.08	.80	
4/ 2	13:37:45	3.9792	5203.21	129.82	.79	
4/ 2	13:38: 0	3.9833	5204.27	129.58	1.06	
4/ 2	13:38:15	3.9875	5204.51	129.33	.24	
4/ 2	13:38:30	3.9917	5204.02	129.08	-.49	
4/ 2	13:38:45	3.9958	5204.24	128.83	.21	
4/ 2	13:39: 0	4.0000	5204.51	128.58	.28	
4/ 2	13:39:15	4.0042	5204.90	128.34	.39	
4/ 2	13:39:30	4.0083	5205.60	128.10	.70	
4/ 2	13:39:45	4.0125	5206.60	127.86	.99	
4/ 2	13:40: 0	4.0167	5206.92	127.62	.33	
4/ 2	13:40:15	4.0208	5207.92	127.39	.99	
4/ 2	13:40:30	4.0250	5208.24	127.15	.33	
4/ 2	13:40:45	4.0292	5210.95	126.91	2.71	
4/ 2	13:41: 0	4.0333	5211.49	126.67	.54	
4/ 2	13:41:15	4.0375	5211.50	126.43	.01	
4/ 2	13:41:30	4.0417	5211.74	126.20	.24	
4/ 2	13:41:45	4.0458	5212.10	125.96	.36	
4/ 2	13:42: 0	4.0500	5212.75	125.72	.65	
4/ 2	13:42:15	4.0542	5213.42	125.48	.67	
4/ 2	13:42:30	4.0583	5214.22	125.23	.80	
4/ 2	13:42:45	4.0625	5215.01	124.99	.80	
4/ 2	13:43: 0	4.0667	5215.81	124.74	.80	
4/ 2	13:43:15	4.0708	5216.93	124.50	1.12	
4/ 2	13:43:30	4.0750	5217.26	124.25	.33	
4/ 2	13:43:45	4.0792	5217.93	124.01	.67	
4/ 2	13:44: 0	4.0833	5218.73	123.77	.80	
4/ 2	13:44:15	4.0875	5219.67	123.53	.94	
4/ 2	13:44:30	4.0917	5224.30	123.28	4.63	
4/ 2	13:44:45	4.0958	5225.29	123.04	.99	
4/ 2	13:45: 0	4.1000	5226.90	122.79	1.61	
4/ 2	13:45:15	4.1042	5228.25	122.56	1.35	
4/ 2	13:45:30	4.1083	5229.46	122.32	1.20	
4/ 2	13:45:45	4.1125	5230.53	122.07	1.08	
4/ 2	13:46: 0	4.1167	5231.46	121.84	.93	
4/ 2	13:46:15	4.1208	5232.41	121.59	.95	
4/ 2	13:46:30	4.1250	5233.63	121.36	1.22	
4/ 2	13:46:45	4.1292	5234.69	121.11	1.06	

RATE #6 - 6 BPM

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	13:47: 0	4.1333	5235.63	120.87	.95	
4/ 2	13:47:15	4.1375	5236.71	120.63	1.08	
4/ 2	13:47:30	4.1417	5237.64	120.39	.93	
4/ 2	13:47:45	4.1458	5238.59	120.15	.95	
4/ 2	13:48: 0	4.1500	5239.52	119.91	.93	
4/ 2	13:48:15	4.1542	5240.32	119.67	.80	
4/ 2	13:48:30	4.1583	5241.27	119.45	.95	
4/ 2	13:48:45	4.1625	5242.20	119.22	.93	
4/ 2	13:49: 0	4.1667	5243.00	118.99	.80	
4/ 2	13:49:15	4.1708	5243.80	118.76	.80	
4/ 2	13:49:30	4.1750	5244.60	118.53	.80	
4/ 2	13:49:45	4.1792	5245.40	118.30	.80	
4/ 2	13:50: 0	4.1833	5246.21	118.07	.80	
4/ 2	13:50:15	4.1875	5247.55	117.84	1.34	
4/ 2	13:50:30	4.1917	5247.86	117.61	.31	
4/ 2	13:50:45	4.1958	5248.27	117.38	.41	
4/ 2	13:51: 0	4.2000	5248.72	117.15	.45	
4/ 2	13:51:15	4.2042	5249.38	116.94	.66	
4/ 2	13:51:30	4.2083	5250.18	116.73	.81	
4/ 2	13:51:45	4.2125	5250.38	116.52	.20	
4/ 2	13:52: 0	4.2167	5250.83	116.32	.45	
4/ 2	13:52:15	4.2208	5251.51	116.11	.67	
4/ 2	13:52:30	4.2250	5252.31	115.90	.81	
4/ 2	13:52:45	4.2292	5253.12	115.70	.81	
4/ 2	13:53: 0	4.2333	5253.92	115.49	.80	
4/ 2	13:53:15	4.2375	5255.06	115.29	1.13	
4/ 2	13:53:30	4.2417	5255.39	115.08	.34	
4/ 2	13:53:45	4.2458	5256.39	114.88	1.00	
4/ 2	13:54: 0	4.2500	5256.68	114.67	.29	
4/ 2	13:54:15	4.2542	5257.26	114.47	.58	
4/ 2	13:54:30	4.2583	5258.47	114.28	1.22	
4/ 2	13:54:45	4.2625	5258.87	114.08	.40	
4/ 2	13:55: 0	4.2667	5259.87	113.88	1.00	
4/ 2	13:55:15	4.2708	5260.21	113.68	.34	
4/ 2	13:55:30	4.2750	5260.89	113.48	.68	
4/ 2	13:55:45	4.2792	5261.69	113.28	.81	
4/ 2	13:56: 0	4.2833	5262.50	113.08	.81	
4/ 2	13:56:15	4.2875	5263.63	112.88	1.13	
4/ 2	13:56:30	4.2917	5263.97	112.68	.33	
4/ 2	13:56:45	4.2958	5264.97	112.48	1.00	
4/ 2	13:57: 0	4.3000	5265.31	112.29	.34	
4/ 2	13:57:15	4.3042	5266.31	112.08	1.00	
4/ 2	13:57:30	4.3083	5266.65	111.90	.34	
4/ 2	13:57:45	4.3125	5267.33	111.70	.68	
4/ 2	13:58: 0	4.3167	5268.46	111.51	1.13	
4/ 2	13:58:15	4.3208	5268.80	111.32	.34	
4/ 2	13:58:30	4.3250	5269.48	111.13	.68	
4/ 2	13:58:45	4.3292	5270.28	110.93	.81	
4/ 2	13:59: 0	4.3333	5271.68	110.74	1.40	
4/ 2	13:59:15	4.3375	5276.17	110.55	4.49	
4/ 2	13:59:30	4.3417	5276.58	110.36	.42	
4/ 2	13:59:45	4.3458	5277.87	110.16	1.28	
4/ 2	14: 0: 0	4.3500	5278.11	109.98	.24	
4/ 2	14: 0:15	4.3542	5278.59	109.80	.48	
4/ 2	14: 0:30	4.3583	5279.60	109.62	1.01	
4/ 2	14: 0:45	4.3625	5279.94	109.46	.34	
4/ 2	14: 1: 0	4.3667	5280.77	109.28	.83	
4/ 2	14: 1:15	4.3708	5281.71	109.12	.94	
4/ 2	14: 1:30	4.3750	5282.67	108.94	.96	
4/ 2	14: 1:45	4.3792	5283.76	108.78	1.09	
4/ 2	14: 2: 0	4.3833	5284.70	108.61	.94	
4/ 2	14: 2:15	4.3875	5285.51	108.44	.81	
4/ 2	14: 2:30	4.3917	5286.32	108.27	.81	
4/ 2	14: 2:45	4.3958	5287.14	108.10	.81	
4/ 2	14: 3: 0	4.4000	5287.95	107.93	.81	

