

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

August 27, 1991

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

Ray Westall  
Box 4  
Loco Hills, New Mexico 88255

Attention: Randal Harris

RE: *Injection Pressure Increase*  
*Federal Well No. 1*  
*Unit C, Section 21, T-21S, R-27E, NMPM*  
*Eddy County, New Mexico*

Dear Mr. Harris:

Reference is made to your request dated August 1, 1991, to increase the surface injection pressure on the Federal Well No. 1. This request is based on a step rate test conducted on the well on July 22, 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

Federal Well No. 1  
Unit C, Section 21, T-21 South,  
R-27 East, NMPM,  
Eddy County, New Mexico

1356 PSIG

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,

A handwritten signature in cursive script, appearing to read "William J. LeMay".

William J. LeMay  
Director

cc: Oil Conservation Division - Artesia  
File: SWD-391  
D. Catanach  
R. Brown



**BRUCE KING**  
GOVERNOR

STATE OF NEW MEXICO

**ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
ARTESIA DISTRICT OFFICE

P.O. DRAWER DD  
ARTESIA, NEW MEXICO 88211  
(505) 748-1283

August 1, 1991

David Catanach,

We witnessed this test. The 3, 4, 5 & 6th rate show BHP the same. I asked operator to check pressure and he found the valve closed. New helper closed wrong valve. Opened valve and pressure came up.

The points I plotted are projected if valve had been left open. As you can see by their plot the points are not steady and it is hard to see any break if there is one.

The only thing that bothers me is the Instant Shut In Pressure dropped to 793 PSI from 1406. It seems to me, based on past tests that I have run, the I.S.I.P. normally drops to the fracture point and stays. Could the permeability of the 2,000' of open hole have anything to do with pressure drop ?

I am sending our field copy without any friction figured. As you can see by the graphs it is hard to determine any fracture. Operator is asking for a pressure limit of 1406 PSI based on no fracture shown in test. Could not continue test due to running out of water.