RATE #7 - 7 BPM

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	14: 3:15	4.4042	5288.76	107.77	.81	
4/ 2	14: 3:30	4.4083	5290.12	107.62	1.35	
4/ 2	14: 3:45	4.4125	5290.52	107.46	.41	
4/ 2	14: 4: 0	4.4167	5291.21	107.31	.69	
4/ 2	14: 4:15	4.4208	5292.35	107.16	1.14	
4/ 2	14: 4:30	4.4250	5292.69	107.01	.34	
4/ 2	14: 4:45	4.4292	5293.37	106.86	.69	
4/ 2	14: 5: 0	4.4333	5294.19	106.70	.81	
4/ 2	14: 5:15	4.4375	5295.26	106.55	1.08	
4/ 2	14: 5:30	4.4417	5295.52	106.40	.26	
4/ 2	14: 5:45	4.4458	5296.40	106.25	.88	
4/ 2	14: 6: 0	4.4500	5296.75	106.10	.34	
4/ 2	14: 6:15	4.4542	5297.43	105.94	.68	
4/ 2	14: 6:30	4.4583	5298.57	105.80	1.14	
4/ 2	14: 6:45	4.4625	5298.92	105.65	.34	
4/ 2	14: 7: 0	4.4667	5299.60	105.51	.69	
4/ 2	14: 7:15	4.4708	5300.75	105.37	1.14	
4/ 2	14: 7:30	4.4750	5301.04	105.23	.29	
4/ 2	14: 7:45	4.4792	5301.63	105.09	.59	
4/ 2	14: 8: 0	4.4833	5302.64	104.95	1.01	
4/ 2	14: 8:15	4.4875	5302.94	104.80	.29	
4/ 2	14: 8:30	4.4917	5303.35	104.67	.41	
4/ 2	14: 8:45	4.4958	5303.82	104.52	.47	
4/ 2	14: 9: 0	4.5000	5304.33	104.38	.51	
4/ 2	14: 9:15	4.5042	5305.14	104.24	.82	
4/ 2	14: 9:30	4.5083	5306.09	104.11	.95	
4/ 2	14: 9:45	4.5125	5306.35	103.97	.26	
4/ 2	14:10: 0	4.5167	5307.24	103.84	.88	
4/ 2	14:10:15	4.5208	5307.58	103.70	.35	
4/ 2	14:10:30	4.5250	5308.74	103.56	1.16	
4/ 2	14:10:45	4.5292	5308.99	103.43	.25	
4/ 2	14:11: 0	4.5333	5309.35	103.29	.36	
4/ 2	14:11:15	4.5375	5309.81	103.15	.46	
4/ 2	14:11:30	4.5417	5310.56	103.02	.75	
4/ 2	14:11:45	4.5458	5311.51	102.88	.95	
4/ 2	14:12: 0	4.5500	5311.69	102.75	.18	
4/ 2	14:12:15	4.5542	5312.04	102.61	.35	
4/ 2	14:12:30	4.5583	5312.92	102.49	.88	
4/ 2	14:12:45	4.5625	5313.22	102.37	.30	
4/ 2	14:13: 0	4.5667	5313.81	102.25	.59	
4/ 2	14:13:15	4.5708	5314.83	102.13	1.02	
4/ 2	14:13:30	4.5750	5315.09	102.01	.26	
4/ 2	14:13:45	4.5792	5315.57	101.88	.48	
4/ 2	14:14: 0	4.5833	5316.13	101.77	.56	
4/ 2	14:14:15	4.5875	5319.56	101.64	3.43	
4/ 2	14:14:30	4.5917	5320.28	101.53	.72	
4/ 2	14:14:45	4.5958	5321.50	101.40	1.23	
4/ 2	14:15: 0	4.6000	5322.60	101.29	1.10	RATE #8 - 8 BPM
4/ 2	14:15:15	4.6042	5323.70	101.17	1.10	
4/ 2	14:15:30	4.6083	5324.65	101.06	.95	
4/ 2	14:15:45	4.6125	5325.80	100.96	1.15	
4/ 2	14:16: 0	4.6167	5326.15	100.86	.35	
4/ 2	14:16:15	4.6208	5326.84	100.75	.69	
4/ 2	14:16:30	4.6250	5327.99	100.65	1.15	
4/ 2	14:16:45	4.6292	5328.34	100.54	.35	
4/ 2	14:17: 0	4.6333	5329.35	100.44	1.02	
4/ 2	14:17:15	4.6375	5329.70	100.33	.35	
4/ 2	14:17:30	4.6417	5330.72	100.23	1.02	
4/ 2	14:17:45	4.6458	5331.07	100.13	.35	
4/ 2	14:18: 0	4.6500	5332.09	100.02	1.02	
4/ 2	14:18:15	4.6542	5332.39	99.92	.30	
4/ 2	14:18:30	4.6583	5332.80	99.83	.42	
4/ 2	14:18:45	4.6625	5333.53	99.74	.72	
4/ 2	14:19: 0	4.6667	5334.55	99.64	1.02	
4/ 2	14:19:15	4.6708	5334.85	99.56	.30	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	14:19:30	4.6750	5335.27	99.47	.42	
4/ 2	14:19:45	4.6792	5335.75	99.37	.48	
4/ 2	14:20: 0	4.6833	5336.26	99.28	.51	
4/ 2	14:20:15	4.6875	5336.79	99.19	.53	
4/ 2	14:20:30	4.6917	5337.33	99.10	.54	
4/ 2	14:20:45	4.6958	5337.88	99.00	.55	
4/ 2	14:21: 0	4.7000	5338.43	98.92	.55	
4/ 2	14:21:15	4.7042	5338.97	98.83	.55	
4/ 2	14:21:30	4.7083	5339.49	98.74	.51	
4/ 2	14:21:45	4.7125	5340.21	98.65	.73	
4/ 2	14:22: 0	4.7167	5341.10	98.57	.89	
4/ 2	14:22:15	4.7208	5341.40	98.48	.30	
4/ 2	14:22:30	4.7250	5341.82	98.40	.42	
4/ 2	14:22:45	4.7292	5342.30	98.31	.48	
4/ 2	14:23: 0	4.7333	5342.82	98.23	.51	
4/ 2	14:23:15	4.7375	5343.35	98.14	.53	
4/ 2	14:23:30	4.7417	5343.89	98.06	.55	
4/ 2	14:23:45	4.7458	5344.44	97.97	.55	
4/ 2	14:24: 0	4.7500	5344.92	97.88	.48	
4/ 2	14:24:15	4.7542	5345.53	97.79	.61	
4/ 2	14:24:30	4.7583	5346.29	97.71	.76	
4/ 2	14:24:45	4.7625	5346.53	97.63	.24	
4/ 2	14:25: 0	4.7667	5346.90	97.55	.37	
4/ 2	14:25:15	4.7708	5347.66	97.46	.76	
4/ 2	14:25:30	4.7750	5347.93	97.38	.27	
4/ 2	14:25:45	4.7792	5348.26	97.30	.34	
4/ 2	14:26: 0	4.7833	5348.66	97.22	.40	
4/ 2	14:26:15	4.7875	5349.11	97.13	.45	
4/ 2	14:26:30	4.7917	5349.53	97.05	.42	
4/ 2	14:26:45	4.7958	5349.95	96.97	.42	
4/ 2	14:27: 0	4.8000	5350.59	96.89	.65	
4/ 2	14:28: 0	4.8167	5351.57	96.56	.98	
4/ 2	14:29: 0	4.8333	5353.51	96.29	1.93	
4/ 2	14:30: 0	4.8500	5359.25	96.01	5.74	8.2 BPM - SUPPLY PROBLEMS FROM PLANT
4/ 2	14:31: 0	4.8667	5362.27	95.73	3.03	
4/ 2	14:32: 0	4.8833	5362.84	95.48	.57	
4/ 2	14:33: 0	4.9000	5353.35	95.23	-9.49	
4/ 2	14:33:15	4.9042	5353.05	95.18	-.30	
4/ 2	14:33:30	4.9083	5353.66	95.13	.62	
4/ 2	14:33:45	4.9125	5357.77	95.08	4.11	
4/ 2	14:34: 0	4.9167	5358.80	95.02	1.02	
4/ 2	14:34:15	4.9208	5362.21	94.98	3.41	
4/ 2	14:34:30	4.9250	5363.08	94.92	.88	
4/ 2	14:34:45	4.9292	5364.60	94.87	1.52	
4/ 2	14:35: 0	4.9333	5368.58	94.82	3.98	
4/ 2	14:35:15	4.9375	5369.75	94.77	1.17	
4/ 2	14:35:30	4.9417	5371.82	94.71	2.07	
4/ 2	14:35:45	4.9458	5373.17	94.67	1.35	
4/ 2	14:36: 0	4.9500	5374.44	94.61	1.27	
4/ 2	14:36:15	4.9542	5376.40	94.58	1.96	
4/ 2	14:36:30	4.9583	5378.32	94.55	1.92	
4/ 2	14:36:45	4.9625	5379.54	94.53	1.22	
4/ 2	14:37: 0	4.9667	5381.13	94.51	1.58	
4/ 2	14:37:15	4.9708	5381.47	94.48	.34	
4/ 2	14:37:30	4.9750	5382.02	94.46	.55	
4/ 2	14:37:45	4.9792	5383.34	94.44	1.32	
4/ 2	14:38: 0	4.9833	5383.83	94.42	.49	
4/ 2	14:38:15	4.9875	5384.86	94.39	1.03	
4/ 2	14:38:30	4.9917	5385.13	94.37	.28	
4/ 2	14:38:45	4.9958	5385.38	94.35	.24	
4/ 2	14:39: 0	5.0000	5385.60	94.32	.23	
4/ 2	14:39:15	5.0042	5386.11	94.32	.51	
4/ 2	14:39:30	5.0083	5386.09	94.32	-.02	
4/ 2	14:39:45	5.0125	5386.62	94.33	.52	
4/ 2	14:40: 0	5.0167	5387.19	94.33	.57	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	14:40:15	5.0208	5387.65	94.34	.46	
4/ 2	14:40:30	5.0250	5388.01	94.34	.36	
4/ 2	14:40:45	5.0292	5388.40	94.35	.39	
4/ 2	14:41: 0	5.0333	5388.81	94.35	.41	
4/ 2	14:41:15	5.0375	5389.15	94.35	.34	
4/ 2	14:41:30	5.0417	5389.66	94.35	.51	
4/ 2	14:41:45	5.0458	5390.83	94.36	1.18	
4/ 2	14:42: 0	5.0500	5391.18	94.36	.34	
4/ 2	14:43: 0	5.0667	5395.75	94.38	4.58	
4/ 2	14:44: 0	5.0833	5399.64	94.36	3.89	
4/ 2	14:45: 0	5.1000	5400.52	94.34	.88	
4/ 2	14:46: 0	5.1167	5404.36	94.32	3.84	
4/ 2	14:47: 0	5.1333	5405.38	94.32	1.03	
4/ 2	14:48: 0	5.1500	5403.80	94.35	-1.58	
4/ 2	14:49: 0	5.1667	5417.13	94.39	13.33	
4/ 2	14:49:15	5.1708	5418.02	94.39	.88	
4/ 2	14:49:30	5.1750	5419.73	94.40	1.71	
4/ 2	14:49:45	5.1792	5419.90	94.41	.16	
4/ 2	14:50: 0	5.1833	5418.90	94.41	-1.00	RATE #9 - 9 BPM
4/ 2	14:50:15	5.1875	5422.69	94.43	3.79	
4/ 2	14:50:30	5.1917	5423.28	94.43	.59	
4/ 2	14:50:45	5.1958	5424.25	94.44	.97	
4/ 2	14:51: 0	5.2000	5425.23	94.45	.98	
4/ 2	14:51:15	5.2042	5426.94	94.46	1.71	
4/ 2	14:51:30	5.2083	5427.43	94.47	.49	
4/ 2	14:51:45	5.2125	5428.14	94.47	.70	
4/ 2	14:52: 0	5.2167	5428.97	94.49	.83	
4/ 2	14:52:15	5.2208	5430.13	94.50	1.16	
4/ 2	14:52:30	5.2250	5430.49	94.52	.36	
4/ 2	14:52:45	5.2292	5431.19	94.54	.70	
4/ 2	14:53: 0	5.2333	5432.36	94.56	1.16	
4/ 2	14:53:15	5.2375	5432.72	94.58	.36	
4/ 2	14:53:30	5.2417	5433.75	94.61	1.03	
4/ 2	14:53:45	5.2458	5434.06	94.63	.31	
4/ 2	14:54: 0	5.2500	5434.67	94.65	.61	
4/ 2	14:54:15	5.2542	5435.70	94.67	1.03	
4/ 2	14:54:30	5.2583	5435.98	94.69	.28	
4/ 2	14:54:45	5.2625	5436.32	94.71	.34	
4/ 2	14:55: 0	5.2667	5436.73	94.74	.41	
4/ 2	14:55:15	5.2708	5437.19	94.76	.46	
4/ 2	14:55:30	5.2750	5437.62	94.78	.43	
4/ 2	14:55:45	5.2792	5438.29	94.81	.67	
4/ 2	14:56: 0	5.2833	5439.25	94.84	.97	
4/ 2	14:56:15	5.2875	5439.48	94.87	.23	
4/ 2	14:56:30	5.2917	5439.85	94.89	.36	
4/ 2	14:56:45	5.2958	5440.27	94.92	.43	
4/ 2	14:57: 0	5.3000	5440.93	94.94	.65	
4/ 2	14:57:15	5.3042	5441.50	94.97	.57	
4/ 2	14:57:30	5.3083	5441.49	95.00	-.01	
4/ 2	14:57:45	5.3125	5442.04	95.02	.55	
4/ 2	14:58: 0	5.3167	5442.47	95.05	.43	
4/ 2	14:59: 0	5.3333	5443.62	95.13	1.15	
4/ 2	15: 0: 0	5.3500	5445.44	95.19	1.82	
4/ 2	15: 1: 0	5.3667	5447.24	95.24	1.80	
4/ 2	15: 2: 0	5.3833	5448.76	95.29	1.52	
4/ 2	15: 3: 0	5.4000	5450.82	95.29	2.06	
4/ 2	15: 4: 0	5.4167	5451.37	95.26	.55	
4/ 2	15: 5: 0	5.4333	5458.85	95.24	7.48	RATE #10 - 10 BPM
4/ 2	15: 5:15	5.4375	5459.29	95.23	.44	
4/ 2	15: 5:30	5.4417	5460.27	95.21	.98	
4/ 2	15: 5:45	5.4458	5461.67	95.20	1.40	
4/ 2	15: 6: 0	5.4500	5463.19	95.18	1.52	
4/ 2	15: 6:15	5.4542	5468.56	95.17	5.37	
4/ 2	15: 6:30	5.4583	5472.17	95.15	3.61	
4/ 2	15: 6:45	5.4625	5473.20	95.14	1.03	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2 15: 7: 0		5.4667	5473.34	95.13	.15	
4/ 2 15: 7:15		5.4708	5473.13	95.11	-.21	
4/ 2 15: 7:30		5.4750	5473.12	95.10	-.01	
4/ 2 15: 7:45		5.4792	5473.13	95.09	.01	
4/ 2 15: 8: 0		5.4833	5473.14	95.07	.01	
4/ 2 15: 8:15		5.4875	5473.62	95.06	.48	
4/ 2 15: 8:30		5.4917	5474.02	95.04	.41	
4/ 2 15: 8:45		5.4958	5474.48	95.02	.46	
4/ 2 15: 9: 0		5.5000	5474.99	95.01	.51	
4/ 2 15: 9:15		5.5042	5475.51	94.99	.52	
4/ 2 15: 9:30		5.5083	5476.04	94.98	.54	
4/ 2 15: 9:45		5.5125	5476.57	94.96	.52	
4/ 2 15:10: 0		5.5167	5477.02	94.95	.46	
4/ 2 15:10:15		5.5208	5477.73	94.93	.70	
4/ 2 15:10:30		5.5250	5478.69	94.92	.96	
4/ 2 15:10:45		5.5292	5478.92	94.90	.23	
4/ 2 15:11: 0		5.5333	5479.24	94.88	.33	
4/ 2 15:11:15		5.5375	5479.58	94.87	.34	
4/ 2 15:11:30		5.5417	5479.89	94.86	.31	
4/ 2 15:11:45		5.5458	5480.22	94.84	.32	
4/ 2 15:12: 0		5.5500	5480.59	94.82	.37	
4/ 2 15:12:15		5.5542	5480.98	94.80	.39	
4/ 2 15:12:30		5.5583	5481.42	94.78	.44	
4/ 2 15:12:45		5.5625	5481.88	94.76	.46	
4/ 2 15:13: 0		5.5667	5482.29	94.74	.41	
4/ 2 15:13:15		5.5708	5482.84	94.71	.55	
4/ 2 15:13:30		5.5750	5483.67	94.69	.83	
4/ 2 15:13:45		5.5792	5483.90	94.67	.23	
4/ 2 15:14: 0		5.5833	5484.37	94.66	.47	
4/ 2 15:15: 0		5.6000	5485.36	94.58	.99	
4/ 2 15:16: 0		5.6167	5486.89	94.49	1.53	
4/ 2 15:17: 0		5.6333	5492.95	94.40	6.06	
4/ 2 15:18: 0		5.6500	5501.27	94.30	8.32	
4/ 2 15:18:15		5.6542	5501.86	94.29	.59	
4/ 2 15:18:30		5.6583	5507.10	94.26	5.24	
4/ 2 15:18:45		5.6625	5512.10	94.24	5.00	
4/ 2 15:19: 0		5.6667	5513.27	94.22	1.17	
4/ 2 15:19:15		5.6708	5515.05	94.19	1.78	
4/ 2 15:19:30		5.6750	5518.21	94.17	3.15	
4/ 2 15:19:45		5.6792	5519.23	94.15	1.03	
4/ 2 15:20: 0		5.6833	5521.32	94.13	2.09	
4/ 2 15:20:15		5.6875	5519.04	94.11	-2.29	
4/ 2 15:20:30		5.6917	5523.20	94.08	4.16	
4/ 2 15:20:45		5.6958	5524.23	94.06	1.03	
4/ 2 15:21: 0		5.7000	5526.02	94.04	1.79	
4/ 2 15:21:15		5.7042	5527.54	94.02	1.52	
4/ 2 15:21:30		5.7083	5529.08	93.98	1.53	
4/ 2 15:21:45		5.7125	5532.64	93.95	3.56	
4/ 2 15:22: 0		5.7167	5538.75	93.91	6.11	
4/ 2 15:22:15		5.7208	5539.77	93.88	1.03	
4/ 2 15:22:30		5.7250	5541.86	93.84	2.09	
4/ 2 15:22:45		5.7292	5545.41	93.81	3.54	
4/ 2 15:23: 0		5.7333	5546.43	93.78	1.03	
4/ 2 15:23:15		5.7375	5548.38	93.74	1.94	
4/ 2 15:23:30		5.7417	5550.02	93.71	1.65	
4/ 2 15:23:45		5.7458	5551.67	93.67	1.65	
4/ 2 15:24: 0		5.7500	5551.69	93.63	.02	
4/ 2 15:24:15		5.7542	5551.93	93.60	.24	
4/ 2 15:24:30		5.7583	5552.79	93.56	.86	
4/ 2 15:24:45		5.7625	5554.18	93.52	1.39	
4/ 2 15:25: 0		5.7667	5555.81	93.48	1.63	
4/ 2 15:25:15		5.7708	5556.24	93.44	.42	
4/ 2 15:25:30		5.7750	5556.94	93.40	.70	
4/ 2 15:25:45		5.7792	5557.77	93.36	.83	
4/ 2 15:26: 0		5.7833	5558.89	93.32	1.13	