Johnny Robinson

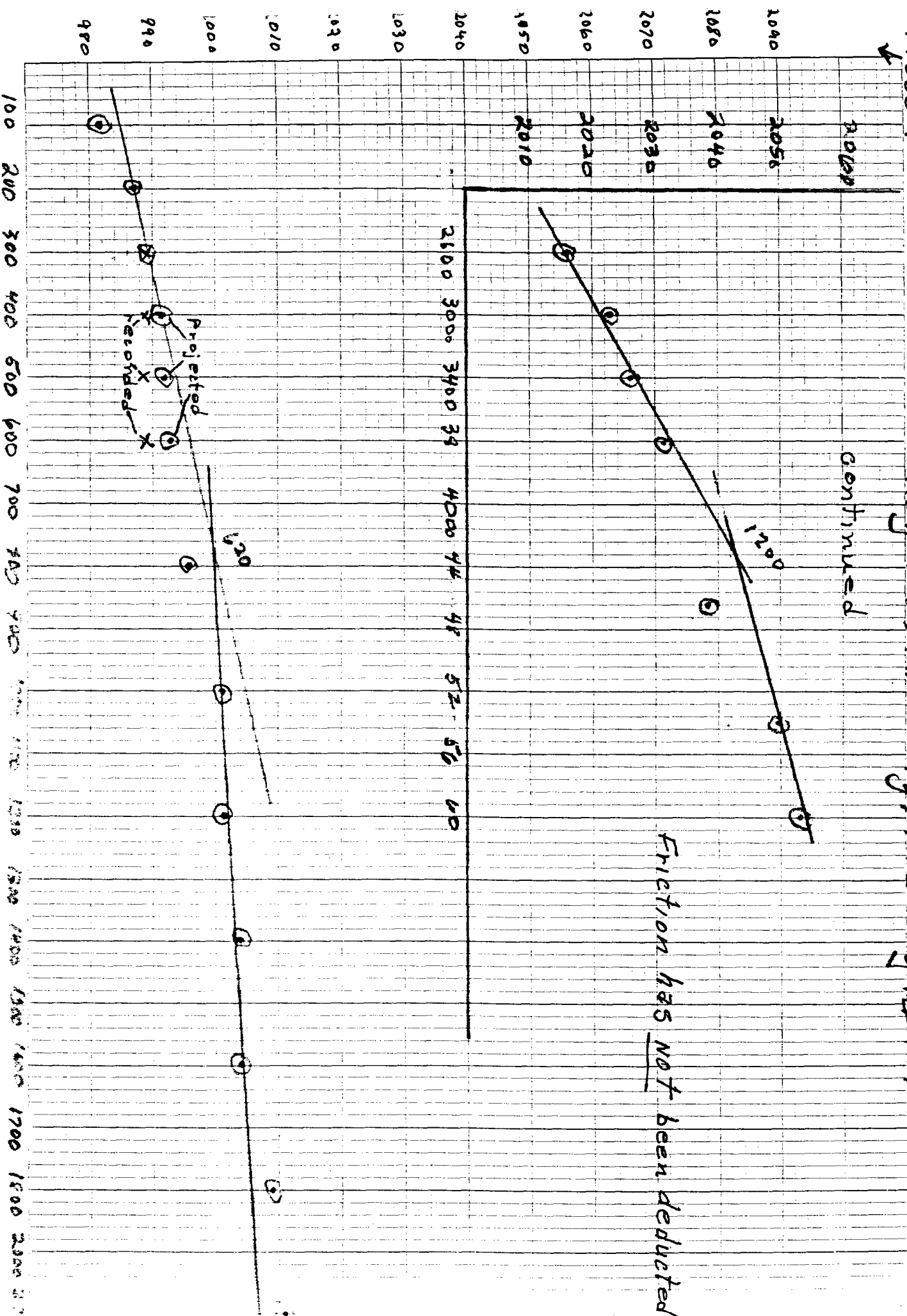
JR:br

Pressure

Ray Westfall Mgrt 1 = Mgrt #1

continued

Friction has NOT been deducted

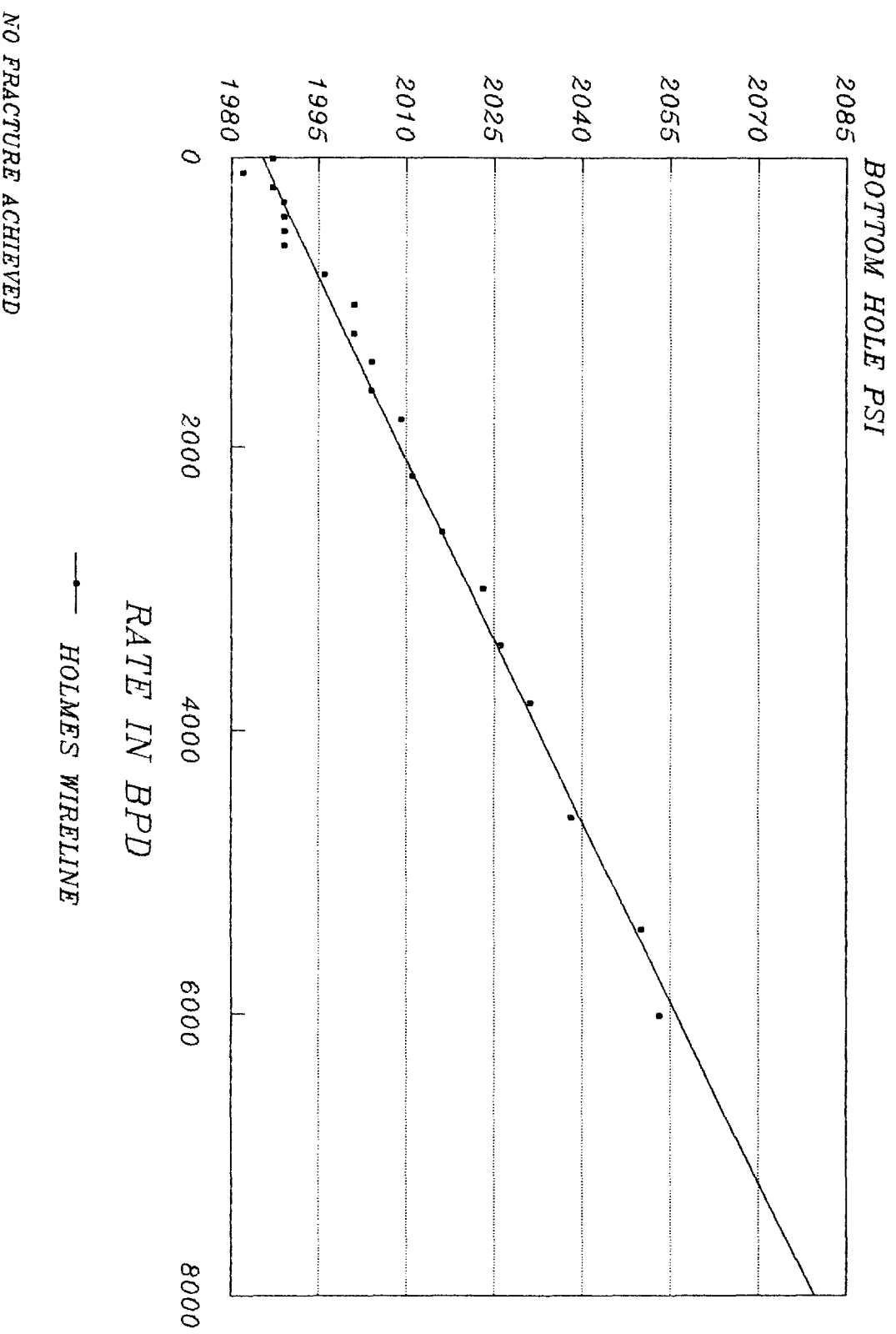


BPD

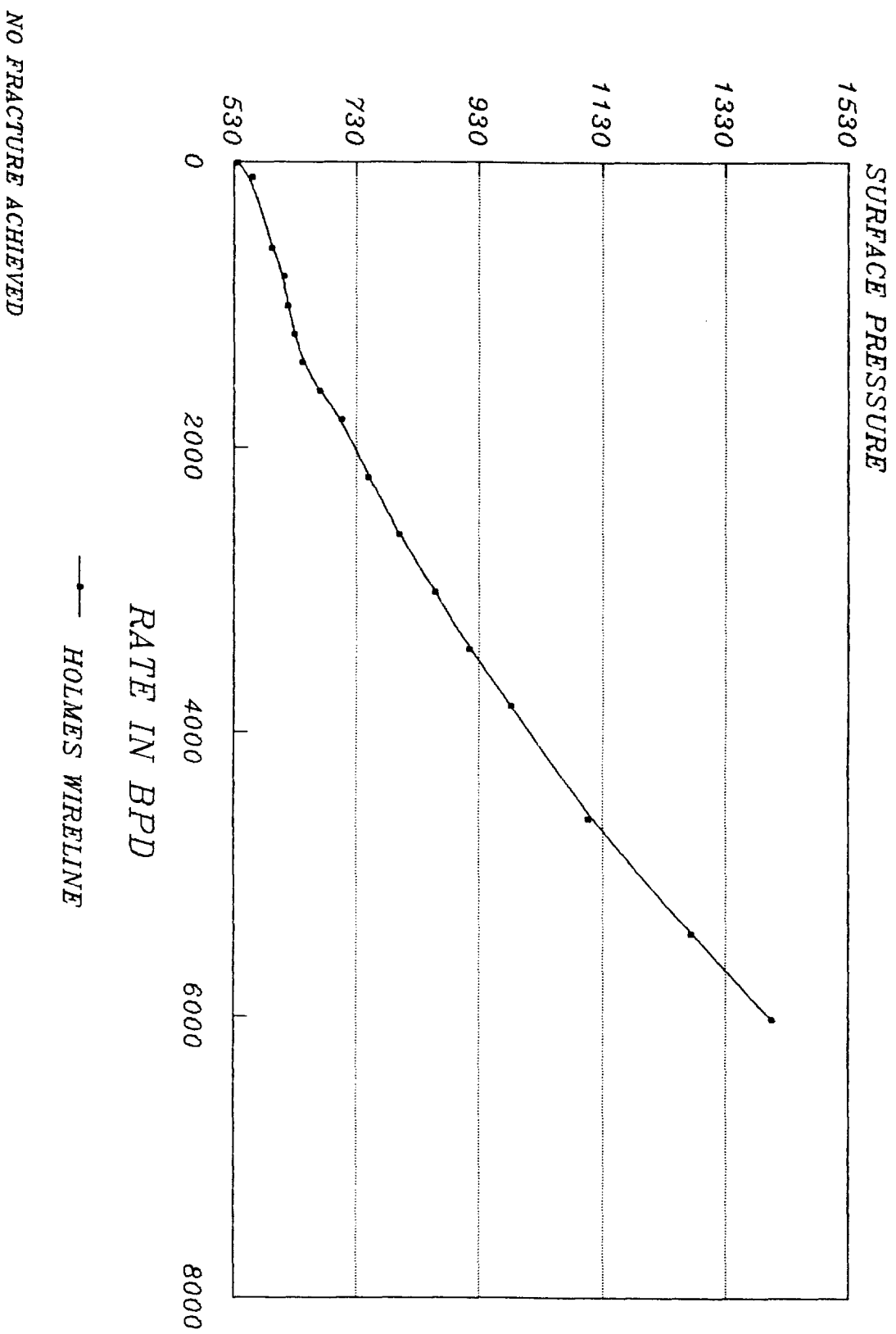
# Ray Westall Myrtle Myra #1

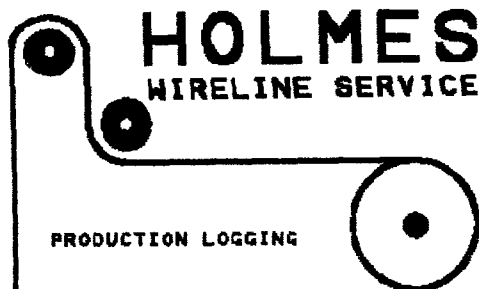
BPD	SA		BHP	
100	560		1982	
200	598		1987	
300	636	X	1989	Projected press if valve hadn't been closed accidentally
400	668	X	1991	1989
500	630	X	1992	1989
600	592	X	1993	1989
800	612		1996	Actual recorded press.
1000	618		2001	
1200	630		2001	
1400	642		2004	
1600	670		2004	
1800	700		2009	
2200	750		2011	
2600	800		2016	
3000	858		2023	
3400	914		2026	
3800	981		2031	
4600	1107		2038	
5400	1272		2050	
6000	1405		2053	
151P	793 PSI			
5min. Falloff	740 PSI			

# RAY WESTALL: M.M. FED #1



# RAY WESTALL: M.M. FED #1





# Digital Data Acquisition System

COMPANY.....:RAY WESTALL

WELL NAME/#....:MYRTLE MYRA WIW FED # 1

FIELD.....:-

COUNTY.....:EDDY

STATE....:NEW MEXICO

FILE NAME...:91070288.

LOCATION.....:-

BLOCK.....:-

SECTION.:--

PERM. DAT.....:GROUND LEVEL

ELEV.....:-

L.M.F.:GROUND LEVEL

DATE.....: 7/22/1991

TYPE SURVEY....:STEP RATE TESTS

DEPTH DRILLER.:5050'

DEPTH LOGGER.:TD @ 4730', RD @ 3050'

WELL STATUS...:INJECTION - DISPOSAL

HOLE FLUID.....:WATER

INJ. RATE.....:0 - 6000 BPD

PRDD: DIL bpd.:--

WATER bpd...:-

GAS mcf.:--

MAX. REC. TEMP:--

PRESS: TUBING.:550 - 1405 PSI

CASING.....:0 PSI

CASING SIZE....:5 1/2"

DEPTH.....:3050'

TUBING SIZE....:2 3/8"

DEPTH.....:APPROX 2970'

PACKER @.....:2970'

TUBING TAIL:--

TRUCK NO.....:T-104

TOOL SIZE...:1 1/2"

TOOL NO.:SIE PSI

RECORDED BY...:MONTY HOLMES

WITNESSED BY...:GARY WILLIAMS , OGD

ENGINEER.....:RANDALL HARRIS

PERFORATIONS...:OPEN HOLE FROM 3050' - T.D.

: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A

End of Job Comments

FORMATION PRESSURES RECORDED AT 3050'. NO FORMATION PARTING PRESSURE ACHIEVED. ALMOST ALL SURFACE PRESSURE ABOVE 700 PSI IS DUE TO FRICTION.

RATE	SURF.PSI	BH.PSI	
0	536	1987	
100	560	1982	
200	598	1987	
300	636	1989	* SURFACE PRESSURE LINE CLOSED AND CAUSING INCORRECT PRESSURE READING DUE TO HEAT BUILD UP AND EXPANSION IN LINE.
400	668	1989	*
500	630	1989	*
600	592	1989	
800	612	1996	OCD APPROVAL TO INCREASE STEP SIZE
1000	618	2001	
1200	630	2001	
1400	642	2004	
1600	670	2004	
1800	706	2009	
2200	750	2011	OCD APPROVAL TO INCREASE STEP SIZE
2600	800	2016	
3000	858	2023	
3400	914	2026	
3800	981	2031	
4600	1107	2038	
5400	1272	2050	OCD APPROVAL TO INCREASE STEP SIZE
6000	1405	2053	RUN OUT OF AVAILABLE WATER
ISIP	740	2053	

END TESTS!



## Volume Data

\* (last record = total volume)

Date	Time	Volume
7/22/1991	11:59:53	5.9991684 bbl
7/22/1991	12:16:55	5.3005303 bbl
7/22/1991	12:30:18	4.7437880 bbl
7/22/1991	12:45: 3	6.3800049 bbl
7/22/1991	13:14:47	19.2012872 bbl
7/22/1991	13:30:18	13.3660889 bbl
7/22/1991	13:44:52	14.4936456 bbl
7/22/1991	13:59:47	16.6118707 bbl
7/22/1991	14:15: 0	19.1021729 bbl
7/22/1991	14:29:29	22.2062853 bbl
7/22/1991	14:45: 1	27.4816895 bbl
7/22/1991	15: 0:11	32.0575629 bbl
7/22/1991	15:15:16	35.0238037 bbl
7/22/1991	15:29:50	39.0147230 bbl
7/22/1991	15:45: 2	48.1641642 bbl
7/22/1991	15:59:49	55.5790880 bbl
7/22/1991	16:16:44	15.6423611 bbl
99/99/ 99	99:99:99	380.3682345 bbl

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11: 6:24	0	1940	0	76	0	0	536
11: 6:41	17	594	-1346	73	-3	0	536
11: 6:56	15	1923	1329	75	2	0	536
11: 7:11	15	2062	139	76	1	0	536
11: 7:26	15	1876	-186	73	-3	0	530
11: 7:41	15	1886	10	74	1	0	533
11: 7:56	15	1910	24	75	1	0	530
11: 8:11	15	2040	130	74	-1	0	533
11: 8:26	15	2010	-30	73	-1	0	536
11: 8:41	15	1886	-124	74	1	0	533
11: 8:56	15	2103	217	75	1	0	533
11: 9:11	15	1940	-163	74	-1	0	536
11: 9:26	15	1971	31	74	0	0	530
11: 9:41	15	1971	0	74	0	0	536
11: 9:56	15	1945	-26	76	2	0	536
11:10:11	15	1947	2	76	0	0	530
11:10:26	15	1857	-90	74	-2	0	533
11:10:41	15	1993	136	74	0	0	530
11:10:56	15	1989	-4	75	1	0	533
11:11:11	15	1989	0	75	0	0	533
11:11:26	15	1986	-3	73	-2	0	533
11:11:41	15	1989	3	73	0	0	539
11:11:56	15	1989	0	75	2	0	533
11:12:11	15	1989	0	73	-2	0	533
11:12:26	15	1989	0	75	2	0	536
11:12:41	15	1984	-5	74	-1	0	536
11:12:56	15	1991	7	74	0	0	533
11:13:11	15	1984	-7	73	-1	0	533
11:13:26	15	1993	9	74	1	0	319
11:13:41	15	1991	-2	75	1	0	506
11:13:56	15	1991	0	75	0	0	506
11:14:11	15	1993	2	74	-1	0	539
11:14:26	15	1989	-4	74	0	0	544
11:14:41	15	1993	4	73	-1	0	539
11:14:56	15	1993	0	74	1	2	530
11:15:11	15	1991	-2	76	2	0	527
11:15:26	15	1991	0	74	-2	0	547
11:15:41	15	1989	-2	74	0	0	533
11:15:56	15	1993	4	73	-1	0	521
11:16:11	15	1991	-2	74	1	0	533
11:16:26	15	1991	0	74	0	0	524
11:16:41	15	1989	-2	73	-1	0	539
11:16:56	15	1993	4	73	0	0	541
11:17:11	15	1986	-7	72	-1	0	588
11:17:26	15	1986	0	72	0	0	568
11:17:41	15	1986	0	74	2	61	544
11:17:56	15	1981	-5	74	0	0	524
11:18:11	15	1984	3	74	0	0	518
11:18:26	15	1989	5	72	-2	0	547
11:18:41	15	1989	0	73	1	0	530
11:18:56	15	1991	2	74	1	0	547
11:19:11	15	1981	-10	73	-1	0	518
11:19:26	15	1979	-2	73	0	0	547
11:19:41	15	1981	2	72	-1	11	541
11:19:56	15	1981	0	72	0	0	562
11:20:11	15	1984	3	74	2	0	547