RATE #11 - 11 BPM

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	15:26:15	5.7875	5559.99	93.27	1.09	
4/ 2	15:26:30	5.7917	5560.82	93.23	.83	
4/ 2	15:26:45	5.7958	5561.94	93.19	1.13	
4/ 2	15:27: 0	5.8000	5563.36	93.15	1.42	
4/ 2	15:27:15	5.8042	5563.61	93.10	.24	
4/ 2	15:27:30	5.8083	5563.98	93.07	.38	
4/ 2	15:27:45	5.8125	5570.65	93.03	6.67	
4/ 2	15:28: 0	5.8167	5575.09	93.00	4.44	
4/ 2	15:28:15	5.8208	5575.38	92.97	.29	
4/ 2	15:28:30	5.8250	5571.20	92.93	-4.19	
4/ 2	15:28:45	5.8292	5577.03	92.89	5.83	
4/ 2	15:29: 0	5.8333	5579.53	92.86	2.50	
4/ 2	15:29:15	5.8375	5582.58	92.82	3.05	
4/ 2	15:29:30	5.8417	5585.08	92.79	2.50	
4/ 2	15:29:45	5.8458	5586.11	92.75	1.03	
4/ 2	15:30: 0	5.8500	5588.85	92.72	2.74	
4/ 2	15:30:15	5.8542	5589.54	92.68	.69	
4/ 2	15:30:30	5.8583	5590.54	92.65	1.00	
4/ 2	15:30:45	5.8625	5591.78	92.62	1.24	
4/ 2	15:31: 0	5.8667	5592.89	92.59	1.11	
4/ 2	15:31:15	5.8708	5594.00	92.55	1.11	
4/ 2	15:31:30	5.8750	5594.96	92.52	.96	
4/ 2	15:31:45	5.8792	5595.94	92.49	.98	
4/ 2	15:32: 0	5.8833	5597.05	92.46	1.11	
4/ 2	15:32:15	5.8875	5598.01	92.42	.96	
4/ 2	15:32:30	5.8917	5598.99	92.40	.98	
4/ 2	15:32:45	5.8958	5599.95	92.36	.96	
4/ 2	15:33: 0	5.9000	5601.33	92.33	1.37	
4/ 2	15:33:15	5.9042	5601.75	92.32	.42	
4/ 2	15:33:30	5.9083	5602.45	92.31	.70	
4/ 2	15:33:45	5.9125	5603.43	92.29	.98	
4/ 2	15:34: 0	5.9167	5604.40	92.28	.96	
4/ 2	15:34:15	5.9208	5605.23	92.27	.83	
4/ 2	15:34:30	5.9250	5606.39	92.25	1.16	
4/ 2	15:34:45	5.9292	5606.75	92.24	.36	
4/ 2	15:35: 0	5.9333	5584.78	92.22	-21.97	RATE #12 - 10 BPM
4/ 2	15:35:15	5.9375	5554.22	92.21	-30.56	
4/ 2	15:35:30	5.9417	5540.60	92.20	-13.61	
4/ 2	15:35:45	5.9458	5530.32	92.18	-10.28	
4/ 2	15:36: 0	5.9500	5521.15	92.17	-9.17	
4/ 2	15:36:15	5.9542	5512.26	92.16	-8.89	
4/ 2	15:36:30	5.9583	5503.92	92.16	-8.33	
4/ 2	15:36:45	5.9625	5496.15	92.18	-7.78	
4/ 2	15:37: 0	5.9667	5489.20	92.18	-6.95	
4/ 2	15:37:15	5.9708	5482.81	92.20	-6.39	
4/ 2	15:37:30	5.9750	5476.98	92.20	-5.83	
4/ 2	15:37:45	5.9792	5471.14	92.22	-5.83	
4/ 2	15:38: 0	5.9833	5466.42	92.22	-4.72	
4/ 2	15:38:15	5.9875	5461.14	92.24	-5.28	
4/ 2	15:38:30	5.9917	5456.14	92.25	-5.00	
4/ 2	15:38:45	5.9958	5451.14	92.26	-5.00	
4/ 2	15:39: 0	6.0000	5446.42	92.27	-4.72	
4/ 2	15:39:15	6.0042	5442.25	92.29	-4.17	
4/ 2	15:39:30	6.0083	5437.81	92.29	-4.44	
4/ 2	15:39:45	6.0125	5433.64	92.29	-4.17	
4/ 2	15:40: 0	6.0167	5429.75	92.29	-3.89	SHUT DOWN PUMPING
4/ 2	15:40:15	6.0208	5425.86	92.29	-3.89	
4/ 2	15:40:30	6.0250	5421.97	92.29	-3.89	
4/ 2	15:40:45	6.0292	5418.64	92.30	-3.33	
4/ 2	15:41: 0	6.0333	5415.31	92.30	-3.33	
4/ 2	15:41:15	6.0375	5411.97	92.30	-3.33	
4/ 2	15:41:30	6.0417	5409.19	92.30	-2.78	
4/ 2	15:41:45	6.0458	5405.86	92.30	-3.33	
4/ 2	15:42: 0	6.0500	5403.08	92.30	-2.78	
4/ 2	15:42:15	6.0542	5400.58	92.30	-2.50	

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	15:42:30	6.0583	5398.08	92.31	-2.50	
4/ 2	15:42:45	6.0625	5396.91	92.33	-1.17	
4/ 2	15:43: 0	6.0667	5394.69	92.34	-2.22	
4/ 2	15:43:15	6.0708	5392.46	92.36	-2.22	
4/ 2	15:43:30	6.0750	5390.39	92.37	-2.07	
4/ 2	15:43:45	6.0792	5388.59	92.39	-1.80	
4/ 2	15:44: 0	6.0833	5386.93	92.40	-1.67	
4/ 2	15:44:15	6.0875	5385.41	92.42	-1.52	
4/ 2	15:44:30	6.0917	5384.02	92.43	-1.39	
4/ 2	15:44:45	6.0958	5382.63	92.44	-1.39	
4/ 2	15:45: 0	6.1000	5381.39	92.46	-1.24	
4/ 2	15:45:15	6.1042	5380.43	92.49	-.96	
4/ 2	15:45:30	6.1083	5379.60	92.51	-.83	
4/ 2	15:45:45	6.1125	5378.77	92.55	-.83	
4/ 2	15:46: 0	6.1167	5377.94	92.58	-.83	
4/ 2	15:46:15	6.1208	5376.96	92.61	-.98	
4/ 2	15:46:30	6.1250	5375.67	92.64	-1.29	
4/ 2	15:46:45	6.1292	5375.32	92.68	-.36	
4/ 2	15:47: 0	6.1333	5374.62	92.71	-.70	
4/ 2	15:47:15	6.1375	5373.46	92.74	-1.16	
4/ 2	15:47:30	6.1417	5373.10	92.77	-.36	
4/ 2	15:47:45	6.1458	5372.26	92.81	-.85	
4/ 2	15:48: 0	6.1500	5370.97	92.83	-1.29	
4/ 2	15:48:15	6.1542	5370.61	92.88	-.36	
4/ 2	15:48:30	6.1583	5369.92	92.95	-.70	
4/ 2	15:48:45	6.1625	5369.09	93.01	-.83	
4/ 2	15:49: 0	6.1667	5367.94	93.08	-1.15	
4/ 2	15:49:15	6.1708	5367.63	93.14	-.31	
4/ 2	15:49:30	6.1750	5367.03	93.21	-.60	
4/ 2	15:49:45	6.1792	5365.79	93.27	-1.24	
4/ 2	15:50: 0	6.1833	5365.46	93.34	-.34	
4/ 2	15:50:15	6.1875	5364.83	93.40	-.63	
4/ 2	15:50:30	6.1917	5364.13	93.47	-.70	
4/ 2	15:50:45	6.1958	5362.98	93.54	-1.15	
4/ 2	15:51: 0	6.2000	5362.67	93.60	-.31	
4/ 2	15:51:15	6.2042	5362.08	93.71	-.59	
4/ 2	15:51:30	6.2083	5361.38	93.82	-.69	
4/ 2	15:51:45	6.2125	5360.24	93.95	-1.15	
4/ 2	15:52: 0	6.2167	5359.89	94.07	-.35	
4/ 2	15:52:15	6.2208	5358.87	94.19	-1.02	
4/ 2	15:52:30	6.2250	5358.52	94.32	-.35	
4/ 2	15:52:45	6.2292	5357.83	94.44	-.69	
4/ 2	15:53: 0	6.2333	5356.71	94.56	-1.12	
4/ 2	15:53:15	6.2375	5348.58	94.69	-8.14	
4/ 2	15:53:30	6.2417	5333.87	94.81	-14.70	
4/ 2	15:53:45	6.2458	5318.89	94.93	-14.98	
4/ 2	15:54: 0	6.2500	5301.69	95.05	-17.20	
4/ 2	15:54:15	6.2542	5279.21	95.17	-22.48	
4/ 2	15:54:30	6.2583	5254.54	95.43	-24.68	
4/ 2	15:54:45	6.2625	5229.03	95.69	-25.51	
4/ 2	15:55: 0	6.2667	5204.36	95.95	-24.67	
4/ 2	15:55:15	6.2708	5180.25	96.21	-24.11	
4/ 2	15:55:30	6.2750	5151.70	96.47	-28.55	
4/ 2	15:55:45	6.2792	5120.65	96.74	-31.04	
4/ 2	15:56: 0	6.2833	5089.89	97.00	-30.76	
4/ 2	15:56:15	6.2875	5059.14	97.26	-30.76	
4/ 2	15:56:30	6.2917	5028.10	97.52	-31.03	
4/ 2	15:56:45	6.2958	4997.36	97.78	-30.75	
4/ 2	15:57: 0	6.3000	4968.00	98.04	-29.36	
4/ 2	15:57:15	6.3042	4945.83	98.17	-22.17	
4/ 2	15:57:30	6.3083	4923.66	98.25	-22.17	
4/ 2	15:57:45	6.3125	4896.22	98.33	-27.44	
4/ 2	15:58: 0	6.3167	4864.34	98.41	-31.88	
4/ 2	15:58:15	6.3208	4832.74	98.50	-31.60	
4/ 2	15:58:30	6.3250	4800.87	98.58	-31.87	

INSTRUMENT OFF BOTTOM

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.DAT

Date MM/DD hh:mm:ss	Time hhhh.hhhh	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
4/ 2 15:58:45	6.3292	4766.50	98.65	-34.37		
4/ 2 15:59: 0	6.3333	4731.86	98.74	-34.64		
4/ 2 15:59:15	6.3375	4696.67	98.82	-35.19		
4/ 2 15:59:30	6.3417	4660.09	98.90	-36.58		
4/ 2 15:59:45	6.3458	4622.96	98.98	-37.13		
4/ 2 16: 0: 0	6.3500	4586.11	99.07	-36.85		
4/ 2 16: 0:15	6.3542	4549.53	99.12	-36.58		
4/ 2 16: 0:30	6.3583	4512.36	99.04	-37.17		
4/ 2 16: 0:45	6.3625	4475.19	98.96	-37.17		
4/ 2 16: 1: 0	6.3667	4437.74	98.87	-37.45		
4/ 2 16: 1:15	6.3708	4400.30	98.79	-37.45		
4/ 2 16: 1:30	6.3750	4361.19	98.71	-39.11		
4/ 2 16: 1:45	6.3792	4321.52	98.63	-39.66		
4/ 2 16: 2: 0	6.3833	4281.86	98.54	-39.67		
4/ 2 16: 2:15	6.3875	4240.53	98.46	-41.33		
4/ 2 16: 2:30	6.3917	4199.48	98.38	-41.05		
4/ 2 16: 2:45	6.3958	4158.15	98.30	-41.33		
4/ 2 16: 3: 0	6.4000	4116.27	98.21	-41.88		
4/ 2 16: 3:15	6.4042	4075.18	98.04	-41.09		
4/ 2 16: 3:30	6.4083	4031.31	97.82	-43.87		
4/ 2 16: 3:45	6.4125	3986.60	97.60	-44.71		
4/ 2 16: 4: 0	6.4167	3942.16	97.38	-44.44		
4/ 2 16: 4:15	6.4208	3897.17	97.16	-44.99		
4/ 2 16: 4:30	6.4250	3851.62	96.94	-45.55		
4/ 2 16: 4:45	6.4292	3806.62	96.72	-45.00		
4/ 2 16: 5: 0	6.4333	3761.34	96.50	-45.28		
4/ 2 16: 5:15	6.4375	3715.51	96.28	-45.83		
4/ 2 16: 5:30	6.4417	3669.39	96.06	-46.11		
4/ 2 16: 5:45	6.4458	3623.00	95.84	-46.40		
4/ 2 16: 6: 0	6.4500	3576.05	95.63	-46.95		
4/ 2 16: 6:15	6.4542	3529.63	95.37	-46.42		
4/ 2 16: 6:30	6.4583	3482.91	95.08	-46.71		
4/ 2 16: 6:45	6.4625	3436.75	94.79	-46.17		
4/ 2 16: 7: 0	6.4667	3389.75	94.50	-47.00		
4/ 2 16: 7:15	6.4708	3342.46	94.21	-47.28		
4/ 2 16: 7:30	6.4750	3293.79	93.93	-48.67		
4/ 2 16: 7:45	6.4792	3245.67	93.63	-48.13		
4/ 2 16: 8: 0	6.4833	3197.81	93.34	-47.85		
4/ 2 16: 8:15	6.4875	3148.30	93.06	-49.52		
4/ 2 16: 8:30	6.4917	3098.23	92.77	-50.07		
4/ 2 16: 8:45	6.4958	3046.76	92.48	-51.47		
4/ 2 16: 9: 0	6.5000	2996.11	92.19	-50.64		
4/ 2 16: 9:15	6.5042	2945.46	91.88	-50.66		
4/ 2 16: 9:30	6.5083	2894.48	91.50	-50.98		
4/ 2 16: 9:45	6.5125	2843.22	91.14	-51.26		
4/ 2 16:10: 0	6.5167	2790.84	90.77	-52.38		
4/ 2 16:10:15	6.5208	2739.02	90.41	-51.82		
4/ 2 16:10:30	6.5250	2688.02	90.04	-51.00		
4/ 2 16:10:45	6.5292	2636.18	89.68	-51.83		
4/ 2 16:11: 0	6.5333	2583.50	89.31	-52.68		
4/ 2 16:11:15	6.5375	2530.26	88.94	-53.24		
4/ 2 16:11:30	6.5417	2478.68	88.57	-51.58		
4/ 2 16:11:45	6.5458	2425.99	88.21	-52.69		
4/ 2 16:12: 0	6.5500	2373.01	87.84	-52.98		
4/ 2 16:12:15	6.5542	2318.88	87.43	-54.13		
4/ 2 16:12:30	6.5583	2266.14	87.04	-52.73		
4/ 2 16:12:45	6.5625	2212.83	86.63	-53.31		
4/ 2 16:13: 0	6.5667	2159.24	86.23	-53.59		
4/ 2 16:13:15	6.5708	2105.09	85.83	-54.15		
4/ 2 16:13:30	6.5750	2051.20	85.42	-53.89		
4/ 2 16:13:45	6.5792	1997.59	85.02	-53.61		
4/ 2 16:14: 0	6.5833	1942.86	84.62	-54.73		
4/ 2 16:14:15	6.5875	1887.84	84.21	-55.02		
4/ 2 16:14:30	6.5917	1833.37	83.81	-54.47		
4/ 2 16:14:45	6.5958	1778.62	83.41	-54.75		

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.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.
4/ 2	16:15: 0	6.6000	1723.30	83.01	-55.32	
4/ 2	16:15:15	6.6042	1667.44	82.63	-55.86	
4/ 2	16:15:30	6.6083	1613.00	82.29	-54.44	
4/ 2	16:15:45	6.6125	1557.44	81.95	-55.56	
4/ 2	16:16: 0	6.6167	1503.83	81.62	-53.61	
4/ 2	16:16:15	6.6208	1453.25	81.28	-50.57	
4/ 2	16:16:30	6.6250	1408.49	80.93	-44.76	
4/ 2	16:16:45	6.6292	1379.30	80.60	-29.19	
4/ 2	16:17: 0	6.6333	1366.20	80.26	-13.10	
4/ 2	16:17:15	6.6375	1360.88	79.92	-5.32	
4/ 2	16:17:30	6.6417	1359.86	79.59	-1.02	
4/ 2	16:17:45	6.6458	1359.79	79.25	-.07	
4/ 2	16:18: 0	6.6500	1359.73	78.92	-.06	
4/ 2	16:18:15	6.6542	1351.27	78.59	-8.45	
4/ 2	16:18:30	6.6583	1345.43	78.29	-5.84	
4/ 2	16:18:45	6.6625	1336.53	77.99	-8.90	
4/ 2	16:19: 0	6.6667	1145.89	77.68	-190.63	
4/ 2	16:19:15	6.6708	.01	77.38	-1145.88	
4/ 2	16:19:30	6.6750	.01	77.07	.00	
4/ 2	16:19:45	6.6792	.01	76.76	.00	
4/ 2	16:20: 0	6.6833	.01	76.46	.00	
4/ 2	16:20:15	6.6875	.01	76.15	.00	
4/ 2	16:20:30	6.6917	.01	75.85	.00	
4/ 2	16:20:45	6.6958	.01	75.54	.00	
4/ 2	16:21: 0	6.7000	.01	75.24	.00	
4/ 2	16:21:15	6.7042	.01	74.93	.00	
4/ 2	16:21:30	6.7083	.01	74.68	.00	
4/ 2	16:21:45	6.7125	.01	74.41	.00	
4/ 2	16:22: 0	6.7167	.01	74.15	.00	
4/ 2	16:22:15	6.7208	.01	73.89	.00	
4/ 2	16:22:30	6.7250	.01	73.63	.00	
4/ 2	16:22:45	6.7292	.01	73.36	.00	
4/ 2	16:23: 0	6.7333	.01	73.10	.00	
4/ 2	16:23:15	6.7375	.01	72.84	.00	
4/ 2	16:23:30	6.7417	.01	72.57	.00	
4/ 2	16:23:45	6.7458	.01	72.31	.00	
4/ 2	16:24: 0	6.7500	.01	72.05	.00	
4/ 2	16:25: 0	6.7667	.01	71.29	.00	
4/ 2	16:26: 0	6.7833	.01	70.71	.00	
4/ 2	16:27: 0	6.8000	.01	70.13	.00	
4/ 2	16:28: 0	6.8167	.01	69.56	.00	
4/ 2	16:29: 0	6.8333	.01	69.11	.00	
4/ 2	16:30: 0	6.8500	.01	68.78	.00	
4/ 2	16:31: 0	6.8667	.01	68.45	.00	
4/ 2	16:32: 0	6.8833	.01	68.12	.00	
4/ 2	16:33: 0	6.9000	.01	67.88	.00	
4/ 2	16:34: 0	6.9167	.01	67.61	.00	
4/ 2	16:35: 0	6.9333	.01	67.36	.00	
4/ 2	16:36: 0	6.9500	.01	67.09	.00	
4/ 2	16:37: 0	6.9667	.01	66.84	.00	
4/ 2	16:38: 0	6.9833	.01	66.61	.00	
4/ 2	16:39: 0	7.0000	.01	66.37	.00	

 *
 * EVENT SUMMARY *
 *

COMPANY : BLACKWOOD AND NICHOLS CO, LTD.