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:20:26	15	1991	7	73	-1	178	515
11:20:41	15	1984	-7	72	-1	181	500
11:20:56	15	1984	0	71	-1	186	541
11:21:11	15	1984	0	73	2	158	574
11:21:26	15	1989	5	75	2	154	618
11:21:41	15	1986	-3	72	-3	104	600
11:21:56	15	1989	3	75	3	67	574
11:22:11	15	1991	2	74	-1	236	559
11:22:26	15	1984	-7	74	0	123	506
11:22:41	15	1981	-3	72	-2	49	544
11:22:56	15	1981	0	73	1	110	580
11:23:11	15	1981	0	73	0	117	539
11:23:26	15	1984	3	72	-1	47	574
11:23:41	15	1981	-3	72	0	114	556
11:23:56	15	1984	3	72	0	94	530
11:24:11	15	1981	-3	72	0	63	574
11:24:26	15	1981	0	72	0	142	553
11:24:41	15	1981	0	74	2	72	541
11:24:56	15	1981	0	72	-2	112	585
11:25:11	15	1984	3	72	0	120	533
11:25:26	15	1981	-3	72	0	52	580
11:25:41	15	1981	0	72	0	141	530
11:25:56	15	1984	3	73	1	70	553
11:26:11	15	1981	-3	73	0	123	597
11:26:26	15	1984	3	72	-1	94	553
11:26:41	15	1984	0	72	0	127	562
11:26:56	15	1984	0	72	0	123	553
11:27:11	15	1981	-3	72	0	111	565
11:27:26	15	1981	0	72	0	155	559
11:27:41	15	1984	3	73	1	72	559
11:27:56	15	1981	-3	74	1	170	565
11:28:11	15	1984	3	73	-1	70	556
11:28:26	15	1984	0	71	-2	169	565
11:28:41	15	1981	-3	72	1	79	559
11:28:56	15	1981	0	74	2	164	562
11:29:11	15	1981	0	72	-2	86	562
11:29:26	15	1981	0	73	1	139	562
11:29:41	15	1981	0	74	1	86	565
11:29:56	15	1981	0	72	-2	126	562
11:30:11	15	1984	3	71	-1	83	559
11:30:26	15	1981	-3	72	1	120	565
11:30:41	15	1984	3	72	0	86	562
11:30:56	15	1984	0	74	2	118	565
11:31:11	15	1984	0	72	-2	212	565
11:31:26	15	1984	0	74	2	141	565
11:31:41	15	1984	0	73	-1	238	565
11:31:56	15	1984	0	72	-1	183	565
11:32:11	15	1984	0	73	1	233	568
11:32:26	15	1984	0	74	1	250	571
11:32:41	15	1984	0	73	-1	178	568
11:32:56	15	1984	0	71	-2	263	568
11:33:11	15	1981	-3	73	2	214	565
11:33:26	15	1981	0	72	-1	240	568
11:33:41	15	1981	0	72	0	250	571
11:33:56	15	1984	3	73	1	162	571
11:34:11	15	1981	-3	72	-1	246	571

## WELL TEST DATA

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:34:26	15	1984	3	75	3	218	568
11:34:41	15	1981	-3	73	-2	264	571
11:34:56	15	1984	3	74	1	203	571
11:35:11	15	1984	0	72	-2	271	577
11:35:26	15	1984	0	71	-1	198	577
11:35:41	15	1984	0	74	3	275	577
11:35:56	15	1984	0	73	-1	193	574
11:36:11	15	1984	0	74	1	277	577
11:36:26	15	1984	0	71	-3	194	574
11:36:41	15	1984	0	74	3	278	583
11:36:56	15	1984	0	73	-1	189	580
11:37:11	15	1984	0	72	-1	291	580
11:37:26	15	1984	0	73	1	220	580
11:37:41	15	1984	0	73	0	191	580
11:37:56	15	1984	0	73	0	236	580
11:38:11	15	1984	0	73	0	178	580
11:38:26	15	1984	0	73	0	199	583
11:38:41	15	1984	0	72	-1	223	580
11:38:56	15	1984	0	74	2	170	583
11:39:11	15	1984	0	72	-2	212	585
11:39:26	15	1984	0	74	2	215	585
11:39:41	15	1984	0	74	0	193	583
11:39:56	15	1984	0	72	-2	246	588
11:40:11	15	1984	0	72	0	194	585
11:40:26	15	1984	0	72	0	209	585
11:40:41	15	1984	0	72	0	259	588
11:40:56	15	1984	0	72	0	164	588
11:41:11	15	1984	0	73	1	226	591
11:41:26	15	1984	0	72	-1	247	591
11:41:41	15	1984	0	73	1	152	591
11:41:56	15	1986	2	72	-1	237	594
11:42:11	15	1984	-2	74	2	234	594
11:42:26	15	1984	0	72	-2	161	591
11:42:41	15	1984	0	72	0	245	591
11:42:56	15	1984	0	72	0	212	594
11:43:11	15	1984	0	73	1	183	594
11:43:26	15	1984	0	71	-2	235	597
11:43:41	15	1984	0	74	3	169	591
11:43:56	15	1984	0	74	0	196	594
11:44:11	15	1984	0	74	0	221	594
11:44:26	15	1984	0	74	0	178	594
11:44:41	15	1984	0	72	-2	229	597
11:44:56	15	1984	0	71	-1	211	597
11:45:11	15	1984	0	74	3	203	594
11:45:26	15	1986	2	72	-2	266	597
11:45:41	15	1984	-2	73	1	314	600
11:45:56	15	1984	0	71	-2	219	597
11:46:11	15	1984	0	72	1	319	600
11:46:26	15	1984	0	71	-1	377	603
11:46:41	15	1984	0	73	2	260	603
11:46:56	15	1984	0	73	0	234	606
11:47:11	15	1984	0	73	0	287	606
11:47:26	15	1984	0	72	-1	290	606
11:47:41	15	1984	0	72	0	210	606
11:47:56	15	1984	0	72	0	237	606
11:48:11	15	1984	0	74	2	351	606

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:48:26	15	1984	0	72	-2	301	606
11:48:41	15	1984	0	73	1	205	606
11:48:56	15	1986	2	74	1	290	609
11:49:11	15	1984	-2	74	0	316	609
11:49:26	15	1984	0	74	0	237	606
11:49:41	15	1986	2	72	-2	263	606
11:49:56	15	1984	-2	71	-1	351	609
11:50:11	15	1984	0	71	0	292	609
11:50:26	15	1984	0	72	1	205	609
11:50:41	15	1986	2	72	0	336	612
11:50:56	15	1986	0	71	-1	345	612
11:51:11	15	1984	-2	72	1	208	612
11:51:26	15	1986	2	72	0	272	615
11:51:41	15	1984	-2	73	1	328	612
11:51:56	15	1984	0	71	-2	205	609
11:52:11	15	1984	0	72	1	263	612
11:52:26	15	1984	0	73	1	375	615
11:52:41	15	1984	0	74	1	301	618
11:52:56	15	1984	0	72	-2	287	615
11:53:11	15	1986	2	71	-1	372	621
11:53:26	15	1984	-2	71	0	304	618
11:53:41	15	1984	0	71	0	243	621
11:53:56	15	1986	2	73	2	354	624
11:54:11	15	1984	-2	73	0	304	624
11:54:26	15	1986	2	70	-3	251	618
11:54:41	15	1984	-2	72	2	354	626
11:54:56	15	1986	2	72	0	331	624
11:55:11	15	1986	0	72	0	251	624
11:55:26	15	1986	0	72	0	339	624
11:55:41	15	1984	-2	73	1	325	626
11:55:56	15	1984	0	70	-3	199	626
11:56:11	15	1986	2	72	2	316	626
11:56:26	15	1984	-2	72	0	322	629
11:56:41	15	1989	5	71	-1	208	626
11:56:56	15	1986	-3	71	0	333	632
11:57:11	15	1986	0	72	1	339	629
11:57:26	15	1986	0	72	0	225	632
11:57:41	15	1986	0	73	1	319	629
11:57:56	15	1986	0	72	-1	345	629
11:58:11	15	1989	3	72	0	196	629
11:58:26	15	1986	-3	73	1	290	629
11:58:41	15	1986	0	72	-1	316	632
11:58:56	15	1984	-2	71	-1	190	629
11:59:11	15	1986	2	72	1	316	629
11:59:26	15	1986	0	70	-2	328	635
11:59:41	15	1986	0	72	2	222	635
11:59:56	15	1986	0	71	-1	316	635
12: 0:11	15	1986	0	73	2	333	641
12: 0:26	15	1986	0	72	-1	199	635
12: 0:41	15	1986	0	70	-2	442	641
12: 0:56	15	1986	0	73	3	500	641
12: 1:11	15	1986	0	72	-1	486	641
12: 1:26	15	1986	0	72	0	416	641
12: 1:41	15	1989	3	72	0	468	647
12: 1:56	15	1984	-5	72	0	498	650
12: 2:11	15	1986	2	70	-2	468	644

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12: 2:26	15	1986	0	71	1	530	650
12: 2:41	15	1986	0	72	1	553	659
12: 2:56	15	1986	0	72	0	577	662
12: 3:11	15	1986	0	73	1	562	659
12: 3:26	15	1986	0	72	-1	562	656
12: 3:41	15	1986	0	71	-1	539	659
12: 3:56	15	1986	0	72	1	509	659
12: 4:11	15	1989	3	71	-1	544	665
12: 4:26	15	1984	-5	73	2	465	662
12: 4:41	15	1986	2	71	-2	442	665
12: 4:56	15	1989	3	71	0	439	665
12: 5:11	15	1989	0	72	1	418	667
12: 5:26	15	1989	0	72	0	433	665
12: 5:41	15	1989	0	70	-2	448	670
12: 5:56	15	1986	-3	73	3	454	667
12: 6:11	15	1986	0	72	-1	471	670
12: 6:26	15	1986	0	70	-2	474	673
12: 6:41	15	1986	0	71	1	457	676
12: 6:56	15	1989	3	72	1	468	676
12: 7:11	15	1986	-3	73	1	395	676
12: 7:26	15	1986	0	71	-2	380	673
12: 7:41	15	1984	-2	70	-1	363	670
12: 7:56	15	1984	0	70	0	386	670
12: 8:11	15	1986	2	73	3	375	670
12: 8:26	15	1986	0	72	-1	357	670
12: 8:41	15	1986	0	73	1	375	673
12: 8:56	15	1986	0	73	0	410	676
12: 9:11	15	1989	3	72	-1	451	676
12: 9:26	15	1986	-3	72	0	465	682
12: 9:41	15	1989	3	72	0	427	682
12: 9:56	15	1989	0	71	-1	439	682
12:10:11	15	1986	-3	72	1	451	682
12:10:26	15	1986	0	70	-2	445	685
12:10:41	15	1986	0	73	3	448	682
12:10:56	15	1984	-2	71	-2	433	682
12:11:11	15	1984	0	70	-1	410	676
12:11:26	15	1984	0	70	0	413	673
12:11:41	15	1989	5	72	2	404	673
12:11:56	15	1989	0	72	0	386	670
12:12:11	15	1986	-3	73	1	380	673
12:12:26	15	1989	3	71	-2	410	673
12:12:41	15	1986	-3	73	2	424	679
12:12:56	15	1986	0	71	-2	430	679
12:13:11	15	1989	3	70	-1	445	676
12:13:26	15	1989	0	72	2	436	676
12:13:41	15	1984	-5	72	0	416	670
12:13:56	15	1984	0	72	0	395	670
12:14:11	15	1986	2	72	0	389	667
12:14:26	15	1986	0	72	0	401	667
12:14:41	15	1989	3	71	-1	416	670
12:14:56	15	1989	0	70	-1	424	670
12:15:11	15	1989	0	71	1	454	673
12:15:26	15	1989	0	71	0	448	670
12:15:41	15	1989	0	72	1	416	670
12:15:56	15	1989	0	72	0	480	670
12:16:11	15	1986	-3	72	0	454	670