PAGE : B

WELL NAME : PUMP MESA SWD #1

DATE : 04/04/91

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F114403.DAT

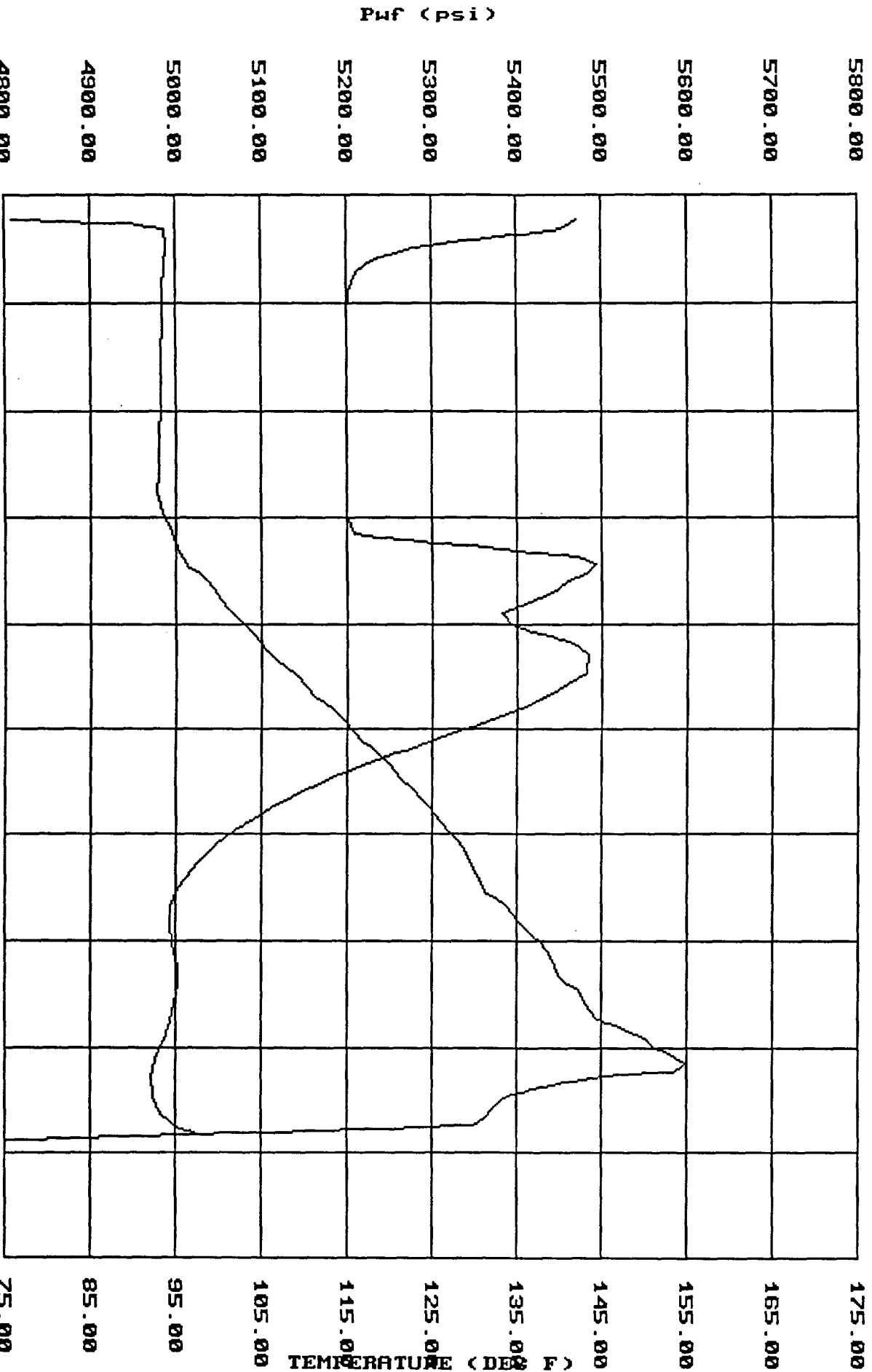
Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Key Event	Pressure Psig	Temp Deg F
4/ 2	10:50: 0	1.1833	INSTRUMENT @ 8985' KB	4980.54	141.22
4/ 2	12:30: 0	2.8500	RATE #1 - 1 BPM	4991.14	114.99
4/ 2	12:45: 0	3.1000	RATE #2 - 2 BPM	5023.11	144.41
4/ 2	13: 0: 0	3.3500	RATE #3 - 3 BPM	5067.07	132.83
4/ 2	13:15: 0	3.6000	RATE #4 - 4 BPM	5117.75	143.80
4/ 2	13:30: 0	3.8500	RATE #5 - 5 BPM	5173.01	136.85
4/ 2	13:45: 0	4.1000	RATE #6 - 6 BPM	5226.90	122.79
4/ 2	14: 0: 0	4.3500	RATE #7 - 7 BPM	5278.11	109.98
4/ 2	14:15: 0	4.6000	RATE #8 - 8 BPM	5322.60	101.29
4/ 2	14:30: 0	4.8500	8.2 BPM - SUPPLY PROBLEMS FROM PLANT	5359.25	96.01
4/ 2	14:50: 0	5.1833	RATE #9 - 9 BPM	5418.90	94.41
4/ 2	15: 5: 0	5.4333	RATE #10 - 10 BPM	5458.85	95.24
4/ 2	15:20: 0	5.6833	RATE #11 - 11 BPM	5521.32	94.13
4/ 2	15:35: 0	5.9333	RATE #12 - 10 BPM	5584.78	92.22
4/ 2	15:40: 0	6.0167	SHUT DOWN PUMPING	5429.75	92.29
4/ 2	15:53: 0	6.2333	INSTRUMENT OFF BOTTOM	5356.71	94.56

BLACKWOOD AND NICHOLS CO., LTD.

Pwf vs Elapsed Time

PUMP MESA SUD #1
SAN JUAN COUNTY, NEW MEXICO
F114403.DRI

TEETELLER, INC.
42-34
STEE-HITE



HALLIBURTON DATA LOG

THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT BECAUSE OF VARIABLE WELL CONDITIONS AND OTHER INFORMATION WHICH MUST BE RELIED UPON, HALLIBURTON MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OF THE DATA OR ANY CALCULATIONS OR OPINIONS EXPRESSED HEREIN. YOU AGREE THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH SUCH DATA, CALCULATIONS OR OPINIONS.

COMPUFAC Ver. 1.54 4/02/81

Customer:	<u>BLACKWOOD NICHOLS</u>	Ticket Number:	<u>077151</u>
Contractor:	<u>NONE</u>	Permit Number:	<u> </u>
Lease:	<u>PUMP MESA SWD</u>	Well #:	<u>1</u>
Location:	<u>NAVAJO DAM</u>	Sec.:	<u>36</u>
Field:	<u>NAVAJO LAKE</u>	Twp.:	<u>31 N</u>
Country:	<u>USA</u>	Eng.:	<u>8 W</u>
County:	<u>SAN JUAN</u>	State:	<u>N M</u>
Job Type:	<u>INJECTION TEST</u>		

WELL DESCRIPTION

HOLE DEPTH	TYPE	SIZE	WEIGHT
0 - 9135	CASING	7"	26#
0 - 8074	TUBING	3 1/2"	9.5#
-			
-			
-			

PERF DEPTH	NUMBER	SIZE	FORMATION
8152 - 8970			
-			

Open Hole I.D.:	<u> </u>	Total Depth:	<u>9135</u>
Zone #:	<u> </u>	Formation:	<u>ENTRADA-MORRISON</u>
Packer Depth:	<u>8074</u>	Packer Type:	<u>BAKER FB-1</u>
Baffle/MSD Depth:	<u> </u>	Baffle Size:	<u> </u>
BHST:	<u> </u>	Frac Gradient:	<u> </u>

STIMULATION DATA

	TYPE	CONC/RATIO	VOLUME
PrePad:	<u> </u>	<u> </u>	<u> </u>
Pad:	<u> </u>	<u> </u>	<u> </u>
Acid:	<u> </u>	<u> </u>	<u> </u>
Sand Laden:	<u> </u>	<u> </u>	<u> </u>
Flush:	<u>PRODUCED WATER</u>	<u> </u>	<u> </u>
Overflush:	<u> </u>	<u> </u>	<u> </u>
Total:	<u> </u>	<u> </u>	<u> </u>
NO:	<u> </u>	<u> </u>	<u> </u>
CO2:	<u> </u>	<u> </u>	<u> </u>

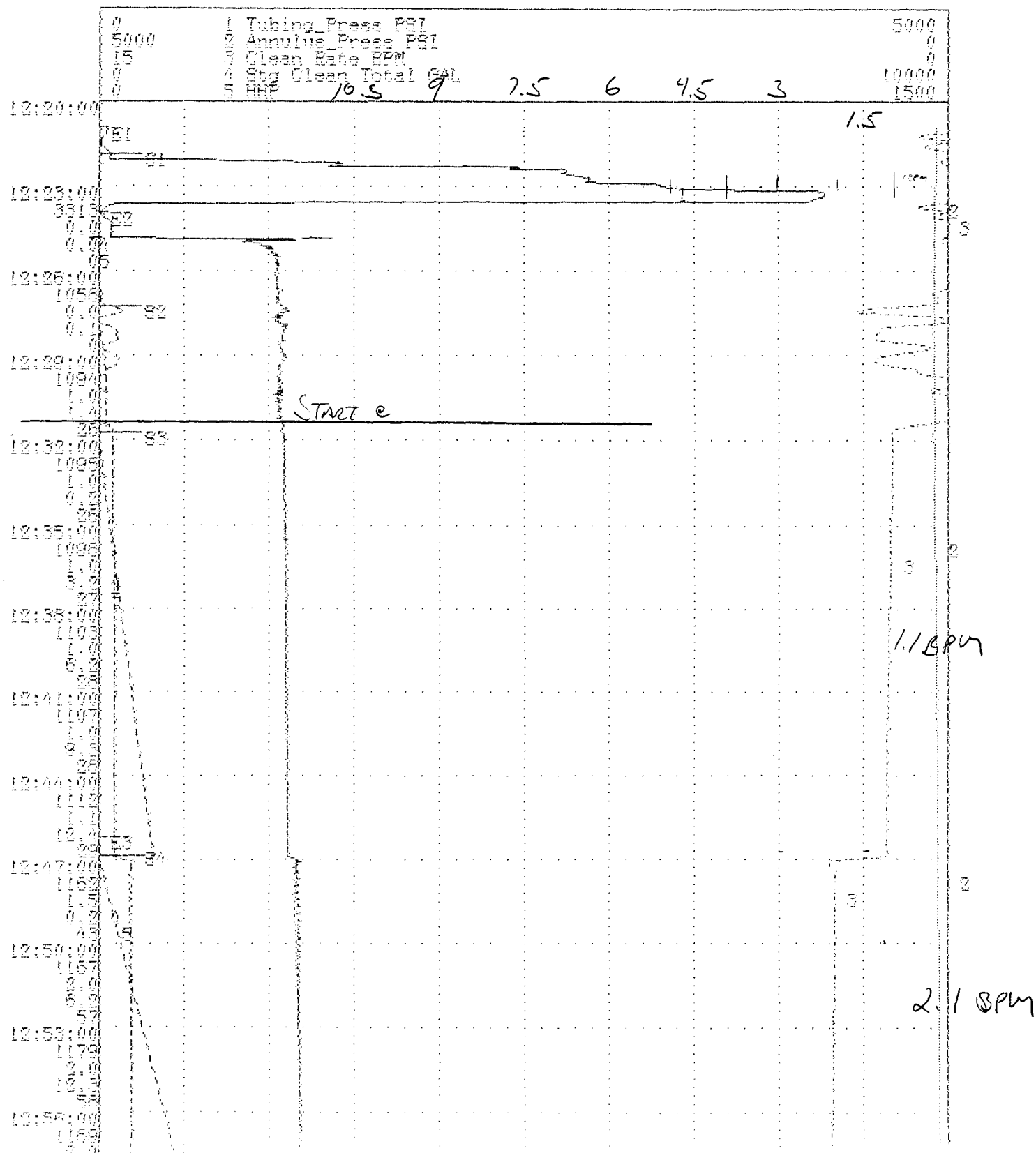
PROPPANT TYPE	SIZE	QUANTITY	MAX CONC.
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

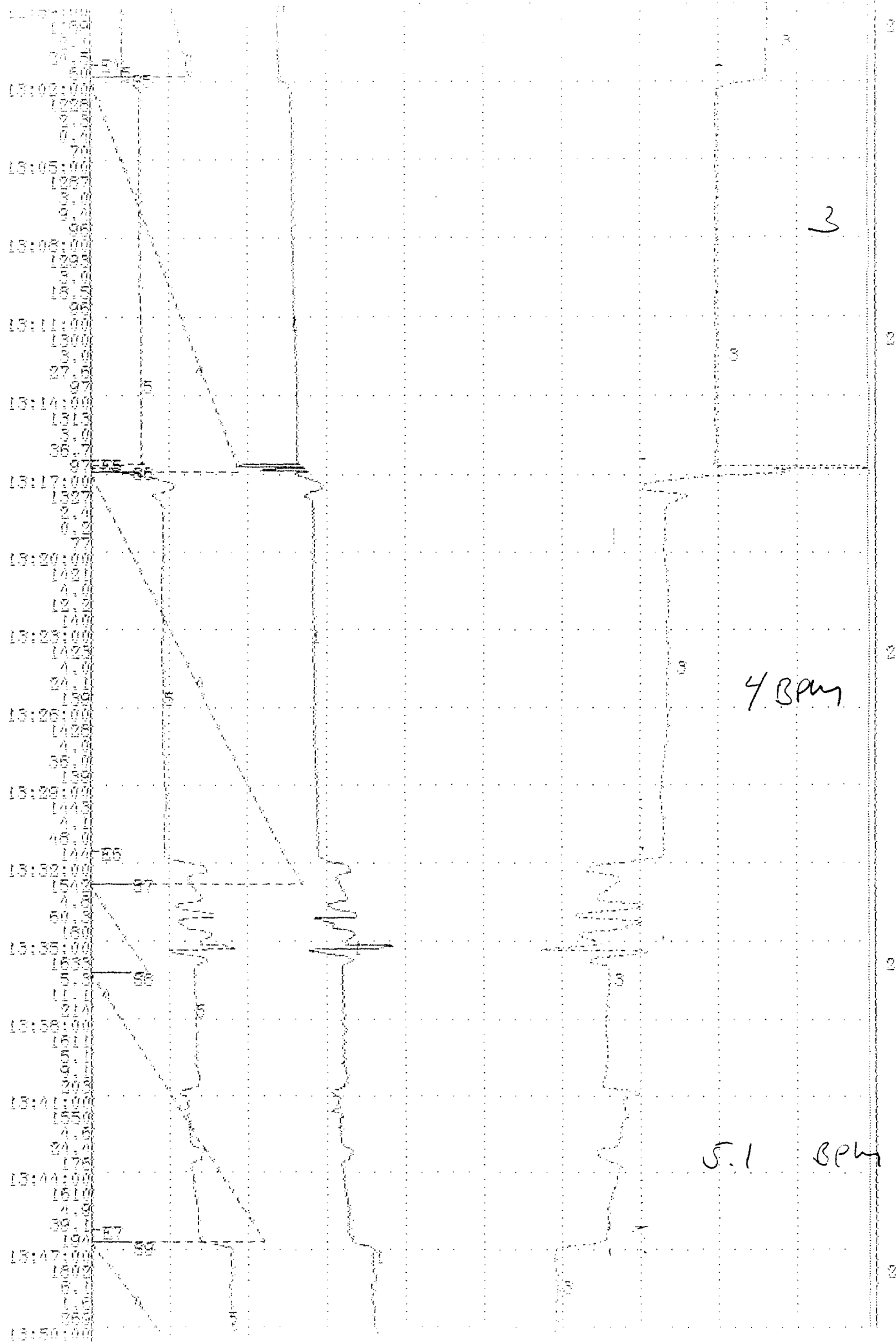
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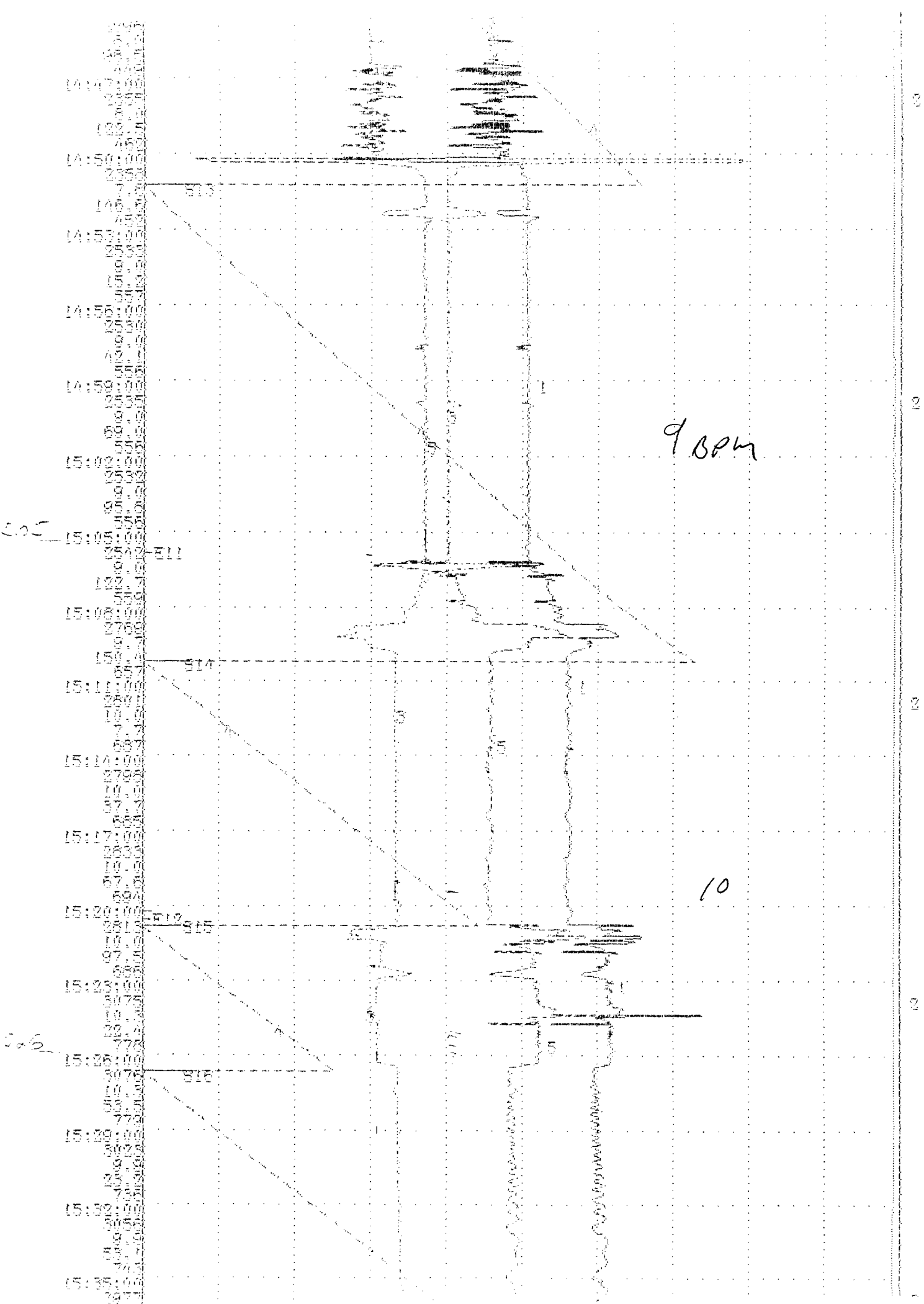
Comments:
INJECT INTO FORMATION AT CONSECUTIVE RATES
STARTING AT 7:00 PM FOR 15 MINUTES INTERMEDIATE

10000 = 10000	7200 = 7200
20000 = 20000	20000 = 20000
30000 = 30000	9000 = 9000
40000 = 40000	10000 = 10000
50000 = 50000	10000 = 10000
60000 = 60000	10000 = 10000