## WELL TEST DATA

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:16:26	15	1989	3	73	1	474	670
12:16:41	15	1989	0	70	-3	500	670
12:16:56	15	1986	-3	70	0	539	670
12:17:11	15	1989	3	72	2	518	670
12:17:26	15	1986	-3	70	-2	503	670
12:17:41	15	1989	3	73	3	509	665
12:17:56	15	1986	-3	70	-3	474	665
12:18:11	15	1989	3	71	1	503	665
12:18:26	15	1989	0	72	1	518	665
12:18:41	15	1989	0	73	1	565	665
12:18:56	15	1986	-3	72	-1	536	665
12:19:11	15	1986	0	71	-1	500	662
12:19:26	15	1986	0	70	-1	477	659
12:19:41	15	1989	3	71	1	471	659
12:19:56	15	1989	0	72	1	512	659
12:20:11	15	1989	0	71	-1	527	659
12:20:26	15	1986	-3	72	1	544	659
12:20:41	15	1986	0	72	0	527	653
12:20:56	15	1986	0	72	0	480	653
12:21:11	15	1989	3	71	-1	459	656
12:21:26	15	1989	0	69	-2	524	656
12:21:41	15	1989	0	72	3	550	659
12:21:56	15	1991	2	71	-1	544	656
12:22:11	15	1991	0	73	2	527	653
12:22:26	15	1989	-2	70	-3	498	650
12:22:41	15	1991	2	70	0	486	647
12:22:56	15	1989	-2	70	0	518	653
12:23:11	15	1989	0	70	0	565	653
12:23:26	15	1989	0	69	-1	544	650
12:23:41	15	1986	-3	70	1	500	644
12:23:56	15	1989	3	72	2	480	644
12:24:11	15	1989	0	72	0	515	644
12:24:26	15	1989	0	69	-3	544	647
12:24:41	15	1989	0	70	1	556	647
12:24:56	15	1986	-3	71	1	530	644
12:25:11	15	1989	3	70	-1	498	644
12:25:26	15	1989	0	70	0	492	644
12:25:41	15	1991	2	72	2	503	644
12:25:56	15	1989	-2	71	-1	536	641
12:26:11	15	1989	0	70	-1	512	641
12:26:26	15	1986	-3	71	1	480	632
12:26:41	15	1989	3	72	1	448	635
12:26:56	15	1989	0	71	-1	498	635
12:27:11	15	1986	-3	72	1	533	638
12:27:26	15	1989	3	70	-2	524	632
12:27:41	15	1986	-3	72	2	495	632
12:27:56	15	1989	3	70	-2	465	629
12:28:11	15	1989	0	72	2	486	632
12:28:26	15	1989	0	70	-2	524	635
12:28:41	15	1989	0	70	0	544	632
12:28:56	15	1986	-3	70	0	495	626
12:29:11	15	1989	3	69	-1	451	624
12:29:26	15	1989	0	70	1	495	626
12:29:41	15	1989	0	68	-2	539	629
12:29:56	15	1986	-3	70	2	521	629
12:30:11	15	1989	3	68	-2	486	624

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BFD)	Surf Pres (PSIG)
12:30:26	15	1989	0	70	2	468	626
12:30:41	15	1989	0	71	1	506	624
12:30:56	15	1989	0	70	-1	541	626
12:31:11	15	1989	0	69	-1	653	624
12:31:26	15	1989	0	69	0	618	624
12:31:41	15	1991	2	70	1	568	624
12:31:56	15	1989	-2	69	-1	600	629
12:32:11	15	1986	-3	68	-1	635	624
12:32:26	15	1989	3	71	3	612	624
12:32:41	15	1989	0	70	-1	553	621
12:32:56	15	1989	0	70	0	597	621
12:33:11	15	1989	0	70	0	650	624
12:33:26	15	1989	0	70	0	641	618
12:33:41	15	1989	0	70	0	600	615
12:33:56	15	1989	0	69	-1	591	618
12:34:11	15	1989	0	71	2	638	618
12:34:26	15	1989	0	70	-1	662	618
12:34:41	15	1989	0	69	-1	621	618
12:34:56	15	1989	0	69	0	588	612
12:35:11	15	1989	0	70	1	615	615
12:35:26	15	1989	0	70	0	638	615
12:35:41	15	1989	0	70	0	656	612
12:35:56	15	1989	0	69	-1	624	609
12:36:11	15	1989	0	71	2	603	609
12:36:26	15	1989	0	70	-1	626	609
12:36:41	15	1989	0	69	-1	673	609
12:36:56	15	1989	0	70	1	644	603
12:37:11	15	1989	0	71	1	597	603
12:37:26	15	1991	2	70	-1	624	603
12:37:41	15	1989	-2	69	-1	679	606
12:37:56	15	1986	-3	68	-1	656	600
12:38:11	15	1989	3	70	2	618	600
12:38:26	15	1989	0	69	-1	618	597
12:38:41	15	1989	0	71	2	632	600
12:38:56	15	1989	0	71	0	632	597
12:39:11	15	1989	0	69	-2	600	591
12:39:26	15	1989	0	68	-1	556	591
12:39:41	15	1981	-8	71	3	621	594
12:39:56	15	1974	-7	69	-2	659	600
12:40:11	15	1974	0	69	0	624	594
12:40:26	15	1974	0	70	1	574	594
12:40:41	15	1974	0	71	1	615	594
12:40:56	15	1979	5	68	-3	662	600
12:41:11	15	1976	-3	68	0	644	597
12:41:26	15	1981	5	68	0	588	594
12:41:41	15	1979	-2	70	2	624	594
12:41:56	15	1984	5	70	0	659	597
12:42:11	15	1981	-3	69	-1	662	594
12:42:26	15	1984	3	70	1	603	594
12:42:41	15	1984	0	70	0	609	594
12:42:56	15	1986	2	70	0	656	597
12:43:11	15	1986	0	67	-3	670	597
12:43:26	15	1989	3	68	1	618	591
12:43:41	15	1989	0	69	1	603	594
12:43:56	15	1989	0	70	1	653	594
12:44:11	15	1989	0	69	-1	679	597



## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:44:26	15	1986	-3	69	0	635	591
12:44:41	15	1986	0	68	-1	594	588
12:44:56	15	1989	3	71	3	676	594
12:45:11	15	1986	-3	69	-2	720	597
12:45:26	15	1989	3	69	0	679	594
12:45:41	15	1989	0	67	-2	629	591
12:45:56	15	1989	0	70	3	688	594
12:46:11	15	1989	0	67	-3	867	600
12:46:26	15	1989	0	68	1	744	600
12:46:41	15	1989	0	69	1	799	600
12:46:56	15	1991	2	69	0	799	597
12:47:11	15	1989	-2	70	1	799	597
12:47:26	15	1991	2	69	-1	843	600
12:47:41	15	1991	0	68	-1	820	597
12:47:56	15	1991	0	69	1	799	597
12:48:11	15	1989	-2	69	0	837	600
12:48:26	15	1991	2	68	-1	852	600
12:48:41	15	1989	-2	68	0	820	597
12:48:56	15	1989	0	68	0	805	600
12:49:11	15	1991	2	67	-1	846	600
12:49:26	15	1989	-2	67	0	849	600
12:49:41	15	1991	2	68	1	837	600
12:49:56	15	1991	0	70	2	802	600
12:50:11	15	1991	0	69	-1	849	597
12:50:26	15	1991	0	68	-1	855	597
12:50:41	15	1991	0	68	0	823	597
12:50:56	15	1991	0	67	-1	785	594
12:51:11	15	1991	0	67	0	785	597
12:51:26	15	1991	0	69	2	832	597
12:51:41	15	1991	0	69	0	837	600
12:51:56	15	1991	0	67	-2	811	594
12:52:11	15	1991	0	67	0	788	597
12:52:26	15	1993	2	69	2	808	597
12:52:41	15	1991	-2	67	-2	840	597
12:52:56	15	1993	2	67	0	811	597
12:53:11	15	1991	-2	67	0	785	597
12:53:26	15	1993	2	68	1	820	597
12:53:41	15	1991	-2	68	0	840	612
12:53:56	15	1993	2	67	-1	832	606
12:54:11	15	1993	0	68	1	802	591
12:54:26	15	1993	0	68	0	805	597
12:54:41	15	1993	0	68	0	837	606
12:54:56	15	1993	0	68	0	867	597
12:55:11	15	1993	0	67	-1	861	594
12:55:26	15	1993	0	66	-1	820	591
12:55:41	15	1993	0	67	1	808	594
12:55:56	15	1993	0	66	-1	840	606
12:56:11	15	1993	0	67	1	867	606
12:56:26	15	1993	0	69	2	870	594
12:56:41	15	1993	0	68	-1	840	591
12:56:56	15	1993	0	67	-1	808	588
12:57:11	15	1993	0	67	0	817	594
12:57:26	15	1993	0	68	1	861	609
12:57:41	15	1993	0	67	-1	870	603
12:57:56	15	1993	0	68	1	855	591
12:58:11	15	1993	0	67	-1	820	594

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:58:26	15	1993	0	67	0	820	606
12:58:41	15	1996	3	68	1	855	603
12:58:56	15	1993	-3	69	1	873	609
12:59:11	15	1996	3	69	0	864	594
12:59:26	15	1993	-3	69	0	829	588
12:59:41	15	1996	3	68	-1	817	597
12:59:56	15	1996	0	69	1	1004	618
13: 0:11	15	1996	0	67	-2	1042	609
13: 0:26	15	1993	-3	67	0	1045	615
13: 0:41	15	1996	3	68	1	1010	600
13: 0:56	15	1998	2	68	0	1007	603
13: 1:11	15	1996	-2	68	0	990	618
13: 1:26	15	1996	0	68	0	1025	615
13: 1:41	15	1996	0	67	-1	1042	600
13: 1:56	15	1996	0	68	1	1016	600
13: 2:11	15	1996	0	68	0	984	603
13: 2:26	15	1998	2	69	1	1007	612
13: 2:41	15	1996	-2	66	-3	1045	621
13: 2:56	15	1996	0	67	1	1054	609
13: 3:11	15	1996	0	67	0	1025	603
13: 3:26	15	1998	2	67	0	996	606
13: 3:41	15	1998	0	66	-1	1010	624
13: 3:56	15	1998	0	67	1	1042	618
13: 4:11	15	1996	-2	66	-1	1060	615
13: 4:26	15	1996	0	66	0	1045	606
13: 4:41	15	1998	2	68	2	1010	606
13: 4:56	15	1998	0	66	-2	999	618
13: 5:11	15	1998	0	69	3	1025	621
13: 5:26	15	1998	0	68	-1	1057	609
13: 5:41	15	1998	0	67	-1	1048	615
13: 5:56	15	1998	0	68	1	1019	603
13: 6:11	15	1998	0	66	-2	1007	606
13: 6:26	15	1998	0	68	2	1022	621
13: 6:41	15	1998	0	66	-2	1042	618
13: 6:56	15	1998	0	65	-1	1057	603
13: 7:11	15	1998	0	66	1	1042	612
13: 7:26	15	1998	0	69	3	1010	606
13: 7:41	15	1998	0	68	-1	1013	609
13: 7:56	15	1998	0	68	0	1045	624
13: 8:11	15	1998	0	67	-1	1069	612
13: 8:26	15	1998	0	67	0	1045	600
13: 8:41	15	1998	0	67	0	1010	606
13: 8:56	15	1998	0	67	0	1007	609
13: 9:11	15	1998	0	68	1	1025	612
13: 9:26	15	1998	0	68	0	1066	621
13: 9:41	15	1998	0	68	0	1063	609
13: 9:56	15	1998	0	67	-1	1037	603
13:10:11	15	1998	0	66	-1	1010	609
13:10:26	15	1998	0	67	1	1007	621
13:10:41	15	1998	0	65	-2	1042	612
13:10:56	15	1998	0	66	1	1069	618
13:11:11	15	1998	0	67	1	1063	606
13:11:26	15	1998	0	69	2	1025	603
13:11:41	15	1998	0	66	-3	1016	609
13:11:56	15	1998	0	67	1	1040	618
13:12:11	15	1998	0	68	1	1066	603

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:12:26	15	1998	0	65	-3	1060	615
13:12:41	15	1998	0	65	0	1045	600
13:12:56	15	1998	0	68	3	1010	603
13:13:11	15	1998	0	66	-2	1025	612
13:13:26	15	1998	0	66	0	1063	618
13:13:41	15	1998	0	68	2	1072	606
13:13:56	15	1998	0	67	-1	1042	603
13:14:11	15	1998	0	66	-1	1010	600
13:14:26	15	1998	0	68	2	1007	606
13:14:41	15	2001	3	68	0	1031	618
13:14:56	15	1998	-3	67	-1	1136	618
13:15:11	15	1998	0	68	1	1198	632
13:15:26	15	1998	0	65	-3	1233	615
13:15:41	15	2006	8	67	2	1233	618
13:15:56	15	2001	-5	67	0	1277	632
13:16:11	15	1998	-3	68	1	1303	638
13:16:26	15	2001	3	67	-1	1215	629
13:16:41	15	2001	0	67	0	1171	615
13:16:56	15	2001	0	65	-2	1186	635
13:17:11	15	2001	0	67	2	1209	621
13:17:26	15	1998	-3	68	1	1230	632
13:17:41	15	1998	0	66	-2	1242	629
13:17:56	15	2001	3	66	0	1245	626
13:18:11	15	1998	-3	66	0	1250	632
13:18:26	15	1998	0	66	0	1253	621
13:18:41	15	1998	0	67	1	1259	632
13:18:56	15	2001	3	67	0	1230	624
13:19:11	15	2001	0	65	-2	1218	621
13:19:26	15	1998	-3	68	3	1230	632
13:19:41	15	2003	5	67	-1	1215	624
13:19:56	15	2001	-2	64	-3	1233	632
13:20:11	15	2001	0	66	2	1230	635
13:20:26	15	1998	-3	67	1	1265	629
13:20:41	15	2001	3	66	-1	1259	638
13:20:56	15	2001	0	65	-1	1280	638
13:21:11	15	2001	0	67	2	1280	629
13:21:26	15	2001	0	64	-3	1286	632
13:21:41	15	2001	0	67	3	1286	641
13:21:56	15	2001	0	64	-3	1291	632
13:22:11	15	2001	0	66	2	1289	624
13:22:26	15	2001	0	66	0	1286	624
13:22:41	15	1998	-3	64	-2	1283	641
13:22:56	15	1998	0	66	2	1274	626
13:23:11	15	1998	0	67	1	1280	624
13:23:26	15	1998	0	66	-1	1215	624
13:23:41	15	1998	0	66	0	1201	632
13:23:56	15	2001	3	65	-1	1198	621
13:24:11	15	2001	0	65	0	1195	618
13:24:26	15	2001	0	65	0	1183	618
13:24:41	15	1998	-3	67	2	1189	632
13:24:56	15	2001	3	64	-3	1183	621
13:25:11	15	2001	0	66	2	1209	626
13:25:26	15	2001	0	64	-2	1186	635
13:25:41	15	2001	0	66	2	1215	632
13:25:56	15	2001	0	66	0	1204	624
13:26:11	15	2003	2	66	0	1215	621

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:26:26	15	2001	-2	65	-1	1212	621
13:26:41	15	1998	-3	66	1	1224	641
13:26:56	15	2001	3	64	-2	1233	632
13:27:11	15	2003	2	65	1	1233	624
13:27:26	15	2001	-2	65	0	1239	626
13:27:41	15	2001	0	65	0	1233	621
13:27:56	15	2001	0	67	2	1248	626
13:28:11	15	2001	0	67	0	1230	632
13:28:26	15	2001	0	65	-2	1248	641
13:28:41	15	2003	2	65	0	1227	635
13:28:56	15	2001	-2	66	1	1256	629
13:29:11	15	2633	632	65	-1	1259	629
13:29:26	15	50	-2583	64	-1	1256	624
13:29:41	15	1266	1216	65	1	1253	626
13:29:56	15	2001	735	65	0	1250	632
13:30:11	15	2001	0	66	1	1253	641
13:30:26	15	2001	0	65	-1	1245	644
13:30:41	15	2001	0	66	1	1283	635
13:30:56	15	2003	2	66	0	1318	635
13:31:11	15	2001	-2	67	1	1470	641
13:31:26	15	2003	2	65	-2	1403	638
13:31:41	15	2003	0	67	2	1379	644
13:31:56	15	2001	-2	67	0	1441	647
13:32:11	15	2001	0	65	-2	1450	647
13:32:26	15	2003	2	66	1	1435	647
13:32:41	15	2001	-2	68	2	1438	647
13:32:56	15	2001	0	66	-2	1447	647
13:33:11	15	2001	0	67	1	1461	644
13:33:26	15	2003	2	65	-2	1491	650
13:33:41	15	2001	-2	64	-1	1473	644
13:33:56	15	2003	2	67	3	1409	644
13:34:11	15	2001	-2	66	-1	1391	638
13:34:26	15	2001	0	66	0	1423	638
13:34:41	15	2003	2	67	1	1426	641
13:34:56	15	2003	0	66	-1	1397	641
13:35:11	15	2003	0	65	-1	1400	638
13:35:26	15	2001	-2	67	2	1417	644
13:35:41	15	2003	2	65	-2	1432	635
13:35:56	15	2003	0	64	-1	1444	638
13:36:11	15	2003	0	65	1	1426	638
13:36:26	15	2003	0	67	2	1403	641
13:36:41	15	2001	-2	65	-2	1403	641
13:36:56	15	2003	2	65	0	1447	644
13:37:11	15	2003	0	65	0	1456	647
13:37:26	15	2001	-2	67	2	1444	641
13:37:41	15	2003	2	66	-1	1429	644
13:37:56	15	2001	-2	67	1	1426	641
13:38:11	15	2003	2	64	-3	1461	647
13:38:26	15	2003	0	65	1	1467	641
13:38:41	15	2003	0	65	0	1438	641
13:38:56	15	2001	-2	65	0	1420	647
13:39:11	15	2001	0	67	2	1426	641
13:39:26	15	2003	2	64	-3	1456	641
13:39:41	15	2003	0	67	3	1467	644
13:39:56	15	2003	0	66	-1	1470	644
13:40:11	15	2003	0	66	0	1447	647

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:40:26	15	2003	0	65	-1	1441	641
13:40:41	15	2003	0	67	2	1447	641
13:40:56	15	2003	0	65	-2	1473	647
13:41:11	15	2003	0	65	0	1479	644
13:41:26	15	2003	0	65	0	1497	650
13:41:41	15	2003	0	64	-1	1467	644
13:41:56	15	2003	0	65	1	1458	647
13:42:11	15	2003	0	66	1	1467	650
13:42:26	15	2003	0	66	0	1420	638
13:42:41	15	2003	0	66	0	1429	641
13:42:56	15	2003	0	65	-1	1406	638
13:43:11	15	2001	-2	66	1	1406	641
13:43:26	15	2003	2	66	0	1429	638
13:43:41	15	2003	0	65	-1	1441	647
13:43:56	15	2003	0	64	-1	1441	644
13:44:11	15	2003	0	66	2	1417	644
13:44:26	15	2003	0	64	-2	1391	635
13:44:41	15	2003	0	65	1	1415	635
13:44:56	15	2003	0	65	0	1417	641
13:45:11	15	2003	0	65	0	1394	641
13:45:26	15	2003	0	66	1	1391	638
13:45:41	15	2003	0	64	-2	1795	670
13:45:56	15	2003	0	67	3	1584	656
13:46:11	15	2003	0	64	-3	1593	656
13:46:26	15	2003	0	66	2	1602	656
13:46:41	15	2003	0	64	-2	1614	653
13:46:56	15	2003	0	65	1	1617	659
13:47:11	15	2003	0	67	2	1625	656
13:47:26	15	2003	0	65	-2	1634	656
13:47:41	15	2003	0	66	1	1634	656
13:47:56	15	2003	0	65	-1	1628	659
13:48:11	15	2003	0	66	1	1637	659
13:48:26	15	2003	0	66	0	1637	659
13:48:41	15	2003	0	66	0	1631	653
13:48:56	15	2003	0	67	1	1640	659
13:49:11	15	2003	0	63	-4	1646	659
13:49:26	15	2003	0	64	1	1646	662
13:49:41	15	2003	0	64	0	1637	659
13:49:56	15	2003	0	65	1	1661	662
13:50:11	15	2003	0	64	-1	1658	659
13:50:26	15	2003	0	67	3	1646	656
13:50:41	15	2003	0	65	-2	1658	662
13:50:56	15	2003	0	65	0	1661	662
13:51:11	15	2003	0	63	-2	1661	665
13:51:26	15	2003	0	67	4	1655	662
13:51:41	15	2003	0	64	-3	1570	659
13:51:56	15	2003	0	65	1	1552	656
13:52:11	15	2003	0	65	0	1541	656
13:52:26	15	2003	0	63	-2	1546	656
13:52:41	15	2003	0	66	3	1552	656
13:52:56	15	2003	0	67	1	1567	656
13:53:11	15	2003	0	65	-2	1576	653
13:53:26	15	2003	0	63	-2	1579	656
13:53:41	15	2003	0	67	4	1587	656
13:53:56	15	2003	0	68	1	1579	656
13:54:11	15	2003	0	66	-2	1576	656

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:54:26	15	2006	3	64	-2	1567	656
13:54:41	15	2003	-3	66	2	1570	653
13:54:56	15	2003	0	65	-1	1555	659
13:55:11	15	2003	0	64	-1	1579	659
13:55:26	15	2003	0	66	2	1587	659
13:55:41	15	2003	0	65	-1	1593	659
13:55:56	15	2003	0	65	0	1611	662
13:56:11	15	2003	0	64	-1	1611	662
13:56:26	15	2003	0	67	3	1593	659
13:56:41	15	2003	0	66	-1	1582	659
13:56:56	15	2003	0	66	0	1582	665
13:57:11	15	2003	0	65	-1	1576	662
13:57:26	15	2003	0	64	-1	1582	665
13:57:41	15	2003	0	67	3	1584	659
13:57:56	15	2003	0	65	-2	1599	667
13:58:11	15	2003	0	66	1	1614	667
13:58:26	15	2003	0	66	0	1617	667
13:58:41	15	2003	0	64	-2	1614	670
13:58:56	15	2006	3	67	3	1608	670
13:59:11	15	2006	0	65	-2	1605	670
13:59:26	15	2006	0	64	-1	1602	670
13:59:41	15	2006	0	67	3	1582	670
13:59:56	15	2003	-3	64	-3	1587	673
14: 0:11	15	2003	0	64	0	1596	673
14: 0:26	15	2006	3	67	3	1807	688
14: 0:41	15	2003	-3	66	-1	1781	691
14: 0:56	15	2006	3	64	-2	1810	691
14: 1:11	15	2008	2	67	3	1798	691
14: 1:26	15	2006	-2	68	1	1792	694
14: 1:41	15	2006	0	64	-4	1813	682
14: 1:56	15	2008	2	65	1	1807	700
14: 2:11	15	2006	-2	66	1	1798	700
14: 2:26	15	2006	0	66	0	1819	691
14: 2:41	15	2008	2	65	-1	1790	703
14: 2:56	15	2006	-2	67	2	1801	703
14: 3:11	15	2006	0	64	-3	1822	700
14: 3:26	15	2008	2	65	1	1784	706
14: 3:41	15	2008	0	64	-1	1804	703
14: 3:56	15	2006	-2	65	1	1825	697
14: 4:11	15	2008	2	63	-2	1804	703
14: 4:26	15	2008	0	64	1	1801	706
14: 4:41	15	2008	0	66	2	1816	706
14: 4:56	15	2008	0	63	-3	1807	694
14: 5:11	15	2008	0	65	2	1807	711
14: 5:26	15	2008	0	64	-1	1822	703
14: 5:41	15	2008	0	64	0	1790	703
14: 5:56	15	2010	2	64	0	1810	708
14: 6:11	15	2008	-2	65	1	1825	708
14: 6:26	15	2008	0	65	0	1804	697
14: 6:41	15	2010	2	66	1	1819	714
14: 6:56	15	2008	-2	66	0	1816	703
14: 7:11	15	2008	0	65	-1	1807	708
14: 7:26	15	2008	0	66	1	1819	708
14: 7:41	15	2010	2	66	0	1822	711
14: 7:56	15	2010	0	67	1	1804	697
14: 8:11	15	2010	0	64	-3	1822	711

## WELL TEST DATA

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14: 8:26	15	2008	-2	67	3	1828	706
14: 8:41	15	2008	0	67	0	1804	708
14: 8:56	15	2008	0	65	-2	1825	708
14: 9:11	15	2008	0	66	1	1819	708
14: 9:26	15	2008	0	65	-1	1804	697
14: 9:41	15	2010	2	64	-1	1828	711
14: 9:56	15	2010	0	66	2	1819	711
14:10:11	15	2008	-2	65	-1	1804	706
14:10:26	15	2008	0	66	1	1825	711
14:10:41	15	2010	2	66	0	1819	714
14:10:56	15	2008	-2	64	-2	1798	703
14:11:11	15	2010	2	65	1	1825	711
14:11:26	15	2010	0	65	0	1813	711
14:11:41	15	2008	-2	64	-1	1804	706
14:11:56	15	2008	0	65	1	1825	711
14:12:11	15	2008	0	66	1	1795	714
14:12:26	15	2008	0	66	0	1807	703
14:12:41	15	2008	0	66	0	1819	714
14:12:56	15	2008	0	66	0	1801	711
14:13:11	15	2008	0	64	-2	1819	706
14:13:26	15	2010	2	64	0	1819	717
14:13:41	15	2008	-2	65	1	1801	711
14:13:56	15	2008	0	64	-1	1816	711
14:14:11	15	2010	2	65	1	1819	720
14:14:26	15	2008	-2	65	0	1801	708
14:14:41	15	2008	0	64	-1	1825	711
14:14:56	15	2008	0	65	1	1813	717
14:15:11	15	2008	0	67	2	1804	711
14:15:26	15	2008	0	65	-2	1828	708
14:15:41	15	2008	0	66	1	1813	714
14:15:56	15	2008	0	63	-3	3345	861
14:16:11	15	2010	2	66	3	2323	758
14:16:26	15	2010	0	64	-2	2165	735
14:16:41	15	2010	0	66	2	2179	747
14:16:56	15	2010	0	66	0	2153	741
14:17:11	15	2008	-2	66	0	2176	735
14:17:26	15	2010	2	65	-1	2182	738
14:17:41	15	2010	0	66	1	2182	747
14:17:56	15	2010	0	65	-1	2185	750
14:18:11	15	2008	-2	66	1	2200	750
14:18:26	15	2008	0	65	-1	2188	747
14:18:41	15	2010	2	66	1	2214	741
14:18:56	15	2008	-2	65	-1	2214	741
14:19:11	15	2008	0	66	1	2211	744
14:19:26	15	2010	2	66	0	2217	752
14:19:41	15	2008	-2	65	-1	2191	752
14:19:56	15	2008	0	66	1	2217	755
14:20:11	15	2008	0	65	-1	2217	750
14:20:26	15	2008	0	67	2	2188	741
14:20:41	15	2008	0	65	-2	2217	741
14:20:56	15	2010	2	68	3	2214	750
14:21:11	15	2010	0	66	-2	2206	752
14:21:26	15	2008	-2	65	-1	2211	755
14:21:41	15	2008	0	65	0	2214	752
14:21:56	15	2008	0	66	1	2211	752
14:22:11	15	2010	2	66	0	2211	741

## WELL TEST DATA

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:22:26	15	2010	0	67	1	2211	744
14:22:41	15	2010	0	66	-1	2208	741
14:22:56	15	2010	0	67	1	2211	744
14:23:11	15	2010	0	67	0	2197	750
14:23:26	15	2008	-2	65	-2	2211	752
14:23:41	15	2008	0	67	2	2214	752
14:23:56	15	2008	0	65	-2	2197	747
14:24:11	15	2010	2	67	2	2211	741
14:24:26	15	2008	-2	65	-2	2208	741
14:24:41	15	2010	2	65	0	2197	741
14:24:56	15	2008	-2	66	1	2211	741
14:25:11	15	2008	0	66	0	2211	744
14:25:26	15	2008	0	64	-2	2197	747
14:25:41	15	2010	2	65	1	2211	755
14:25:56	15	2008	-2	66	1	2214	752
14:26:11	15	2010	2	66	0	2200	752
14:26:26	15	2008	-2	64	-2	2220	752
14:26:41	15	2010	2	63	-1	2214	744
14:26:56	15	2010	0	67	4	2206	738
14:27:11	15	2008	-2	67	0	2217	744
14:27:26	15	2010	2	65	-2	2220	747
14:27:41	15	2010	0	65	0	2217	755
14:27:56	15	2010	0	67	2	2220	755
14:28:11	15	2008	-2	67	0	2217	755
14:28:26	15	2008	0	66	-1	2214	758
14:28:41	15	2010	2	67	1	2217	755
14:28:56	15	2010	0	66	-1	2197	747
14:29:11	15	2010	0	67	1	2208	747
14:29:26	15	2010	0	66	-1	2211	747
14:29:41	15	2010	0	65	-1	2191	747
14:29:56	15	2010	0	67	2	2208	750
14:30:11	15	2010	0	67	0	2226	758
14:30:26	15	2010	0	66	-1	2894	840
14:30:41	15	2010	0	67	1	2557	785
14:30:56	15	2013	3	65	-2	2560	791
14:31:11	15	2013	0	66	1	2557	788
14:31:26	15	2010	-3	66	0	2554	791
14:31:41	15	2010	0	68	2	2551	796
14:31:56	15	2010	0	65	-3	2551	791
14:32:11	15	2010	0	65	0	2531	796
14:32:26	15	2013	3	66	1	2548	796
14:32:41	15	2010	-3	66	0	2548	788
14:32:56	15	2010	0	67	1	2548	788
14:33:11	15	2010	0	66	-1	2548	791
14:33:26	15	2010	0	66	0	2548	785
14:33:41	15	2010	0	67	1	2548	793
14:33:56	15	2010	0	65	-2	2531	793
14:34:11	15	2010	0	65	0	2548	788
14:34:26	15	2013	3	67	2	2548	793
14:34:41	15	2010	-3	64	-3	2551	796
14:34:56	15	2013	3	66	2	2534	785
14:35:11	15	2013	0	66	0	2554	793
14:35:26	15	2013	0	65	-1	2554	788
14:35:41	15	2013	0	66	1	2554	788
14:35:56	15	2013	0	66	0	2551	796
14:36:11	15	2013	0	64	-2	2557	793



Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:36:26	15	2013	0	65	1	2557	799
14:36:41	15	2013	0	66	1	2534	788
14:36:56	15	2013	0	67	1	2563	796
14:37:11	15	2013	0	66	-1	2563	791
14:37:26	15	2013	0	67	1	2563	791
14:37:41	15	2013	0	66	-1	2548	796
14:37:56	15	2013	0	67	1	2563	796
14:38:11	15	2013	0	66	-1	2566	802
14:38:26	15	2015	2	65	-1	2548	788
14:38:41	15	2013	-2	66	1	2566	793
14:38:56	15	2013	0	66	0	2566	791
14:39:11	15	2015	2	65	-1	2566	788
14:39:26	15	2015	0	65	0	2563	796
14:39:41	15	2013	-2	65	0	2563	799
14:39:56	15	2015	2	64	-1	2569	799
14:40:11	15	2015	0	66	2	2548	802
14:40:26	15	2015	0	65	-1	2566	793
14:40:41	15	2015	0	65	0	2566	796
14:40:56	15	2015	0	66	1	2572	791
14:41:11	15	2015	0	65	-1	2566	796
14:41:26	15	2013	-2	66	1	2563	796
14:41:41	15	2015	2	66	0	2569	799
14:41:56	15	2015	0	66	0	2548	799
14:42:11	15	2015	0	67	1	2563	793
14:42:26	15	2018	3	67	0	2563	793
14:42:41	15	2015	-3	66	-1	2548	796
14:42:56	15	2018	3	63	-3	2563	796
14:43:11	15	2018	0	65	2	2566	799
14:43:26	15	2015	-3	67	2	2569	799
14:43:41	15	2015	0	65	-2	2566	796
14:43:56	15	2018	3	67	2	2563	793
14:44:11	15	2015	-3	67	0	2572	799
14:44:26	15	2015	0	65	-2	2551	788
14:44:41	15	2015	0	67	2	2563	796
14:44:56	15	2015	0	68	1	2566	799
14:45:12	16	2018	3	66	-2	2545	796
14:45:27	15	2018	0	66	0	2589	799
14:45:42	15	2018	0	67	1	3032	852
14:45:57	15	2015	-3	66	-1	3067	861
14:46:12	15	2015	0	67	1	3058	855
14:46:27	15	2015	0	65	-2	3032	849
14:46:42	15	2018	3	64	-1	3049	852
14:46:57	15	2018	0	66	2	3064	858
14:47:12	15	2018	0	65	-1	3064	852
14:47:27	15	2018	0	66	1	3055	858
14:47:42	15	2018	0	66	0	3061	855
14:47:57	15	2018	0	67	1	3061	852
14:48:12	15	2018	0	67	0	3046	855
14:48:27	15	2018	0	65	-2	3038	846
14:48:42	15	2018	0	64	-1	3058	852
14:48:57	15	2018	0	66	2	3055	858
14:49:12	15	2018	0	66	0	3067	852
14:49:27	15	2018	0	68	2	3064	852
14:49:42	15	2018	0	65	-3	3058	852
14:49:57	15	2018	0	66	1	3032	852
14:50:12	15	2018	0	65	-1	3067	855

## WELL TEST DATA

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:50:27	15	2018	0	68	3	3076	855
14:50:42	15	2018	0	65	-3	3061	855
14:50:57	15	2018	0	66	1	3064	861
14:51:12	15	2020	2	67	1	3064	858
14:51:27	15	2018	-2	66	-1	3052	855
14:51:42	15	2020	2	66	0	3035	852
14:51:57	15	2018	-2	66	0	3058	849
14:52:12	15	2018	0	66	0	3061	861
14:52:27	15	2023	5	66	0	3061	855
14:52:42	15	2023	0	67	1	3061	849
14:52:57	15	2018	-5	67	0	3058	852
14:53:12	15	2020	2	67	0	3041	846
14:53:27	15	2020	0	66	-1	3064	858
14:53:42	15	2020	0	65	-1	3067	867
14:53:57	15	2020	0	67	2	3061	858
14:54:12	15	2020	0	68	1	3058	864
14:54:27	15	2020	0	66	-2	3055	858
14:54:42	15	2020	0	66	0	3038	855
14:54:57	15	2020	0	65	-1	3061	855
14:55:12	15	2020	0	66	1	3064	864
14:55:27	15	2020	0	66	0	3058	864
14:55:42	15	2020	0	65	-1	3061	864
14:55:57	15	2023	3	65	0	3043	858
14:56:12	15	2023	0	67	2	3038	852
14:56:27	15	2020	-3	67	0	3058	861
14:56:42	15	2020	0	65	-2	3055	858
14:56:57	15	2023	3	65	0	3061	861
14:57:12	15	2023	0	65	0	3064	858
14:57:27	15	2020	-3	66	1	3046	858
14:57:42	15	2020	0	67	1	3046	858
14:57:57	15	2020	0	68	1	3064	858
14:58:12	15	2018	-2	67	-1	3064	858
14:58:27	15	2023	5	65	-2	3064	858
14:58:42	15	2023	0	66	1	3064	858
14:58:57	15	2023	0	66	0	3052	858
14:59:12	15	2023	0	68	2	3055	852
14:59:27	15	2023	0	69	1	3076	858
14:59:42	15	2023	0	68	-1	3064	858
14:59:57	15	2023	0	66	-2	3073	858
15: 0:12	15	2023	0	65	-1	3076	852
15: 0:28	16	2023	0	67	2	3052	858
15: 0:43	15	2023	0	66	-1	3032	858
15: 0:58	15	2023	0	66	0	3413	896
15: 1:13	15	2023	0	66	0	3386	899
15: 1:28	15	2025	2	66	0	3383	899
15: 1:43	15	2023	-2	67	1	3389	902
15: 1:58	15	2023	0	67	0	3386	896
15: 2:13	15	2023	0	66	-1	3377	899
15: 2:28	15	2023	0	65	-1	3372	899
15: 2:43	15	2023	0	65	0	3348	899
15: 2:58	15	2023	0	65	0	3336	893
15: 3:13	15	2023	0	65	0	3348	905
15: 3:28	15	2023	0	66	1	3345	905
15: 3:43	15	2023	0	66	0	3351	899
15: 3:58	15	2023	0	65	-1	3348	890
15: 4:13	15	2023	0	67	2	3351	905

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15: 4:28	15	2025	2	68	1	3354	914
15: 4:43	15	2023	-2	67	-1	3339	905
15: 4:58	15	2023	0	67	0	3331	890
15: 5:13	15	2023	0	67	0	3351	905
15: 5:28	15	2023	0	66	-1	3354	908
15: 5:43	15	2023	0	66	0	3357	911
15: 5:58	15	2023	0	66	0	3354	908
15: 6:13	15	2025	2	66	0	3351	902
15: 6:28	15	2025	0	65	-1	3351	905
15: 6:43	15	2025	0	66	1	3331	914
15: 6:58	15	2023	-2	66	0	3333	902
15: 7:13	15	2025	2	65	-1	3354	899
15: 7:28	15	2025	0	66	1	3363	896
15: 7:43	15	2025	0	68	2	3363	905
15: 7:58	15	2025	0	68	0	3363	905
15: 8:13	15	2025	0	66	-2	3360	905
15: 8:28	15	2025	0	65	-1	3357	899
15: 8:43	15	2025	0	66	1	3325	902
15: 8:58	15	2025	0	66	0	3339	908
15: 9:13	15	2025	0	67	1	3345	908
15: 9:28	15	2025	0	66	-1	3348	899
15: 9:43	15	2025	0	66	0	3354	905
15: 9:58	15	2028	3	68	2	3351	905
15:10:13	15	2025	-3	66	-2	3345	905
15:10:28	15	2028	3	68	2	3319	908
15:10:43	15	2025	-3	66	-2	3354	908
15:10:58	15	2028	3	66	0	3351	905
15:11:13	15	2028	0	68	2	3354	908
15:11:28	15	2028	0	68	0	3354	914
15:11:43	15	2028	0	66	-2	3354	899
15:11:58	15	2028	0	66	0	3339	911
15:12:13	15	2028	0	68	2	3325	908
15:12:28	15	2028	0	67	-1	3351	908
15:12:43	15	2028	0	68	1	3351	905
15:12:58	15	2028	0	66	-2	3354	908
15:13:13	15	2028	0	66	0	3354	905
15:13:28	15	2028	0	66	0	3339	899
15:13:43	15	2028	0	67	1	3319	905
15:13:58	15	2028	0	67	0	3348	905
15:14:13	15	2028	0	68	1	3369	908
15:14:28	15	2028	0	67	-1	3354	899
15:14:43	15	2028	0	66	-1	3360	911
15:14:58	15	2028	0	65	-1	3354	902
15:15:13	15	2028	0	68	3	3325	899
15:15:28	15	2028	0	65	-3	3357	914
15:15:43	15	2030	2	66	1	3486	928
15:15:58	15	2028	-2	67	1	3738	958
15:16:13	15	2028	0	66	-1	3849	987
15:16:28	15	2028	0	67	1	3858	984
15:16:43	15	2028	0	67	0	3867	984
15:16:58	15	2028	0	68	1	3867	984
15:17:13	15	2028	0	67	-1	3867	987
15:17:28	15	2028	0	66	-1	3867	993
15:17:43	15	2028	0	68	2	3808	975
15:17:58	15	2028	0	67	-1	3805	987
15:18:13	15	2028	0	67	0	3802	975

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:18:28	15	2028	0	67	0	3817	969
15:18:43	15	2028	0	68	1	3820	984
15:18:58	15	2028	0	68	0	3837	990
15:19:13	15	2030	2	66	-2	3837	975
15:19:28	15	2028	-2	66	0	3858	990
15:19:43	15	2028	0	65	-1	3858	978
15:19:58	15	2030	2	66	1	3867	993
15:20:13	15	2028	-2	66	0	3875	993
15:20:28	15	2030	2	66	0	3887	987
15:20:43	15	2030	0	67	1	3867	993
15:20:58	15	2030	0	67	0	3881	996
15:21:13	15	2030	0	67	0	3867	990
15:21:28	15	2028	-2	68	1	3867	987
15:21:43	15	2030	2	66	-2	3867	993
15:21:58	15	2030	0	66	0	3843	981
15:22:13	15	2030	0	66	0	3840	978
15:22:28	15	2030	0	66	0	3849	987
15:22:43	15	2030	0	67	1	3837	990
15:22:58	15	2030	0	65	-2	3837	984
15:23:13	15	2028	-2	68	3	3858	993
15:23:28	15	2030	2	66	-2	3861	987
15:23:43	15	2030	0	67	1	3867	990
15:23:58	15	2032	2	65	-2	3867	981
15:24:13	15	2030	-2	67	2	3870	993
15:24:28	15	2028	-2	67	0	3867	987
15:24:43	15	2028	0	69	2	3867	987
15:24:58	15	2028	0	68	-1	3893	990
15:25:13	15	2028	0	68	0	3878	990
15:25:28	15	2030	2	68	0	3864	984
15:25:43	15	2030	0	67	-1	3870	978
15:25:58	15	2030	0	69	2	3896	987
15:26:13	15	2032	2	66	-3	3849	981
15:26:28	15	2030	-2	67	1	3896	981
15:26:43	15	2030	0	67	0	3867	981
15:26:58	15	2030	0	67	0	3867	978
15:27:13	15	2032	2	68	1	3867	981
15:27:28	15	2032	0	67	-1	3887	978
15:27:43	15	2030	-2	69	2	3867	975
15:27:58	15	2030	0	69	0	3867	975
15:28:13	15	2030	0	66	-3	3875	981
15:28:28	15	2030	0	66	0	3867	981
15:28:43	15	2032	2	68	2	3867	984
15:28:58	15	2030	-2	68	0	3867	981
15:29:13	15	2030	0	65	-3	3919	972
15:29:28	15	2032	2	68	3	3928	984
15:29:43	15	2032	0	68	0	3955	987
15:29:58	15	2030	-2	67	-1	3955	978
15:30:13	15	2030	0	68	1	3955	984
15:30:28	15	2030	0	66	-2	4063	993
15:30:43	15	2032	2	68	2	3776	946
15:30:58	15	2032	0	65	-3	4687	1104
15:31:13	15	2032	0	65	0	4687	1101
15:31:28	15	2032	0	68	3	4669	1089
15:31:43	15	2032	0	69	1	4517	1069
15:31:58	15	2030	-2	69	0	4520	1063
15:32:13	15	2032	2	67	-2	4570	1066

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:32:28	15	2032	0	67	0	4541	1066
15:32:43	15	2032	0	69	2	4570	1069
15:32:58	15	2032	0	67	-2	4570	1066
15:33:13	15	2032	0	66	-1	4541	1066
15:33:28	15	2032	0	68	2	4541	1069
15:33:43	15	2032	0	68	0	4555	1069
15:33:58	15	2032	0	66	-2	4541	1063
15:34:13	15	2032	0	66	0	4391	1022
15:34:28	15	2032	0	69	3	4570	1069
15:34:43	15	2032	0	66	-3	4520	1057
15:34:58	15	2032	0	68	2	4552	1069
15:35:13	15	2032	0	66	-2	4541	1078
15:35:28	15	2032	0	66	0	4523	1072
15:35:43	15	2032	0	68	2	4529	1075
15:35:58	15	2032	0	66	-2	4529	1075
15:36:13	15	2032	0	68	2	4482	1069
15:36:28	15	2032	0	68	0	4482	1078
15:36:43	15	2032	0	67	-1	4491	1078
15:36:58	15	2032	0	66	-1	4470	1072
15:37:13	15	2032	0	67	1	4570	1092
15:37:28	15	2032	0	67	0	4599	1095
15:37:43	15	2032	0	68	1	4584	1101
15:37:58	15	2032	0	67	-1	4590	1101
15:38:13	15	2032	0	69	2	4599	1104
15:38:28	15	2032	0	67	-2	4596	1098
15:38:43	15	2032	0	66	-1	4599	1101
15:38:58	15	2035	3	67	1	4599	1101
15:39:13	15	2032	-3	68	1	4599	1101
15:39:28	15	2035	3	67	-1	4599	1101
15:39:43	15	2032	-3	66	-1	4570	1098
15:39:58	15	2032	0	68	2	4599	1104
15:40:13	15	2032	0	66	-2	4599	1107
15:40:28	15	2035	3	67	1	4570	1101
15:40:43	15	2035	0	68	1	4599	1107
15:40:58	15	2035	0	69	1	4599	1107
15:41:13	15	2035	0	67	-2	4570	1104
15:41:28	15	2035	0	66	-1	4582	1110
15:41:43	15	2035	0	68	2	4587	1113
15:41:58	15	2035	0	68	0	4584	1104
15:42:13	15	2035	0	66	-2	4576	1110
15:42:28	15	2035	0	67	1	4587	1113
15:42:43	15	2035	0	68	1	4599	1113
15:42:58	15	2035	0	67	-1	4599	1107
15:43:13	15	2037	2	65	-2	4570	1110
15:43:28	15	2037	0	65	0	4584	1110
15:43:43	15	2037	0	67	2	4737	1113
15:43:58	15	2037	0	67	0	4716	1104
15:44:13	15	2037	0	67	0	4740	1107
15:44:28	15	2037	0	68	1	4719	1116
15:44:43	15	2037	0	68	0	4740	1107
15:44:58	15	2037	0	67	-1	4719	1107
15:45:14	16	2037	0	67	0	4743	1107
15:45:29	15	2037	0	66	-1	4936	1168
15:45:44	15	2037	0	68	2	5314	1215
15:45:59	15	2037	0	69	1	5425	1245
15:46:14	15	2037	0	67	-2	5414	1236

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:46:29	15	2037	0	68	1	5469	1245
15:46:44	15	2037	0	69	1	5419	1242
15:46:59	15	2037	0	67	-2	5425	1242
15:47:14	15	2040	3	70	3	5449	1248
15:47:29	15	2037	-3	68	-2	5440	1256
15:47:44	15	2040	3	69	1	5449	1256
15:47:59	15	2040	0	69	0	5419	1253
15:48:14	15	2040	0	68	-1	5449	1253
15:48:29	15	2040	0	67	-1	5449	1256
15:48:44	15	2040	0	66	-1	5449	1253
15:48:59	15	2040	0	67	1	5428	1259
15:49:14	15	2040	0	68	1	5440	1262
15:49:29	15	2040	0	69	1	5449	1256
15:49:44	15	2040	0	68	-1	5449	1262
15:49:59	15	2040	0	68	0	5452	1265
15:50:14	15	2040	0	70	2	5458	1262
15:50:29	15	2040	0	69	-1	5469	1259
15:50:44	15	2042	2	67	-2	5460	1262
15:50:59	15	2042	0	66	-1	5449	1262
15:51:14	15	2042	0	67	1	5449	1262
15:51:29	15	2040	-2	68	1	5449	1256
15:51:44	15	2042	2	69	1	5449	1262
15:51:59	15	2042	0	68	-1	5393	1250
15:52:14	15	2042	0	70	2	5437	1256
15:52:29	15	2042	0	68	-2	5449	1265
15:52:44	15	2042	0	69	1	5449	1268
15:52:59	15	2042	0	69	0	5422	1253
15:53:14	15	2042	0	69	0	5431	1262
15:53:29	15	2042	0	69	0	5449	1262
15:53:44	15	2042	0	70	1	5411	1256
15:53:59	15	2042	0	69	-1	5449	1262
15:54:14	15	2042	0	68	-1	5449	1271
15:54:29	15	2045	3	67	-1	5446	1265
15:54:44	15	2045	0	68	1	5446	1265
15:54:59	15	2045	0	68	0	5440	1268
15:55:14	15	2047	2	68	0	5449	1265
15:55:29	15	2045	-2	67	-1	5408	1262
15:55:44	15	2047	2	67	0	5449	1271
15:55:59	15	2047	0	67	0	5449	1262
15:56:14	15	2047	0	66	-1	5416	1259
15:56:29	15	2047	0	67	1	5419	1268
15:56:44	15	2047	0	67	0	5425	1271
15:56:59	15	2047	0	69	2	5416	1265
15:57:14	15	2050	3	69	0	5419	1259
15:57:29	15	2047	-3	69	0	5419	1265
15:57:44	15	2047	0	67	-2	5387	1259
15:57:59	15	2047	0	67	0	5390	1277
15:58:14	15	2047	0	68	1	5419	1268
15:58:29	15	2047	0	69	1	5419	1271
15:58:44	15	2047	0	68	-1	5411	1277
15:58:59	15	2047	0	70	2	5419	1274
15:59:14	15	2047	0	70	0	5419	1277
15:59:29	15	2050	3	68	-2	5370	1262
15:59:44	15	2050	0	69	1	5419	1280
15:59:59	15	2050	0	69	0	5419	1271
16: 0:14	15	2050	0	67	-2	5666	1327

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
16: 0:29	15	2050	0	68	1	5976	1388
16: 0:44	15	2050	0	69	1	5976	1403
16: 0:59	15	2050	0	68	-1	5976	1403
16: 1:14	15	2050	0	70	2	5976	1397
16: 1:29	15	2052	2	68	-2	5976	1400
16: 1:44	15	2052	0	70	2	5976	1403
16: 1:59	15	2052	0	68	-2	5976	1403
16: 2:14	15	2052	0	68	0	5976	1400
16: 2:29	15	2052	0	68	0	5976	1403
16: 2:44	15	2052	0	70	2	5976	1406
16: 2:59	15	2052	0	68	-2	5976	1406
16: 3:14	15	2052	0	68	0	5976	1400
16: 3:29	15	2052	0	68	0	5976	1409
16: 3:44	15	2054	2	68	0	5976	1406
16: 3:59	15	2052	-2	70	2	0	793 -
16: 4:14	15	2052	0	69	-1	0	735
16: 4:29	15	2052	0	67	-2	0	752
16: 4:44	15	2052	0	70	3	0	747
16: 4:59	15	2052	0	71	1	0	741 -
16: 5:14	15	2052	0	68	-3	0	735
16: 5:29	15	2052	0	69	1	0	735
16: 5:44	15	2050	-2	70	1	0	735
16: 5:59	15	2050	0	68	-2	0	738
16: 6:14	15	2052	2	69	1	0	738
16: 6:29	15	2050	-2	70	1	0	738
16: 6:44	15	2052	2	70	0	0	738
16: 6:59	15	2052	0	69	-1	0	735
16: 7:14	15	2052	0	68	-1	0	738
16: 7:29	15	2050	-2	68	0	0	735
16: 7:44	15	2052	2	68	0	0	735
16: 7:59	15	2050	-2	69	1	0	735
16: 8:14	15	2050	0	69	0	0	735
16: 8:29	15	2052	2	69	0	0	735
16: 8:44	15	2052	0	68	-1	0	735
16: 8:59	15	2050	-2	69	1	0	735
16: 9:14	15	2050	0	67	-2	0	735
16: 9:29	15	2050	0	70	3	0	735
16: 9:44	15	2050	0	69	-1	0	735
16: 9:59	15	2050	0	69	0	0	738
16:10:14	15	2050	0	68	-1	0	738
16:10:29	15	2050	0	67	-1	0	738
16:10:44	15	2050	0	69	2	0	735
16:10:59	15	2050	0	68	-1	0	735
16:11:14	15	2050	0	69	1	0	735
16:11:29	15	2050	0	69	0	0	735
16:11:44	15	2047	-3	69	0	0	735
16:11:59	15	2050	3	70	1	0	735
16:12:14	15	2050	0	68	-2	0	735
16:12:29	15	2050	0	68	0	0	735
16:12:44	15	2050	0	67	-1	0	735
16:12:59	15	2050	0	70	3	0	738
16:13:14	15	2050	0	69	-1	0	738
16:13:29	15	2050	0	70	1	0	735
16:13:44	15	2050	0	68	-2	0	735
16:13:59	15	2050	0	69	1	0	738
16:14:14	15	2050	0	69	0	0	738

## Well Test Data

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
16:14:29	15	2047	-3	68	-1	0	735
16:14:44	15	2050	3	68	0	0	738
16:14:59	15	2050	0	70	2	0	738
16:15:14	15	2050	0	69	-1	0	735
16:15:29	15	2050	0	70	1	0	735
16:15:44	15	2050	0	69	-1	0	738
16:15:59	15	2050	0	69	0	0	738
16:16:14	15	2050	0	70	1	0	738
16:16:29	15	2050	0	70	0	0	738