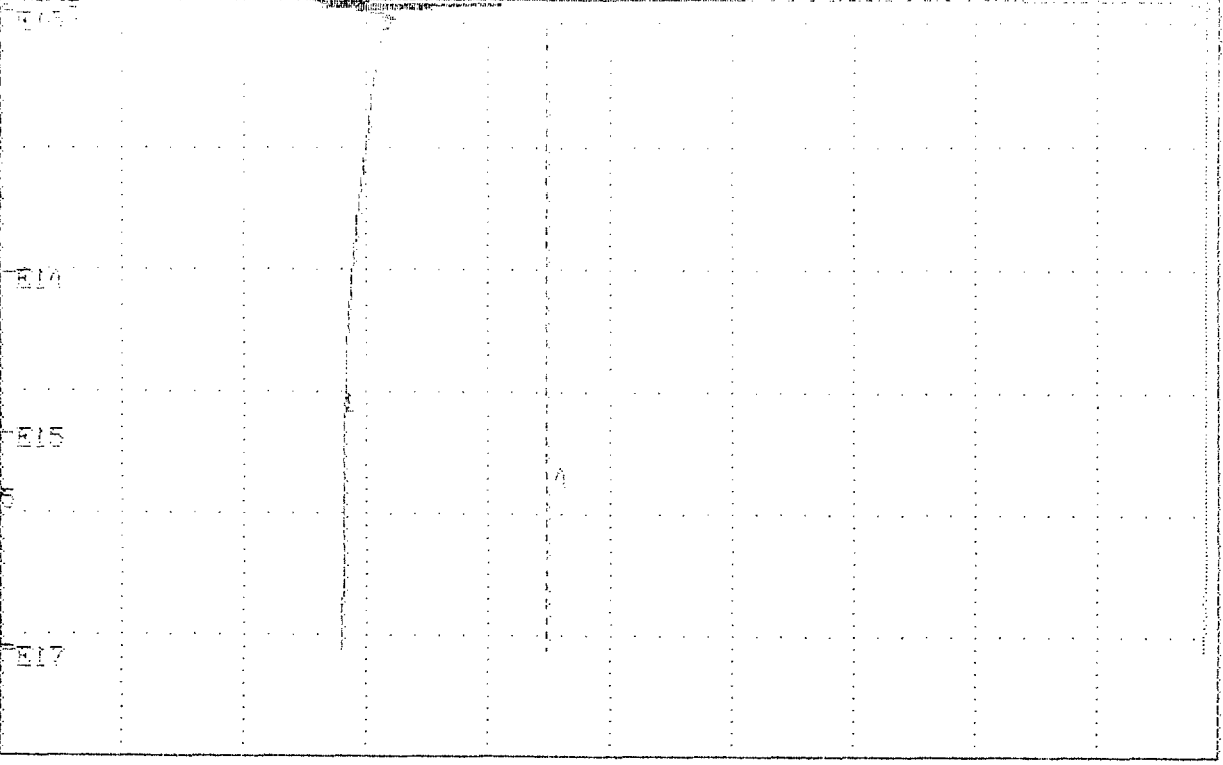
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| 1. Time | |
| 2. Tubing_Press | PSI |
| 3. Clean Rate | SPM |
| 4. Stg Clean Total | BBL |
| 5. HHP | |







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STAGE/EVENT SUMMARY

Customer: BLACKWOOD NICHOLS
Job Type: INJECTION TEST

Date: 4/03/91
Ticket #: 077151

***** 12:20:52 Start Job *****

***** 12:21:48 Stage #1 Test Lines *****

12:23:52 Event #2 Zero Flow Totals

STAGE SUMMARY

Max Tubing_Press -	4277 PSI	Max Annulus_Press -	81 PSI	Max Clean Rate -	0.6 BPM
Stg Clean Total -	11 GAL	Clean Total -	10.6 GAL	RRP -	17

***** 12:27:13 Stage #2 Establish Rate *****

CAPTURE DATA	Tubing_Press -	1078 PSI	Clean Rate -	0.6 BPM
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STAGE SUMMARY

Max Tubing_Press -	1121 PSI	Max Annulus_Press -	83 PSI	Max Clean Rate -	1.6 BPM
Stg Clean Total -	102 GAL	Clean Total -	112.5 GAL	RRP -	25

***** 12:31:43 Stage #3 Establish Rate *****

CAPTURE DATA	Tubing_Press -	1086 PSI	Clean Rate -	1.0 BPM
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12:45:07 Event #3 Record Pressure Rate

CAPTURE DATA	Tubing_Press -	1112 PSI	Clean Rate -	1.1 BPM
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STAGE SUMMARY

Max Tubing_Press -	1116 PSI	Max Annulus_Press -	81 PSI	Max Clean Rate -	1.1 BPM
Stg Clean Total -	650 GAL	Clean Total -	762.5 GAL	RRP -	29

***** 12:45:48 Stage #4 Establish Rate *****

CAPTURE DATA	Tubing_Press -	1112 PSI	Clean Rate -	1.1 BPM
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13:01:21 Event #4 Record Pressure Rate

CAPTURE DATA	Tubing_Press -	1199 PSI	Clean Rate -	2.1 BPM
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STAGE SUMMARY

Max Tubing_Press -	1207 PSI	Max Annulus_Press -	87 PSI	Max Clean Rate -	2.1 BPM
Stg Clean Total -	1273 GAL	Clean Total -	2035.5 GAL	RRP -	51

***** 13:01:47 Stage #5 Establish Rate *****

CAPTURE DATA	Tubing_Press -	1196 PSI	Clean Rate -	2.1 BPM
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13:16:24 Event #5 Record Pressure Rate

CAPTURE DATA	Tubing_Press -	1218 PSI	Clean Rate -	3.0 BPM
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STAGE SUMMARY

Max Tubing_Press -	1487 PSI	Max Annulus_Press -	46 PSI	Max Clean Rate -	3.1 BPM
Stg Clean Total -	1892 GAL	Clean Total -	3327.3 GAL	RRP -	57

***** 13:16:53 Stage #6 Establish Rate *****

CAPTURE DATA	Tubing_Press -	1349 PSI	Clean Rate -	1.7 BPM
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13:31:30 Event #6 Record Pressure Rate

CAPTURE DATA	Tubing_Press -	1456 PSI	Clean Rate -	4.0 BPM
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STAGE SUMMARY

Max Tubing_Press -	1668 PSI	Max Annulus_Press -	43 PSI	Max Clean Rate -	5.5 BPM
Stg Clean Total -	2714 GAL	Clean Total -	5541.8 GAL	RRP -	135

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***** 13:12:47 Stage #7 Establish Rate *****
CAPTURE DATA          Tubing_Press - 1553 PSI      Clean Rate - 5.0 BPM
                                STAGE SUMMARY
Max Tubing_Press - 1828 PSI      Max Annulus_Press - 37 PSI      Max Clean Rate - 5.4 BPM
Stg Clean Total - 738 GAL      Clean Total - 7379.3 GAL      HHP - 200

***** 13:35:11 Stage #8 Establish Rate *****
CAPTURE DATA          Tubing_Press - 1606 PSI      Clean Rate - 5.1 BPM
13:46:13 Event #7      Record Pressure Rate
CAPTURE DATA          Tubing_Press - 1542 PSI      Clean Rate - 5.1 BPM
                                STAGE SUMMARY
Max Tubing_Press - 1670 PSI      Max Annulus_Press - 35 PSI      Max Clean Rate - 5.3 BPM
Stg Clean Total - 2227 GAL      Clean Total - 8606.1 GAL      HHP - 215

***** 13:45:42 Stage #9 Establish Rate *****
CAPTURE DATA          Tubing_Press - 1670 PSI      Clean Rate - 5.3 BPM
14:01:03 Event #8      Record Pressure Rate
CAPTURE DATA          Tubing_Press - 1662 PSI      Clean Rate - 5.3 BPM
                                STAGE SUMMARY
Max Tubing_Press - 1853 PSI      Max Annulus_Press - 37 PSI      Max Clean Rate - 5.3 BPM
Stg Clean Total - 3754 GAL      Clean Total - 13370.0 GAL      HHP - 288

***** 14:01:20 Stage #10 Establish Rate *****
CAPTURE DATA          Tubing_Press - 1859 PSI      Clean Rate - 6.3 BPM
14:16:15 Event #9      Record Pressure Rate
CAPTURE DATA          Tubing_Press - 2055 PSI      Clean Rate - 7.2 BPM
                                STAGE SUMMARY
Max Tubing_Press - 2067 PSI      Max Annulus_Press - 39 PSI      Max Clean Rate - 7.3 BPM
Stg Clean Total - 4524 GAL      Clean Total - 17893.9 GAL      HHP - 358

***** 14:16:29 Stage #11 Establish Rate *****
CAPTURE DATA          Tubing_Press - 2067 PSI      Clean Rate - 7.3 BPM
14:31:15 Event #10     Record Pressure Rate
CAPTURE DATA          Tubing_Press - 2223 PSI      Clean Rate - 7.8 BPM
                                STAGE SUMMARY
Max Tubing_Press - 2243 PSI      Max Annulus_Press - 41 PSI      Max Clean Rate - 8.0 BPM
Stg Clean Total - 4992 GAL      Clean Total - 22885.5 GAL      HHP - 434

***** 14:31:28 Stage #12 Establish Rate *****
CAPTURE DATA          Tubing_Press - 2235 PSI      Clean Rate - 7.8 BPM
                                STAGE SUMMARY
Max Tubing_Press - 2583 PSI      Max Annulus_Press - 44 PSI      Max Clean Rate - 9.0 BPM
Stg Clean Total - 5538 GAL      Clean Total - 28473.9 GAL      HHP - 555

***** 14:31:15 Stage #13 Establish Rate *****
CAPTURE DATA          Tubing_Press - 2525 PSI      Clean Rate - 9.0 BPM
15:05:50 Event #11     Record Pressure Rate
CAPTURE DATA          Tubing_Press - 2545 PSI      Clean Rate - 9.0 BPM
                                STAGE SUMMARY
Max Tubing_Press - 3152 PSI      Max Annulus_Press - 44 PSI      Max Clean Rate - 11.0 BPM
Stg Clean Total - 7282 GAL      Clean Total - 35755.7 GAL      HHP - 637

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***** 15:25:37 Stage #15 Start Flush *****
15:37:40 Event #13 TEST
CAPTURE DATA          Tubing_Press - 1429 PSI
15:44:04 Event #14 5 Min Shutin Pres.
CAPTURE DATA          Tubing_Press - 1446 PSI
15:48:02 Event #15 10 Min Shutin Pres.
CAPTURE DATA          Tubing_Press - 1419 PSI
15:53:17 Event #16 15 Min Shutin Pres.
CAPTURE DATA          Tubing_Press - 1407 PSI
                                STAGE SUMMARY
Max Tubing_Press - 3060 PSI      Max Annulus_Press - 51 PSI      Max Clean Rate - 10.1 BPM
Stg Clean Total - 4485 GAL      Clean Total - 48214.5 GAL      RHP - 0

```

Job Comments: