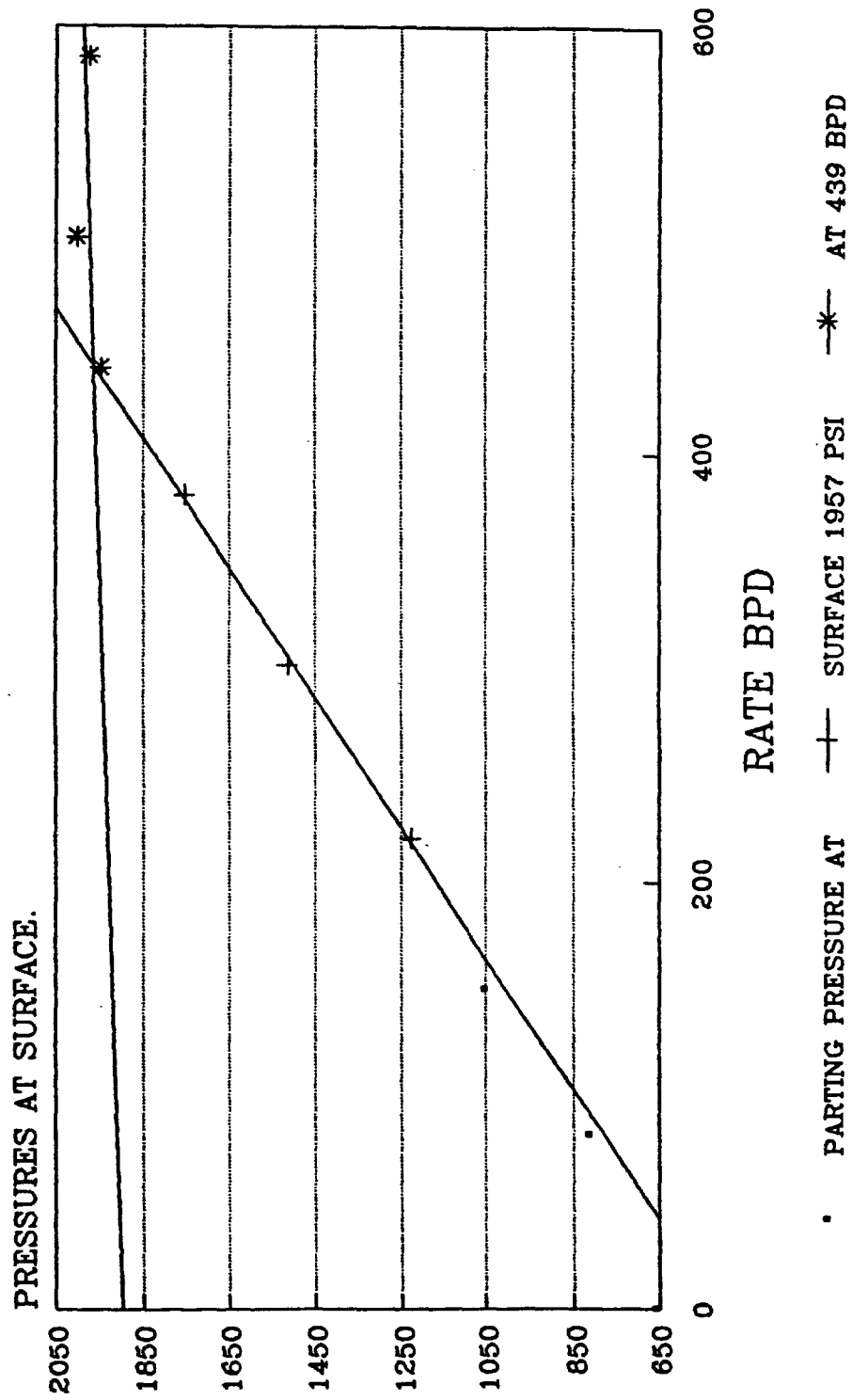


BEFORE EXAMINER CATANACH  
OIL CONSERVATION DIVISION  
*SOCORAC*  
PETROLEUM EXHIBIT NO. 3  
CASE NO. 9929

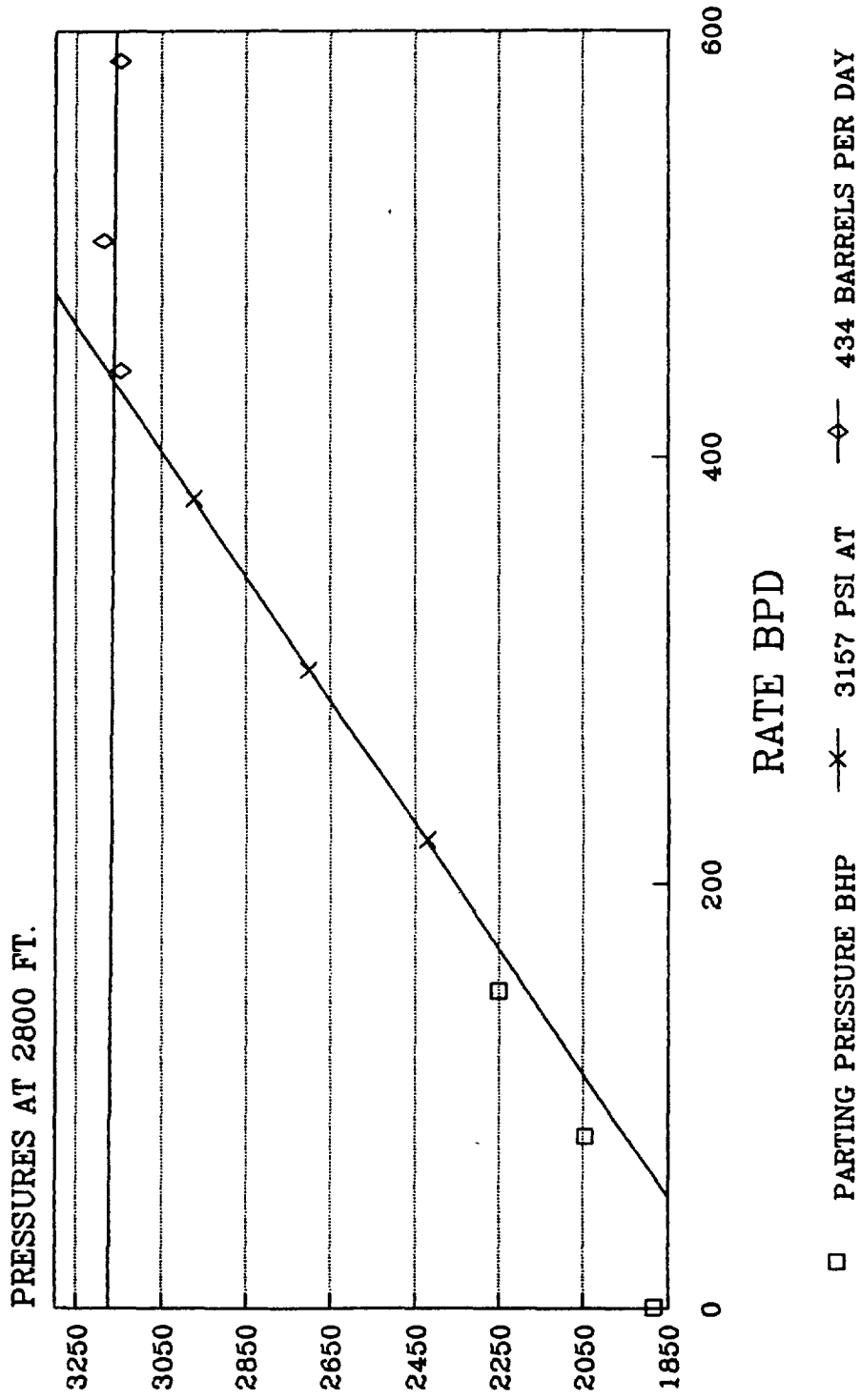
# SOCORRO: WEST "A" #8

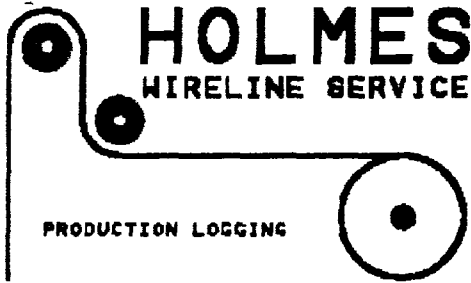
3-9-90



# SOCORRO: WEST "A" #8

3-9-90





# Digital Data Acquisition System

COMPANY.....:SOCORRO  
WELL NAME/#....:WEST "A" # 8  
FIELD.....:N/A  
COUNTY.....:EDDY STATE...:NEW MEXICO FILE NAME...:soca#8.log  
LOCATION.....:N/A  
BLOCK.....:N/A SECTION...:N/A  
PERM. DAT.....:GROUND LEVEL ELEV.....:N/A L.M.F.:GROUND LEVEL

.....  
DATE.....: 3/ 7/1990  
TYPE SURVEY...:STEP RATE TESTS  
DEPTH DRILLER.:N/A DEPTH LOGGER.:L.D. @ 2800'

WELL STATUS...:INJECTION  
HOLE FLUID....:WATER  
INJ. RATE.....:0 - 585 BPD  
PROD: OIL bpd.:  
MAX. REC. TEMP:-- WATER bpd...:- GAS mcf...:-

PRESS: TUBING.:659 - 2001 PSI CASING.....:0 PSI  
CASING SIZE...:5 1/2" DEPTH.....: W/ 4 " LINER  
TUBING SIZE...:2 3/8" DEPTH.....:APPROX. 2846'  
PACKER @.....:SAME TUBING TAIL:--  
TRUCK NO.....:T - 105 TOOL SIZE...:1 1/2" TOOL NO.:SIE PSI

RECORDED BY...:MONTY HOLMES  
WITNESSED BY...:WADE WHITE ,JOHN GOULD, O.C.D.  
ENGINEER.....:PERRY HUGHES, JOHN GOULD

.....  
PERFORATIONS...:N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A

HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE TEST WITH BOTTOM HOLE PRESSURES RECORDED AT 2800'.  
LOGGER INSTRUCTED NOT TO GO BELOW PACKER, TO AVOID POSSIBLE  
HANG UP , DUE TO CASING AND LINER CONFIGURATION, JUST BELOW PACKER.

RATE	SURF PSI	B.H PSI
0	659	1882
82	814	2043
150	1052	2248
220	1228	2421
300	1512	2700
380	1755	2971
440	1945	3147
500	2001	3186
585	1972	3147

5 MIN FALL-OFF	1907	3093	
10 "	"	1890	3075
15 "	"	1872	3059

NOTE: LAST STEP WITH DECREASING PRESSURES, INDICATES POSSIBLE TUBING  
LEAK, OR LINER/CASING BREAK DOWN, OR OTHER WELL BORE DAMAGE OCCURING.  
NO VISIBLE LEAKS FROM SURFACE CASING VALVES.

THANKS! END TESTS.

## HOLMES WIRELINE SERVICE, INC.

## Volume Data

\* (last record = total volume)

Date	Time	Volume
3/ 7/1990	14:15:16	2.6099373 bbl
3/ 7/1990	15:15:23	6.3269341 bbl
3/ 7/1990	16:15: 2	9.2329858 bbl
3/ 7/1990	17:14:50	12.3786014 bbl
3/ 7/1990	19:17:11	34.5952377 bbl
3/ 7/1990	20:13:59	19.5518663 bbl
3/ 7/1990	21:17:29	25.5590142 bbl
3/ 7/1990	21:39:49	0.0000000 bbl
99/99/ 99	99:99:99	110.2545768 bbl

Holmes Wireline Service, Inc.  
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)
13:23:00	0	5102	0	0	0	0	0
13:23:15	15	5102	0	0	0	0	0
13:23:30	15	5102	0	122	122	0	0
13:23:45	15	1625	-3477	73	-49	0	0
13:24:00	15	1864	239	73	0	0	0
13:24:15	15	1864	0	73	0	0	0
13:24:30	15	1864	0	72	-1	0	0
13:24:45	15	1864	0	72	0	0	0
13:25:00	15	1864	0	72	0	0	0
13:25:15	15	1864	0	72	0	0	0
13:25:30	15	1864	0	72	0	0	0
13:25:45	15	1864	0	72	0	0	0
13:26:00	15	1864	0	72	0	0	0
13:26:15	15	1866	2	72	0	0	0
13:26:30	15	1869	3	73	1	0	0
13:26:45	15	1871	2	73	0	0	0
13:27:00	15	1871	0	72	-1	0	650
13:27:15	15	1874	3	74	2	0	653
13:27:30	15	1874	0	71	-3	0	653
13:27:45	15	1876	2	72	1	0	653
13:28:00	15	1876	0	73	1	0	656
13:28:15	15	1876	0	72	-1	0	656
13:28:30	15	1876	0	73	1	0	656
13:28:45	15	1876	0	72	-1	0	656
13:29:00	15	1879	3	73	1	0	659
13:29:15	15	1879	0	72	-1	0	656
13:29:30	15	1879	0	72	0	0	659
13:29:45	15	1881	2	73	1	0	659
13:30:00	15	1881	0	73	0	0	659
13:30:15	15	1881	0	73	0	0	659
13:30:30	15	1881	0	72	-1	0	659
13:30:45	15	1881	0	73	1	0	659
13:31:00	15	1881	0	73	0	0	659
13:31:15	15	1884	3	72	-1	0	662
13:31:30	15	1896	12	73	1	160	659
13:31:45	15	1898	2	72	-1	133	676
13:32:00	15	1901	3	72	0	93	676
13:32:15	15	1903	2	72	0	93	679
13:32:30	15	1908	5	71	-1	90	682
13:32:45	15	1910	2	71	0	90	685
13:33:00	15	1910	0	72	1	90	685
13:33:15	15	1913	3	73	1	90	688
13:33:30	15	1915	2	72	-1	90	688
13:33:45	15	1918	3	73	1	88	691
13:34:46	61	1925	7	72	-1	90	694
13:35:46	60	1930	5	72	0	88	700
13:36:46	60	1935	5	72	0	88	706
13:37:46	60	1942	7	73	1	88	708
13:38:46	60	1945	3	73	0	85	711
13:39:46	60	1949	4	72	-1	85	714
13:40:46	60	1954	5	72	0	85	717
13:41:46	60	1959	5	73	1	85	723
13:42:46	60	1962	3	71	-2	85	726
13:43:46	60	1964	2	72	1	85	729
13:44:46	60	1967	3	72	0	85	735
13:45:46	60	1971	4	74	2	85	735

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:46:46	60	1974	3	74	0	85	735
13:47:46	60	1976	2	71	-3	85	738
13:48:46	60	1981	5	71	0	85	741
13:49:46	60	1984	3	71	0	85	741
13:50:46	60	1984	0	72	1	85	747
13:51:46	60	1989	5	72	0	82	750
13:52:46	60	1991	2	71	-1	85	750
13:53:46	60	1993	2	71	0	83	752
13:54:46	60	1998	5	72	1	82	752
13:55:46	60	2001	3	72	0	82	758
13:56:46	60	2003	2	73	1	82	761
13:57:46	60	2008	5	72	-1	82	764
13:58:46	60	2010	2	71	-1	82	767
13:59:46	60	2010	0	73	2	82	767
14: 0:46	60	2013	3	72	-1	82	770
14: 1:46	60	2015	2	71	-1	82	776
14: 2:46	60	2018	3	71	0	82	782
14: 3:46	60	2020	2	71	0	82	782
14: 4:46	60	2023	3	72	1	82	785
14: 5:46	60	2025	2	72	0	82	788
14: 6:46	60	2028	3	71	-1	82	785
14: 7:46	60	2030	2	71	0	82	791
14: 8:46	60	2032	2	71	0	82	793
14: 9:46	60	2032	0	72	1	82	796
14:10:46	60	2032	0	72	0	82	799
14:11:46	60	2037	5	72	0	82	799
14:12:46	60	2037	0	73	1	82	802
14:13:46	60	2040	3	72	-1	82	805
14:14:46	60	2042	2	72	0	82	808
14:15:47	61	2042	0	71	-1	80	811
14:16:47	60	2062	20	70	-1	80	817
14:17:47	60	2074	12	71	1	163	834
14:18:47	60	2081	7	71	0	165	846
14:19:47	60	2089	8	71	0	165	858
14:20:47	60	2091	2	70	-1	165	858
14:21:47	60	2098	7	72	2	155	867
14:22:47	60	2103	5	72	0	155	873
14:23:47	60	2111	8	72	0	155	881
14:24:47	60	2115	4	72	0	163	887
14:25:47	60	2118	3	71	-1	163	890
14:26:47	60	2123	5	73	2	150	896
14:27:47	60	2125	2	72	-1	144	899
14:28:47	60	2128	3	72	0	140	905
14:29:47	60	2133	5	70	-2	145	908
14:30:52	65	2133	0	70	0	153	914
14:31:52	60	2137	4	72	2	149	916
14:32:52	60	2140	3	71	-1	148	916
14:33:52	60	2145	5	71	0	148	925
14:34:52	60	2147	2	70	-1	146	928
14:35:52	60	2150	3	72	2	153	934
14:36:52	60	2155	5	71	-1	150	934
14:37:52	60	2157	2	70	-1	150	937
14:38:52	60	2159	2	71	1	150	940
14:39:52	60	2164	5	72	1	150	946
14:40:52	60	2167	3	72	0	150	946
14:41:52	60	2164	-3	71	-1	150	952



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:42:52	60	2172	8	71	0	148	952
14:43:52	60	2177	5	73	2	148	960
14:44:52	60	2177	0	72	-1	148	960
14:45:52	60	2179	2	72	0	148	963
14:46:52	60	2181	2	72	0	147	969
14:47:52	60	2186	5	71	-1	148	969
14:48:52	60	2189	3	72	1	160	975
14:49:52	60	2191	2	71	-1	158	981
14:50:52	60	2196	5	70	-1	155	984
14:51:52	60	2199	3	72	2	156	987
14:52:52	60	2199	0	72	0	155	993
14:53:52	60	2203	4	71	-1	155	993
14:54:52	60	2206	3	71	0	153	996
14:55:52	60	2208	2	72	1	153	999
14:56:52	60	2208	0	71	-1	153	999
14:57:52	60	2213	5	72	1	153	1001
14:58:52	60	2213	0	71	-1	153	1004
14:59:52	60	2216	3	71	0	153	1010
15: 0:52	60	2218	2	72	1	150	1010
15: 1:52	60	2218	0	72	0	149	1013
15: 2:52	60	2221	3	71	-1	148	1016
15: 3:52	60	2223	2	71	0	145	1016
15: 4:52	60	2225	2	72	1	143	1016
15: 5:52	60	2228	3	70	-2	152	1022
15: 6:52	60	2230	2	70	0	151	1028
15: 7:52	60	2233	3	72	2	150	1028
15: 8:52	60	2235	2	72	0	150	1031
15: 9:52	60	2235	0	73	1	150	1031
15:10:52	60	2238	3	70	-3	150	1034
15:11:52	60	2242	4	72	2	150	1037
15:12:52	60	2245	3	70	-2	155	1040
15:13:52	60	2247	2	71	1	155	1042
15:14:52	60	2247	0	71	0	155	1045
15:15:52	60	2260	13	72	1	155	1048
15:16:52	60	2274	14	71	-1	229	1063
15:17:52	60	2282	8	72	1	223	1075
15:18:52	60	2286	4	72	0	218	1081
15:19:52	60	2294	8	70	-2	220	1089
15:20:52	60	2304	10	71	1	233	1101
15:21:52	60	2304	0	72	1	223	1101
15:22:52	60	2311	7	72	0	225	1104
15:23:52	60	2311	0	70	-2	224	1113
15:24:52	60	2316	5	71	1	223	1116
15:25:52	60	2316	0	71	0	221	1116
15:26:52	60	2323	7	71	0	213	1122
15:27:52	60	2328	5	71	0	260	1125
15:28:52	60	2326	-2	72	1	213	1130
15:29:52	60	2326	0	70	-2	219	1130
15:30:52	60	2326	0	70	0	218	1127
15:31:52	60	2326	0	71	1	217	1130
15:32:52	60	2330	4	70	-1	213	1133
15:33:52	60	2333	3	70	0	226	1136
15:34:52	60	2335	2	71	1	226	1136
15:35:52	60	2335	0	72	1	223	1139
15:36:52	60	2340	5	70	-2	223	1139
15:37:52	60	2343	3	72	2	221	1145

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:38:52	60	2345	2	71	-1	226	1148
15:39:52	60	2345	0	71	0	226	1151
15:40:52	60	2347	2	71	0	226	1154
15:41:52	60	2350	3	72	1	223	1154
15:42:52	60	2352	2	71	-1	221	1151
15:43:52	60	2355	3	70	-1	221	1157
15:44:52	60	2355	0	70	0	221	1157
15:45:52	60	2360	5	71	1	221	1160
15:46:52	60	2362	2	72	1	221	1163
15:47:52	60	2365	3	72	0	228	1166
15:48:52	60	2365	0	71	-1	228	1168
15:49:52	60	2367	2	70	-1	226	1174
15:50:52	60	2372	5	70	0	226	1174
15:51:52	60	2372	0	71	1	221	1174
15:52:52	60	2374	2	72	1	221	1180
15:53:52	60	2374	0	71	-1	220	1180
15:54:52	60	2377	3	70	-1	221	1183
15:55:52	60	2379	2	72	2	221	1183
15:56:52	60	2379	0	70	-2	221	1186
15:57:52	60	2384	5	70	0	218	1186
15:58:52	60	2384	0	71	1	218	1189
15:59:52	60	2389	5	71	0	218	1192
16: 0:52	60	2391	2	70	-1	232	1195
16: 1:52	60	2391	0	71	1	238	1198
16: 2:52	60	2394	3	71	0	223	1198
16: 3:52	60	2396	2	72	1	223	1204
16: 4:52	60	2399	3	70	-2	223	1207
16: 5:52	60	2404	5	71	1	223	1207
16: 6:52	60	2404	0	71	0	222	1209
16: 7:52	60	2406	2	70	-1	221	1209
16: 8:52	60	2409	3	70	0	221	1212
16: 9:52	60	2411	2	71	1	221	1215
16:10:52	60	2413	2	70	-1	221	1215
16:11:52	60	2413	0	71	1	221	1218
16:12:52	60	2416	3	72	1	221	1218
16:13:52	60	2418	2	71	-1	221	1221
16:14:52	60	2421	3	71	0	220	1221
16:15:52	60	2433	12	72	1	218	1227
16:16:52	60	2443	10	69	-3	304	1242
16:17:52	60	2450	7	72	3	303	1253
16:18:52	60	2457	7	71	-1	280	1259
16:19:52	60	2462	5	71	0	296	1268
16:20:52	60	2470	8	71	0	311	1271
16:21:52	60	2472	2	69	-2	304	1277
16:22:52	60	2474	2	72	3	299	1280
16:23:52	60	2479	5	71	-1	294	1283
16:24:52	60	2482	3	71	0	287	1286
16:25:52	60	2487	5	69	-2	286	1291
16:26:52	60	2494	7	71	2	296	1294
16:27:52	60	2496	2	69	-2	306	1303
16:28:52	60	2501	5	69	0	286	1303
16:29:52	60	2504	3	70	1	304	1309
16:30:52	60	2509	5	71	1	306	1315
16:31:52	60	2528	19	70	-1	261	1318
16:32:52	60	2538	10	70	0	301	1338
16:33:52	60	2545	7	70	0	299	1350

Holmes Wireline Service, Inc.  
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)
16:34:52	60	2553	8	69	-1	297	1359
16:35:52	60	2560	7	70	1	296	1362
16:36:52	60	2567	7	70	0	306	1371
16:37:52	60	2572	5	70	0	306	1376
16:38:52	60	2577	5	70	0	304	1382
16:39:52	60	2579	2	71	1	304	1385
16:40:52	60	2584	5	69	-2	302	1388
16:41:52	60	2589	5	71	2	301	1394
16:42:52	60	2592	3	69	-2	301	1400
16:43:52	60	2594	2	70	1	299	1403
16:44:52	60	2599	5	69	-1	289	1403
16:45:52	60	2604	5	71	2	304	1409
16:46:52	60	2609	5	70	-1	301	1417
16:47:52	60	2611	2	69	-1	301	1420
16:48:52	60	2616	5	71	2	301	1423
16:49:52	60	2619	3	70	-1	299	1426
16:50:52	60	2623	4	70	0	299	1429
16:51:52	60	2628	5	71	1	296	1432
16:52:52	60	2628	0	70	-1	296	1438
16:53:52	60	2631	3	71	1	296	1441
16:54:52	60	2636	5	71	0	294	1444
16:55:52	60	2641	5	69	-2	294	1447
16:56:52	60	2643	2	69	0	299	1453
16:57:52	60	2645	2	70	1	296	1456
16:58:52	60	2648	3	69	-1	292	1453
16:59:52	60	2653	5	68	-1	285	1458
17: 0:52	60	2658	5	70	2	306	1464
17: 1:52	60	2663	5	69	-1	304	1467
17: 2:52	60	2665	2	70	1	302	1473
17: 3:52	60	2667	2	71	1	301	1476
17: 4:52	60	2672	5	68	-3	299	1479
17: 5:52	60	2675	3	69	1	301	1485
17: 6:52	60	2677	2	70	1	299	1488
17: 7:52	60	2682	5	70	0	296	1491
17: 8:52	60	2684	2	70	0	297	1494
17: 9:52	60	2687	3	69	-1	296	1497
17:10:52	60	2692	5	68	-1	296	1500
17:11:52	60	2694	2	71	3	294	1502
17:12:52	60	2697	3	70	-1	294	1502
17:13:52	60	2699	2	70	0	293	1508
17:14:52	60	2702	3	70	0	291	1511
17:15:52	60	2714	12	69	-1	291	1511
17:16:52	60	2733	19	71	2	380	1529
17:17:52	60	2741	8	68	-3	380	1546
17:18:52	60	2750	9	70	2	380	1555
17:19:52	60	2755	5	69	-1	380	1564
17:20:52	60	2763	8	68	-1	380	1570
17:21:52	60	2768	5	70	2	380	1573
17:22:52	60	2772	4	69	-1	380	1582
17:23:52	60	2777	5	70	1	380	1587
17:24:52	60	2780	3	70	0	366	1590
17:25:52	60	2787	7	67	-3	351	1596
17:26:52	60	2792	5	69	2	380	1602
17:27:52	60	2797	5	71	2	380	1608
17:28:52	60	2802	5	69	-2	380	1611
17:29:52	60	2804	2	69	0	380	1614

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
17:30:52	60	2809	5	69	0	380	1620
17:31:52	60	2816	7	70	1	366	1623
17:32:52	60	2819	3	68	-2	380	1628
17:33:52	60	2824	5	69	1	380	1634
17:34:52	60	2829	5	69	0	380	1637
17:35:52	60	2831	2	69	0	380	1643
17:36:52	60	2838	7	69	0	354	1643
17:37:52	60	2843	5	69	0	380	1652
17:38:52	60	2848	5	68	-1	380	1655
17:39:52	60	2853	5	69	1	380	1661
17:40:52	60	2853	0	69	0	380	1664
17:41:52	60	2858	5	70	1	380	1666
17:42:52	60	2860	2	69	-1	380	1669
17:43:52	60	2865	5	69	0	380	1675
17:44:52	60	2868	3	68	-1	380	1678
17:45:52	60	2870	2	67	-1	380	1681
17:46:52	60	2875	5	68	1	375	1681
17:47:52	60	2882	7	70	2	380	1687
17:48:52	60	2887	5	69	-1	410	1696
17:49:52	60	2887	0	70	1	407	1702
17:50:52	60	2890	3	70	0	375	1702
17:51:52	60	2892	2	68	-2	380	1702
17:52:52	60	2897	5	68	0	380	1705
17:53:52	60	2899	2	70	2	380	1710
17:54:52	60	2902	3	69	-1	380	1713
17:55:52	60	2907	5	69	0	380	1713
17:56:52	60	2912	5	70	1	380	1713
17:57:52	60	2914	2	68	-2	380	1710
17:58:52	60	2919	5	68	0	380	1708
17:59:52	60	2921	2	70	2	380	1705
18: 0:52	60	2926	5	68	-2	380	1708
18: 1:52	60	2926	0	70	2	380	1708
18: 2:52	60	2929	3	68	-2	380	1710
18: 3:52	60	2931	2	70	2	380	1710
18: 4:52	60	2936	5	69	-1	380	1713
18: 5:52	60	2938	2	67	-2	380	1716
18: 6:52	60	2941	3	69	2	380	1722
18: 7:52	60	2948	7	68	-1	380	1725
18: 8:52	60	2948	0	70	2	380	1728
18: 9:52	60	2953	5	70	0	380	1734
18:10:52	60	2956	3	69	-1	380	1737
18:11:52	60	2958	2	68	-1	380	1737
18:12:52	60	2963	5	68	0	380	1743
18:13:52	60	2965	2	69	1	380	1746
18:14:52	60	2968	3	69	0	380	1749
18:15:52	60	2978	10	68	-1	380	1751
18:16:52	60	2985	7	68	0	439	1766
18:17:52	60	2990	5	69	1	439	1772
18:18:52	60	2995	5	68	-1	439	1778
18:19:52	60	3000	5	67	-1	439	1781
18:20:52	60	3004	4	70	3	439	1787
18:21:52	60	3012	8	69	-1	421	1790
18:22:52	60	3017	5	67	-2	468	1798
18:23:52	60	3019	2	70	3	439	1801
18:24:52	60	3024	5	69	-1	468	1807
18:25:52	60	3029	5	70	1	439	1807

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
18:26:52	60	3031	2	69	-1	439	1816
18:27:52	60	3034	3	68	-1	439	1819
18:28:52	60	3036	2	70	2	439	1822
18:29:52	60	3039	3	68	-2	439	1825
18:30:52	60	3041	2	68	0	439	1828
18:31:52	60	3043	2	67	-1	439	1828
18:32:52	60	3048	5	68	1	436	1833
18:33:52	60	3053	5	67	-1	439	1836
18:34:52	60	3053	0	68	1	439	1842
18:35:52	60	3058	5	69	1	439	1842
18:36:52	60	3061	3	69	0	439	1848
18:37:52	60	3063	2	69	0	439	1848
18:38:52	60	3065	2	68	-1	439	1851
18:39:52	60	3070	5	69	1	433	1854
18:40:52	60	3073	3	69	0	439	1857
18:41:52	60	3075	2	67	-2	439	1860
18:42:52	60	3075	0	66	-1	439	1863
18:43:52	60	3080	5	68	2	439	1863
18:44:52	60	3080	0	68	0	439	1866
18:45:52	60	3083	3	67	-1	436	1872
18:46:52	60	3087	4	68	1	410	1872
18:47:52	60	3092	5	70	2	462	1877
18:48:52	60	3095	3	68	-2	439	1880
18:49:52	60	3097	2	69	1	439	1883
18:50:52	60	3100	3	67	-2	439	1886
18:51:52	60	3102	2	69	2	439	1886
18:52:52	60	3105	3	67	-2	439	1889
18:54:16	84	3107	2	68	1	439	1892
18:55:16	60	3107	0	68	0	439	1895
18:56:16	60	3109	2	68	0	439	1898
18:57:16	60	3112	3	69	1	439	1901
18:58:16	60	3114	2	67	-2	439	1904
18:59:16	60	3117	3	67	0	439	1907
19: 0:16	60	3117	0	69	2	410	1907
19: 1:16	60	3122	5	67	-2	410	1910
19: 2:16	60	3124	2	69	2	468	1913
19: 3:16	60	3126	2	68	-1	439	1916
19: 4:16	60	3129	3	68	0	439	1918
19: 5:16	60	3131	2	68	0	439	1921
19: 6:16	60	3131	0	69	1	439	1924
19: 7:16	60	3134	3	68	-1	439	1924
19: 8:16	60	3136	2	67	-1	439	1924
19: 9:16	60	3136	0	66	-1	439	1927
19:10:16	60	3139	3	66	0	439	1930
19:11:16	60	3136	-3	67	1	433	1933
19:12:16	60	3141	5	67	0	410	1933
19:13:16	60	3144	3	68	1	439	1936
19:14:16	60	3146	2	68	0	439	1939
19:15:16	60	3146	0	69	1	439	1939
19:16:16	60	3146	0	68	-1	439	1942
19:17:16	60	3148	2	67	-1	436	1945
19:18:16	60	3153	5	66	-1	477	1948
19:19:16	60	3156	3	67	1	536	1954
19:20:16	60	3158	2	67	0	527	1957
19:21:16	60	3161	3	67	0	527	1959
19:22:16	60	3163	2	66	-1	524	1965

Holmes Wireline Service, Inc.  
Well Test Data

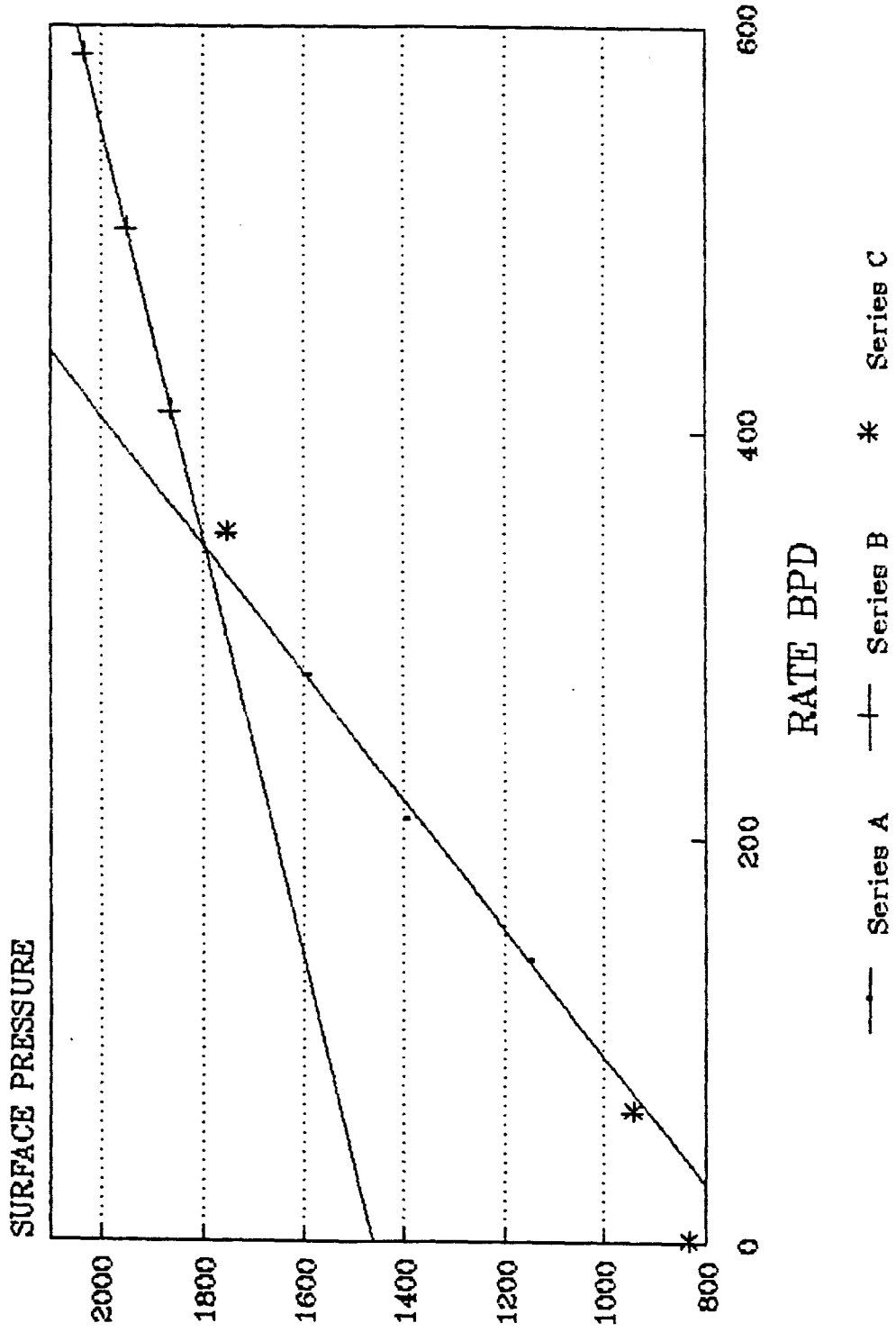
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
19:23:16	60	3166	3	68	2	498	1965
19:24:16	60	3168	2	68	0	498	1965
19:25:16	60	3168	0	69	1	498	1971
19:26:16	60	3170	2	68	-1	498	1971
19:27:16	60	3170	0	67	-1	498	1974
19:28:16	60	3170	0	67	0	498	1974
19:29:16	60	3168	-2	66	-1	498	1977
19:30:16	60	3166	-2	67	1	498	1971
19:31:16	60	3170	4	68	1	498	1971
19:32:16	60	3170	0	66	-2	498	1977
19:33:16	60	3173	3	67	1	498	1977
19:34:16	60	3173	0	65	-2	498	1977
19:35:16	60	3175	2	68	3	498	1983
19:36:16	60	3175	0	66	-2	468	1980
19:37:16	60	3175	0	68	2	498	1983
19:38:16	60	3178	3	66	-2	498	1986
19:39:16	60	3180	2	68	2	498	1986
19:40:16	60	3180	0	66	-2	495	1989
19:41:16	60	3178	-2	65	-1	495	1989
19:42:16	60	3183	5	68	3	498	1992
19:43:16	60	3183	0	66	-2	498	1992
19:44:16	60	3183	0	68	2	495	1992
19:45:16	60	3180	-3	66	-2	498	1992
19:46:16	60	3180	0	66	0	498	1992
19:47:16	60	3180	0	68	2	498	1989
19:48:16	60	3178	-2	66	-2	498	1992
19:49:16	60	3180	2	66	0	498	1992
19:50:16	60	3178	-2	67	1	498	1992
19:51:16	60	3178	0	68	1	498	1992
19:52:16	60	3180	2	67	-1	498	1992
19:53:16	60	3185	5	66	-1	498	1995
19:54:16	60	3185	0	66	0	486	1995
19:55:16	60	3185	0	67	1	468	1998
19:56:16	60	3185	0	66	-1	498	1998
19:57:16	60	3185	0	65	-1	498	1998
19:58:16	60	3183	-2	68	3	498	1998
19:59:16	60	3183	0	67	-1	498	1995
20: 0:16	60	3183	0	68	1	498	1998
20: 1:16	60	3183	0	66	-2	498	1998
20: 2:16	60	3183	0	68	2	524	1998
20: 3:16	60	3183	0	65	-3	524	1998
20: 4:16	60	3183	0	65	0	521	1998
20: 5:16	60	3183	0	67	2	527	1998
20: 6:16	60	3180	-3	66	-1	498	1995
20: 7:16	60	3183	3	66	0	498	1998
20: 8:16	60	3183	0	65	-1	468	1998
20: 9:16	60	3185	2	67	2	468	1998
20:10:16	60	3185	0	67	0	498	2000
20:11:16	60	3185	0	66	-1	468	2000
20:12:16	60	3185	0	68	2	468	1998
20:13:16	60	3185	0	67	-1	468	1998
20:14:17	61	3185	0	68	1	468	2000
20:15:17	60	3185	0	66	-2	498	2000
20:16:17	60	3188	3	67	1	585	2003
20:17:17	60	3188	0	68	1	585	2006
20:18:17	60	3185	-3	67	-1	585	2006

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
20:19:17	60	3188	3	66	-1	585	2003
20:20:17	60	3183	-5	66	0	585	2006
20:21:17	60	3185	2	65	-1	585	2006
20:22:17	60	3185	0	65	0	585	2006
20:23:17	60	3185	0	67	2	585	2006
20:24:17	60	3185	0	65	-2	585	2006
20:25:17	60	3188	3	65	0	583	2006
20:26:17	60	3188	0	67	2	585	2006
20:27:17	60	3190	2	66	-1	571	2009
20:28:17	60	3190	0	67	1	585	2006
20:29:17	60	3190	0	65	-2	556	2009
20:30:17	60	3192	2	65	0	556	2012
20:31:17	60	3192	0	67	2	585	2012
20:32:17	60	3195	3	65	-2	585	2009
20:33:17	60	3195	0	65	0	585	2012
20:34:17	60	3195	0	67	2	585	2012
20:35:17	60	3195	0	65	-2	556	2012
20:36:17	60	3195	0	66	1	585	2012
20:37:17	60	3195	0	66	0	556	2012
20:38:17	60	3192	-3	66	0	585	2012
20:39:17	60	3192	0	65	-1	574	2012
20:40:17	60	3192	0	66	1	585	2012
20:41:17	60	3190	-2	65	-1	585	2012
20:42:17	60	3188	-2	67	2	585	2009
20:43:17	60	3185	-3	66	-1	585	2006
20:44:17	60	3185	0	66	0	585	2006
20:45:17	60	3180	-5	66	0	585	2006
20:46:17	60	3180	0	65	-1	585	2000
20:47:17	60	3175	-5	66	1	615	1998
20:48:17	60	3173	-2	67	1	615	1995
20:49:17	60	3170	-3	65	-2	644	1995
20:50:17	60	3168	-2	63	-2	615	1992
20:51:17	60	3163	-5	64	1	585	1989
20:52:17	60	3163	0	64	0	615	1986
20:53:17	60	3161	-2	66	2	615	1986
20:54:17	60	3158	-3	65	-1	615	1983
20:55:17	60	3158	0	65	0	615	1986
20:56:17	60	3156	-2	65	0	615	1983
20:57:17	60	3156	0	65	0	644	1983
20:58:17	60	3156	0	66	1	615	1983
20:59:17	60	3153	-3	64	-2	615	1977
21: 0:17	60	3153	0	65	1	585	1977
21: 1:17	60	3153	0	64	-1	585	1974
21: 2:17	60	3151	-2	66	2	585	1974
21: 3:17	60	3151	0	66	0	585	1974
21: 4:17	60	3151	0	65	-1	585	1974
21: 5:17	60	3151	0	65	0	603	1974
21: 6:17	60	3151	0	65	0	594	1977
21: 7:17	60	3148	-3	64	-1	615	1974
21: 8:17	60	3151	3	65	1	615	1977
21: 9:17	60	3151	0	65	0	615	1974
21:10:35	78	3148	-3	65	0	615	1974
21:11:35	60	3148	0	64	-1	615	1974
21:12:35	60	3148	0	65	1	615	1971
21:13:35	60	3148	0	64	-1	615	1971
21:14:35	60	3148	0	64	0	615	1974

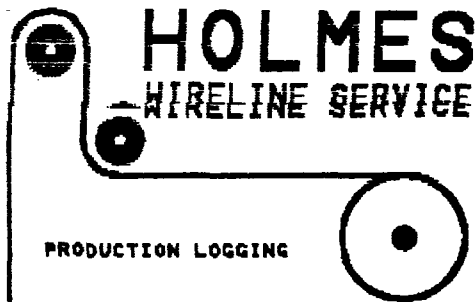
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
21:15:35	60	3146	-2	65	1	615	1971
21:16:35	60	3139	-7	66	1	615	1971
21:17:35	60	3129	-10	66	0	0	1957
21:18:35	60	3122	-7	67	1	0	1945
21:19:35	60	3117	-5	66	-1	0	1936
21:20:35	60	3112	-5	65	-1	0	1930
21:21:35	60	3107	-5	66	1	0	1924
21:22:35	60	3105	-2	66	0	0	1924
21:23:35	60	3100	-5	67	1	0	1918
21:24:35	60	3097	-3	68	1	0	1913
21:25:35	60	3092	-5	67	-1	0	1910
21:26:35	60	3087	-5	67	0	0	1907
21:27:35	60	3085	-2	67	0	0	1901
21:28:35	60	3085	0	67	0	0	1898
21:29:35	60	3080	-5	67	0	0	1895
21:30:35	60	3078	-2	67	0	0	1895
21:31:35	60	3073	-5	66	-1	0	1889
21:32:35	60	3070	-3	68	2	0	1886
21:33:35	60	3068	-2	66	-2	0	1880
21:34:35	60	3065	-3	69	3	0	1880
21:35:35	60	3063	-2	68	-1	0	1877
21:36:35	60	3061	-2	68	0	0	1875
21:37:35	60	3056	-5	68	0	0	1872
21:38:35	60	3053	-3	69	1	0	1866



# SOCORRO: WEST "A" # 9



HOLMES FRACTURE @ 345 BPD WITH 1600 PSI



# Digital Data Acquisition System

COMPANY.....:SOCORRO  
WELL NAME/#....:WEST "A" #9  
FIELD.....:N/A  
COUNTY.....:LEA STATE...:NEW MEXICO FILE NAME...:soc9.log  
LOCATION.....:N/A  
BLOCK.....:N/A SECTION.:N/A  
PERM. DAT.....:GROUND LEVEL ELEV.....:N/A L.M.F.:GROUND LEVEL

DATE.....: 2/23/1990  
TYPE SURVEY...:STEP RATE TEST  
DEPTH DRILLER.:N/A DEPTH LOGGER.:3' BELOW SURFACE  
WELL STATUS...:INJECTION  
HOLE FLUID....:WATER  
INJ. RATE.....:0 - 585 BPD  
PROD: OIL bpd.:  
MAX. REC. TEMP:-  
WATER bpd...:- GAS mcf...:-

PRESS: TUBING.:634 - 2033 PSI CASING.....:0 PSI  
CASING SIZE...:N/A DEPTH.....:N/A  
TUBING SIZE...:2 3/8" P.C. DEPTH.....:N/A  
PACKER @.....:N/A TUBING TAIL:N/A  
TRUCK NO.....:T- 106 TOOL SIZE...:1 1/2" TOOL NO.:SIE PSI

RECORDED BY...:MONTY HOLMES  
WITNESSED BY..:JOHN GOULD, WADE WIGHT, OCD  
ENGINEER.....:PERRY HUGHES, JOHN GOULD

PERFORATIONS...:N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A

HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE PRESSURES RECORDED FROM SURFACE .  
UNABLE TO GET THRU OBSTRUCTION IN TUBING, 3' BELOW SURFACE.

RATE	SURF PSI
0	834
65	941
140	1142
210	1391
280	1586
350	1752
410	1862
500	1947

585 PLANT GOES DOWN, NO WATER  
RE-ESTABLISH INJECTION.

500 RE-CONFIRM RATE AND PRESSURE AT 1945

585 2033

END TEST: 5 MIN. FALL-OFF 1947  
10 MIN. FALL-OFF 1913  
15 MIN. FALL-OFF 1882

THANKS.

HOLMES WIRELINE SERVICE, INC.  
Volume Data

\* (last record = total volume)

<u>Date</u>	<u>Time</u>	<u>Volume</u>	
2/23/1990	9:35:27	2.0500060	bb1
2/23/1990	10:30: 4	5.2665208	bb1
2/23/1990	11:33:31	9.3543030	bb1
2/23/1990	12:30: 5	11.0243817	bb1
2/23/1990	13:29:58	14.4548805	bb1
2/23/1990	14:30:10	17.2166612	bb1
2/23/1990	15:29:48	20.4718357	bb1
2/23/1990	16:30:12	13.0656603	bb1
2/23/1990	17:36:29	24.2625936	bb1
2/23/1990	17:45:31	0.0000000	bb1
99/99/ 99	99:99:99	117.1668428	bb1

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
8:53: 7	0	819	0	62	0	0	764
8:53:45	38	821	2	60	-2	0	764
8:54: 0	15	821	0	61	1	0	764
8:54:15	15	819	-2	61	0	0	764
8:54:30	15	819	0	62	1	0	764
8:54:45	15	821	2	58	-4	0	764
8:55: 0	15	821	0	60	2	0	764
8:55:15	15	821	0	57	-3	0	764
8:55:30	15	821	0	62	5	0	767
8:55:45	15	821	0	60	-2	0	767
8:56: 0	15	821	0	60	0	0	764
8:56:15	15	821	0	60	0	0	764
8:56:30	15	821	0	60	0	0	764
8:56:45	15	821	0	63	3	0	767
8:57: 0	15	821	0	62	-1	0	764
8:57:15	15	821	0	64	2	0	764
8:57:30	15	821	0	61	-3	0	764
8:57:45	15	821	0	62	1	0	764
8:58: 0	15	816	-5	62	0	0	764
8:58:15	15	833	17	60	-2	0	758
8:58:30	15	833	0	63	3	90	791
8:58:45	15	836	3	61	-2	75	779
8:59: 0	15	836	0	61	0	75	779
8:59:15	15	841	5	62	1	75	779
8:59:30	15	843	2	62	0	75	782
8:59:45	15	843	0	63	1	75	782
9: 0: 0	15	846	3	62	-1	75	785
9: 0:15	15	848	2	63	1	75	788
9: 0:30	15	848	0	62	-1	75	791
9: 0:45	15	851	3	60	-2	75	791
9: 1: 0	15	851	0	61	1	75	793
9: 1:15	15	855	4	62	1	75	791
9: 1:30	15	855	0	63	1	75	793
9: 1:45	15	855	0	59	-4	75	796
9: 2: 0	15	855	0	60	1	75	796
9: 2:15	15	858	3	60	0	75	799
9: 2:30	15	860	2	57	-3	75	799
9: 2:45	15	860	0	57	0	75	799
9: 3: 0	15	863	3	61	4	75	802
9: 3:15	15	865	2	59	-2	75	802
9: 3:30	15	865	0	59	0	75	805
9: 3:45	15	865	0	63	4	74	805
9: 4: 0	15	868	3	58	-5	75	808
9: 5: 1	61	873	5	65	7	75	808
9: 6: 1	60	877	4	61	-4	75	811
9: 7: 1	60	882	5	60	-1	74	814
9: 8: 1	60	885	3	62	2	75	817
9: 9: 1	60	890	5	61	-1	73	823
9:10: 1	60	892	2	61	0	72	823
9:11: 1	60	894	2	62	1	72	829
9:12: 1	60	899	5	61	-1	72	832
9:13: 1	60	902	3	63	2	72	834
9:14: 1	60	904	2	62	-1	72	837
9:15: 1	60	907	3	64	2	69	840
9:16: 1	60	909	2	61	-3	72	843
9:17: 1	60	912	3	64	3	67	843

Holmes Wireline Service, Inc.  
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)
9:18: 1	60	914	2	61	-3	70	849
9:19: 1	60	916	2	64	3	66	849
9:20: 1	60	919	3	63	-1	70	852
9:21: 1	60	921	2	61	-2	69	855
9:22: 1	60	921	0	61	0	69	858
9:23: 1	60	924	3	62	1	70	858
9:24: 1	60	929	5	63	1	67	861
9:25: 1	60	929	0	65	2	65	861
9:26: 1	60	931	2	64	-1	67	864
9:27: 1	60	934	3	65	1	68	867
9:28: 1	60	936	2	62	-3	67	867
9:29: 1	60	936	0	64	2	64	870
9:30: 1	60	938	2	62	-2	63	870
9:31: 1	60	941	3	63	1	63	873
9:32: 1	60	953	12	66	3	64	875
9:33: 1	60	960	7	67	1	145	884
9:34: 1	60	968	8	60	-7	140	893
9:35: 1	60	975	7	61	1	140	902
9:36: 1	60	980	5	65	4	140	908
9:37: 5	64	985	5	62	-3	140	914
9:38: 5	60	990	5	65	3	138	919
9:39: 5	60	995	5	64	-1	138	925
9:40: 5	60	999	4	64	0	138	928
9:41: 5	60	1002	3	67	3	138	934
9:42: 5	60	1007	5	67	0	138	940
9:43: 5	60	1009	2	63	-4	136	943
9:44: 5	60	1014	5	66	3	135	946
9:45: 5	60	1017	3	65	-1	135	949
9:46: 5	60	1021	4	66	1	135	955
9:47: 5	60	1021	0	63	-3	135	958
9:48: 5	60	1029	8	66	3	135	960
9:49: 5	60	1034	5	65	-1	148	966
9:50: 5	60	1036	2	68	3	145	972
9:51: 5	60	1043	7	67	-1	143	975
9:52: 5	60	1043	0	66	-1	143	978
9:53: 5	60	1046	3	67	1	140	984
9:54: 5	60	1051	5	63	-4	140	987
9:55: 5	60	1053	2	68	5	140	990
9:56: 5	60	1056	3	61	-7	138	993
9:57: 5	60	1058	2	68	7	138	996
9:58: 5	60	1063	5	65	-3	138	999
9:59: 5	60	1065	2	64	-1	138	1004
10: 0: 5	60	1068	3	66	2	138	1004
10: 1: 5	60	1073	5	67	1	138	1007
10: 2: 5	60	1073	0	66	-1	135	1010
10: 3: 5	60	1075	2	68	2	135	1013
10: 4: 5	60	1078	3	67	-1	135	1016
10: 5: 5	60	1078	0	67	0	135	1019
10: 6: 5	60	1083	5	67	0	135	1025
10: 7: 5	60	1085	2	67	0	145	1028
10: 8: 5	60	1087	2	66	-1	143	1031
10: 9: 5	60	1090	3	67	1	143	1034
10:10: 5	60	1092	2	68	1	140	1037
10:11: 5	60	1095	3	65	-3	142	1040
10:12: 5	60	1097	2	67	2	140	1042
10:13: 5	60	1100	3	66	-1	140	1045

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
10:14: 5	60	1105	5	68	2	139	1051
10:15: 5	60	1105	0	66	-2	138	1048
10:16: 5	60	1109	4	67	1	138	1054
10:17: 5	60	1112	3	67	0	140	1057
10:18: 5	60	1114	2	69	2	138	1060
10:19: 5	60	1119	5	69	0	138	1063
10:20: 5	60	1119	0	65	-4	138	1066
10:21: 5	60	1122	3	69	4	138	1063
10:22: 5	60	1124	2	68	-1	138	1069
10:23: 5	60	1126	2	68	0	138	1072
10:24: 5	60	1129	3	66	-2	137	1075
10:25: 5	60	1131	2	69	3	138	1078
10:26: 5	60	1134	3	68	-1	135	1081
10:27: 5	60	1134	0	64	-4	137	1081
10:28: 5	60	1139	5	66	2	136	1081
10:29: 5	60	1141	2	67	1	135	1086
10:30: 5	60	1144	3	67	0	133	1089
10:31: 5	60	1153	9	69	2	135	1092
10:32: 5	60	1163	10	67	-2	218	1101
10:33: 5	60	1170	7	71	4	206	1113
10:34: 5	60	1178	8	71	0	216	1119
10:35: 5	60	1183	5	68	-3	216	1125
10:36: 5	60	1190	7	72	4	213	1133
10:37: 5	60	1197	7	70	-2	208	1136
10:38: 5	60	1200	3	68	-2	216	1145
10:39: 5	60	1207	7	68	0	213	1151
10:40: 5	60	1212	5	67	-1	211	1157
10:41: 5	60	1214	2	70	3	211	1160
10:42: 5	60	1222	8	69	-1	211	1166
10:43: 5	60	1229	7	68	-1	216	1171
10:44: 5	60	1231	2	70	2	221	1177
10:45: 5	60	1236	5	70	0	214	1183
10:46: 5	60	1244	8	69	-1	213	1189
10:47: 5	60	1244	0	72	3	213	1189
10:48: 5	60	1249	5	70	-2	210	1198
10:49: 5	60	1251	2	68	-2	211	1198
10:50: 5	60	1256	5	69	1	208	1204
10:51: 5	60	1261	5	67	-2	213	1207
10:52: 5	60	1266	5	70	3	218	1212
10:53: 5	60	1268	2	66	-4	218	1218
10:54: 5	60	1273	5	68	2	218	1221
10:55: 5	60	1278	5	66	-2	218	1227
10:56: 5	60	1283	5	69	3	219	1230
10:57: 5	60	1288	5	71	2	218	1236
10:58: 5	60	1290	2	70	-1	218	1239
10:59: 5	60	1293	3	68	-2	218	1242
11: 0: 5	60	1297	4	69	1	218	1245
11: 1: 5	60	1300	3	70	1	218	1250
11: 2: 5	60	1305	5	73	3	212	1253
11: 3: 5	60	1310	5	68	-5	214	1253
11: 4: 5	60	1312	2	70	2	218	1262
11: 5: 5	60	1317	5	70	0	219	1265
11: 6: 5	60	1319	2	71	1	212	1268
11: 7: 5	60	1322	3	71	0	213	1271
11: 8: 5	60	1324	2	72	1	211	1277
11: 9: 5	60	1327	3	69	-3	212	1280

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:10: 5	60	1332	5	65	-4	211	1280
11:11: 5	60	1334	2	67	2	211	1286
11:12: 5	60	1336	2	68	1	211	1289
11:13: 5	60	1341	5	69	1	212	1291
11:14: 5	60	1344	3	71	2	213	1291
11:15: 5	60	1349	5	67	-4	211	1297
11:16: 5	60	1349	0	72	5	210	1300
11:17: 5	60	1351	2	67	-5	210	1303
11:18: 5	60	1356	5	69	2	211	1309
11:19: 5	60	1358	2	70	1	211	1309
11:20: 5	60	1361	3	70	0	211	1312
11:21: 5	60	1361	0	74	4	208	1315
11:22: 5	60	1366	5	71	-3	211	1321
11:23: 5	60	1368	2	72	1	208	1321
11:24: 5	60	1368	0	70	-2	209	1327
11:25: 5	60	1373	5	71	1	209	1327
11:26: 5	60	1376	3	72	1	209	1330
11:27: 5	60	1378	2	71	-1	208	1330
11:28: 5	60	1380	2	71	0	208	1335
11:29: 5	60	1385	5	69	-2	208	1335
11:30: 5	60	1385	0	71	2	211	1341
11:31: 5	60	1388	3	72	1	206	1341
11:32: 5	60	1390	2	71	-1	208	1344
11:33: 5	60	1390	0	71	0	208	1344
11:34: 5	60	1398	8	71	0	206	1347
11:35: 5	60	1407	9	73	2	296	1350
11:36: 5	60	1415	8	74	1	296	1368
11:37: 5	60	1422	7	72	-2	288	1374
11:38: 5	60	1427	5	74	2	284	1382
11:39: 5	60	1432	5	73	-1	284	1382
11:40: 5	60	1437	5	71	-2	275	1391
11:41: 5	60	1439	2	71	0	271	1394
11:42: 5	60	1446	7	73	2	284	1397
11:43: 5	60	1449	3	73	0	279	1403
11:44: 5	60	1451	2	72	-1	277	1406
11:45: 5	60	1459	8	73	1	274	1412
11:46: 5	60	1461	2	76	3	274	1417
11:47: 5	60	1463	2	76	0	274	1420
11:48: 5	60	1468	5	72	-4	273	1423
11:49: 5	60	1473	5	73	1	290	1426
11:50: 5	60	1478	5	75	2	289	1432
11:51: 5	60	1481	3	71	-4	283	1435
11:52: 5	60	1483	2	74	3	274	1444
11:53: 5	60	1485	2	73	-1	274	1444
11:54: 5	60	1490	5	76	3	274	1447
11:55: 5	60	1493	3	71	-5	273	1450
11:56: 5	60	1495	2	74	3	281	1456
11:57: 5	60	1500	5	77	3	279	1456
11:58: 5	60	1503	3	75	-2	279	1458
11:59: 5	60	1505	2	76	1	272	1464
12: 0: 5	60	1505	0	75	-1	268	1461
12: 1: 5	60	1510	5	73	-2	271	1467
12: 2: 5	60	1515	5	72	-1	288	1473
12: 3: 5	60	1517	2	75	3	284	1476
12: 4: 5	60	1520	3	73	-2	280	1479
12: 5: 5	60	1522	2	76	3	276	1482



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12: 6: 5	60	1525	3	73	-3	279	1485
12: 7: 5	60	1529	4	75	2	276	1488
12: 8: 5	60	1532	3	74	-1	276	1491
12: 9: 5	60	1532	0	76	2	279	1494
12:10: 5	60	1537	5	76	0	279	1497
12:11: 5	60	1539	2	75	-1	274	1500
12:12: 5	60	1542	3	75	0	274	1502
12:13: 5	60	1544	2	74	-1	269	1502
12:14: 5	60	1549	5	77	3	296	1508
12:15: 5	60	1554	5	75	-2	291	1511
12:16: 5	60	1554	0	76	1	294	1517
12:17: 5	60	1559	5	74	-2	291	1520
12:18: 5	60	1559	0	73	-1	291	1523
12:19: 5	60	1564	5	73	0	291	1523
12:20: 5	60	1564	0	78	5	291	1526
12:21: 5	60	1568	4	79	1	291	1529
12:22: 5	60	1571	3	74	-5	289	1532
12:23: 5	60	1573	2	78	4	286	1535
12:24: 5	60	1576	3	72	-6	284	1538
12:25: 5	60	1576	0	76	4	284	1541
12:26: 5	60	1578	2	80	4	284	1543
12:27: 5	60	1581	3	78	-2	283	1543
12:28: 5	60	1581	0	77	-1	282	1546
12:29: 5	60	1583	2	78	1	281	1546
12:30: 5	60	1586	3	77	-1	281	1549
12:31: 5	60	1593	7	75	-2	281	1552
12:32: 5	60	1595	2	74	-1	474	1558
12:33: 5	60	1605	10	77	3	304	1561
12:34: 5	60	1610	5	82	5	354	1573
12:35: 5	60	1615	5	80	-2	351	1579
12:36: 5	60	1617	2	79	-1	351	1582
12:37: 5	60	1622	5	81	2	339	1584
12:38: 5	60	1627	5	80	-1	322	1590
12:39: 5	60	1630	3	82	2	322	1593
12:40: 5	60	1632	2	83	1	351	1599
12:41: 5	60	1637	5	79	-4	351	1602
12:42: 5	60	1639	2	73	-6	351	1605
12:43: 5	60	1644	5	82	9	333	1608
12:44: 5	60	1649	5	75	-7	322	1611
12:45: 5	60	1654	5	79	4	351	1617
12:46: 5	60	1659	5	81	2	351	1620
12:47: 5	60	1661	2	78	-3	351	1625
12:48: 5	60	1664	3	79	1	351	1628
12:49: 5	60	1666	2	82	3	351	1631
12:50: 5	60	1669	3	81	-1	351	1637
12:51: 5	60	1673	4	80	-1	322	1637
12:52: 5	60	1673	0	81	1	351	1643
12:53: 5	60	1678	5	80	-1	351	1643
12:54: 5	60	1678	0	83	3	351	1646
12:55: 5	60	1681	3	79	-4	351	1649
12:56: 5	60	1686	5	80	1	351	1652
12:57: 5	60	1686	0	81	1	351	1655
12:58: 5	60	1691	5	77	-4	351	1655
12:59: 5	60	1693	2	79	2	351	1658
13: 0: 5	60	1695	2	80	1	342	1661
13: 1: 5	60	1695	0	81	1	351	1664

Holmes Wireline Service, Inc.  
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Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13: 2: 5	60	1698	3	78	-3	351	1664
13: 3: 5	60	1703	5	81	3	351	1666
13: 4: 5	60	1703	0	82	1	351	1669
13: 5: 5	60	1705	2	84	2	351	1672
13: 6: 5	60	1708	3	81	-3	351	1675
13: 7: 5	60	1710	2	84	3	351	1675
13: 8: 5	60	1713	3	83	-1	351	1678
13: 9: 5	60	1715	2	76	-7	328	1678
13:10: 5	60	1720	5	83	7	380	1687
13:11: 5	60	1720	0	81	-2	351	1690
13:12: 5	60	1722	2	80	-1	351	1690
13:13: 5	60	1725	3	82	2	351	1690
13:14: 5	60	1727	2	81	-1	351	1693
13:15: 5	60	1730	3	81	0	351	1699
13:16: 5	60	1732	2	79	-2	351	1699
13:17: 5	60	1732	0	80	1	351	1699
13:18: 5	60	1732	0	83	3	351	1702
13:19: 5	60	1737	5	78	-5	351	1705
13:20: 5	60	1739	2	80	2	351	1708
13:21: 5	60	1739	0	82	2	351	1710
13:22: 5	60	1742	3	80	-2	351	1710
13:23: 5	60	1742	0	85	5	351	1710
13:24: 5	60	1744	2	81	-4	351	1713
13:25: 5	60	1747	3	82	1	351	1716
13:26: 5	60	1747	0	80	-2	351	1716
13:27: 5	60	1749	2	82	2	351	1716
13:28: 5	60	1752	3	83	1	351	1719
13:29: 5	60	1749	-3	82	-1	331	1719
13:30: 5	60	1754	5	85	3	322	1719
13:31: 5	60	1764	10	79	-6	331	1725
13:32: 5	60	1766	2	83	4	439	1737
13:33: 5	60	1771	5	83	0	439	1737
13:34: 5	60	1778	7	81	-2	439	1743
13:35: 5	60	1778	0	83	2	439	1749
13:36: 5	60	1783	5	79	-4	410	1749
13:37: 5	60	1786	3	84	5	424	1754
13:38: 5	60	1788	2	81	-3	413	1760
13:39: 5	60	1788	0	79	-2	410	1760
13:40: 5	60	1791	3	83	4	410	1760
13:41: 5	60	1793	2	82	-1	410	1763
13:42: 5	60	1798	5	83	1	410	1766
13:43: 5	60	1798	0	84	1	410	1769
13:44: 5	60	1803	5	84	0	410	1769
13:45: 5	60	1803	0	84	0	410	1772
13:46: 5	60	1803	0	84	0	410	1778
13:47: 5	60	1805	2	81	-3	410	1778
13:48: 5	60	1808	3	83	2	410	1778
13:49: 5	60	1808	0	83	0	410	1781
13:50: 5	60	1810	2	83	0	410	1781
13:51: 5	60	1813	3	87	4	410	1784
13:52: 5	60	1813	0	85	-2	410	1784
13:53: 5	60	1815	2	85	0	410	1784
13:54: 5	60	1818	3	84	-1	410	1784
13:55: 5	60	1818	0	81	-3	410	1787
13:56: 5	60	1820	2	84	3	410	1792
13:57: 5	60	1822	2	83	-1	410	1792

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:58: 5	60	1822	0	86	3	410	1795
13:59: 5	60	1822	0	83	-3	410	1790
14: 0: 5	60	1825	3	83	0	410	1792
14: 1: 5	60	1825	0	85	2	410	1798
14: 2: 5	60	1827	2	82	-3	410	1798
14: 3: 5	60	1830	3	87	5	410	1798
14: 4: 5	60	1827	-3	80	-7	410	1801
14: 5: 5	60	1827	0	82	2	410	1801
14: 6: 5	60	1832	5	85	3	410	1801
14: 7: 5	60	1835	3	87	2	410	1804
14: 8: 5	60	1835	0	87	0	410	1807
14: 9: 5	60	1837	2	90	3	410	1807
14:10: 5	60	1837	0	86	-4	410	1810
14:11: 5	60	1837	0	85	-1	410	1810
14:12: 5	60	1840	3	85	0	410	1813
14:13: 5	60	1840	0	88	3	410	1813
14:14: 5	60	1840	0	87	-1	410	1810
14:15: 5	60	1842	2	85	-2	410	1813
14:16: 5	60	1844	2	89	4	410	1816
14:17: 5	60	1847	3	84	-5	410	1819
14:18: 5	60	1849	2	89	5	410	1822
14:19: 5	60	1849	0	86	-3	410	1822
14:20: 5	60	1852	3	85	-1	410	1825
14:21: 5	60	1852	0	85	0	410	1828
14:22: 5	60	1854	2	88	3	410	1829
14:23: 5	60	1854	0	87	-1	410	1828
14:24: 5	60	1854	0	90	3	410	1831
14:25: 5	60	1857	3	84	-6	410	1831
14:26: 5	60	1857	0	85	1	410	1833
14:27: 5	60	1857	0	88	3	410	1833
14:28: 5	60	1859	2	89	1	410	1833
14:29: 5	60	1862	3	86	-3	410	1836
14:30: 5	60	1862	0	86	0	410	1836
14:31: 5	60	1869	7	87	1	410	1839
14:32: 5	60	1874	5	84	-3	498	1845
14:33: 5	60	1876	2	87	3	498	1848
14:34: 5	60	1876	0	88	1	498	1851
14:35: 5	60	1879	3	86	-2	498	1854
14:36: 5	60	1884	5	87	1	498	1857
14:37: 5	60	1884	0	87	0	492	1860
14:38: 5	60	1886	2	90	3	498	1863
14:39: 5	60	1888	2	85	-5	474	1863
14:40: 5	60	1891	3	86	1	468	1866
14:41: 5	60	1893	2	87	1	498	1866
14:42: 5	60	1896	3	85	-2	498	1869
14:43: 5	60	1896	0	91	6	498	1872
14:44: 5	60	1898	2	86	-5	498	1872
14:45: 5	60	1901	3	88	2	498	1877
14:46: 5	60	1901	0	85	-3	498	1877
14:47: 5	60	1903	2	87	2	498	1877
14:48: 5	60	1903	0	86	-1	498	1880
14:49: 5	60	1905	2	87	1	498	1883
14:50: 5	60	1905	0	89	2	498	1880
14:51: 5	60	1908	3	85	-4	483	1883
14:52: 5	60	1910	2	88	3	474	1883
14:53: 5	60	1910	0	87	-1	498	1886

Holmes Wireline Service, Inc.  
Well Test Data

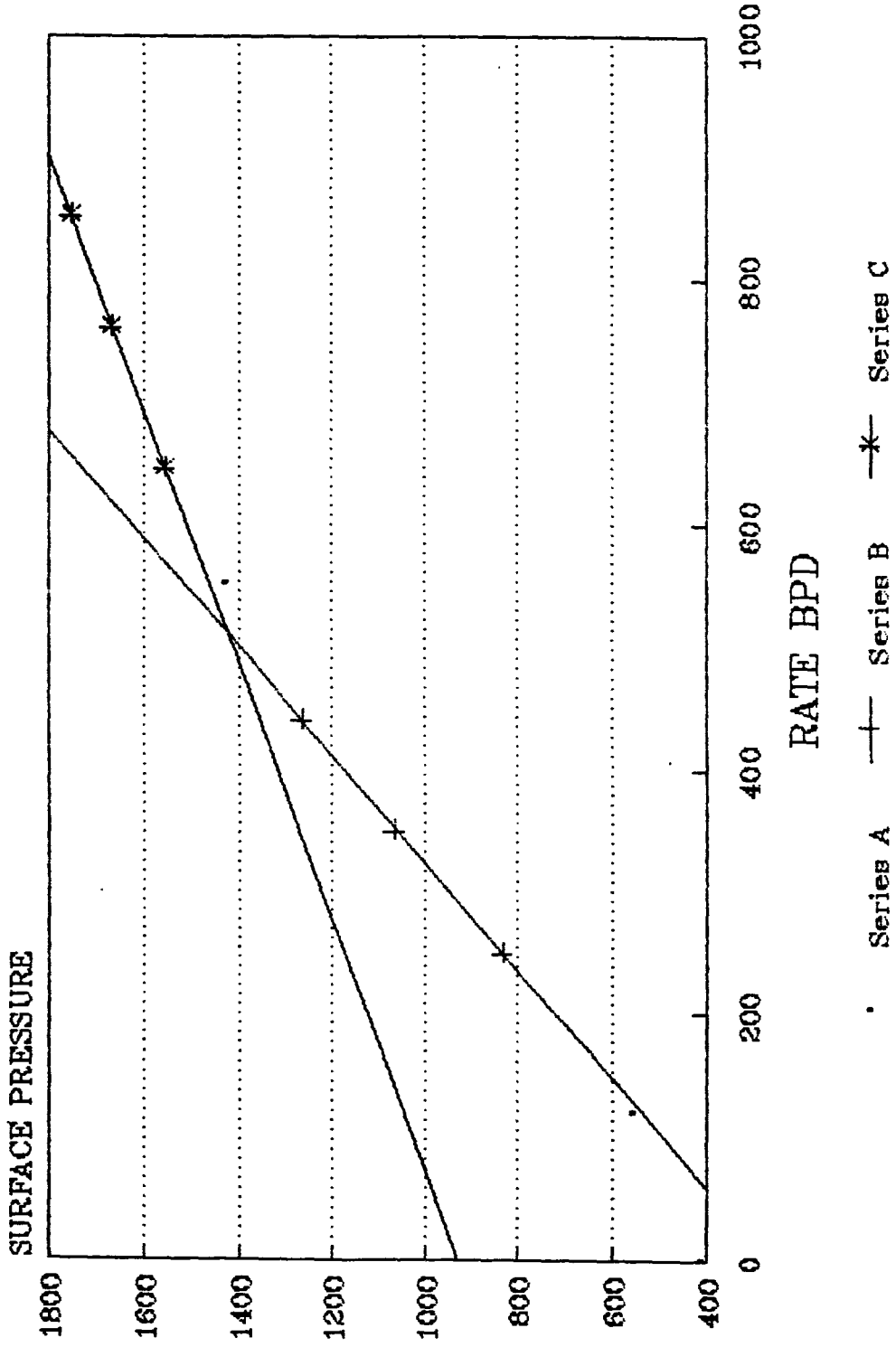
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:54: 5	60	1910	0	89	2	498	1889
14:55: 5	60	1913	3	89	0	498	1889
14:56: 5	60	1915	2	87	-2	498	1889
14:57: 5	60	1915	0	85	-2	498	1892
14:58: 5	60	1915	0	89	4	498	1895
14:59: 5	60	1918	3	84	-5	498	1892
15: 0: 5	60	1918	0	89	5	498	1895
15: 1: 5	60	1920	2	88	-1	498	1898
15: 2: 5	60	1923	3	89	1	498	1898
15: 3: 5	60	1925	2	90	1	498	1901
15: 4: 5	60	1925	0	90	0	498	1904
15: 5: 5	60	1925	0	90	0	498	1904
15: 6: 5	60	1925	0	91	1	498	1904
15: 7: 5	60	1927	2	90	-1	498	1904
15: 8: 5	60	1930	3	92	2	498	1907
15: 9: 5	60	1930	0	88	-4	498	1910
15:10: 5	60	1930	0	91	3	498	1913
15:11: 5	60	1930	0	92	1	498	1910
15:12: 5	60	1932	2	90	-2	498	1910
15:13: 5	60	1932	0	92	2	498	1913
15:14: 5	60	1932	0	90	-2	498	1913
15:15: 5	60	1932	0	86	-4	495	1913
15:16: 5	60	1935	3	89	3	468	1913
15:17: 5	60	1935	0	88	-1	468	1913
15:18: 5	60	1937	2	89	1	468	1916
15:19: 5	60	1937	0	87	-2	498	1918
15:20: 5	60	1937	0	88	1	498	1918
15:21: 5	60	1940	3	90	2	498	1921
15:22: 5	60	1940	0	88	-2	498	1918
15:23: 5	60	1942	2	92	4	498	1921
15:24: 5	60	1942	0	87	-5	498	1924
15:25: 5	60	1942	0	86	-1	498	1924
15:26: 5	60	1942	0	89	3	492	1924
15:27: 5	60	1942	0	90	1	468	1924
15:28: 5	60	1945	3	89	-1	486	1924
15:29: 5	60	1947	2	90	1	498	1930
15:30: 5	60	1949	2	85	-5	498	1930
15:31: 5	60	1954	5	88	3	498	1930
15:32: 5	60	1957	3	87	-1	585	1936
15:33: 5	60	1959	2	87	0	585	1939
15:34: 5	60	1962	3	91	4	585	1942
15:35: 5	60	1964	2	92	1	585	1945
15:36: 5	60	1964	0	89	-3	585	1948
15:37: 5	60	1947	-17	87	-2	585	1948
15:38: 5	60	1923	-24	91	4	0	1930
15:39: 5	60	1908	-15	92	1	0	1904
15:40: 5	60	1893	-15	88	-4	0	1889
15:41: 5	60	1884	-9	86	-2	0	1877
15:42: 5	60	1871	-13	86	0	0	1866
15:43: 5	60	1864	-7	85	-1	0	1857
15:44: 5	60	1854	-10	89	4	0	1845
15:45: 5	60	1847	-7	85	-4	0	1839
15:46: 5	60	1840	-7	88	3	0	1828
15:47: 5	60	1832	-8	85	-3	0	1819
15:48: 5	60	1822	-10	85	0	0	1816
15:49: 5	60	1818	-4	83	-2	0	1807

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:50: 5	60	1810	-8	90	7	0	1798
15:51: 5	60	1803	-7	84	-6	0	1795
15:52: 5	60	1798	-5	84	0	0	1790
15:53: 5	60	1793	-5	81	-3	0	1781
15:54: 5	60	1786	-7	84	3	0	1775
15:55: 5	60	1781	-5	87	3	0	1769
15:56: 5	60	1776	-5	86	-1	0	1763
15:57: 5	60	1769	-7	83	-3	0	1757
15:58: 5	60	1766	-3	81	-2	0	1754
15:59: 5	60	1759	-7	83	2	0	1749
16: 0: 5	60	1757	-2	83	0	0	1743
16: 1: 5	60	1752	-5	79	-4	0	1740
16: 2: 5	60	1747	-5	82	3	0	1734
16: 3: 5	60	1744	-3	80	-2	0	1731
16: 4: 5	60	1739	-5	83	3	0	1728
16: 5: 5	60	1744	5	83	0	0	1722
16: 6: 5	60	1803	59	84	1	175	1728
16: 7: 5	60	1830	27	78	-6	791	1787
16: 8: 5	60	1847	17	82	4	761	1813
16: 9: 5	60	1849	2	85	3	732	1833
16:10: 5	60	1859	10	82	-3	585	1836
16:11: 5	60	1866	7	79	-3	585	1842
16:12: 5	60	1876	10	83	4	556	1854
16:13: 5	60	1884	8	78	-5	585	1863
16:14: 5	60	1888	4	81	3	585	1869
16:15: 5	60	1896	8	83	2	585	1872
16:16: 5	60	1898	2	83	0	559	1880
16:17: 5	60	1905	7	83	0	556	1886
16:18: 5	60	1913	8	83	0	585	1892
16:19: 5	60	1918	5	81	-2	585	1898
16:20: 5	60	1920	2	80	-1	585	1901
16:21: 5	60	1925	5	81	1	556	1907
16:22: 5	60	1930	5	81	0	585	1913
16:23: 5	60	1935	5	83	2	585	1916
16:24: 5	60	1937	2	78	-5	585	1921
16:25: 5	60	1942	5	81	3	585	1924
16:26: 5	60	1945	3	82	1	585	1927
16:27: 5	60	1942	-3	79	-3	585	1930
16:28: 5	60	1942	0	80	1	498	1930
16:29: 5	60	1942	0	78	-2	498	1930
16:30: 5	60	1945	3	82	4	498	1930
16:31: 5	60	1952	7	81	-1	498	1933
16:32: 5	60	1954	2	80	-1	556	1936
16:33: 5	60	1959	5	79	-1	585	1942
16:34: 5	60	1959	0	80	1	585	1945
16:35: 5	60	1964	5	78	-2	585	1948
16:36: 5	60	1964	0	78	0	585	1951
16:37: 5	60	1967	3	81	3	556	1954
16:38: 5	60	1969	2	81	0	585	1957
16:39: 5	60	1971	2	80	-1	585	1959
16:40:23	78	1974	3	80	0	556	1959
16:41:23	60	1976	2	80	0	585	1962
16:42:23	60	1976	0	79	-1	585	1965
16:43:23	60	1979	3	77	-2	585	1968
16:44:23	60	1981	2	80	3	562	1968
16:45:23	60	1984	3	79	-1	559	1971

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
16:46:23	60	1984	0	79	0	585	1974
16:47:23	60	1986	2	78	-1	585	1977
16:48:23	60	1986	0	77	-1	585	1977
16:49:23	60	1989	3	82	5	585	1977
16:50:23	60	1991	2	82	0	585	1980
16:51:23	60	1991	0	80	-2	585	1980
16:52:23	60	1993	2	83	3	585	1980
16:53:23	60	1993	0	82	-1	585	1983
16:54:23	60	1996	3	81	-1	585	1983
16:55:23	60	1996	0	79	-2	585	1986
16:56:23	60	1998	2	80	1	585	1989
16:57:23	60	2001	3	82	2	585	1989
16:58:23	60	2001	0	81	-1	585	1989
16:59:23	60	2003	2	76	-5	585	1989
17: 0:23	60	2003	0	80	4	585	1992
17: 1:23	60	2003	0	81	1	585	1995
17: 2:23	60	2006	3	79	-2	585	1995
17: 3:23	60	2008	2	84	5	585	1995
17: 4:23	60	2008	0	81	-3	585	2000
17: 5:23	60	2010	2	80	-1	585	1998
17: 6:23	60	2013	3	81	1	585	2000
17: 7:23	60	2010	-3	82	1	585	2000
17: 8:23	60	2013	3	83	1	585	2003
17: 9:23	60	2013	0	82	-1	585	2000
17:10:23	60	2015	2	82	0	585	2006
17:11:23	60	2015	0	82	0	585	2006
17:12:23	60	2015	0	84	2	585	2006
17:13:23	60	2015	0	82	-2	585	2006
17:14:23	60	2018	3	83	1	585	2009
17:15:23	60	2018	0	83	0	585	2006
17:16:23	60	2020	2	80	-3	568	2009
17:17:23	60	2020	0	82	2	574	2009
17:18:23	60	2023	3	81	-1	556	2009
17:19:23	60	2023	0	86	5	585	2015
17:20:23	60	2023	0	86	0	585	2015
17:21:23	60	2023	0	82	-4	585	2015
17:22:23	60	2025	2	84	2	585	2015
17:23:23	60	2025	0	83	-1	585	2015
17:24:23	60	2028	3	82	-1	574	2018
17:25:23	60	2028	0	83	1	585	2018
17:26:23	60	2030	2	82	-1	585	2018
17:27:23	60	2030	0	84	2	585	2021
17:28:23	60	2032	2	83	-1	585	2021
17:29:23	60	2032	0	85	2	585	2024
17:30:23	60	2032	0	85	0	585	2021
17:31:23	60	1998	-34	84	-1	585	2021
17:32:23	60	1981	-17	79	-5	0	1989
17:33:23	60	1971	-10	81	2	0	1974
17:34:23	60	1962	-9	85	4	0	1959
17:35:23	60	1949	-13	83	-2	0	1951
17:36:23	60	1945	-4	81	-2	0	1939
17:37:23	60	1932	-13	84	3	0	1933
17:38:23	60	1925	-7	83	-1	0	1924
17:39:23	60	1918	-7	84	1	0	1916
17:40:23	60	1910	-8	84	0	0	1907
17:41:23	60	1905	-5	83	-1	0	1901

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
17:42:23	60	1898	-7	88	5	0	1895
17:43:23	60	1891	-7	80	-8	0	1889
17:44:23	60	1886	-5	82	2	0	1883

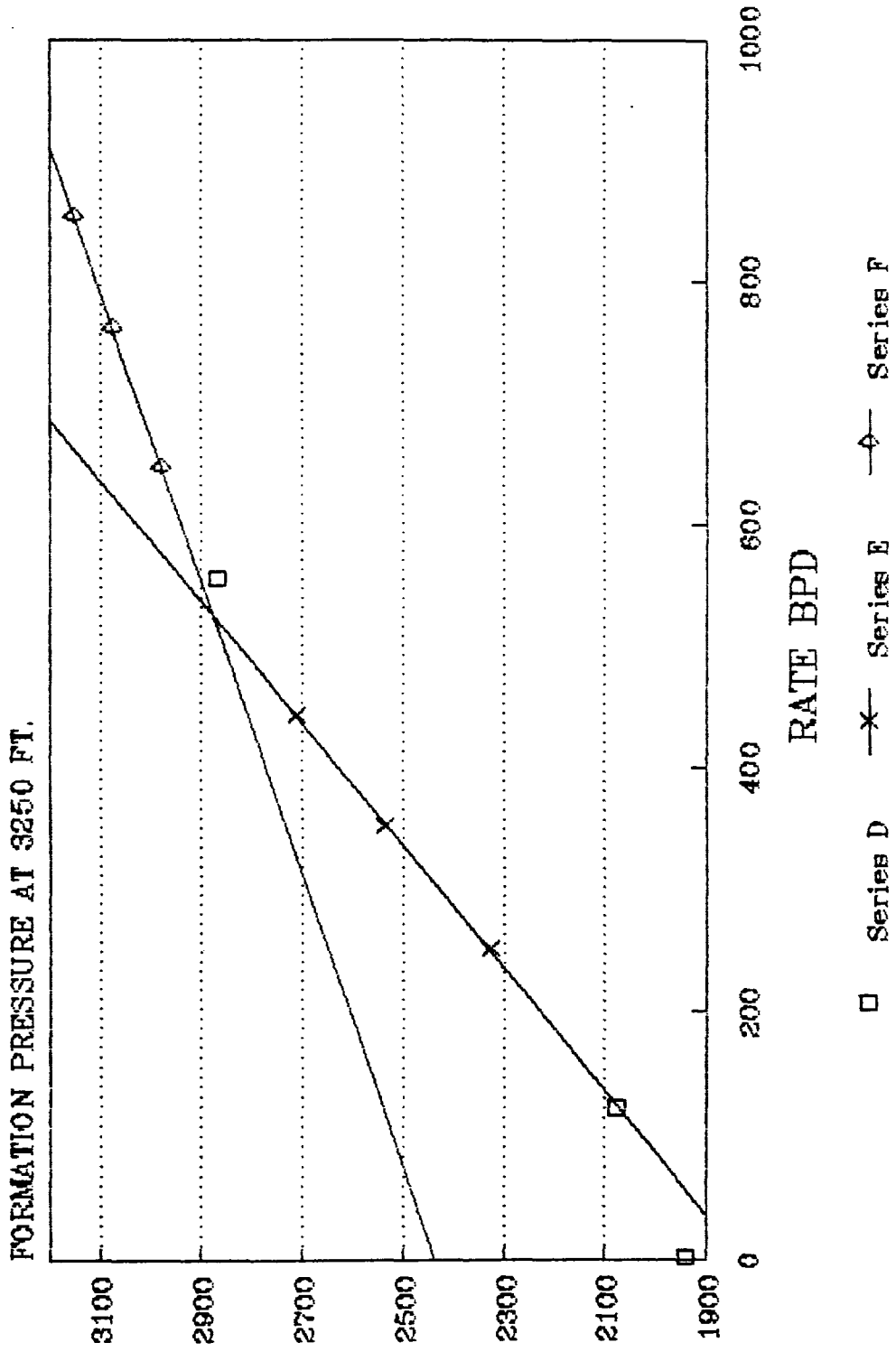
# SOCORRO: WEST "B" # 12



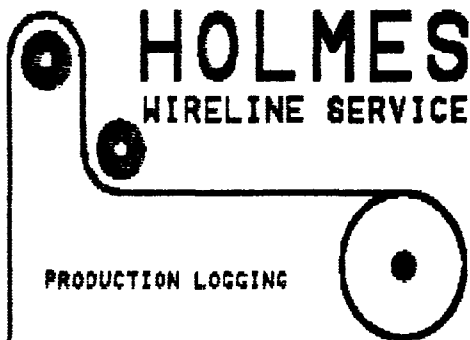
HOLMES FRACTURE WITH 512 BPD @ 1422 PSI



# SOCORRO: WEST "B" # 12



HOLMES FRACTURE WITH 520 BPD @ 2863 PSI



# Digital Data Acquisition System

COMPANY.....:SOCORRO  
WELL NAME/#....:WEST "B" # 12  
FIELD.....:N/A  
COUNTY.....:N/A STATE...:NEW MEXICO FILE NAME...:soc12.1o  
9  
LOCATION.....:N/A  
BLOCK.....:N/A SECTION.:N/A  
PERM. DAT.....:GROUND LEVEL ELEV....:N/A L.M.F.:GROUND LEVEL

.....  
DATE.....: 2/26/1990  
TYPE SURVEY...:STEP RATE TEST  
DEPTH DRILLER.:N/A DEPTH LOGGER.:3250'

WELL STATUS...:INJECTION  
HOLE FLUID....:WATER  
INJ. RATE.....:0 - 850 BPD  
PROD: OIL bpd.:- WATER bpd...:- GAS mcf...:-  
MAX. REC. TEMP:-

PRESS: TUBING.:410 - 1752 PSI CASING.....:0 PSI  
CASING SIZE...:N/A DEPTH.....:N/A  
TUBING SIZE...:2 3/8"P.C. DEPTH.....:3210'  
PACKER @.....:SAME TUBING TAIL:-

TRUCK NO.....:T - 106 TOOL SIZE...:1 1/2" TOOL NO.:SIE PSI

RECORDED BY...:MONTY HOLMES

WITNESSED BY...:WADE WIGHT, OCD

ENGINEER.....:PERRY HUGHES, JOHN GOULD

.....  
PERFORATIONS...:N/A  
: TOP PERF: 3260'  
: N/A  
: N/A  
: N/A

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

HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE TESTS WITH FORMATION PRESSURES RECORDED AT 3250'.

RATE	SURF.PSI	B.H.PSI
0	410	1938
120	557	2074
250	829	2326
350	1066	2534
440	1260	2707
550	1430	2866
644	1553	2978
760	1667	3073
850	1752	3151
5 MIN. FALL-OFF	1629	3049
10 MIN.	1588	3007
15 MIN.	1525	2944

END TEST. THANKS.

HOLMES WIRELINE SERVICE, INC.  
Volume Data

\* (last record = total volume)

<u>Date</u>	<u>Time</u>	<u>Volume</u>	
2/26/1990	10: 0:18	7.5713377	bb1
2/26/1990	10:37:22	9.0231316	bb1
2/26/1990	11: 9:54	9.9592760	bb1
2/26/1990	11:45: 5	13.4665934	bb1
2/26/1990	12:20:15	15.6648085	bb1
2/26/1990	12:54:18	17.8727214	bb1
2/26/1990	13:31:23	21.2556288	bb1
2/26/1990	13:47:10	0.0000000	bb1
99/99/ 99	99:99:99	94.8134973	bb1

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
8:43:47	0	570	0	64	0	0	0
8:53:46	599	1322	752	72	8	0	0
9: 3:46	600	1932	610	79	7	0	410
9: 4:47	61	1937	5	79	0	0	410
9: 5: 3	16	1937	0	79	0	0	407
9: 5:18	15	1935	-2	80	1	0	410
9: 5:33	15	1935	0	81	1	0	410
9: 5:48	15	1937	2	79	-2	0	410
9: 6:49	61	1937	0	80	1	0	410
9: 7:49	60	1935	-2	80	0	0	410
9: 8:49	60	1967	32	79	-1	0	407
9: 9:49	60	1976	9	80	1	160	439
9:10:49	60	1989	13	80	0	128	451
9:11:49	60	2001	12	80	0	128	462
9:12:49	60	2008	7	78	-2	125	471
9:13:49	60	2013	5	79	1	125	483
9:14:49	60	2023	10	80	1	125	492
9:15:49	60	2028	5	80	0	125	495
9:16:49	60	2032	4	80	0	125	503
9:17:49	60	2037	5	79	-1	125	509
9:18:49	60	2042	5	79	0	123	515
9:19:49	60	2047	5	80	1	124	521
9:20:49	60	2050	3	80	0	123	527
9:21:49	60	2057	7	80	0	123	530
9:22:49	60	2059	2	78	-2	124	536
9:23:49	60	2067	8	80	2	123	541
9:24:49	60	2074	7	80	0	120	547
9:25:49	60	2076	2	81	1	122	553
9:26:49	60	2096	20	79	-2	120	559
9:27:49	60	2115	19	80	1	268	585
9:28:49	60	2128	13	79	-1	256	597
9:29:49	60	2140	12	78	-1	256	615
9:30:49	60	2155	15	78	0	256	626
9:31:49	60	2164	9	79	1	253	641
9:32:49	60	2174	10	79	0	253	650
9:33:49	60	2186	12	79	0	253	662
9:34:49	60	2194	8	78	-1	268	673
9:35:49	60	2201	7	77	-1	266	682
9:36:49	60	2208	7	77	0	259	691
9:37:49	60	2216	8	78	1	253	700
9:38:49	60	2223	7	78	0	253	706
9:39:49	60	2228	5	79	1	251	717
9:40:49	60	2235	7	78	-1	248	723
9:41:49	60	2242	7	79	1	249	729
9:42:49	60	2245	3	77	-2	248	738
9:43:49	60	2252	7	78	1	248	741
9:44:49	60	2257	5	78	0	245	747
9:45:49	60	2262	5	77	-1	245	752
9:46:49	60	2269	7	77	0	253	761
9:47:49	60	2274	5	78	1	253	767
9:48:49	60	2279	5	77	-1	251	773
9:49:49	60	2284	5	77	0	252	776
9:50:49	60	2289	5	77	0	246	782
9:51:49	60	2294	5	76	-1	246	788
9:52:49	60	2296	2	77	1	246	793
9:53:49	60	2299	3	77	0	246	796

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
9:54:49	60	2306	7	78	1	243	799
9:55:49	60	2306	0	77	-1	243	805
9:56:49	60	2311	5	77	0	243	808
9:57:49	60	2316	5	78	1	243	814
9:58:49	60	2321	5	78	0	248	820
9:59:49	60	2326	5	76	-2	248	826
10: 0:50	61	2328	2	76	0	248	826
10: 1:50	60	2347	19	77	1	248	832
10: 2:50	60	2360	13	76	-1	2	858
10: 3:50	60	2369	9	77	1	351	867
10: 4:50	60	2382	13	75	-2	351	878
10: 5:50	60	2389	7	76	1	351	890
10: 6:50	60	2396	7	75	-1	351	899
10: 7:50	60	2404	8	76	1	351	908
10: 8:50	60	2411	7	77	1	351	916
10: 9:50	60	2418	7	75	-2	351	928
10:10:50	60	2426	8	76	1	351	934
10:11:50	60	2433	7	76	0	351	940
10:12:50	60	2438	5	76	0	351	949
10:13:50	60	2443	5	75	-1	351	952
10:14:50	60	2448	5	75	0	351	963
10:15:50	60	2452	4	74	-1	351	966
10:16:50	60	2460	8	75	1	322	972
10:17:50	60	2465	5	76	1	351	981
10:18:50	60	2470	5	76	0	351	987
10:19:50	60	2474	4	75	-1	351	993
10:20:50	60	2479	5	74	-1	351	999
10:21:50	60	2482	3	76	2	351	1004
10:22:50	60	2484	2	76	0	345	1010
10:23:50	60	2489	5	76	0	333	1013
10:24:50	60	2494	5	75	-1	322	1019
10:25:50	60	2499	5	76	1	351	1022
10:26:50	60	2501	2	75	-1	351	1028
10:27:50	60	2506	5	75	0	351	1034
10:28:50	60	2511	5	76	1	351	1037
10:29:50	60	2514	3	74	-2	351	1042
10:30:50	60	2516	2	76	2	351	1045
10:31:50	60	2518	2	73	-3	351	1048
10:32:50	60	2523	5	74	1	331	1054
10:33:50	60	2528	5	76	2	328	1057
10:34:50	60	2531	3	75	-1	325	1060
10:35:50	60	2536	5	74	-1	351	1066
10:36:50	60	2548	12	74	0	351	1069
10:37:50	60	2557	9	74	0	468	1086
10:38:50	60	2567	10	73	-1	468	1098
10:39:50	60	2575	8	73	0	439	1104
10:40:50	60	2579	4	75	2	468	1116
10:41:50	60	2587	8	75	0	445	1125
10:42:50	60	2594	7	75	0	439	1127
10:43:50	60	2601	7	73	-2	439	1139
10:44:50	60	2606	5	75	2	439	1142
10:45:50	60	2611	5	73	-2	439	1151
10:46:50	60	2619	8	74	1	439	1154
10:47:50	60	2623	4	73	-1	439	1160
10:48:50	60	2628	5	73	0	439	1168
10:49:50	60	2631	3	73	0	439	1171

Holmes Wireline Service, Inc.  
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)
10:50:50	60	2638	7	73	0	439	1174
10:51:50	60	2643	5	73	0	462	1186
10:52:50	60	2648	5	74	1	439	1192
10:53:50	60	2655	7	73	-1	439	1195
10:54:50	60	2658	3	73	0	439	1198
10:55:50	60	2663	5	74	1	439	1204
10:56:50	60	2665	2	73	-1	439	1207
10:57:50	60	2670	5	72	-1	439	1212
10:58:50	60	2672	2	74	2	439	1218
10:59:50	60	2677	5	74	0	439	1221
11: 0:50	60	2682	5	73	-1	439	1230
11: 1:50	60	2682	0	72	-1	439	1227
11: 2:50	60	2687	5	74	2	439	1230
11: 3:50	60	2692	5	72	-2	439	1236
11: 4:50	60	2694	2	73	1	439	1239
11: 5:50	60	2697	3	72	-1	439	1242
11: 6:50	60	2702	5	72	0	439	1245
11: 7:50	60	2702	0	74	2	439	1250
11: 8:50	60	2704	2	74	0	439	1253
11: 9:50	60	2706	2	74	0	436	1256
11:10:50	60	2719	13	74	0	416	1256
11:11:50	60	2726	7	74	0	559	1274
11:12:50	60	2736	10	72	-2	556	1283
11:13:50	60	2741	5	73	1	556	1291
11:14:50	60	2748	7	72	-1	556	1297
11:15:50	60	2755	7	73	1	556	1306
11:16:50	60	2758	3	72	-1	556	1309
11:17:50	60	2765	7	72	0	536	1315
11:18:50	60	2770	5	72	0	556	1321
11:19:50	60	2777	7	72	0	541	1324
11:20:50	60	2782	5	71	-1	527	1333
11:21:50	60	2785	3	73	2	556	1338
11:22:50	60	2792	7	72	-1	556	1344
11:23:50	60	2797	5	72	0	556	1347
11:24:50	60	2802	5	72	0	556	1353
11:25:50	60	2804	2	71	-1	553	1359
11:26:50	60	2809	5	72	1	556	1362
11:27:50	60	2814	5	72	0	556	1368
11:28:50	60	2816	2	72	0	556	1371
11:29:50	60	2819	3	72	0	544	1371
11:30:50	60	2824	5	72	0	556	1379
11:31:50	60	2829	5	71	-1	556	1382
11:32:50	60	2831	2	71	0	556	1385
11:33:50	60	2833	2	71	0	556	1391
11:34:50	60	2838	5	72	1	556	1394
11:35:50	60	2838	0	72	0	527	1397
11:36:50	60	2841	3	72	0	527	1400
11:37:50	60	2846	5	70	-2	556	1406
11:38:50	60	2848	2	71	1	556	1406
11:39:50	60	2853	5	72	1	556	1412
11:40:50	60	2853	0	71	-1	556	1409
11:41:50	60	2858	5	72	1	556	1417
11:42:50	60	2860	2	72	0	556	1423
11:43:50	60	2863	3	72	0	556	1420
11:44:50	60	2865	2	72	0	556	1426
11:45:50	60	2873	8	70	-2	556	1426

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:46:50	60	2880	7	71	1	644	1441
11:47:50	60	2885	5	71	0	650	1447
11:48:50	60	2892	7	70	-1	644	1453
11:49:50	60	2894	2	71	1	644	1458
11:50:50	60	2899	5	71	0	644	1461
11:51:50	60	2902	3	70	-1	644	1467
11:52:50	60	2907	5	71	1	644	1470
11:53:50	60	2909	2	71	0	644	1473
11:54:50	60	2912	3	71	0	644	1479
11:55:50	60	2916	4	71	0	644	1479
11:56:50	60	2919	3	71	0	635	1488
11:57:50	60	2921	2	70	-1	615	1488
11:58:50	60	2924	3	69	-1	644	1491
11:59:50	60	2926	2	70	1	644	1497
12: 0:50	60	2931	5	70	0	644	1497
12: 1:50	60	2934	3	70	0	644	1502
12: 2:50	60	2936	2	69	-1	644	1505
12: 3:50	60	2938	2	70	1	621	1511
12: 4:50	60	2938	0	69	-1	615	1508
12: 5:50	60	2946	8	69	0	615	1514
12: 6:50	60	2948	2	69	0	644	1517
12: 7:50	60	2951	3	71	2	644	1520
12: 8:50	60	2951	0	69	-2	644	1523
12: 9:50	60	2956	5	69	0	644	1526
12:10:50	60	2958	2	69	0	644	1529
12:11:50	60	2960	2	70	1	644	1529
12:12:50	60	2963	3	70	0	644	1535
12:13:50	60	2963	0	69	-1	644	1535
12:14:50	60	2968	5	69	0	626	1538
12:15:50	60	2968	0	67	-2	644	1541
12:16:50	60	2973	5	69	2	644	1543
12:17:50	60	2973	0	70	1	644	1549
12:18:50	60	2975	2	69	-1	644	1546
12:19:50	60	2978	3	69	0	644	1549
12:20:50	60	2980	2	68	-1	644	1555
12:21:50	60	2987	7	68	0	791	1558
12:22:50	60	2992	5	69	1	761	1570
12:23:50	60	2997	5	69	0	761	1576
12:24:50	60	3002	5	69	0	761	1582
12:25:50	60	3004	2	68	-1	761	1582
12:26:50	60	3009	5	68	0	761	1587
12:27:50	60	3012	3	68	0	761	1590
12:28:50	60	3014	2	67	-1	761	1593
12:29:50	60	3017	3	67	0	747	1599
12:30:50	60	3019	2	69	2	732	1605
12:31:50	60	3024	5	67	-2	732	1605
12:32:50	60	3026	2	69	2	761	1608
12:33:50	60	3029	3	68	-1	741	1611
12:34:50	60	3034	5	66	-2	761	1617
12:35:50	60	3034	0	68	2	761	1617
12:36:50	60	3039	5	68	0	735	1620
12:37:50	60	3039	0	68	0	761	1625
12:38:50	60	3041	2	67	-1	732	1625
12:39:50	60	3043	2	67	0	761	1628
12:40:50	60	3046	3	68	1	761	1631
12:41:50	60	3048	2	66	-2	747	1634



Holmes Wireline Service, Inc.  
Well Test Data

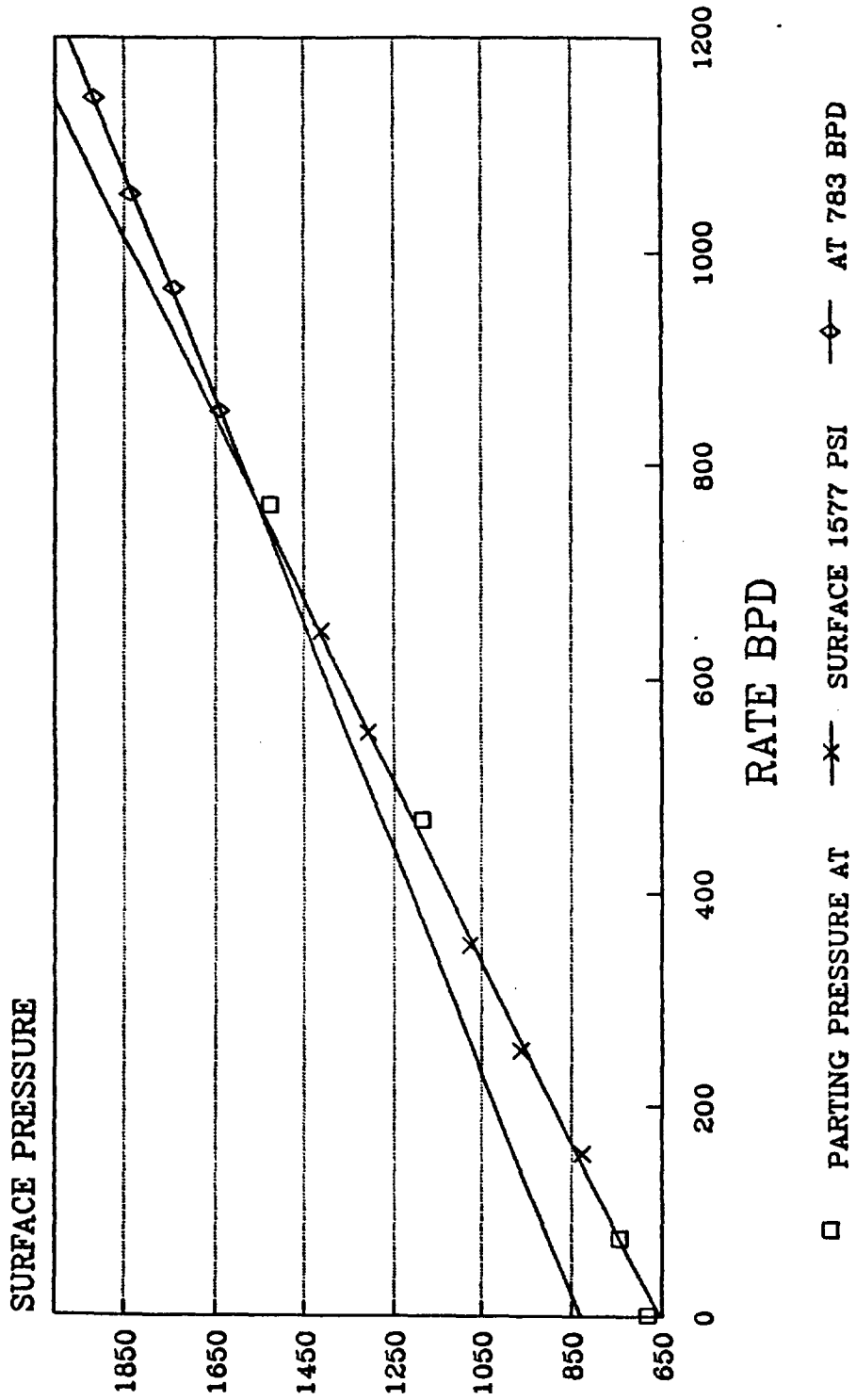
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:42:50	60	3051	3	67	1	735	1634
12:43:50	60	3053	2	68	1	761	1640
12:44:50	60	3056	3	66	-2	761	1643
12:45:50	60	3058	2	67	1	761	1643
12:46:50	60	3061	3	67	0	761	1646
12:47:50	60	3063	2	67	0	761	1649
12:48:50	60	3063	0	66	-1	761	1652
12:49:50	60	3065	2	67	1	761	1652
12:50:50	60	3068	3	68	1	761	1658
12:51:50	60	3068	0	66	-2	761	1658
12:52:50	60	3073	5	67	1	761	1658
12:53:50	60	3073	0	66	-1	761	1661
12:54:50	60	3075	2	67	1	758	1664
12:55:50	60	3080	5	66	-1	820	1672
12:56:50	60	3083	3	65	-1	852	1678
12:57:50	60	3087	4	66	1	849	1684
12:58:50	60	3092	5	65	-1	849	1684
12:59:50	60	3095	3	67	2	849	1687
13: 0:50	60	3095	0	65	-2	849	1690
13: 1:50	60	3097	2	67	2	849	1693
13: 2:50	60	3102	5	66	-1	846	1696
13: 3:50	60	3105	3	67	1	837	1699
13: 4:50	60	3107	2	67	0	820	1702
13: 5:50	60	3112	5	65	-2	878	1708
13: 6:50	60	3114	2	66	1	878	1708
13: 7:50	60	3117	3	67	1	878	1710
13: 8:50	60	3117	0	65	-2	878	1713
13: 9:50	60	3119	2	66	1	849	1713
13:10:50	60	3122	3	65	-1	849	1719
13:11:50	60	3124	2	66	1	849	1719
13:12:50	60	3124	0	65	-1	849	1722
13:13:50	60	3126	2	66	1	849	1722
13:14:50	60	3129	3	64	-2	849	1725
13:15:50	60	3129	0	64	0	849	1725
13:16:50	60	3131	2	66	2	849	1731
13:17:50	60	3131	0	65	-1	849	1728
13:18:50	60	3136	5	65	0	849	1731
13:19:50	60	3136	0	64	-1	846	1737
13:20:50	60	3136	0	66	2	829	1734
13:21:50	60	3141	5	65	-1	849	1737
13:22:50	60	3141	0	64	-1	849	1740
13:23:50	60	3141	0	66	2	849	1740
13:24:50	60	3144	3	65	-1	849	1740
13:25:50	60	3146	2	64	-1	849	1743
13:26:50	60	3146	0	65	1	849	1743
13:27:50	60	3146	0	65	0	823	1746
13:28:50	60	3151	5	65	0	849	1749
13:29:50	60	3151	0	66	1	849	1749
13:30:50	60	3131	-20	66	0	849	1751
13:31:50	60	3109	-22	66	0	0	1708
13:32:50	60	3095	-14	66	0	0	1690
13:33:50	60	3078	-17	65	-1	0	1672
13:34:50	60	3068	-10	64	-1	0	1658
13:35:50	60	3056	-12	65	1	0	1643
13:36:50	60	3041	-15	65	0	0	1634
13:37:50	60	3031	-10	67	2	0	1620

Holmes Wireline Service, Inc.  
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)
13:38:50	60	3019	-12	66	-1	0	1611
13:39:50	60	3009	-10	66	0	0	1599
13:40:50	60	2997	-12	65	-1	0	1587
13:41:50	60	2987	-10	65	0	0	1579
13:42:50	60	2978	-9	66	1	0	1567
13:43:50	60	2968	-10	66	0	0	1558
13:44:50	60	2958	-10	68	2	0	1549
13:45:50	60	2948	-10	67	-1	0	1538

# SOCORRO: WEST "B" # 13

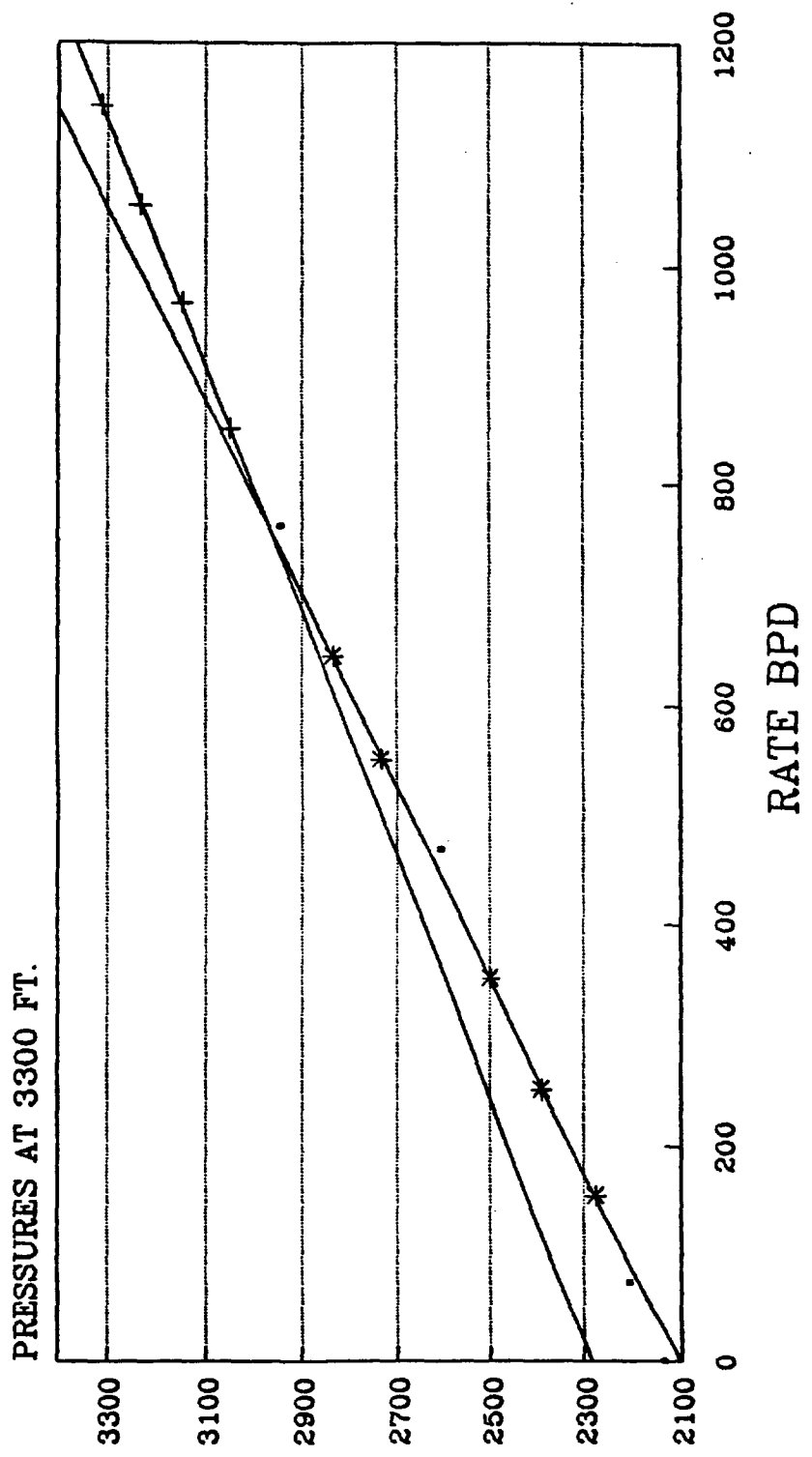
3-10-90



HOLMES WIRELINE SERVICE

# SOCORRO: WEST "B" # 13

3-10-90



HOLMES WIRELINE SERVICE



HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE TESTS WITH FORMATION PRESSURES RECORDED AT 3300 '.

RATE	SURF.PSI	B.H.PSI
0	680	2133
75	741	2204
155	825	2275
250	960	2389
350	1075	2499
468	1184	2607
550	1304	2731
644	1409	2832
761	1526	2944
850	1641	3049
966	1743	3149
1054	1837	3234
1142	1916	3310

15 MIN FALL-OFF 1702 3137

NOTE: INJECTION RATES 75 - 468 BPD ARE OFF OF A PUMP TRUCK AND  
QUITE IRRATIC. INJECTION WATER SUPPLY WAS LOST OVER THE NIGHT.  
INJECTION SUPPLY RESTORED AND USED TO COMPLETE TEST, AT 550 BPD  
TO THE FINISH.

END TESTS. THANKS.

## HOLMES WIRELINE SERVICE, INC.

## Volume Data

\* (last record = total volume)

Date	Time	Volume
3/ 9/1990	10:59:34	2.1009538 bbl
3/ 9/1990	11:29:52	3.2831384 bbl
3/ 9/1990	12: 0:49	5.2845955 bbl
3/ 9/1990	12:32: 7	8.0040148 bbl
3/ 9/1990	12:59:55	8.8761393 bbl
3/ 9/1990	13:32:47	12.6535712 bbl
3/ 9/1990	13:59:59	12.1407403 bbl
3/ 9/1990	14:30: 3	15.7597860 bbl
3/ 9/1990	14:59:57	17.6267158 bbl
3/ 9/1990	15:30:16	20.1330227 bbl
3/ 9/1990	16: 0:12	21.8362766 bbl
3/ 9/1990	16:32:16	24.0172662 bbl
3/ 9/1990	16:49:56	0.0000000 bbl
99/99/ 99	99:99:99	151.7162206 bbl

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
8:14:15	0	-1	0	54	0	0	0
8:24:15	600	-1	0	55	1	0	0
8:34:15	600	858	859	63	8	0	0
8:44:15	600	1683	825	70	7	0	533
8:50:43	388	2028	345	72	2	0	562
8:51:43	60	2030	2	74	2	0	577
8:52:43	60	2032	2	71	-3	0	580
8:53:43	60	2035	3	71	0	0	580
8:54:43	60	2035	0	72	1	0	583
8:55:43	60	2037	2	72	0	0	583
8:56:43	60	2040	3	72	0	0	585
8:57:43	60	2040	0	73	1	0	585
8:58:43	60	2042	2	73	0	0	588
8:59:43	60	2045	3	72	-1	0	588
9: 0:43	60	2042	-3	73	1	0	588
9: 1:43	60	2042	0	73	0	0	591
9: 2:43	60	2045	3	74	1	0	594
9: 7:47	304	2052	7	72	-2	0	594
9:12:47	300	2057	5	72	0	0	600
9:17:47	300	2059	2	73	1	0	603
9:22:47	300	2062	3	73	0	0	612
9:27:47	300	2069	7	72	-1	0	612
9:32:47	300	2072	3	74	2	0	618
9:37:47	300	2079	7	73	-1	0	621
9:42:47	300	2086	7	73	0	0	629
9:47:47	300	2091	5	73	0	0	635
9:52:47	300	2096	5	72	-1	0	641
9:57:47	300	2103	7	74	2	0	644
10: 2:47	300	2106	3	74	0	0	650
10: 7:47	300	2111	5	74	0	0	653
10:12:47	300	2113	2	72	-2	0	656
10:17:47	300	2118	5	74	2	0	659
10:22:47	300	2120	2	72	-2	0	662
10:27:47	300	2123	3	73	1	0	665
10:30:25	158	2135	12	74	1	0	667
10:31:25	60	2133	-2	73	-1	0	673
10:32:25	60	2133	0	73	0	0	673
10:33:25	60	2145	12	73	0	0	673
10:34:25	60	2147	2	74	1	178	700
10:35:25	60	2157	10	74	0	43	659
10:36:25	60	2162	5	74	0	267	665
10:37:25	60	2174	12	74	0	163	700
10:38:25	60	2174	0	71	-3	207	717
10:39:25	60	2177	3	73	2	76	706
10:40:25	60	2179	2	74	1	124	711
10:41:25	60	2179	0	72	-2	112	714
10:42:25	60	2181	2	73	1	96	714
10:43:31	66	2184	3	73	0	91	714
10:44:31	60	2186	2	72	-1	110	717
10:45:31	60	2186	0	74	2	89	717
10:46:31	60	2186	0	72	-2	76	720
10:47:31	60	2186	0	72	0	80	726
10:48:31	60	2191	5	72	0	85	729
10:49:31	60	2191	0	73	1	86	729
10:50:31	60	2194	3	73	0	92	729
10:51:31	60	2194	0	73	0	89	732



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
10:52:31	60	2196	2	74	1	83	732
10:53:31	60	2196	0	73	-1	82	735
10:54:31	60	2196	0	73	0	78	738
10:55:31	60	2199	3	74	1	73	732
10:56:31	60	2199	0	73	-1	75	735
10:57:31	60	2201	2	72	-1	80	738
10:58:31	60	2201	0	73	1	79	741
10:59:31	60	2203	2	72	-1	74	741
11: 0:32	61	2206	3	74	2	79	741
11: 1:32	60	2211	5	72	-2	132	747
11: 2:32	60	2213	2	73	1	155	752
11: 3:32	60	2218	5	71	-2	157	755
11: 4:32	60	2221	3	73	2	158	744
11: 5:32	60	2225	4	73	0	164	761
11: 6:32	60	2228	3	72	-1	154	764
11: 7:32	60	2230	2	72	0	169	764
11: 8:32	60	2235	5	73	1	155	770
11: 9:32	60	2238	3	72	-1	160	767
11:10:32	60	2238	0	73	1	165	779
11:11:32	60	2242	4	72	-1	163	779
11:12:32	60	2242	0	72	0	155	785
11:13:32	60	2242	0	73	1	151	779
11:14:32	60	2247	5	73	0	160	788
11:15:32	60	2247	0	73	0	162	793
11:16:32	60	2252	5	72	-1	153	791
11:17:32	60	2252	0	72	0	157	788
11:18:32	60	2255	3	73	1	155	793
11:19:32	60	2257	2	72	-1	151	799
11:20:32	60	2257	0	71	-1	154	805
11:21:32	60	2260	3	71	0	153	802
11:22:32	60	2262	2	72	1	152	802
11:23:32	60	2262	0	71	-1	152	808
11:24:32	60	2264	2	72	1	158	811
11:25:32	60	2267	3	71	-1	158	814
11:26:32	60	2269	2	71	0	165	817
11:27:32	60	2272	3	71	0	162	817
11:28:32	60	2272	0	73	2	160	820
11:29:32	60	2274	2	72	-1	163	820
11:30:32	60	2277	3	72	0	165	823
11:31:32	60	2284	7	73	1	180	826
11:32:32	60	2286	2	72	-1	264	843
11:33:32	60	2291	5	72	0	310	829
11:34:32	60	2299	8	70	-2	294	834
11:35:32	60	2301	2	72	2	287	846
11:36:32	60	2304	3	70	-2	288	849
11:37:32	60	2311	7	71	1	0	855
11:38:32	60	2313	2	70	-1	184	861
11:39:32	60	2316	3	72	2	228	873
11:40:32	60	2321	5	72	0	202	873
11:41:32	60	2326	5	71	-1	243	873
11:42:32	60	2333	7	71	0	281	890
11:43:32	60	2335	2	72	1	298	884
11:44:32	60	2340	5	71	-1	260	896
11:45:32	60	2345	5	70	-1	249	905
11:46:32	60	2347	2	72	2	228	896
11:47:32	60	2350	3	70	-2	225	887

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:46:32	60	2352	2	71	1	234	919
11:49:32	60	2355	3	70	-1	263	911
11:50:32	60	2360	5	71	1	272	925
11:51:32	60	2362	2	70	-1	260	916
11:52:32	60	2367	5	69	-1	246	925
11:53:32	60	2369	2	70	1	269	922
11:54:32	60	2374	5	70	0	292	946
11:55:32	60	2377	3	71	1	281	940
11:56:32	60	2379	2	70	-1	260	940
11:57:32	60	2382	3	70	0	246	949
11:58:32	60	2384	2	69	-1	281	949
11:59:32	60	2387	3	69	0	219	949
12: 0:32	60	2387	0	70	1	249	949
12: 1:32	60	2394	7	71	1	240	960
12: 2:32	60	2401	7	70	-1	322	960
12: 3:32	60	2409	8	69	-1	348	975
12: 4:32	60	2409	0	69	0	389	975
12: 5:32	60	2413	4	68	-1	216	975
12: 6:32	60	2418	5	69	1	386	990
12: 7:32	60	2426	8	68	-1	404	1013
12: 8:32	60	2431	5	68	0	398	1007
12: 9:32	60	2438	7	68	0	451	1016
12:10:32	60	2440	2	68	0	451	1022
12:11:32	60	2440	0	68	0	369	1013
12:12:32	60	2445	5	68	0	325	1022
12:13:32	60	2450	5	69	1	360	1019
12:14:32	60	2455	5	70	1	398	1028
12:15:32	60	2457	2	70	0	372	1042
12:16:32	60	2465	8	67	-3	416	1037
12:17:32	60	2465	0	67	0	404	1045
12:18:32	60	2467	2	70	3	339	1037
12:19:32	60	2470	3	67	-3	354	1040
12:20:32	60	2472	2	68	1	348	1048
12:21:32	60	2477	5	67	-1	342	1048
12:22:32	60	2479	2	68	1	351	1054
12:23:32	60	2482	3	68	0	363	1051
12:24:32	60	2484	2	69	1	351	1060
12:25:32	60	2487	3	67	-2	369	1063
12:26:32	60	2489	2	68	1	348	1066
12:27:32	60	2492	3	69	1	351	1066
12:28:32	60	2494	2	69	0	366	1063
12:29:32	60	2499	5	68	-1	369	1069
12:30:32	60	2501	2	69	1	377	1075
12:31:32	60	2506	5	68	-1	357	1078
12:32:32	60	2509	3	69	1	416	1089
12:33:32	60	2514	5	69	0	442	1089
12:34:32	60	2518	4	67	-2	459	1095
12:35:32	60	2521	3	66	-1	451	1089
12:36:32	60	2528	7	68	2	433	1101
12:37:32	60	2536	8	66	-2	448	1104
12:38:32	60	2538	2	69	3	536	1116
12:39:32	60	2538	0	67	-2	436	1116
12:40:32	60	2543	5	67	0	439	1107
12:41:32	60	2548	5	67	0	451	1127
12:42:32	60	2560	12	67	0	457	1130
12:43:32	60	2557	-3	68	1	407	1125

Holmes Wireline Service, Inc.  
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)
12:44:32	60	2560	3	66	-2	439	1136
12:45:32	60	2562	2	68	2	439	1139
12:46:32	60	2565	3	66	-2	439	1142
12:47:32	60	2567	2	66	0	451	1145
12:48:32	60	2572	5	66	0	454	1145
12:49:32	60	2575	3	68	2	442	1151
12:50:32	60	2577	2	65	-3	451	1154
12:51:32	60	2582	5	68	3	442	1157
12:52:32	60	2584	2	68	0	468	1160
12:53:32	60	2587	3	66	-2	439	1163
12:54:32	60	2589	2	67	1	468	1166
12:55:32	60	2594	5	66	-1	468	1168
12:56:32	60	2597	3	68	2	468	1171
12:57:32	60	2599	2	67	-1	468	1174
12:58:32	60	2601	2	66	-1	468	1177
12:59:32	60	2604	3	65	-1	468	1180
13: 0:32	60	2611	7	67	2	468	1183
13: 1:32	60	2616	5	66	-1	556	1189
13: 2:32	60	2621	5	67	1	556	1198
13: 3:32	60	2626	5	65	-2	556	1204
13: 4:32	60	2631	5	66	1	556	1207
13: 5:32	60	2636	5	68	2	556	1212
13: 6:32	60	2638	2	65	-3	556	1215
13: 7:32	60	2643	5	66	1	556	1218
13: 8:32	60	2653	10	66	0	556	1224
13: 9:32	60	2658	5	65	-1	556	1227
13:10:32	60	2663	5	67	2	556	1233
13:11:32	60	2665	2	65	-2	556	1236
13:12:32	60	2667	2	66	1	556	1242
13:13:32	60	2672	5	68	2	556	1245
13:14:32	60	2675	3	66	-2	556	1248
13:15:32	60	2680	5	67	1	556	1250
13:16:32	60	2682	2	66	-1	547	1253
13:17:32	60	2684	2	65	-1	541	1256
13:18:32	60	2689	5	67	2	527	1259
13:19:32	60	2692	3	65	-2	556	1262
13:20:32	60	2694	2	67	2	556	1265
13:21:32	60	2699	5	65	-2	556	1268
13:22:32	60	2702	3	67	2	556	1268
13:23:32	60	2704	2	66	-1	547	1274
13:24:32	60	2706	2	65	-1	527	1277
13:25:32	60	2711	5	65	0	556	1280
13:26:32	60	2714	3	66	1	556	1283
13:27:32	60	2719	5	65	-1	556	1289
13:28:32	60	2719	0	65	0	556	1291
13:29:32	60	2724	5	65	0	556	1294
13:30:32	60	2726	2	64	-1	556	1294
13:31:32	60	2728	2	66	2	556	1300
13:32:32	60	2731	3	66	0	556	1303
13:33:32	60	2738	7	65	-1	556	1306
13:34:32	60	2746	8	65	0	644	1315
13:35:32	60	2748	2	64	-1	641	1321
13:36:32	60	2753	5	65	1	644	1327
13:37:32	60	2755	2	65	0	644	1330
13:38:32	60	2760	5	64	-1	644	1335
13:39:32	60	2763	3	65	1	644	1338

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:40:32	60	2768	5	65	0	644	1344
13:41:32	60	2772	4	65	0	626	1344
13:42:32	60	2775	3	64	-1	644	1350
13:43:32	60	2777	2	64	0	644	1356
13:44:32	60	2782	5	64	0	644	1359
13:45:32	60	2787	5	64	0	644	1362
13:46:32	60	2789	2	63	-1	644	1371
13:47:32	60	2792	3	64	1	644	1371
13:48:32	60	2797	5	65	1	644	1374
13:49:32	60	2799	2	65	0	644	1374
13:50:32	60	2802	3	65	0	644	1382
13:51:32	60	2804	2	63	-2	644	1382
13:52:32	60	2809	5	64	1	644	1385
13:53:32	60	2811	2	63	-1	644	1388
13:54:32	60	2814	3	63	0	641	1391
13:55:32	60	2819	5	63	0	673	1394
13:56:32	60	2821	2	63	0	644	1397
13:57:32	60	2824	3	65	2	644	1400
13:58:32	60	2826	2	63	-2	644	1403
13:59:32	60	2829	3	64	1	644	1406
14: 0:32	60	2833	4	64	0	644	1409
14: 1:32	60	2841	8	65	1	732	1420
14: 2:32	60	2846	5	65	0	761	1426
14: 3:32	60	2851	5	63	-2	732	1432
14: 4:32	60	2855	4	65	2	732	1435
14: 5:32	60	2858	3	63	-2	761	1438
14: 6:32	60	2863	5	64	1	761	1441
14: 7:32	60	2868	5	63	-1	761	1444
14: 8:32	60	2873	5	62	-1	732	1450
14: 9:32	60	2875	2	63	1	761	1456
14:10:32	60	2882	7	62	-1	761	1456
14:11:32	60	2885	3	64	2	761	1458
14:12:32	60	2887	2	65	1	755	1464
14:13:32	60	2892	5	63	-2	732	1464
14:14:32	60	2894	2	63	0	732	1470
14:15:32	60	2897	3	61	-2	732	1473
14:16:32	60	2899	2	64	3	761	1479
14:17:32	60	2904	5	64	0	761	1488
14:18:32	60	2907	3	64	0	761	1488
14:19:32	60	2912	5	62	-2	752	1491
14:20:32	60	2914	2	64	2	761	1494
14:21:32	60	2916	2	64	0	735	1497
14:22:32	60	2924	8	62	-2	764	1500
14:23:32	60	2926	2	62	0	764	1502
14:24:32	60	2929	3	62	0	761	1508
14:25:32	60	2931	2	63	1	761	1508
14:26:32	60	2934	3	62	-1	761	1511
14:27:32	60	2936	2	63	1	761	1514
14:28:32	60	2941	5	64	1	732	1517
14:29:32	60	2943	2	63	-1	761	1523
14:30:32	60	2946	3	62	-1	761	1526
14:31:32	60	2953	7	64	2	761	1529
14:32:32	60	2958	5	63	-1	878	1541
14:33:32	60	2963	5	62	-1	878	1546
14:34:32	60	2968	5	63	1	849	1552
14:35:32	60	2970	2	64	1	849	1555

## Well Test Data

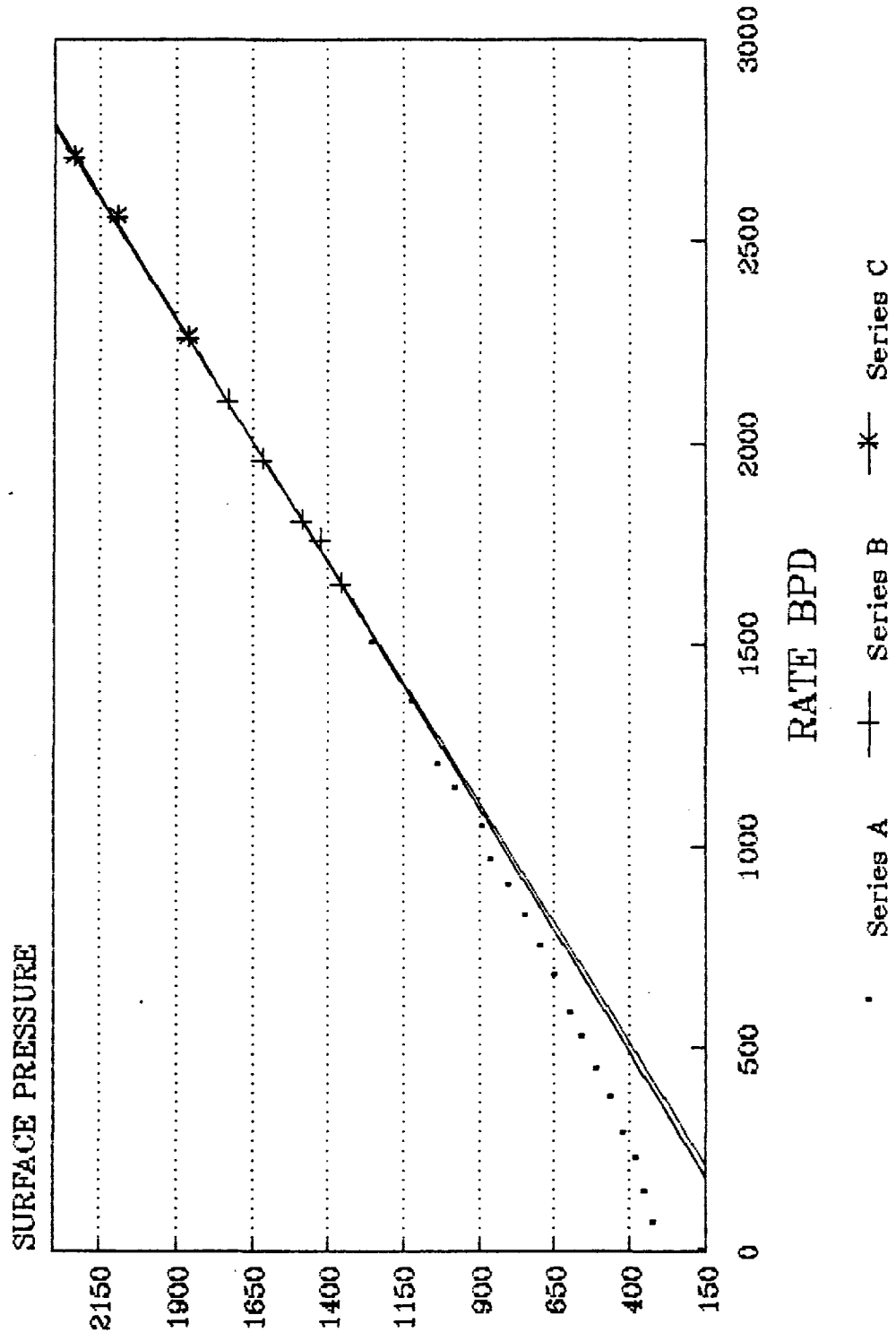
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:36:32	60	2973	3	63	-1	849	1558
14:37:32	60	2978	5	63	0	849	1564
14:38:32	60	2980	2	62	-1	849	1570
14:39:32	60	2985	5	63	1	849	1573
14:40:32	60	2990	5	63	0	837	1573
14:41:32	60	2992	2	64	1	849	1579
14:42:32	60	2995	3	63	-1	849	1582
14:43:32	60	3000	5	63	0	849	1582
14:44:32	60	3002	2	62	-1	849	1587
14:45:32	60	3007	5	62	0	849	1590
14:46:32	60	3009	2	63	1	849	1590
14:47:32	60	3012	3	62	-1	849	1593
14:48:32	60	3014	2	63	1	820	1596
14:49:32	60	3017	3	62	-1	820	1599
14:50:32	60	3019	2	62	0	849	1605
14:51:32	60	3024	5	62	0	849	1605
14:52:32	60	3026	2	62	0	843	1608
14:53:32	60	3029	3	63	1	843	1614
14:54:32	60	3034	5	63	0	878	1623
14:55:32	60	3036	2	62	-1	849	1623
14:56:32	60	3039	3	62	0	852	1625
14:57:32	60	3041	2	63	1	849	1628
14:58:32	60	3043	2	64	1	864	1634
14:59:32	60	3048	5	62	-2	849	1631
15: 0:32	60	3051	3	64	2	849	1634
15: 1:32	60	3056	5	64	0	937	1646
15: 2:32	60	3063	7	63	-1	966	1649
15: 3:32	60	3065	2	62	-1	966	1655
15: 4:32	60	3070	5	61	-1	966	1658
15: 5:32	60	3075	5	61	0	966	1664
15: 6:32	60	3078	3	62	1	966	1669
15: 7:32	60	3080	2	62	0	966	1669
15: 8:32	60	3085	5	62	0	960	1675
15: 9:32	60	3090	5	61	-1	937	1678
15:10:32	60	3092	2	63	2	937	1684
15:11:32	60	3097	5	61	-2	966	1690
15:12:32	60	3100	3	63	2	966	1690
15:13:32	60	3102	2	62	-1	966	1693
15:14:32	60	3107	5	63	1	966	1696
15:15:32	60	3109	2	63	0	966	1699
15:16:32	60	3112	3	62	-1	966	1705
15:17:32	60	3117	5	62	0	966	1705
15:18:32	60	3117	0	62	0	937	1708
15:19:32	60	3122	5	63	1	952	1708
15:20:32	60	3124	2	63	0	937	1713
15:21:32	60	3126	2	61	-2	966	1716
15:22:32	60	3129	3	62	1	966	1716
15:23:32	60	3131	2	61	-1	937	1722
15:24:32	60	3134	3	61	0	937	1725
15:25:32	60	3136	2	63	2	966	1728
15:26:32	60	3139	3	61	-2	940	1731
15:27:32	60	3144	5	62	1	966	1734
15:28:32	60	3146	2	61	-1	966	1737
15:29:32	60	3146	0	62	1	937	1737
15:30:32	60	3148	2	62	0	955	1743
15:31:32	60	3153	5	62	0	987	1746

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:32:32	60	3158	5	61	-1	1054	1754
15:33:32	60	3161	3	61	0	1025	1757
15:34:32	60	3163	2	61	0	1054	1760
15:35:32	60	3168	5	62	1	1054	1766
15:36:32	60	3170	2	62	0	1054	1766
15:37:32	60	3175	5	62	0	1054	1772
15:38:32	60	3175	0	60	-2	1054	1775
15:39:32	60	3183	8	60	0	1054	1778
15:40:32	60	3183	0	62	2	1054	1781
15:41:32	60	3185	2	61	-1	1054	1784
15:42:32	60	3190	5	62	1	1054	1787
15:43:32	60	3192	2	60	-2	1054	1792
15:44:32	60	3195	3	62	2	1083	1795
15:45:32	60	3195	0	60	-2	1054	1798
15:46:32	60	3200	5	62	2	1025	1798
15:47:32	60	3202	2	62	0	1054	1804
15:48:32	60	3205	3	61	-1	1054	1807
15:49:32	60	3207	2	61	0	1054	1810
15:50:32	60	3210	3	61	0	1054	1813
15:51:32	60	3214	4	62	1	1054	1816
15:52:32	60	3217	3	62	0	1054	1819
15:53:32	60	3219	2	62	0	1037	1819
15:54:32	60	3222	3	61	-1	1054	1822
15:55:32	60	3224	2	62	1	1054	1825
15:56:32	60	3227	3	61	-1	1025	1825
15:57:32	60	3229	2	62	1	1054	1828
15:58:32	60	3231	2	61	-1	1054	1831
15:59:32	60	3234	3	59	-2	1054	1833
16: 0:32	60	3236	2	62	3	1054	1833
16: 1:32	60	3241	5	62	0	1083	1842
16: 2:32	60	3244	3	60	-2	1142	1848
16: 3:32	60	3246	2	61	1	1113	1851
16: 4:32	60	3251	5	60	-1	1142	1854
16: 5:32	60	3251	0	62	2	1142	1857
16: 6:32	60	3256	5	61	-1	1142	1860
16: 7:32	60	3258	2	60	-1	1142	1863
16: 8:32	60	3261	3	62	2	1142	1863
16: 9:32	60	3263	2	61	-1	1142	1869
16:10:32	60	3268	5	60	-1	1142	1872
16:11:32	60	3271	3	61	1	1142	1875
16:12:32	60	3271	0	60	-1	1142	1877
16:13:32	60	3275	4	60	0	1142	1877
16:14:32	60	3278	3	60	0	1142	1880
16:15:32	60	3280	2	59	-1	1142	1883
16:16:32	60	3280	0	60	1	1142	1886
16:17:32	60	3283	3	59	-1	1142	1889
16:18:32	60	3288	5	58	-1	1142	1889
16:19:32	60	3288	0	60	2	1142	1892
16:20:32	60	3290	2	60	0	1142	1892
16:21:32	60	3293	3	59	-1	1142	1895
16:22:32	60	3293	0	60	1	1142	1895
16:23:32	60	3295	2	61	1	1142	1901
16:24:32	60	3300	5	59	-2	1136	1904
16:25:32	60	3300	0	61	2	1122	1904
16:26:32	60	3302	2	61	0	1142	1907
16:27:32	60	3305	3	61	0	1142	1910

Holmes Wireline Service, Inc.  
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)
16:28:32	60	3307	2	61	0	1142	1913
16:29:32	60	3310	3	61	0	1127	1913
16:30:32	60	3310	0	60	-1	1133	1916
16:31:32	60	3283	-27	60	0	1069	1910
16:32:32	60	3266	-17	60	0	0	1845
16:33:32	60	3253	-13	60	0	0	1828
16:34:32	60	3244	-9	60	0	0	1819
16:35:32	60	3236	-8	62	2	0	1807
16:36:32	60	3224	-12	60	-2	0	1798
16:37:32	60	3217	-7	61	1	0	1790
16:38:32	60	3210	-7	61	0	0	1784
16:39:32	60	3202	-8	60	-1	0	1775
16:40:32	60	3195	-7	62	2	0	1769
16:41:32	60	3188	-7	62	0	0	1760
16:42:32	60	3180	-8	61	-1	0	1754
16:43:32	60	3173	-7	62	1	0	1746
16:44:32	60	3168	-5	61	-1	0	1740
16:45:32	60	3163	-5	61	0	0	1734
16:46:32	60	3156	-7	62	1	0	1725
16:47:32	60	3151	-5	62	0	0	1722
16:48:32	60	3144	-7	63	1	0	1716

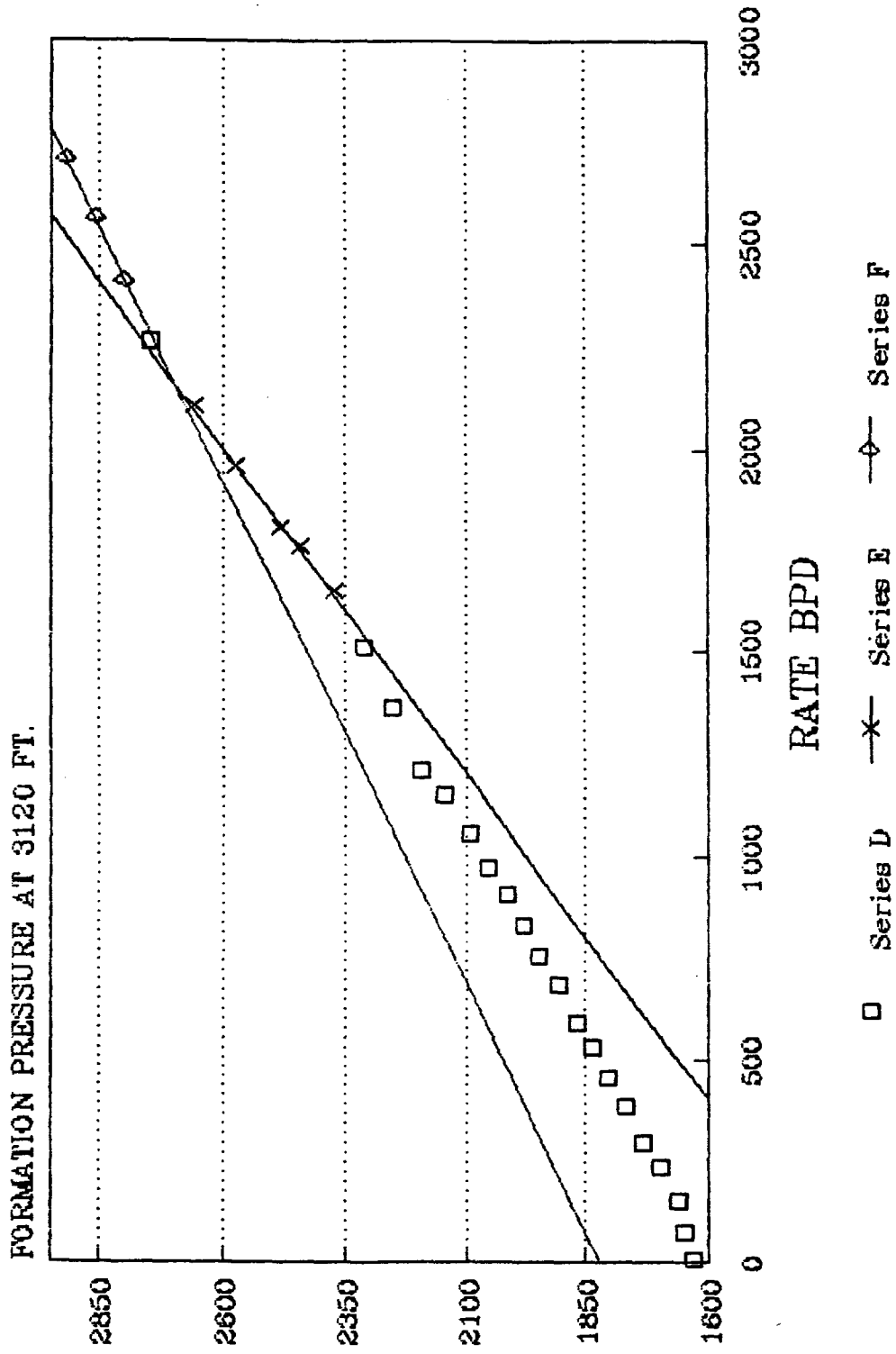
# SOCORRO: WEST "B" # 15



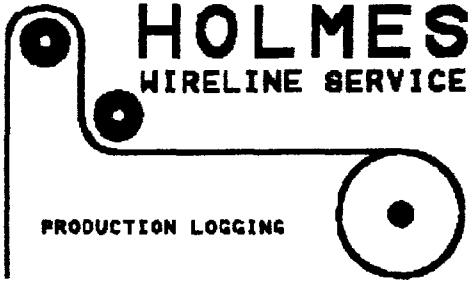
HOLMES: FRICTION PRESS. HIDES FRACTURE



# SOCORRO: WEST "B" # 15



HOLMES FRACTURE @ 2160 BPD WITH 2694 PSI



# Digital Data Acquisition System

COMPANY.....:SOCORRO  
WELL NAME/#...:WEST B # 15  
FIELD.....:N/A  
COUNTY.....:LEA STATE...:NEW MEXICO FILE NAME...:soc15.log  
LOCATION.....:N/A  
BLOCK.....:N/A SECTION...:N/A  
PERM. DAT.....:GROUND LEVEL ELEV.....:N/A L.M.F.:N/A

.....  
DATE.....: 2/22/1990  
TYPE SURVEY...:STEP RATE, RECORDED 3120'  
DEPTH DRILLER.:N/A DEPTH LOGGER.:3120'

WELL STATUS...:INJECTION  
HOLE FLUID....:WATER  
INJ. RATE.....:0 - 2700 BPD  
PROD: OIL bpd.:- WATER bpd...:- GAS mcf.:-  
MAX. REC. TEMP:-

PRESS: TUBING.:164 - 2235 PSI CASING.....:0 PSI  
CASING SIZE...:N/A DEPTH.....:N/A  
TUBING SIZE...:2 3/8" F.G. DEPTH.....:APPROX 3137.  
PACKER @.....:SAME TUBING TAIL:-  
TRUCK NO.....:T-106 TOOL SIZE...:1 1/2" TOOL NO.:SIE PSI

RECORDED BY...:MONTY HOLMES  
WITNESSED BY...:WADE WIGHT, JOHN GOULD, OCD  
ENGINEER.....:JOHN GOULD

.....  
PERFORATIONS...:N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A

HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

B.H. PRESSURES RECORDED AT 3120', UNABLE TO GET THRU PACKER AT 3137'.

RATE	SURF.PSI	B.H.PSI
0	164	1630
75	322	1645
150	352	1659
230	381	1674
292	422	1728
380	463	1764
450	510	1801
525	557	1833
585	595	1864
675	645	1904
750	694	1943
825	744	1977
900	803	2013
966	861	2053
1050	891	2090
1140	979	2145
1200	1037	2192
1350	1122	2250
1500	1251	2309
1640	1354	2372
1750	1427	2441
1800	1485	2482
18:10	SHUT DOWN TO PUT PUMP TRUCK IN LINE.	
18:17 1800	1490	2487
1950	1615	2575
2100	1730	2658
2250	1860	2746
2400	INVALID	2797
2550	2092	2858
2700	2235	2919
15 MIN FALL-OFF		2570

END TESTSD. THANKS.

## HOLMES WIRELINE SERVICE, INC.

## Volume Data

\* (last record = total volume)

Date	Time	Volume
2/22/1990	10:15: 8	3.6614824 bbl
2/22/1990	10:40: 4	3.9887330 bbl
2/22/1990	11: 5:29	5.1630743 bbl
2/22/1990	11:55: 4	14.2530314 bbl
2/22/1990	12:20:29	9.1968113 bbl
2/22/1990	12:47: 1	10.8927070 bbl
2/22/1990	13:10: 4	10.7506307 bbl
2/22/1990	13:35:12	13.2105509 bbl
2/22/1990	14: 0: 1	14.1257731 bbl
2/22/1990	14:25: 9	15.7838270 bbl
2/22/1990	14:50:55	17.3308987 bbl
2/22/1990	15:40:17	37.4136692 bbl
2/22/1990	16: 6:26	21.7273288 bbl
2/22/1990	16:30: 5	21.9836087 bbl
2/22/1990	16:55: 3	25.7951864 bbl
2/22/1990	17:20:17	28.2614136 bbl
2/22/1990	17:45:40	30.8403524 bbl
2/22/1990	18:30:12	50.8190918 bbl
2/22/1990	18:55: 5	33.8996039 bbl
2/22/1990	19:19:55	36.1987305 bbl
2/22/1990	19:48:34	45.1526218 bbl
2/22/1990	20:12:10	39.7103543 bbl
2/22/1990	20:35: 1	40.7534112 bbl
2/22/1990	21:12:15	49.1024470 bbl
2/22/1990	21:15:23	0.0000000 bbl
99/99/ 99	99:99:99	580.0153393 bbl

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
9:21:45	0	1632	0	90	0	0	169
9:21:55	10	1632	0	91	1	0	169
9:22: 0	5	1630	-2	91	0	0	169
9:22: 5	5	1630	0	90	-1	0	169
9:22:10	5	1632	2	88	-2	0	166
9:22:15	5	1632	0	86	-2	0	166
9:22:20	5	1632	0	90	4	0	169
9:22:25	5	1630	-2	90	0	0	166
9:22:30	5	1630	0	92	2	0	166
9:22:35	5	1630	0	92	0	0	166
9:22:40	5	1630	0	89	-3	0	166
9:22:45	5	1630	0	89	0	0	166
9:22:50	5	1632	2	88	-1	0	166
9:22:55	5	1630	-2	92	4	0	166
9:23: 0	5	1630	0	88	-4	0	166
9:23: 5	5	1630	0	88	0	0	166
9:23:10	5	1630	0	93	5	0	164
9:23:15	5	1630	0	88	-5	0	164
9:23:20	5	1630	0	90	2	0	164
9:23:25	5	1630	0	89	-1	0	164
9:23:30	5	1632	2	92	3	0	166
9:23:35	5	1632	0	88	-4	0	166
9:23:40	5	1630	-2	90	2	0	166
9:23:45	5	1632	2	87	-3	0	166
9:23:50	5	1630	-2	93	6	0	164
9:23:55	5	1630	0	90	-3	0	164
9:24: 0	5	1630	0	88	-2	0	164
9:24: 5	5	1630	0	86	-2	0	164
9:24:10	5	1632	2	90	4	0	164
9:24:15	5	1632	0	93	3	0	164
9:24:20	5	1630	-2	87	-6	0	164
9:24:25	5	1630	0	90	3	0	164
9:24:30	5	1630	0	86	-4	0	164
9:24:35	5	1630	0	91	5	0	164
9:24:40	5	1630	0	88	-3	0	164
9:24:45	5	1630	0	88	0	0	161
9:24:50	5	1630	0	86	-2	0	164
9:24:55	5	1630	0	92	6	0	164
9:25: 0	5	1630	0	89	-3	0	164
9:25: 5	5	1630	0	90	1	0	164
9:25:10	5	1630	0	89	-1	0	161
9:25:15	5	1630	0	90	1	0	161
9:25:20	5	1630	0	87	-3	0	161
9:25:25	5	1630	0	91	4	16	164
9:25:30	5	1627	-3	88	-3	0	178
9:25:35	5	1630	3	92	4	0	199
9:25:40	5	1630	0	92	0	0	213
9:25:45	5	1630	0	89	-3	0	228
9:25:50	5	1630	0	88	-1	0	246
9:25:55	5	1630	0	93	5	0	260
9:26: 0	5	1630	0	89	-4	0	275
9:26: 5	5	1630	0	89	0	0	310
9:26:10	5	1630	0	89	0	0	307
9:26:15	5	1630	0	91	2	0	307
9:26:20	5	1630	0	87	-4	0	307
9:26:25	5	1630	0	89	2	0	307

## 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)
9:26:30	5	1632	2	91	2	0	310
9:26:35	5	1632	0	91	0	27	307
9:26:40	5	1632	0	88	-3	67	313
9:26:45	5	1632	0	91	3	62	310
9:26:50	5	1632	0	92	1	62	310
9:26:55	5	1632	0	92	0	60	310
9:27: 0	5	1632	0	91	-1	0	310
9:27: 5	5	1632	0	88	-3	0	307
9:27:10	5	1632	0	91	3	0	310
9:27:15	5	1632	0	91	0	0	310
9:27:20	5	1632	0	88	-3	0	310
9:27:25	5	1632	0	89	1	0	310
9:27:30	5	1632	0	92	3	0	310
9:27:35	5	1632	0	88	-4	0	310
9:27:40	5	1632	0	87	-1	0	310
9:27:45	5	1632	0	88	1	0	310
9:27:50	5	1632	0	89	1	0	310
9:27:55	5	1630	-2	93	4	0	310
9:28: 0	5	1630	0	91	-2	0	310
9:28: 5	5	1630	0	91	0	0	307
9:28:10	5	1630	0	91	0	0	307
9:28:15	5	1630	0	91	0	0	307
9:28:20	5	1632	2	91	0	0	310
9:28:25	5	1630	-2	93	2	0	307
9:28:30	5	1632	2	93	0	0	310
9:28:35	5	1634	2	88	-5	165	313
9:28:40	5	1637	3	91	3	148	319
9:28:45	5	1637	0	88	-3	133	316
9:28:50	5	1637	0	87	-1	95	316
9:28:55	5	1634	-3	89	2	93	316
9:29: 0	5	1637	3	90	1	77	316
9:29: 5	5	1637	0	92	2	72	316
9:29:10	5	1637	0	90	-2	70	316
9:29:15	5	1637	0	92	2	70	316
9:29:20	5	1637	0	90	-2	70	316
9:29:25	5	1637	0	90	0	70	316
9:29:30	5	1637	0	88	-2	70	316
9:29:35	5	1637	0	89	1	70	316
9:29:40	5	1637	0	90	1	90	319
9:29:45	5	1637	0	89	-1	88	316
9:29:50	5	1637	0	91	2	77	316
9:29:55	5	1637	0	91	0	77	316
9:30: 0	5	1637	0	93	2	77	316
9:30: 5	5	1637	0	90	-3	76	316
9:30:10	5	1637	0	91	1	75	316
9:30:15	5	1639	2	87	-4	75	316
9:30:20	5	1639	0	89	2	75	319
9:30:25	5	1639	0	89	0	72	316
9:30:30	5	1637	-2	88	-1	72	316
9:30:35	5	1639	2	92	4	72	316
9:30:40	5	1639	0	88	-4	74	319
9:30:45	5	1637	-2	89	1	73	316
9:30:50	5	1639	2	91	2	73	316
9:30:55	5	1639	0	90	-1	74	319
9:31: 0	5	1639	0	89	-1	73	316
9:31: 5	5	1639	0	90	1	75	319

Holmes Wireline Service, Inc.  
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)
9:31:10	5	1639	0	91	1	74	319
9:31:15	5	1639	0	92	1	75	316
9:31:20	5	1639	0	93	1	73	319
9:31:25	5	1639	0	91	-2	73	319
9:31:30	5	1642	3	91	0	74	316
9:31:35	5	1639	-3	93	2	72	322
9:31:40	5	1639	0	90	-3	72	322
9:31:45	5	1639	0	92	2	72	319
9:31:50	5	1642	3	93	1	72	319
9:31:55	5	1639	-3	88	-5	72	319
9:32: 0	5	1642	3	88	0	72	319
9:32: 5	5	1642	0	89	1	72	319
9:32:10	5	1642	0	91	2	72	319
9:32:15	5	1642	0	88	-3	72	319
9:32:20	5	1642	0	89	1	72	319
9:32:25	5	1642	0	87	-2	72	319
9:32:30	5	1642	0	91	4	72	319
9:32:35	5	1639	-3	89	-2	72	319
9:32:40	5	1642	3	90	1	75	319
9:32:45	5	1642	0	90	0	73	319
9:32:50	5	1642	0	86	-4	75	319
9:33:52	62	1644	2	91	5	75	319
9:34:52	60	1644	0	89	-2	74	322
9:35:52	60	1644	0	91	2	73	322
9:36:52	60	1644	0	90	-1	72	322
9:37:52	60	1644	0	88	-2	72	322
9:38:52	60	1644	0	86	-2	74	325
9:39:52	60	1644	0	90	4	74	325
9:40:52	60	1644	0	89	-1	75	325
9:41:53	61	1644	0	87	-2	75	322
9:42:53	60	1644	0	87	0	75	325
9:43:53	60	1644	0	91	4	72	322
9:44:53	60	1644	0	91	0	72	322
9:45:53	60	1644	0	89	-2	72	325
9:46:53	60	1644	0	89	0	72	322
9:47:53	60	1644	0	90	1	72	325
9:48:53	60	1642	-2	92	2	72	322
9:49:53	60	1642	0	87	-5	72	322
9:50:53	60	1642	0	87	0	72	322
9:51:53	60	1649	7	88	1	118	325
9:52:57	64	1649	0	87	-1	147	333
9:53:59	62	1654	5	92	5	146	333
9:54:59	60	1652	-2	89	-3	147	336
9:55:59	60	1654	2	91	2	146	336
9:56:59	60	1654	0	89	-2	147	339
9:57:59	60	1656	2	89	0	146	339
9:58:59	60	1656	0	91	2	145	339
9:59:59	60	1656	0	89	-2	148	342
10: 0:59	60	1656	0	87	-2	148	342
10: 1:59	60	1659	3	87	0	148	342
10: 2:59	60	1659	0	86	-1	148	342
10: 3:59	60	1656	-3	89	3	148	342
10: 4:59	60	1656	0	89	0	148	345
10: 5:59	60	1656	0	89	0	148	345
10: 6:59	60	1656	0	85	-4	148	348
10: 7:59	60	1659	3	87	2	148	348

## 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)
10: 8:59	60	1659	0	85	-2	148	351
10: 9:59	60	1656	-3	89	4	148	348
10:10:59	60	1659	3	84	-5	148	351
10:11:59	60	1659	0	90	6	148	351
10:12:59	60	1659	0	86	-4	148	351
10:13:59	60	1659	0	86	0	148	354
10:14:59	60	1659	0	87	1	147	354
10:16: 0	61	1661	2	90	3	148	351
10:17: 0	60	1661	0	91	1	226	357
10:18: 0	60	1669	8	89	-2	233	360
10:19: 0	60	1671	2	88	-1	233	363
10:20: 0	60	1671	0	86	-2	234	366
10:21: 0	60	1676	5	83	-3	233	366
10:22: 0	60	1676	0	88	5	234	372
10:23: 0	60	1678	2	89	1	233	372
10:24: 0	60	1681	3	85	-4	233	372
10:25: 0	60	1681	0	86	1	233	372
10:26: 0	60	1683	2	86	0	233	372
10:27: 0	60	1683	0	86	0	233	375
10:28: 0	60	1686	3	88	2	233	375
10:29: 0	60	1686	0	86	-2	231	375
10:30: 0	60	1686	0	86	0	231	375
10:31: 0	60	1688	2	85	-1	231	377
10:32: 0	60	1688	0	87	2	231	377
10:33: 0	60	1688	0	86	-1	231	377
10:34: 0	60	1688	0	87	1	231	377
10:35: 0	60	1691	3	87	0	231	380
10:36: 0	60	1691	0	83	-4	231	380
10:37: 0	60	1691	0	90	7	231	380
10:38: 0	60	1693	2	86	-4	231	380
10:39: 0	60	1691	-2	86	0	231	380
10:40: 0	60	1693	2	85	-1	231	380
10:41: 0	60	1698	5	87	2	231	380
10:42: 0	60	1700	2	88	1	309	392
10:43: 0	60	1703	3	85	-3	292	395
10:44: 0	60	1708	5	86	1	310	398
10:45: 0	60	1710	2	87	1	292	404
10:46: 0	60	1710	0	86	-1	292	401
10:47: 0	60	1710	0	84	-2	292	404
10:48: 0	60	1713	3	84	0	292	407
10:49: 0	60	1715	2	87	3	292	407
10:50: 0	60	1715	0	83	-4	292	407
10:51: 0	60	1717	2	87	4	292	407
10:52: 0	60	1717	0	82	-5	292	410
10:53: 0	60	1720	3	84	2	292	413
10:54: 0	60	1720	0	83	-1	292	413
10:55: 0	60	1722	2	88	5	292	413
10:56: 0	60	1722	0	88	0	292	413
10:57: 0	60	1722	0	81	-7	292	416
10:58: 0	60	1720	-2	86	5	292	413
10:59: 0	60	1722	2	86	0	292	416
11: 0: 0	60	1725	3	86	0	292	416
11: 1: 0	60	1725	0	86	0	292	416
11: 2: 0	60	1725	0	85	-1	292	418
11: 3: 0	60	1727	2	86	1	292	418
11: 4: 0	60	1725	-2	87	1	292	418



Holmes Wireline Service, Inc.  
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: 5: 0	60	1725	0	85	-2	292	418
11: 6: 0	60	1727	2	84	-1	292	418
11: 7: 7	67	1735	8	85	1	372	430
11: 8: 7	60	1737	2	85	0	351	430
11: 9: 7	60	1739	2	84	-1	380	436
11:10: 7	60	1742	3	84	0	380	436
11:11: 7	60	1744	2	85	1	380	442
11:12: 7	60	1744	0	83	-2	380	436
11:13: 7	60	1744	0	84	1	380	442
11:14: 7	60	1749	5	81	-3	380	445
11:15: 7	60	1749	0	85	4	380	445
11:16: 7	60	1749	0	81	-4	380	448
11:17: 7	60	1749	0	85	4	380	448
11:18: 7	60	1752	3	80	-5	380	451
11:19: 7	60	1754	2	80	0	380	451
11:20: 7	60	1754	0	85	5	380	451
11:21: 7	60	1757	3	78	-7	354	451
11:22: 7	60	1757	0	87	9	380	454
11:23: 7	60	1757	0	89	2	380	454
11:24: 7	60	1759	2	88	-1	380	454
11:25: 7	60	1759	0	89	1	380	457
11:26: 7	60	1759	0	88	-1	380	457
11:27: 7	60	1759	0	83	-5	380	457
11:28: 7	60	1764	5	83	0	380	459
11:29: 7	60	1761	-3	86	3	377	457
11:30: 7	60	1761	0	81	-5	380	459
11:31: 7	60	1766	5	83	2	375	462
11:32: 7	60	1769	3	82	-1	439	471
11:33: 7	60	1774	5	82	0	439	474
11:34: 7	60	1776	2	83	1	468	480
11:35: 7	60	1778	2	85	2	468	483
11:36: 7	60	1781	3	86	1	468	486
11:37: 7	60	1781	0	81	-5	468	489
11:38: 7	60	1783	2	83	2	468	489
11:39: 7	60	1786	3	85	2	468	489
11:40: 7	60	1786	0	81	-4	468	492
11:41: 7	60	1788	2	82	1	457	495
11:42: 7	60	1788	0	82	0	468	495
11:43: 7	60	1788	0	81	-1	468	495
11:44: 7	60	1791	3	83	2	468	498
11:45: 7	60	1791	0	84	1	451	500
11:46: 7	60	1793	2	83	-1	454	500
11:47: 7	60	1793	0	82	-1	445	500
11:48: 7	60	1793	0	82	0	451	503
11:49: 7	60	1793	0	79	-3	439	503
11:50: 7	60	1796	3	82	3	448	503
11:51: 7	60	1796	0	82	0	445	506
11:52: 7	60	1798	2	80	-2	439	506
11:53: 7	60	1798	0	83	3	439	506
11:54: 7	60	1798	0	84	1	439	509
11:55: 7	60	1800	2	84	0	439	509
11:56: 7	60	1805	5	83	-1	439	509
11:57: 7	60	1808	3	82	-1	498	521
11:58: 7	60	1808	0	81	-1	498	524
11:59: 7	60	1808	0	82	1	498	524
12: 0: 7	60	1813	5	82	0	498	527

## 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: 1: 7	60	1815	2	81	-1	527	533
12: 2: 7	60	1818	3	81	0	527	530
12: 3: 7	60	1818	0	82	1	527	533
12: 4: 7	60	1820	2	82	0	527	536
12: 5: 7	60	1820	0	83	1	527	539
12: 6: 7	60	1822	2	83	0	527	539
12: 7: 7	60	1822	0	80	-3	498	539
12: 8: 7	60	1822	0	83	3	527	541
12: 9: 7	60	1825	3	81	-2	527	544
12:10: 7	60	1827	2	83	2	527	547
12:11: 7	60	1827	0	80	-3	527	550
12:12: 7	60	1827	0	82	2	527	550
12:13: 7	60	1827	0	83	1	527	550
12:14: 7	60	1827	0	82	-1	527	550
12:15: 7	60	1830	3	85	3	527	550
12:16: 7	60	1830	0	79	-6	527	553
12:17: 7	60	1830	0	82	3	527	550
12:18: 7	60	1830	0	81	-1	527	553
12:19: 7	60	1832	2	78	-3	527	553
12:20: 7	60	1832	0	82	4	527	556
12:21: 7	60	1842	10	83	1	527	559
12:22: 7	60	1844	2	78	-5	556	559
12:23: 7	60	1844	0	81	3	647	574
12:24: 7	60	1844	0	79	-2	644	580
12:25: 7	60	1844	0	80	1	585	574
12:26: 7	60	1844	0	81	1	585	577
12:27: 7	60	1847	3	78	-3	585	577
12:28: 7	60	1849	2	84	6	585	577
12:29: 7	60	1852	3	78	-6	585	577
12:30: 7	60	1852	0	82	4	585	580
12:31: 7	60	1852	0	81	-1	585	583
12:32: 7	60	1854	2	79	-2	585	583
12:33: 7	60	1854	0	80	1	585	585
12:34: 7	60	1854	0	82	2	585	585
12:35: 7	60	1857	3	81	-1	585	585
12:36: 7	60	1857	0	83	2	585	585
12:37: 7	60	1857	0	76	-7	585	585
12:38: 7	60	1857	0	77	1	585	588
12:39: 7	60	1862	5	80	3	585	591
12:40: 7	60	1859	-3	81	1	585	588
12:41: 7	60	1862	3	85	4	585	591
12:42: 7	60	1864	2	82	-3	585	591
12:43: 7	60	1864	0	83	1	585	594
12:44: 7	60	1864	0	76	-7	556	591
12:45: 7	60	1864	0	77	1	556	591
12:46: 7	60	1871	7	78	1	556	591
12:47: 7	60	1876	5	80	2	673	612
12:48: 7	60	1879	3	78	-2	673	615
12:49: 7	60	1879	0	82	4	673	621
12:50: 7	60	1881	2	80	-2	673	618
12:51: 7	60	1884	3	83	3	673	621
12:52: 7	60	1886	2	79	-4	673	621
12:53: 7	60	1886	0	83	4	644	624
12:54: 7	60	1888	2	79	-4	673	626
12:55: 7	60	1891	3	80	1	673	626
12:56: 7	60	1893	2	76	-4	673	629

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:57: 7	60	1893	0	81	5	673	632
12:58: 7	60	1893	0	80	-1	673	632
12:59: 7	60	1896	3	79	-1	673	632
13: 0: 7	60	1896	0	79	0	673	632
13: 1: 7	60	1898	2	80	1	673	632
13: 2: 7	60	1898	0	79	-1	673	635
13: 3: 7	60	1898	0	79	0	673	635
13: 4: 7	60	1898	0	81	2	673	638
13: 5: 7	60	1898	0	77	-4	644	635
13: 6: 7	60	1901	3	80	3	644	635
13: 7: 7	60	1901	0	79	-1	673	638
13: 8: 7	60	1903	2	82	3	673	641
13: 9: 7	60	1903	0	81	-1	673	644
13:10: 7	60	1905	2	81	0	673	644
13:11: 7	60	1910	5	79	-2	673	644
13:12: 7	60	1913	3	81	2	761	662
13:13: 7	60	1915	2	82	1	761	665
13:14: 7	60	1918	3	80	-2	761	667
13:15: 7	60	1920	2	77	-3	761	670
13:16: 7	60	1920	0	81	4	750	670
13:17: 7	60	1923	3	79	-2	761	676
13:18: 7	60	1925	2	80	1	761	679
13:19: 7	60	1927	2	79	-1	761	679
13:20: 7	60	1927	0	78	-1	761	679
13:21: 7	60	1927	0	81	3	761	679
13:22: 7	60	1930	3	80	-1	761	679
13:23: 7	60	1930	0	78	-2	761	682
13:24: 7	60	1932	2	81	3	761	682
13:25: 7	60	1935	3	77	-4	761	685
13:26: 7	60	1935	0	78	1	761	685
13:27: 7	60	1935	0	80	2	761	688
13:28: 7	60	1935	0	79	-1	761	688
13:29: 7	60	1937	2	79	0	755	685
13:30: 7	60	1940	3	76	-3	761	691
13:31: 7	60	1940	0	82	6	761	694
13:32: 7	60	1940	0	78	-4	761	691
13:33: 7	60	1940	0	81	3	761	691
13:34: 7	60	1942	2	79	-2	761	691
13:35: 7	60	1942	0	78	-1	755	694
13:36: 7	60	1947	5	80	2	735	694
13:37: 7	60	1949	2	78	-2	849	714
13:38: 7	60	1952	3	76	-2	820	714
13:39: 7	60	1954	2	78	2	820	714
13:40: 7	60	1954	0	79	1	820	717
13:41: 7	60	1957	3	75	-4	820	717
13:42: 7	60	1959	2	72	-3	820	720
13:43: 7	60	1959	0	81	9	820	720
13:44: 7	60	1962	3	80	-1	820	723
13:45: 7	60	1962	0	80	0	820	726
13:46: 7	60	1964	2	80	0	820	726
13:47: 7	60	1964	0	80	0	820	729
13:48: 7	60	1964	0	80	0	820	729
13:49: 7	60	1967	3	79	-1	820	732
13:50: 7	60	1969	2	80	1	820	735
13:51: 7	60	1967	-2	79	-1	820	738
13:52: 7	60	1969	2	78	-1	820	735

## 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)
13:53: 7	60	1971	2	78	0	820	735
13:54: 7	60	1969	-2	79	1	820	738
13:55: 7	60	1971	2	78	-1	820	738
13:56: 7	60	1971	0	76	-2	820	738
13:57: 7	60	1974	3	78	2	820	738
13:58: 7	60	1974	0	79	1	820	741
13:59: 7	60	1974	0	81	2	820	741
14: 0: 7	60	1976	2	77	-4	820	741
14: 1: 7	60	1979	3	77	0	820	741
14: 2: 7	60	1984	5	81	4	908	764
14: 3: 7	60	1986	2	77	-4	908	770
14: 4: 7	60	1989	3	79	2	908	776
14: 5: 7	60	1991	2	75	-4	908	776
14: 6: 7	60	1993	2	77	2	908	776
14: 7: 7	60	1993	0	79	2	908	779
14: 8: 7	60	1996	3	78	-1	908	779
14: 9: 7	60	1998	2	79	1	908	782
14:10: 7	60	1998	0	80	1	908	782
14:11: 7	60	2001	3	80	0	908	782
14:12: 7	60	2001	0	79	-1	908	782
14:13: 7	60	2001	0	79	0	908	788
14:14: 7	60	2003	2	79	0	908	791
14:15: 7	60	2003	0	75	-4	905	791
14:16: 7	60	2003	0	75	0	908	793
14:17: 7	60	2008	5	78	3	908	796
14:18: 7	60	2008	0	79	1	908	796
14:19: 7	60	2008	0	80	1	890	796
14:20: 7	60	2010	2	76	-4	902	796
14:21: 7	60	2010	0	83	7	887	796
14:22: 7	60	2010	0	77	-6	908	799
14:23: 7	60	2013	3	79	2	908	799
14:24: 7	60	2013	0	81	2	908	799
14:25: 7	60	2013	0	81	0	908	802
14:26: 7	60	2020	7	79	-2	908	802
14:27: 7	60	2023	3	80	1	966	820
14:28: 7	60	2023	0	79	-1	966	826
14:29: 7	60	2028	5	81	2	966	832
14:30: 7	60	2030	2	81	0	966	832
14:31: 7	60	2028	-2	82	1	966	832
14:32: 7	60	2030	2	65	-17	966	834
14:33: 7	60	2032	2	83	18	966	832
14:34: 7	60	2032	0	72	-11	966	837
14:35: 7	60	2037	5	76	4	966	837
14:36: 7	60	2037	0	80	4	966	837
14:37: 7	60	2037	0	80	0	966	843
14:38: 7	60	2040	3	80	0	966	843
14:39: 7	60	2040	0	75	-5	966	846
14:40: 7	60	2042	2	75	0	966	846
14:41: 7	60	2042	0	73	-2	966	852
14:42: 7	60	2042	0	78	5	966	852
14:43: 7	60	2045	3	74	-4	966	855
14:44: 7	60	2047	2	80	6	966	855
14:45: 7	60	2050	3	77	-3	966	858
14:46: 7	60	2050	0	75	-2	966	858
14:47: 7	60	2050	0	79	4	966	858
14:48: 7	60	2050	0	76	-3	966	858

NOVEMBER WIRELINE SERVICE, INC.  
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)
14:49: 7	60	2052	2	81	5	966	858
14:50: 7	60	2052	0	80	-1	966	861
14:51: 7	60	2057	5	77	-3	966	861
14:52: 7	60	2062	5	77	0	1054	884
14:53: 7	60	2064	2	79	2	1054	890
14:54: 7	60	2067	3	78	-1	1054	890
14:55: 7	60	2067	0	78	0	1054	890
14:56: 7	60	2069	2	77	-1	1054	890
14:57: 7	60	2069	0	78	1	1054	893
14:58: 7	60	2072	3	76	-2	1054	893
14:59: 7	60	2072	0	79	3	1051	893
15: 0: 7	60	2076	4	78	-1	1045	893
15: 1: 7	60	2076	0	77	-1	1042	896
15: 2: 7	60	2079	3	77	0	1034	896
15: 3: 7	60	2079	0	79	2	1045	896
15: 4: 7	60	2081	2	77	-2	1045	899
15: 5: 7	60	2081	0	77	0	1028	902
15: 6: 7	60	2084	3	79	2	1025	902
15: 7: 7	60	2084	0	79	0	1025	902
15: 8: 7	60	2084	0	77	-2	1025	899
15: 9: 7	60	2084	0	80	3	1025	902
15:10: 7	60	2086	2	74	-6	1025	905
15:11: 7	60	2089	3	80	6	1025	911
15:12: 7	60	2091	2	77	-3	1054	914
15:13: 7	60	2091	0	77	0	1054	914
15:14: 7	60	2094	3	78	1	1054	914
15:15: 7	60	2091	-3	76	-2	1054	916
15:16: 7	60	2098	7	78	2	1054	916
15:17: 7	60	2101	3	74	-4	1054	922
15:18: 7	60	2101	0	75	1	1113	937
15:19: 7	60	2106	5	77	2	1113	940
15:20: 7	60	2111	5	77	0	1142	952
15:21: 7	60	2111	0	80	3	1142	955
15:22: 7	60	2113	2	74	-6	1142	952
15:23: 7	60	2115	2	75	1	1142	958
15:24: 7	60	2118	3	79	4	1142	960
15:25: 7	60	2118	0	78	-1	1142	960
15:26: 7	60	2120	2	75	-3	1142	963
15:27: 7	60	2123	3	79	4	1142	963
15:28: 7	60	2125	2	78	-1	1142	963
15:29: 7	60	2128	3	79	1	1142	963
15:30: 7	60	2128	0	78	-1	1142	966
15:31: 7	60	2130	2	79	1	1142	969
15:32: 7	60	2130	0	78	-1	1142	969
15:33: 7	60	2133	3	79	1	1142	972
15:34: 7	60	2135	2	75	-4	1142	972
15:35: 7	60	2135	0	76	1	1139	972
15:36: 7	60	2137	2	77	1	1142	972
15:37: 7	60	2140	3	78	1	1133	975
15:38: 7	60	2142	2	76	-2	1142	975
15:39: 7	60	2142	0	79	3	1142	975
15:40: 7	60	2145	3	81	2	1130	978
15:41: 7	60	2150	5	79	-2	1119	978
15:42: 7	60	2152	2	77	-2	1201	999
15:43: 7	60	2155	3	77	0	1201	1001
15:44: 7	60	2155	0	78	1	1171	1001

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:45: 7	60	2157	2	82	4	1171	1001
15:46: 7	60	2159	2	76	-6	1171	1004
15:47: 7	60	2162	3	75	-1	1171	1004
15:48: 7	60	2164	2	76	1	1201	1013
15:49: 7	60	2167	3	78	2	1201	1013
15:50: 7	60	2169	2	76	-2	1189	1013
15:51: 7	60	2169	0	74	-2	1201	1016
15:52: 7	60	2169	0	79	5	1180	1013
15:53: 7	60	2172	3	79	0	1171	1016
15:54: 7	60	2177	5	75	-4	1171	1019
15:55: 7	60	2179	2	76	1	1201	1025
15:56: 7	60	2179	0	75	-1	1201	1025
15:57: 7	60	2179	0	81	6	1201	1028
15:58: 7	60	2184	5	76	-5	1201	1025
15:59: 7	60	2184	0	75	-1	1201	1028
16: 0: 7	60	2186	2	78	3	1201	1031
16: 1: 7	60	2186	0	78	0	1201	1031
16: 2: 7	60	2189	3	79	1	1201	1034
16: 3: 7	60	2189	0	78	-1	1201	1031
16: 4: 7	60	2189	0	76	-2	1201	1034
16: 5: 7	60	2191	2	75	-1	1201	1037
16: 6: 7	60	2196	5	78	3	1201	1037
16: 7: 7	60	2203	7	77	-1	1318	1075
16: 8: 7	60	2208	5	79	2	1318	1078
16: 9: 7	60	2208	0	78	-1	1318	1078
16:10: 7	60	2213	5	76	-2	1318	1081
16:11: 7	60	2218	5	74	-2	1318	1081
16:12: 7	60	2218	0	81	7	1318	1081
16:13: 7	60	2223	5	79	-2	1300	1086
16:14: 7	60	2225	2	78	-1	1347	1098
16:15: 7	60	2228	3	78	0	1347	1101
16:16: 7	60	2230	2	78	0	1347	1101
16:17: 7	60	2233	3	79	1	1347	1104
16:18: 7	60	2235	2	79	0	1347	1104
16:19: 7	60	2238	3	77	-2	1347	1104
16:20: 7	60	2240	2	79	2	1344	1107
16:21: 7	60	2240	0	78	-1	1347	1107
16:22: 7	60	2240	0	80	2	1347	1113
16:23: 7	60	2242	2	78	-2	1347	1113
16:24: 7	60	2245	3	77	-1	1338	1113
16:25: 7	60	2245	0	78	1	1347	1116
16:26: 7	60	2245	0	72	-6	1347	1119
16:27: 7	60	2247	2	79	7	1347	1119
16:28: 7	60	2250	3	78	-1	1347	1119
16:29: 7	60	2250	0	76	-2	1347	1125
16:30: 7	60	2252	2	76	0	1347	1125
16:31: 7	60	2257	5	78	2	1347	1125
16:32: 7	60	2262	5	76	-2	1494	1174
16:33: 7	60	2264	2	74	-2	1494	1171
16:34: 7	60	2269	5	77	3	1494	1177
16:35: 7	60	2269	0	75	-2	1494	1177
16:36: 7	60	2272	3	74	-1	1464	1177
16:37: 7	60	2274	2	78	4	1464	1177
16:38: 7	60	2277	3	76	-2	1464	1180
16:39: 7	60	2279	2	79	3	1464	1192
16:40: 7	60	2284	5	77	-2	1464	1195

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
16:41: 7	60	2286	2	79	2	1523	1209
16:42: 7	60	2289	3	81	2	1523	1215
16:43: 7	60	2294	5	81	0	1523	1218
16:44: 7	60	2296	2	78	-3	1494	1224
16:45: 7	60	2296	0	74	-4	1494	1221
16:46: 7	60	2301	5	73	-1	1494	1227
16:47: 7	60	2301	0	78	5	1494	1230
16:48: 7	60	2301	0	78	0	1494	1233
16:49: 7	60	2304	3	79	1	1494	1233
16:50: 7	60	2304	0	77	-2	1494	1239
16:51: 7	60	2306	2	74	-3	1494	1239
16:52: 7	60	2308	2	76	2	1494	1239
16:53: 7	60	2308	0	74	-2	1494	1242
16:54: 7	60	2308	0	79	5	1494	1245
16:55: 7	60	2311	3	82	3	1476	1248
16:56: 7	60	2318	7	74	-8	1494	1250
16:57: 7	60	2318	0	79	5	1640	1300
16:58: 7	60	2321	3	79	0	1552	1283
16:59: 7	60	2328	7	78	-1	1552	1283
17: 0: 7	60	2330	2	74	-4	1640	1312
17: 1: 7	60	2333	3	75	1	1643	1318
17: 2: 7	60	2335	2	77	2	1640	1324
17: 3: 7	60	2338	3	75	-2	1640	1321
17: 4: 7	60	2340	2	79	4	1640	1324
17: 5: 7	60	2343	3	78	-1	1640	1324
17: 6: 7	60	2345	2	78	0	1640	1324
17: 7: 7	60	2347	2	78	0	1640	1324
17: 8: 7	60	2350	3	75	-3	1640	1327
17: 9:25	78	2350	0	77	2	1640	1330
17:10:25	60	2352	2	76	-1	1631	1330
17:11:25	60	2355	3	74	-2	1640	1335
17:12:25	60	2355	0	76	2	1611	1335
17:13:25	60	2360	5	76	0	1611	1335
17:14:25	60	2362	2	80	4	1640	1338
17:15:25	60	2362	0	77	-3	1669	1347
17:16:25	60	2365	3	78	1	1640	1338
17:17:25	60	2367	2	79	1	1640	1344
17:18:25	60	2369	2	80	1	1640	1350
17:19:25	60	2372	3	78	-2	1640	1347
17:20:25	60	2372	0	77	-1	1640	1350
17:21:25	60	2382	10	77	0	1640	1353
17:22:25	60	2384	2	76	-1	1787	1400
17:23:25	60	2384	0	76	0	1734	1394
17:24:25	60	2389	5	77	1	1728	1385
17:25:25	60	2391	2	79	2	1757	1400
17:26:25	60	2394	3	77	-2	1731	1394
17:27:25	60	2399	5	76	-1	1728	1394
17:28:25	60	2404	5	78	2	1728	1388
17:29:25	60	2406	2	75	-3	1757	1397
17:30:25	60	2406	0	76	1	1757	1394
17:31:25	60	2409	3	82	6	1757	1394
17:32:25	60	2411	2	81	-1	1757	1391
17:33:25	60	2413	2	74	-7	1757	1394
17:34:25	60	2416	3	79	5	1757	1394
17:35:25	60	2416	0	79	0	1754	1394
17:36:25	60	2421	5	80	1	1728	1394

## 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)
17:37:25	60	2423	2	75	-5	1766	1406
17:38:25	60	2426	3	78	3	1757	1406
17:39:25	60	2426	0	74	-4	1757	1412
17:40:25	60	2431	5	81	7	1757	1409
17:41:25	60	2433	2	79	-2	1757	1415
17:42:25	60	2431	-2	80	1	1757	1415
17:43:25	60	2435	4	77	-3	1757	1415
17:44:25	60	2435	0	78	1	1757	1420
17:45:25	60	2438	3	79	1	1757	1423
17:46:25	60	2443	5	75	-4	1757	1429
17:47:25	60	2448	5	76	1	1875	1464
17:48:25	60	2450	2	77	1	1816	1456
17:49:25	60	2450	0	74	-3	1816	1453
17:50:25	60	2455	5	74	0	1790	1456
17:51:25	60	2455	0	78	4	1787	1458
17:52:25	60	2455	0	77	-1	1845	1476
17:53:25	60	2457	2	78	1	1816	1476
17:54:25	60	2462	5	77	-1	1816	1479
17:55:25	60	2462	0	76	-1	1816	1479
17:56:25	60	2465	3	74	-2	1816	1476
17:57:25	60	2467	2	77	3	1816	1479
17:58:25	60	2470	3	80	3	1816	1479
17:59:25	60	2470	0	75	-5	1816	1479
18: 0:25	60	2472	2	78	3	1816	1479
18: 1:25	60	2474	2	76	-2	1804	1476
18: 2:25	60	2474	0	78	2	1787	1476
18: 3:25	60	2474	0	79	1	1787	1476
18: 4:25	60	2477	3	73	-6	1787	1479
18: 5:25	60	2479	2	78	5	1810	1482
18: 6:25	60	2479	0	78	0	1787	1482
18: 7:25	60	2479	0	77	-1	1787	1482
18: 8:25	60	2479	0	78	1	1787	1485
18: 9:25	60	2482	3	80	2	1787	1482
18:10:25	60	2482	0	77	-3	1787	1485
18:11:25	60	2482	0	76	-1	1787	1482
18:12:25	60	2409	-73	73	-3	1787	1488
18:13:25	60	2367	-42	79	6	0	360
18:14:25	60	2340	-27	79	0	0	278
18:15:25	60	2316	-24	75	-4	0	249
18:16:25	60	2323	7	78	3	0	234
18:17:25	60	2377	54	78	0	169	946
18:18:25	60	2401	24	79	1	1810	1341
18:19:25	60	2421	20	78	-1	1877	1417
18:20:25	60	2438	17	80	2	1980	1494
18:21:25	60	2455	17	76	-4	2068	1549
18:22:25	60	2450	-5	77	1	2085	1505
18:23:25	60	2457	7	81	4	1798	1479
18:24:25	60	2467	10	78	-3	1860	1453
18:25:25	60	2472	5	80	2	1857	1508
18:26:25	60	2479	7	74	-6	1945	1497
18:27:25	60	2482	3	79	5	2039	1570
18:28:25	60	2484	2	77	-2	1854	1497
18:29:25	60	2487	3	76	-1	1792	1458
18:30:25	60	2489	2	78	2	1798	1500
18:31:25	60	2499	10	74	-4	1798	1482
18:32:25	60	2506	7	74	0	1942	1541



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
18:33:25	60	2511	5	78	4	1977	1543
18:34:25	60	2514	3	77	-1	1980	1541
18:35:25	60	2518	4	76	-1	1974	1582
18:36:25	60	2523	5	74	-2	1986	1573
18:37:25	60	2526	3	77	3	2009	1579
18:38:25	60	2528	2	77	0	1933	1573
18:39:25	60	2531	3	76	-1	1942	1535
18:40:25	60	2536	5	78	2	1951	1570
18:41:25	60	2538	2	78	0	1945	1564
18:42:25	60	2540	2	79	1	1959	1582
18:43:25	60	2545	5	74	-5	1939	1558
18:44:25	60	2545	0	76	2	1968	1593
18:45:25	60	2550	5	71	-5	1971	1593
18:46:25	60	2553	3	78	7	1959	1582
18:47:25	60	2557	4	78	0	1992	1608
18:48:25	60	2557	0	77	-1	2012	1605
18:49:25	60	2565	8	76	-1	1951	1593
18:50:25	60	2565	0	76	0	2015	1617
18:51:25	60	2567	2	78	2	1939	1593
18:52:25	60	2570	3	80	2	1933	1584
18:53:25	60	2572	2	76	-4	1948	1599
18:54:25	60	2575	3	77	1	1962	1608
18:55:25	60	2575	0	77	0	1957	1617
18:56:25	60	2584	9	80	3	1962	1605
18:57:25	60	2587	3	80	0	2109	1672
18:58:25	60	2594	7	80	0	2126	1687
18:59:25	60	2599	5	76	-4	2083	1666
19: 0:25	60	2601	2	78	2	2126	1672
19: 1:25	60	2604	3	78	0	2106	1678
19: 2:25	60	2609	5	80	2	2097	1678
19: 3:25	60	2611	2	77	-3	2091	1669
19: 4:25	60	2614	3	79	2	2100	1699
19: 5:25	60	2616	2	79	0	2080	1681
19: 6:25	60	2621	5	77	-2	2080	1687
19: 7:25	60	2621	0	76	-1	2080	1690
19: 8:25	60	2626	5	75	-1	2103	1699
19: 9:25	60	2628	2	76	1	2080	1696
19:10:25	60	2631	3	77	1	2106	1705
19:11:25	60	2636	5	78	1	2103	1705
19:12:25	60	2636	0	82	4	2083	1699
19:13:25	60	2641	5	78	-4	2121	1722
19:14:25	60	2643	2	79	1	2109	1719
19:15:25	60	2643	0	78	-1	2109	1710
19:16:25	60	2648	5	78	0	2109	1728
19:17:25	60	2650	2	76	-2	2112	1719
19:18:25	60	2653	3	81	5	2115	1728
19:19:25	60	2655	2	81	0	2118	1731
19:20:25	60	2660	5	80	-1	2132	1743
19:21:25	60	2667	7	78	-2	2220	1778
19:22:25	60	2675	8	78	0	2261	1801
19:23:25	60	2677	2	79	1	2267	1798
19:24:25	60	2682	5	78	-1	2285	1813
19:25:25	60	2687	5	78	0	2291	1804
19:26:25	60	2689	2	76	-2	2296	1822
19:27:25	60	2694	5	83	7	2252	1816
19:28:25	60	2697	3	81	-2	2255	1807

## Well Test Data

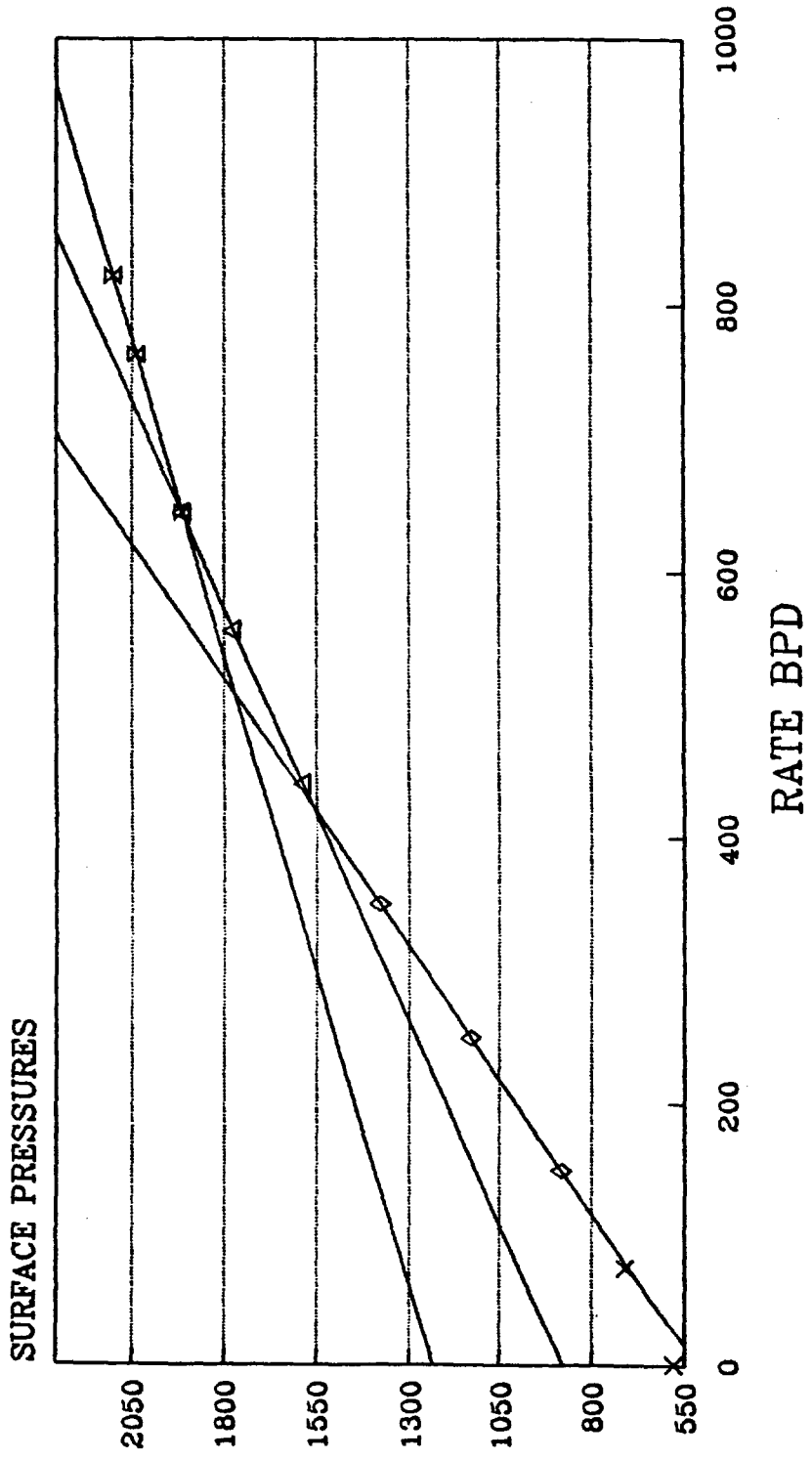
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
19:29:25	60	2699	2	83	2	2229	1813
19:30:25	60	2702	3	76	-7	2261	1819
19:31:25	60	2704	2	83	7	2258	1819
19:32:25	60	2709	5	80	-3	2232	1804
19:33:25	60	2714	5	78	-2	2264	1831
19:34:25	60	2716	2	76	-2	2276	1833
19:35:25	60	2719	3	80	4	2252	1833
19:36:25	60	2724	5	80	0	2279	1842
19:37:25	60	2724	0	83	3	2267	1839
19:38:25	60	2728	4	78	-5	2267	1842
19:39:25	60	2731	3	80	2	2285	1851
19:40:25	60	2731	0	81	1	2285	1863
19:41:25	60	2736	5	80	-1	2285	1845
19:42:25	60	2738	2	77	-3	2235	1833
19:43:25	60	2738	0	79	2	2252	1836
19:44:25	60	2743	5	78	-1	2229	1848
19:45:25	60	2743	0	80	2	2252	1851
19:46:25	60	2746	3	80	0	2258	1863
19:47:25	60	2753	7	82	2	2343	1886
19:48:25	60	2758	5	84	2	2428	1927
19:49:25	60	2760	2	73	-11	2411	1921
19:50:25	60	2763	3	81	8	2425	1942
19:51:25	60	2768	5	78	-3	2422	1945
19:52:25	60	2768	0	72	-6	2387	1930
19:53:25	60	2770	2	82	10	2419	1945
19:54:25	60	2770	0	70	-12	2428	1951
19:55:25	60	2775	5	71	1	2425	1951
19:56:25	60	2777	2	82	11	2408	1945
19:57:25	60	2777	0	76	-6	2405	1951
19:58:25	60	2780	3	79	3	2416	1959
19:59:25	60	2782	2	75	-4	2419	1968
20: 0:25	60	2782	0	82	7	2419	1965
20: 1:25	60	2785	3	83	1	2416	1968
20: 2:25	60	2785	0	83	0	2419	1968
20: 3:25	60	2787	2	83	0	2414	1965
20: 4:25	60	2787	0	64	-19	2411	1965
20: 5:25	60	2789	2	83	19	2414	1968
20: 6:25	60	2792	3	83	0	2393	1959
20: 7:25	60	2792	0	83	0	2402	1980
20: 8:25	60	2789	-3	84	1	2411	1977
20: 9:25	60	2797	8	84	0	2317	1924
20:10:25	60	2789	-8	82	-2	2581	2050
20:11:25	60	2807	18	79	-3	2636	2062
20:12:25	60	2809	2	80	1	2598	2062
20:13:25	60	2816	7	79	-1	2604	2068
20:14:25	60	2816	0	82	3	2542	2047
20:15:25	60	2819	3	82	0	2572	2062
20:16:25	60	2824	5	81	-1	2578	2065
20:17:25	60	2826	2	79	-2	2592	2074
20:18:25	60	2831	5	81	2	2627	2094
20:19:25	60	2831	0	80	-1	2625	2100
20:20:25	60	2833	2	79	-1	2545	2065
20:21:25	60	2833	0	81	2	2575	2080
20:22:25	60	2836	3	79	-2	2601	2091
20:23:25	60	2838	2	76	-3	2522	2065
20:24:25	60	2838	0	76	0	2575	2080

## 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)
20:25:25	60	2841	3	77	1	2525	2071
20:26:25	60	2843	2	75	-2	2563	2085
20:27:25	60	2843	0	78	3	2566	2088
20:28:25	60	2846	3	77	-1	2542	2077
20:29:25	60	2846	0	81	4	2548	2080
20:30:25	60	2848	2	79	-2	2551	2085
20:31:25	60	2848	0	76	-3	2554	2085
20:32:25	60	2851	3	77	1	2554	2100
20:33:25	60	2853	2	79	2	2560	2097
20:34:25	60	2853	0	79	0	2554	2088
20:35:25	60	2858	5	76	-3	2540	2091
20:36:25	60	2863	5	75	-1	2551	2091
20:37:25	60	2868	5	78	3	2800	2200
20:38:25	60	2870	2	76	-2	2686	2170
20:39:25	60	2875	5	78	2	2704	2176
20:40:25	60	2875	0	80	2	2707	2182
20:41:25	60	2880	5	78	-2	2721	2191
20:42:25	60	2880	0	76	-2	2721	2191
20:43:25	60	2882	2	75	-1	2730	2197
20:44:25	60	2887	5	78	3	2742	2197
20:45:43	78	2890	3	79	1	2748	2206
20:46:43	60	2892	2	80	1	2748	2220
20:47:43	60	2894	2	78	-2	2762	2226
20:48:43	60	2897	3	77	-1	2748	2211
20:49:43	60	2897	0	78	1	2689	2200
20:50:43	60	2899	2	77	-1	2698	2194
20:51:43	60	2902	3	81	4	2701	2194
20:52:43	60	2904	2	77	-4	2718	2214
20:53:43	60	2907	3	80	3	2742	2229
20:55: 2	79	2909	2	80	0	2709	2211
20:56: 2	60	2912	3	80	0	2736	2229
20:57: 2	60	2914	2	79	-1	2727	2217
20:58: 2	60	2914	0	78	-1	2745	2232
20:59: 2	60	2916	2	76	-2	2742	2247
21: 0: 2	60	2919	3	77	1	2739	2238
21: 1: 2	60	2921	2	80	3	2733	2235
21: 2: 2	60	2848	-73	80	0	2771	2252
21: 3: 2	60	2792	-56	78	-2	0	178
21: 4: 2	60	2755	-37	76	-2	0	125
21: 5: 2	60	2726	-29	70	-6	0	120
21: 6: 2	60	2704	-22	82	12	0	120
21: 7: 2	60	2684	-20	80	-2	0	120
21: 8: 2	60	2665	-19	78	-2	0	123
21: 9: 2	60	2648	-17	74	-4	0	117
21:10: 2	60	2633	-15	77	3	0	61
21:11: 2	60	2619	-14	75	-2	0	46
21:12: 2	60	2606	-13	75	0	0	35
21:13: 2	60	2592	-14	78	3	0	0
21:14: 2	60	2582	-10	79	1	0	0
21:15: 2	60	2570	-12	76	-3	0	0
21:15:10	8	2567	-3	80	4	0	0
21:15:15	5	2570	3	76	-4	0	0

# SOCORRO: WEST "B" #18

3-8-90

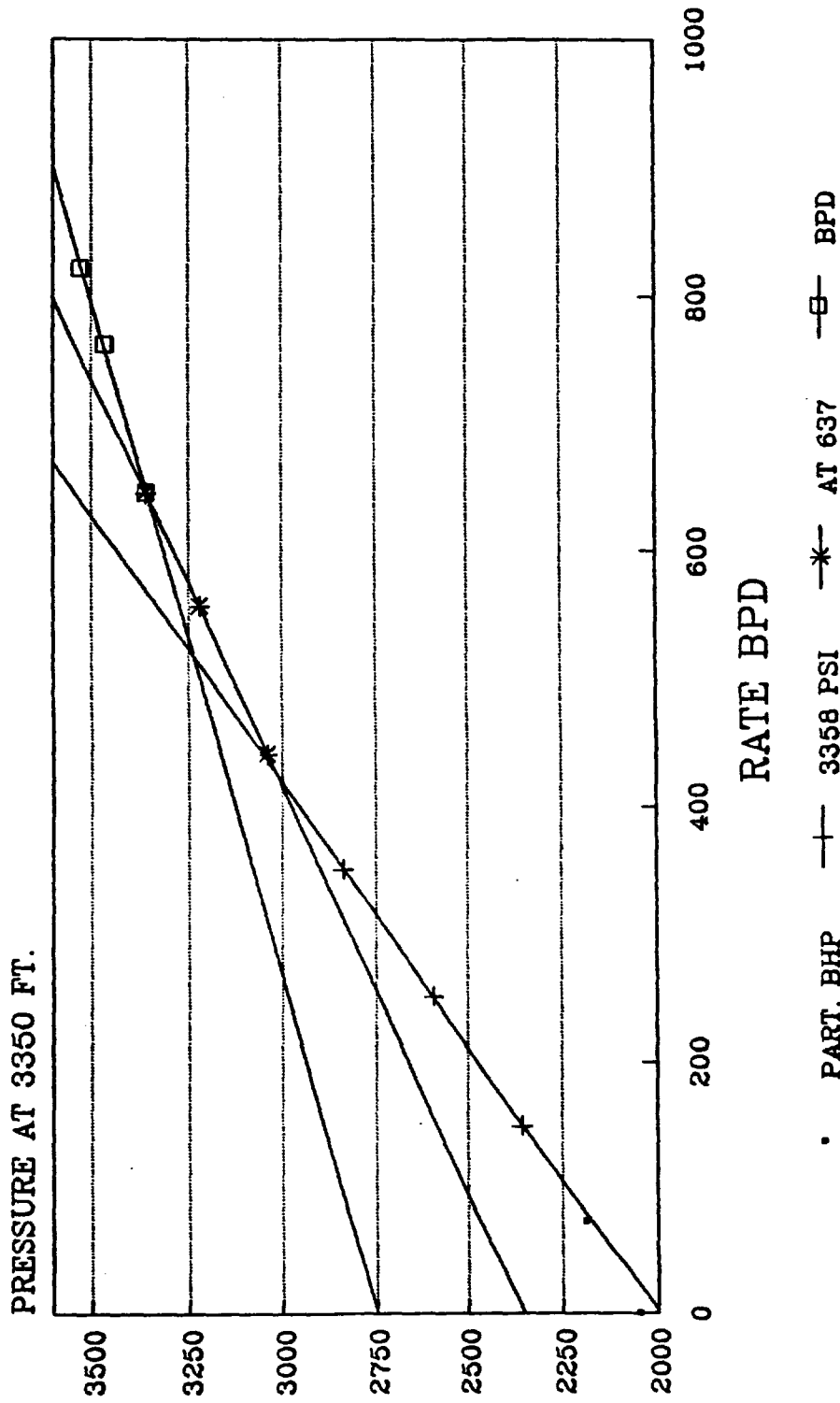


X PART. PSI    ◇ SURF. 1900 #    ◻ AT 635    — BPD

HOLMES WIRELINE SERVICE

# SOCORRO: WEST "B" #18

3-8-90



HOLMES WIRELINE SERVICE



HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE TEST WITH FORMATION PRESSURES RECORDED AT 3350'.

RATE	SURF.PSI	B.H.PSI
0	577	2048
75	706	2187
150	882	2355
250	1131	2592
350	1377	2836
440	1585	3039
556	1775	3222
644	1913	3359
761	2036	3464
820	2098	3527

5 MIN FALL-OFF	2016	3476
10 MIN "	1992	3454
15 MIN "	1972	3430

END TESTS. THANKS.

HOLMES WIRELINE SERVICE, INC.  
Volume Data

\* (last record = total volume)

<u>Date</u>	<u>Time</u>	<u>Volume</u>
3/ 8/1990	11:54:53	1.8886319 bb1
3/ 8/1990	12:35: 5	4.2233229 bb1
3/ 8/1990	14: 5:18	18.7605988 bb1
3/ 8/1990	14:49:50	13.4767660 bb1
3/ 8/1990	15:35:17	17.3015001 bb1
3/ 8/1990	17: 7:57	45.0116306 bb1
3/ 8/1990	17:56:11	24.1606310 bb1
3/ 8/1990	18: 5:33	0.0000000 bb1
99/99/ 99	99:99:99	124.8230813 bb1



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:13:40	0	2047	0	73	0	0	574
11:13:56	16	2047	0	73	0	0	574
11:14:11	15	2047	0	73	0	0	577
11:14:26	15	2047	0	75	2	0	574
11:14:41	15	2047	0	73	-2	0	574
11:14:56	15	2047	0	72	-1	0	577
11:15:11	15	2050	3	75	3	0	574
11:15:26	15	2047	-3	75	0	0	577
11:15:41	15	2047	0	75	0	0	577
11:15:56	15	2047	0	74	-1	0	574
11:16:11	15	2047	0	73	-1	0	577
11:16:26	15	2050	3	72	-1	0	577
11:16:41	15	2047	-3	73	1	0	577
11:16:56	15	2047	0	75	2	0	574
11:17:11	15	2050	3	74	-1	0	574
11:17:26	15	2050	0	73	-1	0	574
11:17:41	15	2050	0	73	0	0	577
11:17:56	15	2050	0	73	0	0	574
11:18:11	15	2052	2	74	1	0	577
11:18:26	15	2059	7	74	0	141	565
11:18:41	15	2062	3	73	-1	135	585
11:18:56	15	2064	2	73	0	62	585
11:19:11	15	2067	3	74	1	85	591
11:19:26	15	2069	2	74	0	84	591
11:19:41	15	2072	3	74	0	85	594
11:19:56	15	2072	0	75	1	83	594
11:20:11	15	2074	2	73	-2	77	597
11:20:26	15	2076	2	73	0	77	597
11:21:26	60	2084	8	75	2	77	600
11:22:26	60	2089	5	75	0	77	606
11:23:26	60	2094	5	74	-1	77	612
11:24:26	60	2098	4	74	0	74	618
11:25:26	60	2106	8	75	1	75	621
11:26:26	60	2108	2	74	-1	75	626
11:27:26	60	2113	5	76	2	75	629
11:28:26	60	2115	2	76	0	75	632
11:29:26	60	2120	5	76	0	66	635
11:30:26	60	2123	3	75	-1	57	638
11:31:26	60	2125	2	75	0	49	641
11:32:26	60	2130	5	73	-2	50	644
11:33:26	60	2133	3	74	1	93	647
11:34:26	60	2137	4	76	2	77	650
11:35:26	60	2140	3	74	-2	77	656
11:36:26	60	2145	5	75	1	75	659
11:37:26	60	2145	0	73	-2	74	659
11:38:26	60	2150	5	74	1	72	665
11:39:26	60	2150	0	74	0	72	667
11:40:26	60	2155	5	75	1	72	667
11:41:26	60	2157	2	74	-1	37	670
11:42:26	60	2159	2	73	-1	80	676
11:43:26	60	2162	3	73	0	80	679
11:44:26	60	2164	2	75	2	77	682
11:45:26	60	2167	3	75	0	75	682
11:46:26	60	2169	2	75	0	75	685
11:47:26	60	2172	3	75	0	75	685
11:48:26	60	2174	2	73	-2	75	691

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:49:26	60	2177	3	74	1	75	694
11:50:26	60	2179	2	74	0	75	694
11:51:26	60	2179	0	73	-1	75	697
11:52:26	60	2181	2	74	1	75	700
11:53:26	60	2184	3	75	1	75	703
11:54:26	60	2186	2	74	-1	77	706
11:55:27	61	2194	8	75	1	75	706
11:56:27	60	2201	7	75	0	150	714
11:57:27	60	2208	7	75	0	158	723
11:58:27	60	2216	8	75	0	155	729
11:59:27	60	2221	5	73	-2	155	735
12: 0:27	60	2228	7	75	2	155	741
12: 1:27	60	2233	5	73	-2	155	747
12: 2:27	60	2238	5	72	-1	155	752
12: 3:27	60	2242	4	75	3	155	758
12: 4:27	60	2247	5	74	-1	150	764
12: 5:27	60	2252	5	75	1	150	767
12: 6:27	60	2257	5	74	-1	150	773
12: 7:27	60	2260	3	74	0	150	779
12: 8:27	60	2264	4	73	-1	150	782
12: 9:27	60	2267	3	73	0	150	785
12:10:27	60	2272	5	74	1	149	791
12:11:27	60	2274	2	75	1	148	793
12:12:27	60	2277	3	73	-2	148	799
12:13:27	60	2284	7	74	1	148	802
12:14:27	60	2286	2	74	0	153	808
12:15:27	60	2291	5	74	0	153	811
12:16:27	60	2294	3	73	-1	153	814
12:17:27	60	2296	2	72	-1	153	820
12:18:27	60	2301	5	72	0	153	823
12:19:27	60	2306	5	74	2	153	826
12:20:27	60	2306	0	72	-2	153	832
12:21:27	60	2311	5	72	0	151	834
12:22:27	60	2316	5	75	3	150	837
12:23:27	60	2318	2	74	-1	150	840
12:24:27	60	2321	3	73	-1	150	843
12:25:27	60	2326	5	72	-1	150	846
12:26:27	60	2326	0	73	1	150	852
12:27:27	60	2330	4	72	-1	150	855
12:28:27	60	2333	3	74	2	150	858
12:29:27	60	2340	7	74	0	150	861
12:30:27	60	2343	3	74	0	150	864
12:31:27	60	2345	2	74	0	150	867
12:32:27	60	2345	0	73	-1	150	870
12:33:27	60	2350	5	73	0	149	873
12:34:27	60	2352	2	73	0	148	878
12:35:27	60	2355	3	75	2	148	881
12:36:27	60	2372	17	73	-2	194	890
12:37:27	60	2379	7	72	-1	259	902
12:38:27	60	2387	8	74	2	261	911
12:39:27	60	2394	7	73	-1	259	919
12:40:27	60	2401	7	72	-1	253	928
12:41:27	60	2409	8	73	1	256	934
12:42:27	60	2416	7	74	1	260	940
12:43:27	60	2423	7	74	0	261	952
12:44:27	60	2428	5	72	-2	257	958

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:45:27	60	2433	5	73	1	256	963
12:46:27	60	2440	7	72	-1	259	969
12:47:27	60	2445	5	71	-1	261	975
12:48:27	60	2452	7	73	2	248	981
12:49:27	60	2457	5	72	-1	261	987
12:50:27	60	2462	5	71	-1	259	993
12:51:27	60	2467	5	73	2	256	1001
12:52:27	60	2472	5	72	-1	251	1004
12:53:27	60	2479	7	73	1	253	1010
12:54:27	60	2484	5	71	-2	255	1016
12:55:27	60	2489	5	73	2	256	1022
12:56:27	60	2494	5	73	0	256	1028
12:57:27	60	2499	5	73	0	252	1031
12:58:27	60	2501	2	71	-2	253	1037
12:59:27	60	2506	5	73	2	251	1040
13: 0:27	60	2511	5	71	-2	252	1045
13: 1:27	60	2516	5	73	2	251	1051
13: 2:27	60	2521	5	72	-1	252	1057
13: 3:27	60	2526	5	73	1	251	1060
13: 4:27	60	2528	2	74	1	251	1066
13: 5:27	60	2533	5	72	-2	251	1069
13: 6:27	60	2538	5	71	-1	248	1075
13: 7:27	60	2540	2	71	0	248	1078
13: 8:27	60	2548	8	73	2	248	1081
13: 9:27	60	2550	2	73	0	248	1086
13:10:27	60	2555	5	71	-2	248	1089
13:11:27	60	2557	2	73	2	248	1092
13:12:27	60	2562	5	73	0	253	1095
13:13:27	60	2567	5	71	-2	253	1101
13:14:27	60	2570	3	71	0	246	1107
13:15:27	60	2575	5	73	2	248	1110
13:16:27	60	2577	2	72	-1	258	1116
13:17:27	60	2582	5	72	0	256	1116
13:18:27	60	2584	2	70	-2	255	1122
13:19:27	60	2589	5	72	2	253	1125
13:20:27	60	2592	3	72	0	246	1127
13:21:27	60	2604	12	71	-1	246	1130
13:22:27	60	2614	10	71	0	352	1148
13:23:27	60	2621	7	72	1	322	1154
13:24:27	60	2628	7	72	0	351	1163
13:25:27	60	2636	8	72	0	351	1171
13:26:27	60	2643	7	70	-2	351	1180
13:27:27	60	2650	7	71	1	339	1183
13:28:27	60	2655	5	72	1	351	1192
13:29:27	60	2663	8	72	0	351	1198
13:30:27	60	2667	4	71	-1	351	1204
13:31:27	60	2675	8	70	-1	351	1209
13:32:27	60	2680	5	71	1	351	1215
13:33:27	60	2687	7	71	0	345	1221
13:34:27	60	2692	5	71	0	339	1227
13:35:27	60	2697	5	69	-2	351	1233
13:36:27	60	2702	5	69	0	351	1239
13:37:27	60	2706	4	72	3	351	1245
13:38:27	60	2714	8	70	-2	351	1248
13:39:27	60	2716	2	71	1	351	1256
13:40:27	60	2724	8	71	0	322	1256

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:41:27	60	2728	4	70	-1	339	1262
13:42:27	60	2733	5	72	2	351	1271
13:43:27	60	2738	5	70	-2	322	1271
13:44:27	60	2746	8	71	1	351	1277
13:45:27	60	2753	7	69	-2	380	1286
13:46:27	60	2755	2	69	0	351	1291
13:47:27	60	2760	5	70	1	351	1294
13:48:27	60	2765	5	71	1	351	1300
13:49:27	60	2770	5	71	0	333	1303
13:50:27	60	2775	5	71	0	351	1309
13:51:27	60	2777	2	69	-2	345	1315
13:52:27	60	2782	5	70	1	351	1318
13:53:27	60	2785	3	70	0	331	1324
13:54:27	60	2789	4	70	0	322	1327
13:55:27	60	2794	5	69	-1	351	1333
13:56:27	60	2799	5	70	1	351	1338
13:57:27	60	2802	3	70	0	351	1338
13:58:27	60	2804	2	69	-1	322	1344
13:59:27	60	2811	7	70	1	322	1347
14: 0:27	60	2814	3	69	-1	354	1353
14: 1:27	60	2821	7	70	1	351	1356
14: 2:27	60	2824	3	69	-1	351	1362
14: 3:27	60	2831	7	69	0	351	1368
14: 4:27	60	2831	0	70	1	351	1371
14: 5:27	60	2836	5	70	0	351	1374
14: 6:27	60	2846	10	70	0	351	1379
14: 7:27	60	2853	7	70	0	468	1394
14: 8:27	60	2863	10	68	-2	439	1403
14: 9:27	60	2868	5	68	0	439	1409
14:10:27	60	2873	5	68	0	439	1415
14:11:27	60	2880	7	69	1	439	1420
14:12:27	60	2885	5	70	1	439	1423
14:13:27	60	2890	5	70	0	439	1432
14:14:27	60	2897	7	70	0	439	1438
14:15:27	60	2902	5	69	-1	439	1441
14:16:27	60	2904	2	69	0	439	1447
14:17:27	60	2912	8	68	-1	439	1453
14:18:27	60	2916	4	68	0	439	1456
14:19:27	60	2921	5	68	0	410	1461
14:20:27	60	2926	5	68	0	468	1467
14:21:27	60	2931	5	67	-1	410	1470
14:22:27	60	2936	5	69	2	439	1476
14:23:27	60	2941	5	69	0	439	1482
14:24:27	60	2946	5	68	-1	439	1488
14:25:27	60	2951	5	67	-1	439	1491
14:26:27	60	2953	2	69	2	439	1497
14:27:27	60	2958	5	68	-1	421	1500
14:28:27	60	2960	2	68	0	410	1502
14:29:27	60	2965	5	67	-1	439	1508
14:30:27	60	2970	5	67	0	439	1514
14:31:27	60	2973	3	66	-1	439	1514
14:32:27	60	2980	7	67	1	439	1520
14:33:27	60	2982	2	68	1	439	1523
14:34:27	60	2987	5	67	-1	439	1526
14:35:27	60	2990	3	68	1	439	1532
14:36:27	60	2995	5	68	0	439	1538

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:37:27	60	3000	5	67	-1	439	1538
14:38:27	60	3002	2	67	0	439	1543
14:39:27	60	3004	2	69	2	439	1549
14:40:27	60	3007	3	68	-1	439	1549
14:41:27	60	3009	2	67	-1	439	1552
14:42:27	60	3014	5	69	2	410	1555
14:43:27	60	3017	3	68	-1	439	1561
14:44:27	60	3024	7	69	1	413	1564
14:45:27	60	3026	2	68	-1	439	1567
14:46:27	60	3031	5	68	0	439	1573
14:47:27	60	3034	3	68	0	439	1576
14:48:27	60	3036	2	67	-1	439	1579
14:49:27	60	3039	3	67	0	439	1582
14:50:27	60	3046	7	68	1	439	1584
14:51:27	60	3056	10	69	1	556	1599
14:52:27	60	3061	5	66	-3	556	1605
14:53:27	60	3065	4	68	2	527	1608
14:54:27	60	3070	5	68	0	527	1614
14:55:27	60	3075	5	68	0	527	1620
14:56:27	60	3080	5	68	0	527	1625
14:57:27	60	3085	5	66	-2	527	1628
14:58:27	60	3092	7	65	-1	556	1637
14:59:27	60	3097	5	66	1	585	1643
15: 0:27	60	3105	8	68	2	556	1649
15: 1:27	60	3109	4	67	-1	556	1652
15: 2:27	60	3114	5	65	-2	556	1658
15: 3:27	60	3117	3	66	1	556	1664
15: 4:27	60	3122	5	67	1	556	1666
15: 5:27	60	3126	4	66	-1	556	1675
15: 6:27	60	3131	5	66	0	556	1675
15: 7:27	60	3134	3	67	1	556	1678
15: 8:27	60	3136	2	65	-2	556	1681
15: 9:27	60	3141	5	66	1	547	1687
15:10:27	60	3144	3	66	0	556	1693
15:11:27	60	3148	4	67	1	553	1696
15:12:27	60	3151	3	67	0	556	1696
15:13:27	60	3156	5	66	-1	536	1702
15:14:27	60	3161	5	67	1	527	1708
15:15:27	60	3163	2	65	-2	556	1710
15:16:27	60	3166	3	65	0	556	1713
15:17:27	60	3168	2	66	1	527	1713
15:18:27	60	3170	2	66	0	527	1722
15:19:27	60	3175	5	66	0	527	1719
15:20:27	60	3178	3	64	-2	556	1728
15:21:27	60	3183	5	67	3	556	1731
15:22:27	60	3185	2	64	-3	556	1734
15:23:27	60	3188	3	67	3	556	1737
15:24:27	60	3192	4	65	-2	556	1743
15:25:27	60	3195	3	66	1	556	1746
15:26:27	60	3197	2	65	-1	556	1749
15:27:27	60	3200	3	65	0	556	1749
15:28:27	60	3202	2	64	-1	556	1754
15:29:27	60	3207	5	66	2	539	1757
15:30:27	60	3210	3	65	-1	530	1760
15:31:27	60	3212	2	65	0	527	1760
15:32:27	60	3217	5	65	0	527	1763

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:33:27	60	3219	2	67	2	556	1769
15:34:27	60	3222	3	65	-2	556	1772
15:35:27	60	3227	5	66	1	556	1775
15:36:27	60	3234	7	67	1	644	1781
15:37:27	60	3239	5	65	-2	644	1792
15:38:27	60	3241	2	64	-1	644	1795
15:39:27	60	3244	3	65	1	644	1801
15:40:27	60	3251	7	65	0	644	1801
15:41:27	60	3253	2	65	0	644	1807
15:42:27	60	3258	5	65	0	644	1810
15:43:27	60	3263	5	64	-1	644	1813
15:44:27	60	3266	3	65	1	644	1816
15:45:27	60	3268	2	64	-1	644	1819
15:46:27	60	3273	5	66	2	615	1825
15:47:27	60	3275	2	64	-2	615	1828
15:48:27	60	3280	5	65	1	644	1833
15:49:27	60	3283	3	64	-1	644	1833
15:50:27	60	3285	2	64	0	644	1839
15:51:27	60	3288	3	66	2	624	1839
15:52:27	60	3290	2	65	-1	615	1842
15:53:27	60	3295	5	66	1	644	1848
15:54:27	60	3297	2	63	-3	644	1851
15:55:27	60	3300	3	64	1	644	1854
15:56:27	60	3302	2	64	0	618	1854
15:57:27	60	3307	5	64	0	670	1860
15:58:27	60	3310	3	64	0	644	1866
15:59:27	60	3310	0	63	-1	644	1866
16: 0:27	60	3315	5	65	2	644	1869
16: 1:27	60	3317	2	66	1	644	1872
16: 2:27	60	3319	2	65	-1	644	1875
16: 3:27	60	3322	3	64	-1	644	1877
16: 4:27	60	3322	0	63	-1	644	1877
16: 5:27	60	3327	5	65	2	615	1880
16: 6:27	60	3329	2	65	0	615	1883
16: 7:27	60	3332	3	64	-1	644	1886
16: 8:27	60	3334	2	66	2	644	1889
16: 9:27	60	3336	2	64	-2	644	1892
16:10:27	60	3339	3	63	-1	644	1892
16:11:27	60	3341	2	66	3	644	1895
16:12:27	60	3344	3	65	-1	644	1898
16:13:27	60	3346	2	65	0	644	1901
16:14:27	60	3349	3	64	-1	624	1901
16:15:27	60	3351	2	65	1	644	1907
16:16:27	60	3354	3	64	-1	644	1910
16:17:27	60	3354	0	65	1	644	1910
16:18:27	60	3356	2	64	-1	644	1913
16:19:27	60	3358	2	63	-1	644	1913
16:20:27	60	3361	3	65	2	635	1913
16:21:27	60	3366	5	64	-1	703	1924
16:22:27	60	3371	5	63	-1	761	1930
16:23:27	60	3373	2	65	2	761	1933
16:24:27	60	3376	3	65	0	732	1936
16:25:27	60	3380	4	64	-1	761	1942
16:26:27	60	3383	3	65	1	755	1942
16:27:27	60	3385	2	63	-2	732	1945
16:28:27	60	3388	3	65	2	758	1948

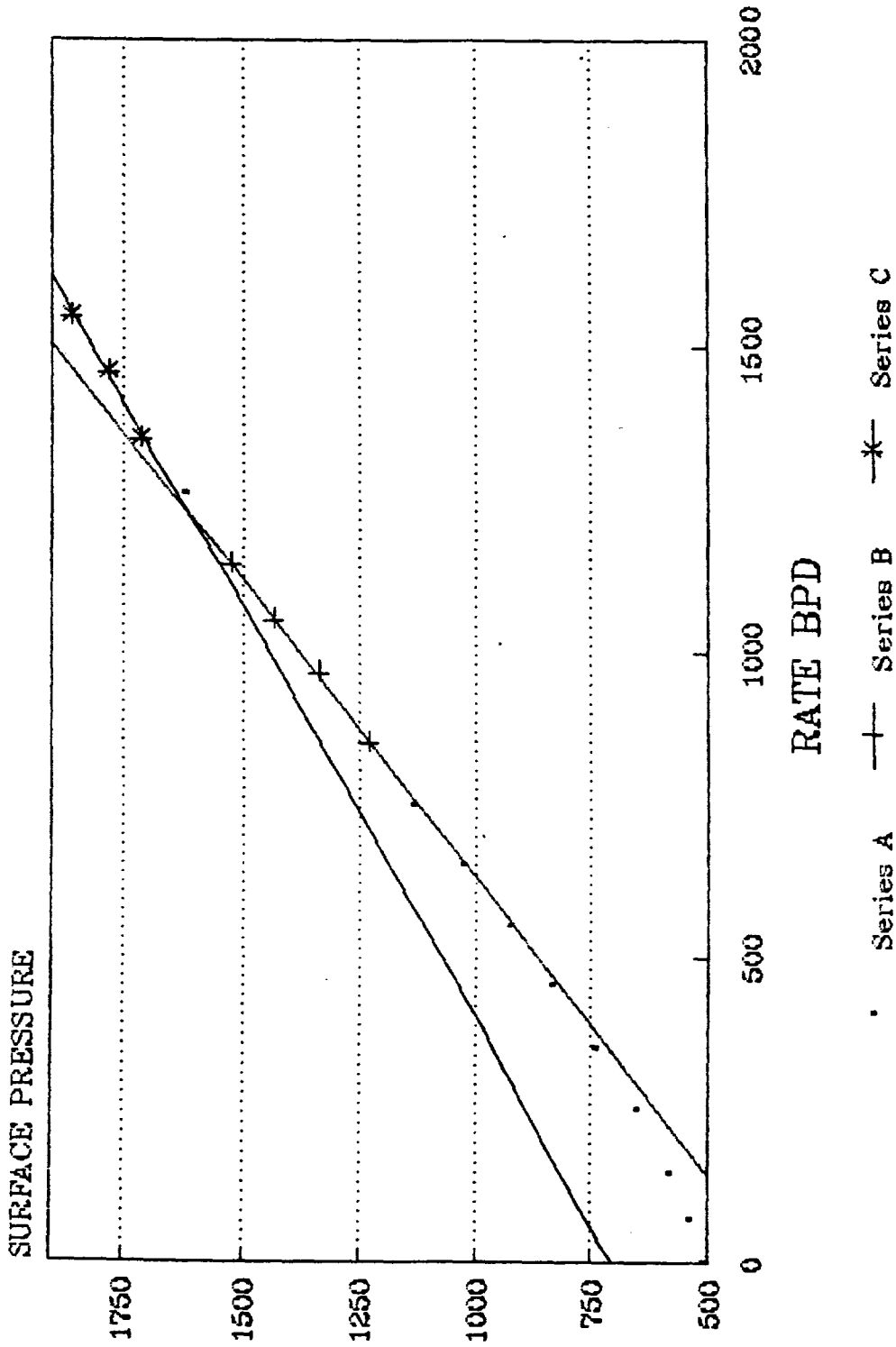
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
16:29:27	60	3390	2	64	-1	761	1951
16:30:27	60	3393	3	63	-1	761	1954
16:31:27	60	3395	2	65	2	761	1957
16:32:27	60	3398	3	62	-3	732	1959
16:33:27	60	3400	2	63	1	758	1959
16:34:27	60	3402	2	65	2	761	1965
16:35:27	60	3405	3	62	-3	761	1971
16:36:27	60	3407	2	62	0	755	1968
16:37:27	60	3407	0	65	3	761	1971
16:38:27	60	3410	3	62	-3	732	1971
16:39:27	60	3410	0	62	0	761	1977
16:40:27	60	3417	7	64	2	761	1980
16:41:27	60	3417	0	62	-2	758	1980
16:42:27	60	3420	3	62	0	761	1983
16:43:27	60	3422	2	62	0	791	1989
16:44:27	60	3424	2	63	1	761	1989
16:45:27	60	3427	3	64	1	761	1989
16:46:27	60	3427	0	63	-1	761	1992
16:47:27	60	3424	-3	63	0	761	1992
16:48:27	60	3429	5	62	-1	761	1995
16:49:27	60	3434	5	63	1	761	1998
16:50:27	60	3434	0	62	-1	761	2000
16:51:27	60	3437	3	62	0	761	2003
16:52:27	60	3439	2	62	0	761	2003
16:53:27	60	3439	0	62	0	761	2003
16:54:27	60	3439	0	62	0	761	2006
16:55:27	60	3442	3	62	0	732	2006
16:56:27	60	3444	2	64	2	744	2009
16:57:27	60	3446	2	62	-2	755	2009
16:58:27	60	3446	0	63	1	761	2012
16:59:27	60	3449	3	62	-1	761	2015
17: 0:27	60	3451	2	64	2	761	2015
17: 1:27	60	3454	3	62	-2	761	2018
17: 2:27	60	3456	2	63	1	761	2018
17: 3:27	60	3459	3	64	1	761	2021
17: 4:27	60	3459	0	62	-2	791	2024
17: 5:27	60	3459	0	62	0	761	2027
17: 6:27	60	3463	4	63	1	761	2027
17: 7:27	60	3461	-2	64	1	761	2030
17: 8:27	60	3468	7	62	-2	761	2030
17: 9:27	60	3471	3	62	0	820	2039
17:10:27	60	3471	0	62	0	820	2041
17:11:27	60	3473	2	63	1	820	2041
17:12:27	60	3473	0	62	-1	820	2041
17:13:27	60	3476	3	63	1	820	2044
17:14:27	60	3473	-3	62	-1	817	2044
17:15:27	60	3481	8	64	2	791	2047
17:16:27	60	3481	0	62	-2	791	2050
17:17:27	60	3483	2	62	0	791	2050
17:18:27	60	3483	0	63	1	791	2053
17:19:27	60	3485	2	61	-2	791	2050
17:20:27	60	3488	3	62	1	791	2053
17:21:27	60	3488	0	63	1	791	2053
17:22:27	60	3488	0	61	-2	791	2056
17:23:27	60	3490	2	62	1	779	2056
17:24:27	60	3490	0	63	1	785	2059

Holmes Wireline Service, Inc.  
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)
17:25:27	60	3495	5	63	0	776	2056
17:26:27	60	3495	0	62	-1	791	2062
17:27:27	60	3498	3	63	1	820	2065
17:28:27	60	3498	0	63	0	820	2065
17:29:27	60	3500	2	61	-2	820	2068
17:30:27	60	3505	5	61	0	820	2071
17:31:27	60	3505	0	61	0	820	2074
17:32:27	60	3505	0	61	0	820	2074
17:33:27	60	3507	2	63	2	820	2074
17:34:27	60	3510	3	64	1	820	2074
17:35:27	60	3510	0	62	-2	820	2077
17:36:27	60	3512	2	61	-1	820	2080
17:37:27	60	3515	3	61	0	820	2080
17:38:27	60	3515	0	63	2	820	2083
17:39:27	60	3515	0	61	-2	820	2083
17:40:27	60	3517	2	61	0	820	2083
17:41:27	60	3517	0	62	1	820	2083
17:42:27	60	3517	0	62	0	820	2083
17:43:27	60	3520	3	61	-1	820	2085
17:44:27	60	3520	0	62	1	820	2088
17:45:27	60	3520	0	61	-1	820	2088
17:46:27	60	3522	2	62	1	820	2088
17:47:27	60	3522	0	63	1	820	2091
17:48:27	60	3522	0	61	-2	820	2091
17:49:27	60	3525	3	63	2	820	2094
17:50:27	60	3527	2	61	-2	820	2097
17:51:27	60	3527	0	62	1	820	2097
17:52:27	60	3505	-22	60	-2	820	2097
17:53:27	60	3493	-12	62	2	0	2044
17:54:27	60	3485	-8	62	0	0	2033
17:55:27	60	3478	-7	62	0	0	2027
17:56:27	60	3473	-5	62	0	0	2018
17:57:27	60	3468	-5	63	1	0	2015
17:58:27	60	3463	-5	62	-1	0	2009
17:59:27	60	3459	-4	62	0	0	2003
18: 0:27	60	3454	-5	62	0	0	2000
18: 1:27	60	3449	-5	64	2	0	1995
18: 2:27	60	3446	-3	65	1	0	1989
18: 3:27	60	3442	-4	63	-2	0	1986
18: 4:27	60	3437	-5	65	2	0	1983
		3432	-5	64	-1	0	1980

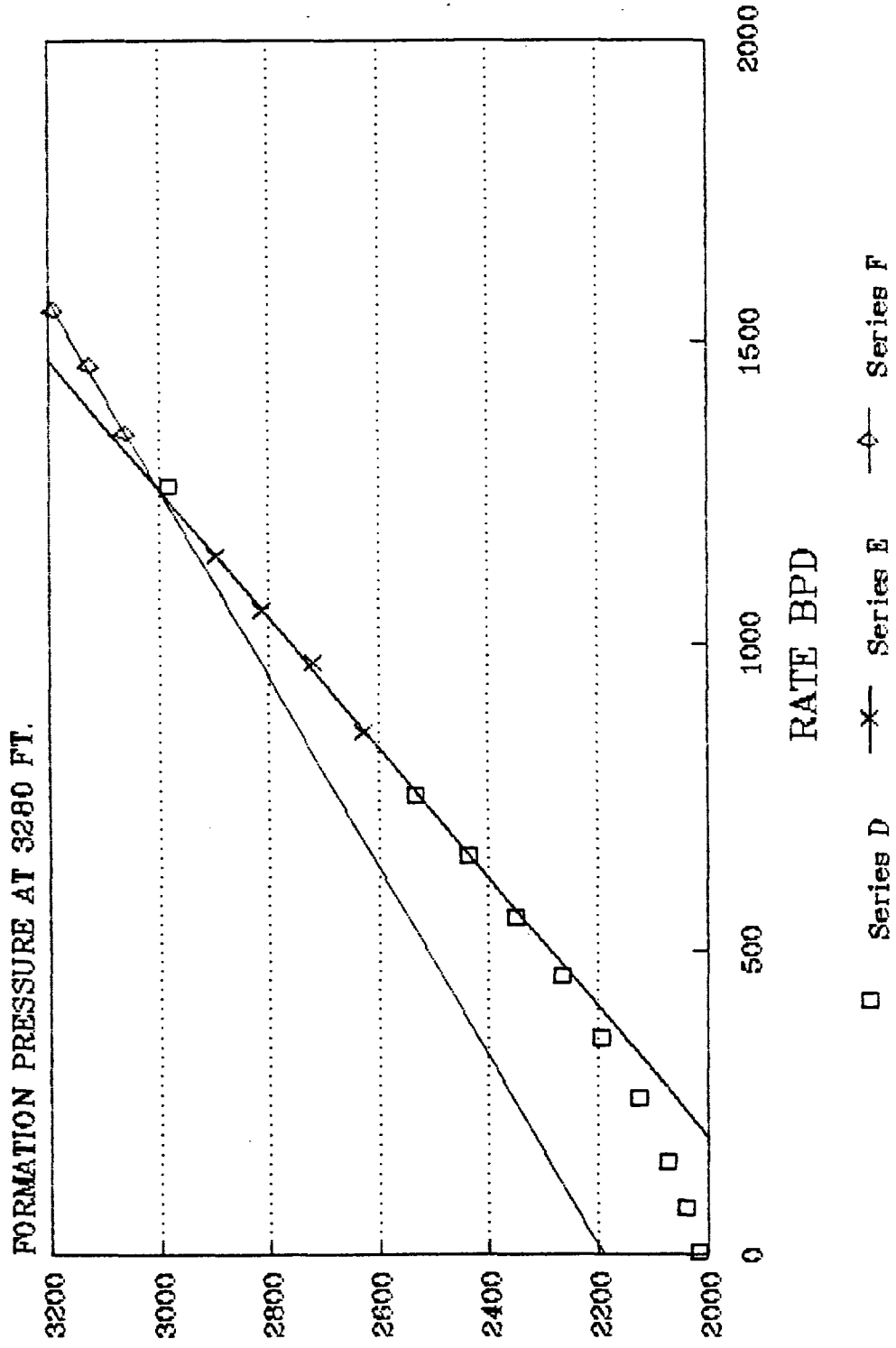


# SOCORRO: WEST "B" # 21

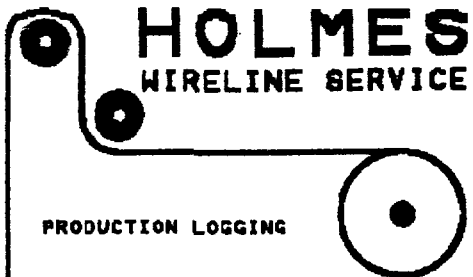


HOLMES FRACTURE @ 1230 BPD WITH 1625 PSI

# SOCORRO: WEST "B" # 21



HOLMES FRACTURE @ 1255 BPD WITH 3000 PSI



# Digital Data Acquisition System

COMPANY.....:SOCORRO  
WELL NAME/#....:WEST "B" # 21  
FIELD.....:N/A  
COUNTY.....:LEA STATE...:NEW MEXICO FILE NAME...:soc21.log  
LOCATION.....:N/A  
BLOCK.....:N/A SECTION.:N/A  
PERM. DAT.....:GROUND LEVEL ELEV.....:N/A L.M.F.:GROUND LEVEL

.....  
DATE.....: 2/24/1990  
TYPE SURVEY...:STEP RATE TEST  
DEPTH DRILLER.:N/A DEPTH LOGGER.:3280'

WELL STATUS...:INJECTION  
HOLE FLUID....:WATER  
INJ. RATE.....:0 - 1550 BPD  
PROD: OIL bpd.:- WATER bpd...:- GAS mcf.:-  
MAX. REC. TEMP:-

PRESS: TUBING.:500 - 1857 PSI CASING.....:0 PSI

CASING SIZE...:N/A DEPTH.....:N/A  
TUBING SIZE...:2 3/8" P.C. DEPTH.....:APPROX. 3207'  
PACKER @.....:SAME TUBING TAIL:NONE

TRUCK NO.....:T -106 TOOL SIZE...:1 1/2" TOOL NO.:SIE PSI

RECORDED BY...:MONTY HOLMES

WITNESSED BY...:JOHN GOULD, WADE WIGHT, OCD

ENGINEER.....:PERRY HUGHES, JOHN GOULD

.....  
PERFORATIONS...:N/A  
: TOP PERF: 3294'  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A

HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE TEST WITH PRESSURES RECORDED AT 3280'.  
DIFFICULTY GETTING THRU TUBING VALVE.

RATE	SURF.PSI	B.H. PSI
0	507	2016
75	536	2038
150	580	2072
250	650	2126
350	738	2192
450	829	2265
550	923	2348
650	1025	2433
750	1131	2531
850	1228	2624
966	1336	2717
1050	1433	2810
1142	1526	2895
1250	1617	2980
1350	1708	3061
1460	1778	3125
1550	1857	3190
5 MIN. FALL-OFF	1723	3125
10 MIN	1685	3085
15 MIN.	1646	3049

END TEST. THANKS.

## HOLMES WIRELINE SERVICE, INC.

## Volume Data

\* (last record = total volume)

Date	Time	Volume
2/24/1990	9:39:49	3.0295896 bbl
2/24/1990	10: 0: 2	3.4819761 bbl
2/24/1990	10:20:10	4.9130979 bbl
2/24/1990	10:39:52	6.1969333 bbl
2/24/1990	11: 0: 2	7.7540419 bbl
2/24/1990	11:19:39	8.7924533 bbl
2/24/1990	11:40:29	10.8516100 bbl
2/24/1990	12:20:11	24.8778958 bbl
2/24/1990	12:39:59	14.4679769 bbl
2/24/1990	12:59:51	15.7820299 bbl
2/24/1990	13:20:45	18.1671482 bbl
2/24/1990	14: 0:23	38.3457438 bbl
2/24/1990	14:20:33	21.5450372 bbl
2/24/1990	14:36:13	0.0000000 bbl
99/99/ 99	99:99:99	178.2055338 bbl

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
8:56: 7	0	2015	0	102	0	0	506
8:56:22	15	2015	0	97	-5	0	506
8:56:37	15	2015	0	100	3	0	506
8:56:52	15	2013	-2	100	0	0	506
8:57: 7	15	2015	2	100	0	0	506
8:57:22	15	2015	0	99	-1	0	503
8:57:37	15	2015	0	101	2	0	506
8:57:52	15	2015	0	96	-5	0	506
8:58: 7	15	2013	-2	99	3	0	506
8:58:22	15	2013	0	98	-1	0	506
8:58:37	15	2015	2	98	0	0	506
8:58:52	15	2015	0	89	-9	0	503
8:59: 7	15	2013	-2	0	-89	0	506
8:59:22	15	2013	0	78	78	0	506
9: 0:23	61	2013	0	78	0	0	506
9: 1:23	60	2018	5	79	1	0	506
9: 2:23	60	2020	2	79	0	0	506
9: 3:23	60	2023	3	79	0	80	515
9: 4:23	60	2028	5	80	1	77	515
9: 5:23	60	2028	0	81	1	75	518
9: 6:23	60	2028	0	79	-2	75	521
9: 7:23	60	2030	2	80	1	75	521
9: 8:23	60	2030	0	79	-1	75	521
9: 9:23	60	2032	2	78	-1	76	524
9:10:23	60	2030	-2	80	2	77	527
9:11:23	60	2032	2	80	0	77	527
9:12:23	60	2032	0	79	-1	77	530
9:13:23	60	2035	3	80	1	76	530
9:14:23	60	2035	0	80	0	76	530
9:15:23	60	2035	0	80	0	77	533
9:16:23	60	2035	0	80	0	75	533
9:17:23	60	2035	0	77	-3	75	533
9:18:23	60	2037	2	79	2	75	533
9:19:23	60	2037	0	79	0	75	536
9:20:23	60	2037	0	80	1	75	536
9:21:23	60	2042	5	78	-2	75	536
9:22:23	60	2045	3	79	1	148	539
9:23:23	60	2047	2	78	-1	168	550
9:24:23	60	2052	5	78	0	145	547
9:25:23	60	2052	0	78	0	145	550
9:26:23	60	2054	2	77	-1	144	553
9:27:23	60	2057	3	78	1	179	556
9:28:23	60	2059	2	78	0	153	559
9:29:23	60	2059	0	80	2	148	562
9:30:23	60	2062	3	79	-1	148	562
9:31:23	60	2064	2	80	1	148	565
9:32:23	60	2064	0	80	0	148	568
9:33:23	60	2064	0	77	-3	148	568
9:34:23	60	2067	3	78	1	148	571
9:35:23	60	2067	0	77	-1	148	574
9:36:23	60	2069	2	79	2	148	574
9:37:23	60	2069	0	79	0	148	577
9:38:23	60	2072	3	77	-2	148	577
9:39:23	60	2072	0	78	1	148	577
9:40:23	60	2076	4	78	0	148	580
9:41:23	60	2079	3	79	1	236	583

Holmes Wireline Service, Inc.  
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)
9:42:23	60	2084	5	77	-2	259	588
9:43:23	60	2089	5	78	1	248	597
9:44:23	60	2091	2	78	0	251	600
9:45:23	60	2094	3	77	-1	248	603
9:46:23	60	2096	2	77	0	243	609
9:47:23	60	2098	2	77	0	243	612
9:48:23	60	2101	3	78	1	243	615
9:49:23	60	2101	0	76	-2	243	615
9:50:23	60	2106	5	78	2	241	621
9:51:23	60	2106	0	75	-3	241	621
9:52:23	60	2111	5	77	2	261	626
9:53:23	60	2111	0	76	-1	259	629
9:54:23	60	2113	2	75	-1	256	632
9:55:23	60	2115	2	75	0	256	635
9:56:23	60	2118	3	76	1	253	635
9:57:23	60	2120	2	77	1	253	641
9:58:23	60	2120	0	77	0	253	644
9:59:23	60	2125	5	76	-1	251	644
10: 0:23	60	2130	5	76	0	253	647
10: 1:23	60	2135	5	76	0	355	656
10: 2:23	60	2137	2	76	0	351	662
10: 3:23	60	2142	5	75	-1	351	667
10: 4:23	60	2145	3	74	-1	351	673
10: 5:23	60	2150	5	74	0	351	676
10: 6:23	60	2155	5	74	0	351	682
10: 7:23	60	2157	2	74	0	351	688
10: 8:23	60	2159	2	74	0	351	688
10: 9:23	60	2162	3	75	1	351	694
10:10:23	60	2164	2	75	0	351	697
10:11:23	60	2167	3	73	-2	348	700
10:12:23	60	2169	2	73	0	351	706
10:13:23	60	2174	5	74	1	351	708
10:14:23	60	2177	3	73	-1	351	714
10:15:23	60	2179	2	73	0	351	717
10:16:23	60	2184	5	75	2	351	720
10:17:23	60	2184	0	74	-1	351	723
10:18:23	60	2189	5	72	-2	351	726
10:19:23	60	2191	2	72	0	360	732
10:20:23	60	2191	0	74	2	351	735
10:21:23	60	2199	8	74	0	351	738
10:22:23	60	2201	2	73	-1	439	750
10:23:23	60	2208	7	73	0	439	752
10:24:23	60	2213	5	73	0	468	758
10:25:23	60	2218	5	73	0	468	761
10:26:23	60	2221	3	73	0	468	767
10:27:23	60	2225	4	72	-1	439	773
10:28:23	60	2228	3	72	0	468	779
10:29:23	60	2233	5	73	1	468	785
10:30:23	60	2238	5	73	0	468	788
10:31:23	60	2238	0	73	0	439	793
10:32:23	60	2245	7	72	-1	445	796
10:33:23	60	2247	2	71	-1	439	799
10:34:23	60	2252	5	71	0	459	805
10:35:23	60	2252	0	72	1	454	805
10:36:23	60	2255	3	71	-1	459	811
10:37:23	60	2257	2	71	0	457	814

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
10:38:23	60	2262	5	70	-1	459	817
10:39:23	60	2264	2	72	2	465	823
10:40:23	60	2269	5	72	0	448	826
10:41:23	60	2277	8	71	-1	527	832
10:42:23	60	2282	5	72	1	585	846
10:43:23	60	2286	4	72	0	556	849
10:44:23	60	2291	5	70	-2	556	855
10:45:23	60	2296	5	70	0	556	858
10:46:23	60	2301	5	71	1	556	864
10:47:23	60	2304	3	70	-1	556	867
10:48:23	60	2308	4	69	-1	556	870
10:49:23	60	2311	3	71	2	556	878
10:50:23	60	2316	5	70	-1	556	881
10:51:23	60	2318	2	70	0	544	884
10:52:23	60	2323	5	69	-1	547	887
10:53:23	60	2326	3	70	1	527	893
10:54:23	60	2330	4	67	-3	556	899
10:55:23	60	2333	3	69	2	556	902
10:56:23	60	2335	2	69	0	539	902
10:57:23	60	2340	5	69	0	556	911
10:58:23	60	2343	3	69	0	556	914
10:59:23	60	2345	2	67	-2	556	919
11: 0:23	60	2347	2	67	0	556	922
11: 1:23	60	2360	13	69	2	556	925
11: 2:23	60	2362	2	68	-1	673	937
11: 3:23	60	2367	5	67	-1	644	943
11: 4:23	60	2374	7	67	0	644	952
11: 5:23	60	2377	3	68	1	644	952
11: 6:23	60	2382	5	68	0	644	958
11: 7:23	60	2387	5	68	0	644	963
11: 8:23	60	2389	2	68	0	644	972
11: 9:23	60	2394	5	67	-1	644	978
11:10:23	60	2399	5	68	1	644	978
11:11:23	60	2401	2	68	0	644	984
11:12:23	60	2406	5	68	0	624	990
11:13:23	60	2409	3	68	0	615	990
11:14:23	60	2413	4	67	-1	673	996
11:15:23	60	2421	8	67	0	644	999
11:16:23	60	2423	2	67	0	673	1007
11:17:23	60	2423	0	67	0	644	1010
11:18:23	60	2428	5	66	-1	615	1013
11:19:23	60	2433	5	67	1	644	1013
11:20:23	60	2438	5	66	-1	673	1025
11:21:23	60	2445	7	65	-1	732	1034
11:22:23	60	2450	5	67	2	761	1040
11:23:23	60	2457	7	65	-2	732	1045
11:24:23	60	2460	3	66	1	752	1051
11:25:23	60	2467	7	66	0	761	1057
11:26:23	60	2472	5	65	-1	761	1063
11:27:23	60	2477	5	66	1	761	1066
11:28:23	60	2479	2	66	0	761	1072
11:29:23	60	2484	5	64	-2	761	1078
11:30:23	60	2489	5	65	1	761	1083
11:31:23	60	2496	7	65	0	732	1086
11:32:23	60	2499	3	65	0	770	1092
11:33:23	60	2501	2	65	0	732	1095



Holmes Wireline Service, Inc.  
Well Test Data

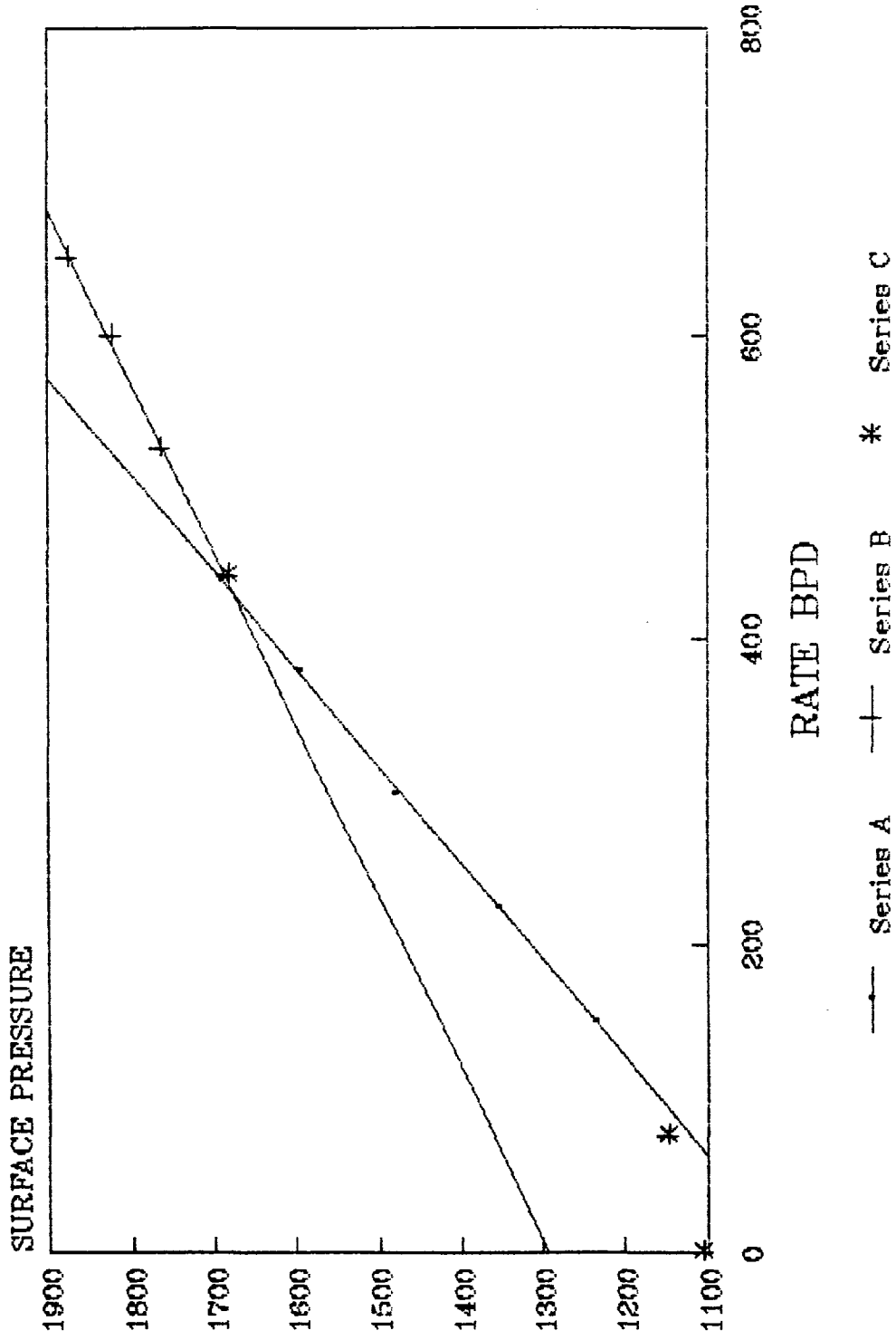
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
11:34:23	60	2506	5	65	0	732	1098
11:35:23	60	2511	5	64	-1	761	1107
11:36:23	60	2516	5	64	0	732	1110
11:37:23	60	2518	2	63	-1	761	1113
11:38:23	60	2523	5	63	0	761	1116
11:39:23	60	2526	3	63	0	761	1125
11:40:23	60	2531	5	63	0	752	1125
11:41:23	60	2536	5	65	2	738	1130
11:42:23	60	2540	4	63	-2	820	1139
11:43:23	60	2550	10	64	1	840	1145
11:44:23	60	2555	5	63	-1	849	1154
11:45:23	60	2560	5	64	1	849	1160
11:46:23	60	2565	5	63	-1	849	1166
11:47:23	60	2570	5	64	1	849	1171
11:48:23	60	2575	5	63	-1	861	1177
11:49:23	60	2579	4	63	0	849	1180
11:50:23	60	2582	3	64	1	849	1186
11:51:23	60	2587	5	64	0	849	1189
11:52:23	60	2592	5	62	-2	849	1195
11:53:23	60	2597	5	63	1	849	1198
11:54:23	60	2601	4	63	0	849	1201
11:55:23	60	2604	3	62	-1	849	1207
11:56:23	60	2609	5	63	1	823	1209
11:57:23	60	2614	5	63	0	849	1218
11:58:23	60	2616	2	62	-1	826	1218
11:59:23	60	2621	5	62	0	820	1224
12: 0:23	60	2626	5	62	0	820	1224
12: 1:23	60	2633	7	62	0	966	1239
12: 2:23	60	2638	5	62	0	966	1248
12: 3:23	60	2643	5	62	0	966	1253
12: 4:23	60	2650	7	63	1	966	1256
12: 5:23	60	2655	5	62	-1	960	1265
12: 6:23	60	2660	5	61	-1	946	1271
12: 7:23	60	2665	5	61	0	966	1274
12: 8:23	60	2667	2	61	0	966	1280
12: 9:23	60	2675	8	61	0	966	1286
12:10:23	60	2677	2	62	1	958	1291
12:11:23	60	2682	5	61	-1	937	1294
12:12:23	60	2687	5	61	0	966	1300
12:13:23	60	2692	5	63	2	966	1303
12:14:23	60	2697	5	62	-1	937	1309
12:15:23	60	2699	2	62	0	966	1315
12:16:23	60	2704	5	62	0	966	1318
12:17:23	60	2706	2	62	0	966	1321
12:18:23	60	2711	5	61	-1	966	1324
12:19:23	60	2714	3	61	0	966	1330
12:20:23	60	2721	7	62	1	966	1335
12:21:23	60	2728	7	60	-2	1113	1344
12:22:23	60	2733	5	62	2	1054	1356
12:23:23	60	2738	5	61	-1	1025	1356
12:24:23	60	2743	5	61	0	1054	1362
12:25:23	60	2746	3	61	0	1054	1368
12:26:23	60	2753	7	61	0	1031	1374
12:27:23	60	2755	2	60	-1	1054	1379
12:28:23	60	2760	5	60	0	1054	1379
12:29:23	60	2765	5	61	1	1083	1391

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:30:23	60	2770	5	60	-1	1054	1391
12:31:23	60	2775	5	62	2	1054	1394
12:32:23	60	2777	2	61	-1	1054	1397
12:33:23	60	2782	5	61	0	1054	1403
12:34:23	60	2785	3	61	0	1025	1409
12:35:23	60	2789	4	60	-1	1054	1412
12:36:23	60	2794	5	61	1	1054	1417
12:37:23	60	2799	5	60	-1	1054	1420
12:38:23	60	2804	5	60	0	1054	1426
12:39:23	60	2804	0	60	0	1054	1426
12:40:23	60	2809	5	59	-1	1031	1432
12:41:23	60	2816	7	60	1	1086	1444
12:42:23	60	2821	5	61	1	1171	1450
12:43:23	60	2829	8	61	0	1142	1456
12:44:23	60	2831	2	61	0	1142	1461
12:45:23	60	2838	7	61	0	1142	1464
12:46:23	60	2841	3	61	0	1142	1470
12:47:23	60	2846	5	59	-2	1142	1473
12:48:23	60	2848	2	61	2	1171	1479
12:49:23	60	2853	5	59	-2	1168	1482
12:50:23	60	2858	5	59	0	1142	1488
12:51:23	60	2863	5	59	0	1142	1491
12:52:23	60	2865	2	59	0	1142	1494
12:53:23	60	2868	3	59	0	1142	1497
12:54:23	60	2873	5	59	0	1142	1502
12:55:23	60	2877	4	60	1	1145	1505
12:56:23	60	2882	5	58	-2	1142	1508
12:57:23	60	2887	5	58	0	1142	1514
12:58:23	60	2887	0	60	2	1142	1517
12:59:23	60	2892	5	59	-1	1142	1523
13: 0:23	60	2897	5	60	1	1142	1523
13: 1:23	60	2902	5	60	0	1230	1535
13: 2:23	60	2907	5	57	-3	1259	1541
13: 3:23	60	2914	7	58	1	1259	1546
13: 4:23	60	2919	5	58	0	1259	1552
13: 5:23	60	2921	2	58	0	1259	1558
13: 6:23	60	2926	5	59	1	1259	1561
13: 7:23	60	2931	5	60	1	1259	1564
13: 8:23	60	2936	5	60	0	1242	1567
13: 9:23	60	2936	0	59	-1	1259	1573
13:10:23	60	2941	5	59	0	1259	1576
13:11:23	60	2943	2	58	-1	1256	1579
13:12:23	60	2948	5	57	-1	1230	1582
13:13:23	60	2953	5	58	1	1289	1587
13:14:23	60	2958	5	58	0	1259	1590
13:15:23	60	2960	2	58	0	1259	1593
13:16:23	60	2965	5	59	1	1259	1599
13:17:23	60	2968	3	58	-1	1233	1596
13:18:23	60	2973	5	58	0	1230	1602
13:19:23	60	2975	2	57	-1	1259	1608
13:20:23	60	2978	3	57	0	1259	1614
13:21:23	60	2982	4	58	-1	1259	1614
13:22:23	60	2985	3	57	-1	1347	1628
13:23:23	60	2990	5	58	1	1277	1634
13:24:23	60	2997	7	58	0	1406	1640
13:25:23	60	3000	3	58	0	1376	1643

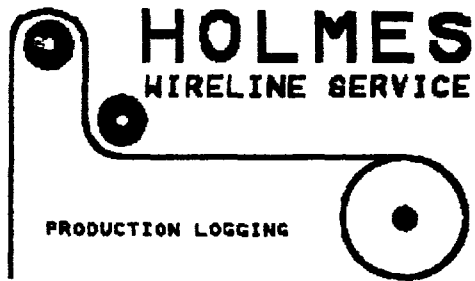
Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:26:23	60	3004	4	57	-1	1347	1646
13:27:23	60	3007	3	58	1	1347	1649
13:28:23	60	3012	5	59	1	1347	1655
13:29:23	60	3017	5	58	-1	1347	1658
13:30:23	60	3019	2	57	-1	1347	1661
13:31:23	60	3024	5	58	1	1347	1664
13:32:23	60	3026	2	57	-1	1347	1666
13:33:23	60	3029	3	58	1	1347	1672
13:34:23	60	3034	5	58	0	1347	1675
13:35:23	60	3036	2	56	-2	1327	1675
13:36:23	60	3041	5	57	1	1350	1681
13:37:23	60	3043	2	57	0	1347	1687
13:38:23	60	3048	5	56	-1	1347	1690
13:39:23	60	3051	3	58	2	1347	1690
13:40:23	60	3053	2	56	-2	1347	1693
13:41:23	60	3058	5	56	0	1347	1699
13:42:23	60	3061	3	58	2	1347	1702
13:43:23	60	3065	4	56	-2	1347	1705
13:44:23	60	3070	5	58	2	1450	1716
13:45:23	60	3073	3	58	0	1435	1722
13:46:23	60	3078	5	57	-1	1435	1725
13:47:23	60	3083	5	56	-1	1435	1728
13:48:23	60	3085	2	57	1	1464	1734
13:49:23	60	3090	5	57	0	1456	1740
13:50:23	60	3092	2	56	-1	1464	1746
13:51:23	60	3095	3	57	1	1441	1746
13:52:23	60	3100	5	57	0	1464	1751
13:53:23	60	3105	5	55	-2	1458	1754
13:54:23	60	3107	2	56	1	1464	1760
13:55:23	60	3109	2	56	0	1464	1760
13:56:23	60	3112	3	56	0	1456	1763
13:57:23	60	3117	5	58	2	1464	1769
13:58:23	60	3119	2	56	-2	1464	1769
13:59:23	60	3122	3	57	1	1456	1772
14: 0:23	60	3126	4	57	0	1464	1778
14: 1:23	60	3131	5	57	0	1582	1792
14: 2:23	60	3136	5	55	-2	1582	1795
14: 3:23	60	3139	3	56	1	1552	1798
14: 4:23	60	3144	5	55	-1	1552	1801
14: 5:23	60	3148	4	58	3	1552	1807
14: 6:23	60	3148	0	57	-1	1523	1807
14: 7:23	60	3153	5	55	-2	1552	1813
14: 8:23	60	3156	3	56	1	1543	1813
14: 9:23	60	3161	5	57	1	1552	1819
14:10:23	60	3163	2	57	0	1552	1822
14:11:23	60	3168	5	56	-1	1552	1828
14:12:23	60	3168	0	55	-1	1552	1831
14:13:23	60	3173	5	56	1	1552	1831
14:14:23	60	3175	2	57	1	1552	1836
14:15:23	60	3180	5	54	-3	1552	1839
14:16:23	60	3180	0	56	2	1552	1842
14:17:23	60	3185	5	57	1	1543	1845
14:18:23	60	3185	0	56	-1	1552	1848
14:19:23	60	3192	7	57	1	1529	1851
14:20:23	60	3192	0	56	-1	1552	1854
14:21:23	60	3166	-26	55	-1	1075	1801

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
14:22:23	60	3153	-13	56	1	0	1760
14:23:23	60	3141	-12	56	0	0	1749
14:24:23	60	3131	-10	55	-1	0	1737
14:25:23	60	3124	-7	57	2	0	1728
14:26:23	60	3114	-10	57	0	0	1719
14:27:23	60	3105	-9	56	-1	0	1713
14:28:23	60	3097	-8	57	1	0	1705
14:29:23	60	3092	-5	56	-1	0	1696
14:30:23	60	3083	-9	58	2	0	1690
14:31:23	60	3075	-8	57	-1	0	1681
14:32:23	60	3070	-5	58	1	0	1675
14:33:23	60	3063	-7	57	-1	0	1666
14:34:23	60	3056	-7	57	0	0	1661
14:35:23	60	3048	-8	57	0	0	1655
14:35:37	14	3048	0	59	2	0	1646
14:35:42	5	3048	0	59	0	0	1646
14:35:47	5	3046	-2	57	-2	0	1643
14:35:52	5	3046	0	57	0	0	1643
14:35:57	5	3046	0	58	1	0	1643
14:36: 2	5	3046	0	57	-1	0	1643
14:36: 7	5	3046	0	58	1	0	1643

# SOCORRO : WEST "B" # 22Y



HOLMES PART AT 428 BPD WITH 1668 PSI



# Digital Data Acquisition System

COMPANY.....:SOCORRO  
WELL NAME/#....:WEST B # 22  
FIELD.....:N/A  
COUNTY.....:LEA STATE...:NEW MEXICO FILE NAME...:soc22y.log  
LOCATION.....:N/A  
BLOCK.....:N/A SECTION.:N/A  
PERM. DAT.....:GROUND LEVEL ELEV.....:N/A L.M.F.:GROUND LEVEL

.....

DATE.....: 2/21/1990  
TYPE SURVEY...:STEP RATE TESTS  
DEPTH DRILLER.:N/A DEPTH LOGGER.:SURFACE  
WELL STATUS...:INJECTION  
HOLE FLUID....:WATER  
INJ. RATE.....:0 - 650 BPD  
PROD: OIL bpd.:- WATER bpd...:- GAS mcf...:-  
MAX. REC. TEMP:-  
PRESS: TUBING.:1100 - 1900 PSI CASING.....:-  
CASING SIZE...:- DEPTH.....:-  
TUBING SIZE...:2 3/8" F.G. DEPTH.....:3178'  
PACKER @.....:" TUBING TAIL:-  
TRUCK NO.....:T - 106 TOOL SIZE...:1 1/2" TOOL NO.:SIE PSI  
RECORDED BY...:MONTY HOMES  
WITNESSED BY...:N/A  
ENGINEER.....:N/A

.....

PERFORATIONS...:TOP PERF @ 3260'  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A  
: N/A

HOLMES WIRELINE SERVICE, INC.  
End of Job Comments

STEP RATE TEST WITH SURF.PSI  
UNABLE TO GET THRU TUBING VALVE.

RATE	SURF.PSI
0	1105
75	1147
150	1234
225	1352
300	1479
380	1593
440	1681
525	1762
600	1823
650 (AVG)	1874

15 MIN. FALL-OFF 1777

END TESTS.

## HOLMES WIRELINE SERVICE, INC.

## Volume Data

\* (last record = total volume)

Date	Time	Volume	
2/21/1990	12:30:25	4.6776158	bb1
2/21/1990	13: 9: 4	1.9248208	bb1
2/21/1990	13:35: 0	2.6633067	bb1
2/21/1990	14:15: 6	6.1570061	bb1
2/21/1990	15: 0: 5	9.4249460	bb1
2/21/1990	15:45:12	11.6819490	bb1
2/21/1990	16:30:28	13.7505425	bb1
2/21/1990	17:15: 4	16.0958862	bb1
2/21/1990	18: 0:12	18.6401028	bb1
2/21/1990	18:47:51	19.9989827	bb1
2/21/1990	19: 0:28	0.0000000	bb1
99/99/ 99	99:99:99	105.0151586	bb1



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BFD)	Surf Pres (PSIG)
11:55:47	0	1129	0	70	0	0	0
11:56: 2	15	1129	0	68	-2	0	0
11:56:17	15	1126	-3	65	-3	0	0
11:56:32	15	1126	0	67	2	0	0
11:56:47	15	1124	-2	69	2	0	0
11:57: 2	15	1124	0	68	-1	0	0
11:57:17	15	1124	0	69	1	0	0
11:57:32	15	1124	0	69	0	0	0
11:57:47	15	1124	0	69	0	0	0
11:58: 2	15	1122	-2	71	2	0	0
11:58:17	15	1122	0	65	-6	0	0
11:58:32	15	1122	0	69	4	0	0
11:58:47	15	1122	0	68	-1	0	0
11:59: 2	15	1122	0	69	1	0	0
11:59:17	15	1119	-3	70	1	0	0
11:59:32	15	1119	0	71	1	0	0
11:59:47	15	1124	5	71	0	0	0
12: 0: 2	15	1122	-2	69	-2	0	0
12: 0:17	15	1122	0	67	-2	0	0
12: 0:32	15	1126	4	66	-1	0	0
12: 0:47	15	1126	0	68	2	0	0
12: 1: 2	15	1126	0	65	-3	0	0
12: 1:17	15	1126	0	63	-2	0	0
12: 1:32	15	1126	0	66	3	0	0
12: 1:47	15	1126	0	65	-1	0	0
12: 2: 2	15	1124	-2	66	1	0	0
12: 2:17	15	1122	-2	65	-1	0	0
12: 2:32	15	1122	0	68	3	182	0
12: 2:47	15	1119	-3	67	-1	0	0
12: 3: 2	15	1119	0	69	2	0	0
12: 3:17	15	1119	0	65	-4	0	0
12: 3:32	15	1119	0	67	2	0	0
12: 3:47	15	1119	0	69	2	40	744
12: 4: 2	15	1117	-2	66	-3	0	0
12: 4:17	15	1117	0	67	1	0	0
12: 4:32	15	1117	0	67	0	0	0
12: 4:47	15	1117	0	67	0	0	0
12: 5: 2	15	1117	0	65	-2	0	0
12: 5:17	15	1114	-3	69	4	0	0
12: 5:32	15	1117	3	67	-2	0	0
12: 5:47	15	1114	-3	65	-2	0	0
12: 6: 2	15	1114	0	66	1	0	0
12: 6:17	15	1114	0	66	0	0	0
12: 6:32	15	1114	0	65	-1	0	0
12: 6:47	15	1114	0	65	0	0	0
12: 7: 2	15	1112	-2	66	1	55	-6000
12: 7:17	15	1112	0	65	-1	60	0
12: 7:32	15	1112	0	68	3	14	0
12: 7:47	15	1112	0	63	-5	0	-905
12: 8: 2	15	1112	0	70	7	0	0
12: 8:17	15	1112	0	69	-1	0	0
12: 8:32	15	1112	0	64	-5	0	0
12: 8:47	15	1109	-3	66	2	52	5997
12: 9: 2	15	1107	-2	68	2	50	5997
12: 9:17	15	1109	2	68	0	588	5997
12: 9:32	15	1109	0	66	-2	44	796

Holmes Wireline Service, Inc.  
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: 9:47	15	1107	-2	65	-1	68	-6000
12:10: 2	15	1107	0	67	2	33	5997
12:10:17	15	1107	0	66	-1	140	0
12:10:32	15	1107	0	69	3	1773	-5976
12:10:47	15	1107	0	69	0	40	219
12:11: 2	15	1105	-2	68	-1	650	5997
12:11:17	15	1105	0	67	-1	4470	0
12:11:32	15	1105	0	67	0	52	5997
12:11:47	15	1105	0	69	2	878	0
12:12: 2	15	1102	-3	69	0	1866	0
12:12:17	15	1102	0	65	-4	448	-6000
12:12:32	15	1102	0	67	2	175	0
12:12:47	15	1102	0	64	-3	47	0
12:13: 2	15	1102	0	66	2	78	0
12:13:17	15	1102	0	66	0	91	-6000
12:13:32	15	1102	0	69	3	0	0
12:13:47	15	1102	0	64	-5	0	0
12:14: 2	15	1102	0	69	5	0	0
12:14:17	15	1100	-2	67	-2	0	0
12:14:32	15	1100	0	68	1	0	0
12:14:47	15	1100	0	63	-5	0	0
12:15: 2	15	1100	0	65	2	0	0
12:15:17	15	1095	-5	65	0	0	0
12:15:32	15	1100	5	67	2	0	0
12:15:47	15	1100	0	68	1	0	0
12:16: 2	15	1097	-3	66	-2	0	0
12:16:17	15	1100	3	68	2	0	0
12:16:32	15	1095	-5	65	-3	0	0
12:16:47	15	1097	2	64	-1	0	0
12:17: 2	15	1097	0	67	3	0	0
12:17:17	15	1095	-2	66	-1	0	0
12:17:32	15	1095	0	68	2	0	0
12:17:47	15	1095	0	67	-1	0	0
12:18: 2	15	1095	0	67	0	0	0
12:18:17	15	1095	0	69	2	0	0
12:18:32	15	1095	0	70	1	0	0
12:18:47	15	1095	0	66	-4	0	0
12:19: 2	15	1092	-3	65	-1	0	0
12:19:17	15	1092	0	65	0	0	0
12:19:32	15	1092	0	67	2	0	0
12:19:47	15	1092	0	65	-2	0	0
12:20: 2	15	1092	0	65	0	0	0
12:20:17	15	1090	-2	66	1	0	0
12:20:32	15	1092	2	67	1	0	0
12:20:47	15	1090	-2	66	-1	0	0
12:21: 2	15	1090	0	70	4	0	0
12:21:17	15	1087	-3	65	-5	0	0
12:21:32	15	1090	3	67	2	0	0
12:21:47	15	1087	-3	66	-1	0	0
12:22: 2	15	1090	3	65	-1	0	0
12:22:17	15	1087	-3	64	-1	0	0
12:22:32	15	1090	3	69	5	0	0
12:22:47	15	1087	-3	67	-2	0	0
12:23: 2	15	1085	-2	68	1	0	0
12:23:17	15	1090	5	68	0	0	0
12:23:32	15	1090	0	64	-4	0	0

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:23:47	15	1087	-3	67	3	0	0
12:24: 2	15	1087	0	68	1	0	0
12:24:17	15	1087	0	66	-2	0	0
12:24:32	15	1085	-2	67	1	0	0
12:24:47	15	1087	2	66	-1	0	0
12:25: 2	15	1087	0	65	-1	0	0
12:25:17	15	1085	-2	67	2	0	0
12:25:32	15	1085	0	66	-1	0	0
12:25:47	15	1085	0	68	2	0	0
12:26: 2	15	1085	0	66	-2	0	0
12:26:17	15	1083	-2	66	0	0	0
12:26:32	15	1080	-3	68	2	0	0
12:26:47	15	1085	5	69	1	0	0
12:27: 2	15	1085	0	65	-4	0	0
12:27:17	15	1083	-2	65	0	0	0
12:27:32	15	1085	2	66	1	0	0
12:27:47	15	1085	0	67	1	0	0
12:28: 2	15	1085	0	68	1	0	0
12:28:17	15	1083	-2	68	0	0	0
12:28:32	15	1083	0	70	2	0	0
12:28:47	15	1085	2	67	-3	0	0
12:29: 2	15	1083	-2	64	-3	0	0
12:29:17	15	1083	0	70	6	0	0
12:29:32	15	1083	0	65	-5	0	0
12:29:47	15	1080	-3	67	2	0	0
12:30: 2	15	1080	0	68	1	0	0
12:30:17	15	1083	3	67	-1	0	0
12:30:32	15	1080	-3	68	1	0	0
12:30:47	15	1080	0	68	0	0	0
12:31: 2	15	1087	7	68	0	0	0
12:31:17	15	1090	3	67	-1	0	0
12:31:32	15	1090	0	67	0	0	0
12:31:47	15	1092	2	68	1	0	0
12:32: 2	15	1092	0	67	-1	0	0
12:32:17	15	1092	0	69	2	0	0
12:32:32	15	1092	0	67	-2	0	0
12:32:47	15	1095	3	68	1	0	0
12:33: 2	15	1092	-3	62	-6	0	0
12:33:17	15	1092	0	63	1	0	0
12:33:32	15	1095	3	63	0	0	0
12:33:47	15	1095	0	63	0	0	0
12:34: 2	15	1097	2	65	2	0	0
12:34:17	15	1095	-2	63	-2	0	0
12:34:32	15	1100	5	64	1	0	0
12:34:47	15	1100	0	67	3	0	0
12:35: 2	15	1102	2	64	-3	21	1013
12:35:17	15	1102	0	62	-2	0	-480
12:35:32	15	1102	0	65	3	0	0
12:35:47	15	1102	0	65	0	75	1025
12:36: 2	15	1102	0	64	-1	75	1025
12:36:17	15	1102	0	65	1	75	1025
12:36:32	15	1105	3	65	0	75	1025
12:36:47	15	1105	0	62	-3	75	1019
12:37: 2	15	1105	0	65	3	75	1045
12:37:17	15	1105	0	65	0	75	1107
12:37:32	15	1105	0	63	-2	75	1110

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
12:37:47	15	1102	-3	62	-1	75	1107
12:38: 2	15	1105	3	64	2	75	1107
12:38:17	15	1107	2	65	1	75	1110
12:38:32	15	1107	0	64	-1	75	1113
12:38:47	15	1107	0	64	0	75	1113
12:39: 2	15	1109	2	62	-2	75	1113
12:39:17	15	1109	0	64	2	75	1113
12:39:32	15	1109	0	64	0	75	1113
12:39:47	15	1109	0	64	0	75	1113
12:40: 2	15	1109	0	62	-2	75	1113
12:40:17	15	1112	3	63	1	75	1113
12:40:32	15	1112	0	62	-1	75	1113
12:40:47	15	1112	0	64	2	75	1116
12:41:49	62	1112	0	63	-1	75	1116
12:42:49	60	1114	2	63	0	75	1119
12:43:49	60	1114	0	61	-2	75	1119
12:44:49	60	1114	0	65	4	75	1119
12:45:49	60	1114	0	62	-3	75	1122
12:46:49	60	1119	5	63	1	75	1125
12:47:49	60	1119	0	61	-2	75	1125
12:48:49	60	1119	0	61	0	75	1127
12:49:49	60	1122	3	62	1	75	1127
12:50:49	60	1119	-3	62	0	75	1127
12:51:49	60	1122	3	63	1	75	1127
12:52:49	60	1124	2	65	2	75	1127
12:53:49	60	1122	-2	62	-3	75	1130
12:54:49	60	1124	2	61	-1	75	1133
12:55:49	60	1124	0	64	3	75	1130
12:56:49	60	1126	2	62	-2	75	1130
12:57:49	60	1124	-2	62	0	75	1133
12:58:49	60	1131	7	61	-1	75	1136
12:59:49	60	1131	0	64	3	75	1139
13: 0:49	60	1134	3	62	-2	75	1142
13: 1:49	60	1139	5	66	4	73	1145
13: 2:49	60	1141	2	62	-4	75	1148
13: 3:49	60	1144	3	62	0	74	1151
13: 4:49	60	1144	0	64	2	73	1151
13: 5:49	60	1146	2	64	0	75	1154
13: 6:49	60	1156	10	63	-1	75	1154
13: 7:49	60	1161	5	65	2	145	1163
13: 8:49	60	1166	5	64	-1	155	1171
13: 9:49	60	1170	4	64	0	150	1174
13:10:49	60	1175	5	63	-1	150	1177
13:11:49	60	1178	3	65	2	150	1180
13:12:49	60	1180	2	68	3	150	1186
13:13:49	60	1185	5	65	-3	148	1189
13:14:49	60	1188	3	66	1	149	1192
13:15:49	60	1190	2	65	-1	148	1198
13:16:49	60	1192	2	65	0	148	1201
13:17:49	60	1195	3	62	-3	147	1204
13:18:49	60	1200	5	67	5	148	1207
13:19:49	60	1200	0	65	-2	148	1209
13:20:49	60	1202	2	68	3	148	1212
13:21:49	60	1205	3	66	-2	148	1215
13:22:49	60	1210	5	63	-3	148	1218
13:23:49	60	1210	0	65	2	147	1221

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
13:24:49	60	1212	2	68	3	148	1221
13:25:49	60	1214	2	69	1	148	1224
13:26:49	60	1217	3	67	-2	147	1227
13:27:49	60	1217	0	68	1	147	1230
13:28:49	60	1219	2	67	-1	145	1230
13:29:49	60	1222	3	69	2	145	1233
13:30:49	60	1224	2	66	-3	145	1239
13:31:49	60	1224	0	69	3	145	1239
13:32:49	60	1227	3	71	2	145	1242
13:33:49	60	1231	4	66	-5	145	1242
13:34:49	60	1231	0	67	1	145	1245
13:35:49	60	1244	13	67	0	145	1245
13:36:49	60	1249	5	65	-2	233	1256
13:37:49	60	1253	4	65	0	221	1265
13:38:49	60	1261	8	69	4	221	1268
13:39:49	60	1266	5	65	-4	238	1277
13:40:49	60	1266	0	68	3	233	1280
13:41:49	60	1271	5	67	-1	223	1286
13:42:49	60	1271	0	68	1	220	1289
13:43:49	60	1275	4	67	-1	217	1289
13:44:49	60	1278	3	69	2	216	1291
13:45:49	60	1280	2	66	-3	219	1294
13:46:49	60	1283	3	65	-1	216	1297
13:47:49	60	1288	5	66	1	215	1300
13:48:49	60	1290	2	72	6	218	1303
13:49:49	60	1293	3	68	-4	218	1309
13:50:49	60	1295	2	66	-2	216	1309
13:51:49	60	1297	2	68	2	216	1312
13:52:49	60	1300	3	67	-1	216	1315
13:53:49	60	1300	0	65	-2	216	1318
13:54:49	60	1305	5	71	6	216	1321
13:55:49	60	1307	2	64	-7	216	1324
13:56:49	60	1310	3	70	6	216	1327
13:57:49	60	1315	5	68	-2	233	1333
13:58:49	60	1317	2	70	2	223	1335
13:59:49	60	1317	0	66	-4	223	1335
14: 0:49	60	1319	2	68	2	221	1335
14: 1:49	60	1322	3	64	-4	221	1338
14: 2:49	60	1324	2	67	3	221	1341
14: 3:49	60	1327	3	68	1	221	1344
14: 4:49	60	1329	2	70	2	220	1344
14: 5:49	60	1329	0	67	-3	219	1350
14: 6:49	60	1334	5	68	1	218	1353
14: 7:49	60	1336	2	67	-1	241	1356
14: 8:49	60	1339	3	70	3	228	1362
14: 9:49	60	1339	0	70	0	223	1362
14:10:49	60	1341	2	71	1	221	1362
14:11:49	60	1344	3	69	-2	218	1362
14:12:49	60	1346	2	70	1	220	1362
14:13:49	60	1349	3	66	-4	220	1368
14:14:49	60	1351	2	67	1	220	1368
14:15:49	60	1361	10	68	1	219	1371
14:16:49	60	1368	7	71	3	324	1382
14:17:49	60	1373	5	70	-1	317	1391
14:18:49	60	1373	0	68	-2	305	1394
14:19:49	60	1378	5	69	1	299	1400

## 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)
14:20:49	60	1383	5	70	1	299	1403
14:21:49	60	1385	2	67	-3	298	1403
14:22:49	60	1388	3	66	-1	306	1406
14:23:49	60	1393	5	68	2	308	1415
14:24:49	60	1398	5	71	3	309	1420
14:25:49	60	1402	4	71	0	309	1423
14:26:49	60	1402	0	69	-2	306	1426
14:27:49	60	1407	5	68	-1	306	1429
14:28:49	60	1410	3	69	1	304	1432
14:29:49	60	1410	0	73	4	301	1435
14:30:49	60	1412	2	71	-2	301	1438
14:31:49	60	1415	3	70	-1	301	1441
14:32:49	60	1417	2	71	1	294	1447
14:33:49	60	1420	3	71	0	296	1447
14:34:49	60	1422	2	69	-2	296	1447
14:35:49	60	1424	2	70	1	296	1447
14:36:49	60	1427	3	69	-1	304	1453
14:37:49	60	1434	7	73	4	320	1461
14:38:49	60	1434	0	71	-2	314	1461
14:39:49	60	1437	3	70	-1	313	1461
14:40:49	60	1439	2	70	0	305	1467
14:41:49	60	1442	3	72	2	311	1467
14:42:49	60	1444	2	72	0	310	1473
14:43:49	60	1446	2	66	-6	304	1476
14:44:49	60	1446	0	67	1	304	1479
14:45:49	60	1451	5	69	2	304	1482
14:46:49	60	1454	3	70	1	301	1485
14:47:49	60	1454	0	70	0	301	1479
14:48:49	60	1456	2	71	1	300	1482
14:49:49	60	1459	3	72	1	295	1488
14:50:49	60	1461	2	68	-4	298	1491
14:51:49	60	1461	0	72	4	299	1491
14:52:49	60	1463	2	65	-7	296	1491
14:53:49	60	1463	0	73	8	296	1497
14:54:49	60	1466	3	70	-3	288	1494
14:55:49	60	1468	2	74	4	309	1500
14:56:49	60	1471	3	68	-6	306	1500
14:57:49	60	1473	2	75	7	306	1502
14:58:49	60	1473	0	75	0	299	1505
14:59:49	60	1476	3	74	-1	296	1502
15: 0:49	60	1485	9	74	0	302	1508
15: 1:49	60	1490	5	74	0	381	1520
15: 2:49	60	1493	3	70	-4	351	1523
15: 3:49	60	1498	5	69	-1	357	1532
15: 4:49	60	1503	5	66	-3	380	1535
15: 5:49	60	1505	2	69	3	380	1541
15: 6:49	60	1507	2	72	3	380	1543
15: 7:49	60	1512	5	70	-2	380	1546
15: 8:49	60	1515	3	71	1	380	1549
15: 9:49	60	1517	2	72	1	380	1555
15:10:49	60	1525	8	74	2	363	1558
15:11:49	60	1522	-3	74	0	380	1564
15:12:49	60	1527	5	71	-3	380	1564
15:13:49	60	1529	2	72	1	380	1570
15:14:49	60	1532	3	75	3	380	1570
15:15:49	60	1537	5	72	-3	380	1573

Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
15:16:49	60	1537	0	70	-2	380	1579
15:17:49	60	1539	2	74	4	380	1582
15:18:49	60	1542	3	71	-3	380	1584
15:19:49	60	1544	2	69	-2	380	1584
15:20:49	60	1544	0	71	2	380	1590
15:21:49	60	1547	3	72	1	351	1590
15:22:49	60	1549	2	70	-2	380	1593
15:23:49	60	1551	2	72	2	351	1593
15:24:49	60	1554	3	71	-1	380	1596
15:25:49	60	1556	2	67	-4	380	1599
15:26:49	60	1559	3	71	4	380	1599
15:27:49	60	1559	0	73	2	366	1602
15:28:49	60	1564	5	71	-2	372	1605
15:29:49	60	1566	2	72	1	380	1611
15:30:49	60	1566	0	70	-2	380	1611
15:31:49	60	1568	2	72	2	380	1614
15:32:49	60	1571	3	73	1	380	1614
15:33:49	60	1573	2	73	0	380	1617
15:34:49	60	1573	0	71	-2	377	1617
15:35:49	60	1573	0	73	2	380	1620
15:36:49	60	1578	5	74	1	351	1623
15:37:49	60	1578	0	72	-2	351	1623
15:38:49	60	1581	3	73	1	351	1625
15:39:49	60	1583	2	72	-1	351	1628
15:40:49	60	1583	0	72	0	351	1628
15:41:49	60	1586	3	73	1	351	1631
15:42:49	60	1590	4	75	2	380	1634
15:43:49	60	1590	0	74	-1	380	1634
15:44:49	60	1590	0	73	-1	380	1637
15:45:49	60	1603	13	71	-2	380	1640
15:46:49	60	1605	2	76	5	498	1652
15:47:49	60	1610	5	71	-5	439	1655
15:48:49	60	1612	2	74	3	439	1661
15:49:49	60	1615	3	73	-1	439	1661
15:50:49	60	1617	2	76	3	439	1666
15:51:49	60	1620	3	73	-3	439	1666
15:52:49	60	1622	2	72	-1	439	1669
15:53:49	60	1622	0	72	0	439	1669
15:54:49	60	1627	5	75	3	439	1675
15:55:49	60	1627	0	73	-2	439	1675
15:56:49	60	1630	3	74	1	439	1675
15:57:49	60	1630	0	75	1	439	1678
15:58:49	60	1630	0	70	-5	439	1675
15:59:49	60	1632	2	75	5	410	1675
16: 0:49	60	1637	5	73	-2	439	1681
16: 1:49	60	1639	2	71	-2	439	1684
16: 2:49	60	1639	0	73	2	439	1687
16: 3:49	60	1642	3	71	-2	439	1690
16: 4:49	60	1642	0	75	4	439	1690
16: 5:49	60	1644	2	73	-2	421	1690
16: 6:49	60	1647	3	74	1	439	1696
16: 7:49	60	1649	2	74	0	439	1696
16: 8:49	60	1649	0	75	1	439	1699
16: 9:49	60	1652	3	76	1	439	1699
16:10:49	60	1654	2	73	-3	439	1702
16:11:49	60	1654	0	74	1	439	1702

Holmes Wireline Service, Inc.  
Well Test Data

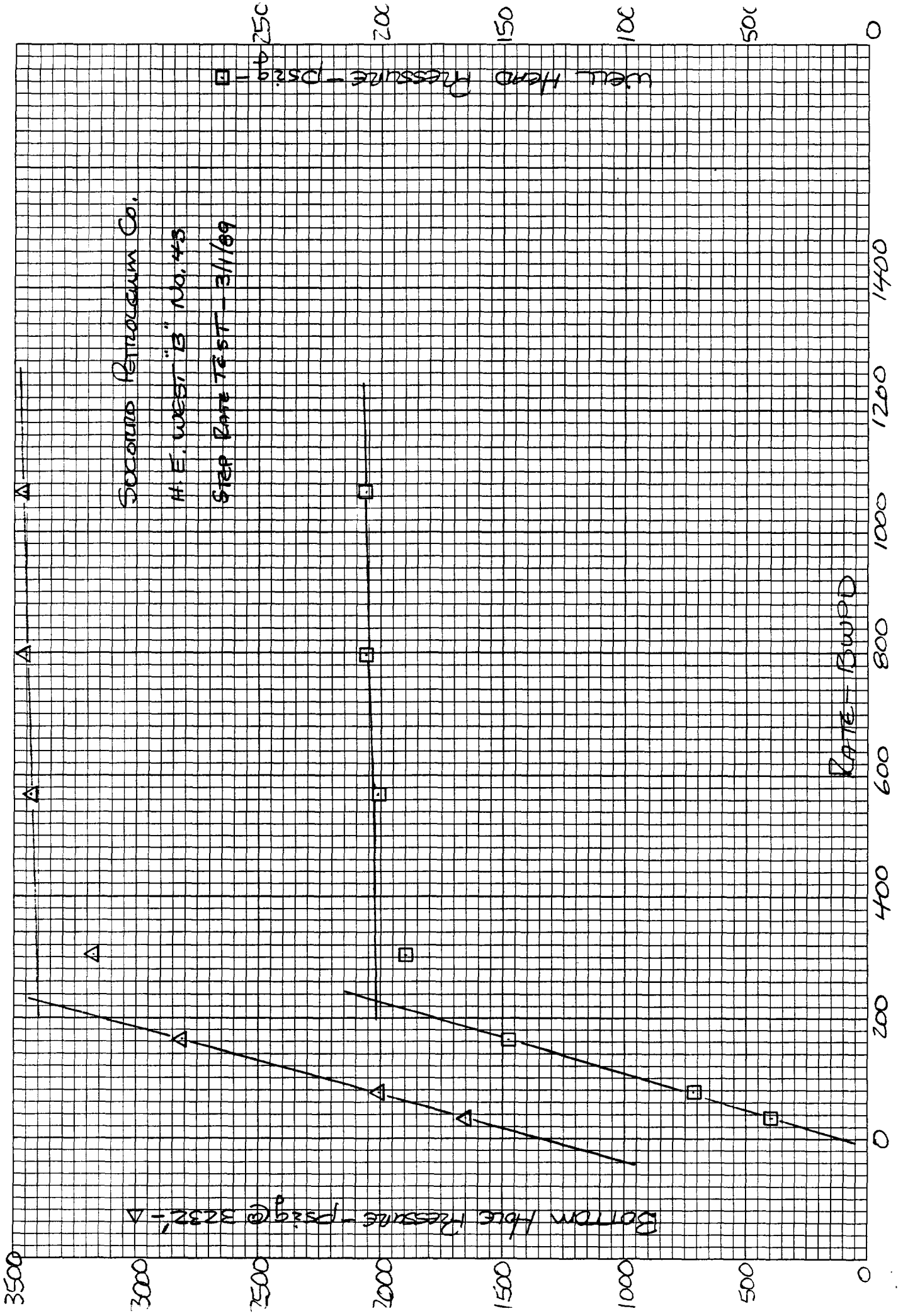
Time of Day	Time (sec.)	Pressure (PSIG)	Pressure (PSIG)	Temperature (deg. F)	Time (deg)	Flow (BPD)	Pressure (PSIG)
16:12:49	60	1659	5	74	0	436	1705
16:13:49	60	1659	0	72	-2	439	1708
16:14:49	60	1661	2	72	0	439	1710
16:15:49	60	1661	0	73	1	439	1713
16:16:49	60	1664	3	76	3	439	1713
16:17:49	60	1664	0	76	0	439	1713
16:18:49	60	1664	0	73	-3	439	1716
16:19:49	60	1666	2	71	-2	439	1716
16:20:49	60	1669	3	72	1	439	1716
16:21:49	60	1669	0	75	3	439	1719
16:22:49	60	1669	0	72	-3	433	1722
16:23:49	60	1671	2	74	2	418	1722
16:24:49	60	1673	2	72	-2	410	1722
16:25:49	60	1673	0	72	0	424	1725
16:26:49	60	1673	0	75	3	436	1728
16:27:49	60	1678	5	74	-1	439	1728
16:28:49	60	1681	3	74	0	439	1731
16:29:49	60	1678	-3	75	1	439	1731
16:30:49	60	1681	3	76	1	439	1734
16:31:49	60	1693	12	72	-4	439	1737
16:32:49	60	1695	2	75	3	527	1751
16:33:49	60	1698	3	74	-1	498	1751
16:34:49	60	1700	2	75	1	498	1754
16:35:49	60	1703	3	75	0	498	1757
16:36:49	60	1705	2	69	-6	527	1760
16:37:49	60	1708	3	76	7	527	1763
16:38:49	60	1710	2	77	1	527	1763
16:39:49	60	1710	0	78	1	515	1766
16:40:49	60	1713	3	76	-2	503	1769
16:41:49	60	1717	4	76	0	527	1772
16:42:49	60	1717	0	78	2	527	1775
16:43:49	60	1720	3	73	-5	527	1778
16:44:49	60	1720	0	74	1	527	1778
16:45:49	60	1720	0	74	0	527	1781
16:46:49	60	1722	2	72	-2	527	1781
16:47:49	60	1727	5	74	2	527	1784
16:48:49	60	1725	-2	72	-2	527	1787
16:49:49	60	1727	2	76	4	506	1787
16:50:49	60	1730	3	72	-4	498	1790
16:51:49	60	1727	-3	72	0	498	1790
16:52:49	60	1737	10	76	4	498	1792
16:53:49	60	1737	0	72	-4	556	1798
16:54:49	60	1735	-2	74	2	527	1798
16:55:49	60	1737	2	72	-2	527	1801
16:56:49	60	1737	0	75	3	527	1801
16:57:49	60	1739	2	70	-5	527	1801
16:58:49	60	1739	0	76	6	527	1801
16:59:49	60	1742	3	73	-3	527	1807
17: 0:49	60	1744	2	72	-1	527	1807
17: 1:49	60	1744	0	71	-1	527	1807
17: 2:49	60	1747	3	70	-1	503	1810
17: 3:49	60	1747	0	69	-1	509	1810
17: 4:49	60	1749	2	71	2	509	1813
17: 5:49	60	1749	0	72	1	498	1813
17: 6:49	60	1752	3	70	-2	498	1813
17: 7:49	60	1754	2	70	0	527	1816



Time of Day	Delta Time (sec.)	Pressure (PSIG)	Delta Pressure (PSIG)	Temperature (deg. F)	Delta Temp. (deg)	Flow Rate (BPD)	Surf Pres (PSIG)
17: 8:49	60	1757	3	72	2	527	1819
17: 9:49	60	1757	0	72	0	527	1819
17:10:49	60	1757	0	68	-4	527	1822
17:11:49	60	1757	0	72	4	527	1819
17:12:49	60	1759	2	71	-1	527	1822
17:13:49	60	1759	0	72	1	527	1822
17:14:49	60	1759	0	72	0	512	1825
17:15:49	60	1771	12	74	2	498	1825
17:16:49	60	1776	5	70	-4	615	1839
17:17:49	60	1776	0	69	-1	606	1842
17:18:49	60	1776	0	71	2	585	1845
17:19:49	60	1778	2	73	2	585	1845
17:20:49	60	1781	3	71	-2	585	1848
17:21:49	60	1783	2	72	1	615	1854
17:22:49	60	1783	0	72	0	615	1854
17:23:49	60	1786	3	70	-2	615	1857
17:24:49	60	1788	2	70	0	612	1857
17:25:49	60	1788	0	72	2	615	1860
17:26:49	60	1788	0	69	-3	585	1863
17:27:49	60	1791	3	71	2	585	1863
17:28:49	60	1793	2	69	-2	588	1866
17:29:49	60	1793	0	72	3	615	1869
17:30:49	60	1793	0	71	-1	615	1866
17:31:49	60	1796	3	70	-1	615	1869
17:32:49	60	1796	0	66	-4	597	1872
17:33:49	60	1798	2	71	5	585	1872
17:34:49	60	1798	0	72	1	585	1872
17:35:49	60	1798	0	70	-2	585	1872
17:36:49	60	1800	2	71	1	585	1875
17:37:49	60	1800	0	70	-1	585	1875
17:38:49	60	1803	3	72	2	615	1877
17:39:49	60	1805	2	73	1	615	1877
17:40:49	60	1805	0	72	-1	615	1880
17:41:49	60	1808	3	64	-8	615	1880
17:42:49	60	1808	0	72	8	615	1883
17:43:49	60	1808	0	65	-7	600	1883
17:44:49	60	1805	-3	65	0	606	1883
17:45:49	60	1810	5	61	-4	612	1880
17:46:49	60	1810	0	66	5	585	1883
17:47:49	60	1813	3	66	0	585	1883
17:48:49	60	1813	0	67	1	585	1886
17:49:49	60	1813	0	66	-1	585	1886
17:50:49	60	1813	0	67	1	585	1886
17:51:49	60	1813	0	68	1	585	1886
17:52:49	60	1813	0	68	0	559	1886
17:53:49	60	1813	0	68	0	577	1886
17:54:49	60	1818	5	68	0	556	1889
17:55:49	60	1820	2	67	-1	585	1889
17:56:49	60	1820	0	66	-1	615	1895
17:57:49	60	1820	0	68	2	585	1895
17:58:49	60	1822	2	66	-2	585	1895
17:59:49	60	1822	0	67	1	585	1895
18: 0:49	60	1832	10	69	2	585	1898
18: 1:49	60	1835	3	68	-1	673	1910
18: 2:49	60	1837	2	66	-2	673	1913
18: 3:49	60	1837	0	67	1	673	1913

## 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)
18: 4:49	60	1840	3	67	0	650	1913
18: 5:49	60	1840	0	67	0	644	1916
18: 6:49	60	1840	0	68	1	644	1916
18: 7:49	60	1842	2	70	2	644	1918
18: 8:49	60	1842	0	69	-1	644	1918
18: 9:49	60	1842	0	67	-2	644	1918
18:10:49	60	1842	0	67	0	644	1918
18:11:49	60	1842	0	72	5	644	1918
18:12:49	60	1849	7	65	-7	644	1918
18:13:49	60	1852	3	69	4	673	1927
18:14:49	60	1852	0	67	-2	673	1930
18:15:49	60	1849	-3	67	0	673	1930
18:16:49	60	1852	3	69	2	673	1930
18:17:49	60	1854	2	67	-2	644	1930
18:18:49	60	1854	0	67	0	644	1933
18:19:49	60	1854	0	65	-2	644	1933
18:20:49	60	1859	5	69	4	644	1933
18:21:49	60	1857	-2	68	-1	644	1936
18:22:49	60	1859	2	66	-2	644	1933
18:23:49	60	1859	0	66	0	644	1936
18:24:49	60	1862	3	68	2	644	1933
18:25:49	60	1862	0	67	-1	644	1936
18:26:49	60	1862	0	64	-3	644	1936
18:27:49	60	1864	2	71	7	644	1939
18:28:49	60	1864	0	71	0	615	1939
18:29:49	60	1866	2	66	-5	615	1939
18:30:49	60	1866	0	68	2	615	1939
18:31:49	60	1866	0	68	0	615	1942
18:32:49	60	1866	0	64	-4	615	1942
18:33:49	60	1869	3	64	0	615	1942
18:34:49	60	1866	-3	70	6	615	1945
18:35:49	60	1869	3	68	-2	615	1945
18:36:49	60	1869	0	61	-7	615	1945
18:37:49	60	1869	0	64	3	615	1945
18:38:49	60	1871	2	66	2	615	1948
18:39:49	60	1874	3	66	0	615	1948
18:40:49	60	1874	0	65	-1	615	1948
18:41:49	60	1874	0	63	-2	615	1948
18:42:49	60	1874	0	65	2	615	1948
18:43:49	60	1874	0	65	0	606	1948
18:44:49	60	1876	2	63	-2	585	1951
18:45:49	60	1825	-51	64	1	591	1951
18:46:49	60	1810	-15	64	0	0	1388
18:47:49	60	1803	-7	62	-2	0	251
18:48:49	60	1798	-5	61	-1	0	237
18:49:49	60	1798	0	64	3	0	222
18:50:49	60	1796	-2	64	0	0	210
18:51:49	60	1793	-3	65	1	0	202
18:52:49	60	1791	-2	60	-5	0	196
18:53:49	60	1788	-3	63	3	0	187
18:54:49	60	1786	-2	62	-1	0	181
18:55:49	60	1783	-3	61	-1	0	178
18:56:49	60	1783	0	61	0	0	175
18:57:49	60	1781	-2	61	0	0	169
18:58:49	60	1778	-3	62	1	0	166



PHN WEST ENGINEERING CO.  
Step Rate Injection Test

Well Name H. E. WEST "B" NO. 43  
CO. Name HONDO OIL & GAS

Date 3/1/89

BOMB SET @ 3,232'

Remarks	Time	Tbg. Press.	Rate BPD	Total	B H P	Tbg. Press.	Rate GPM	HEAD LOSS
	10:35			0				
	10:40	358.2	40.32	.14	1598.40			
	10:45	373.5	37.44	.27	1628.70			
1	10:50	390.1		.35	1650.10	390.05	0.98	.052
			33.59					
	10:55	565.10	89.28	.66	1833.30			
	11:00	654.50	69.12	.90	1938.90			
2	11:05	726.0	63.36	1.12	2010.50	725.77	2.16	.225
			73.91					
	11:10	1150.5	167.04	1.70	2455.50			
	11:15	1407.80	168.48	2.29	2725.60			
3	11:20	1476.80		2.83	2814.50	1475.81	4.79	.985
			164.16					
	11:25	1789.20	308.16	3.90	3166.30			
	11:30	1885.20	311.04	4.98	3247.40			
4	11:35	1897.90	311.99	6.08	3276.50	1894.67	9.10	3.23
			311.99					
	11:40	2019.50	538.56	7.95	3369.70			
	11:45	2000.30	590.40	10.00	3414.60			
5	11:50	2029.70		12.04	3432.20	2019.78	16.69	9.92
			572.15				CHANGE PUMPS	
	11:55			0				
	12:00	2061.60		2.39	3455.30			
	12:05	2060.20	849.60	5.34	3465.00			
6	12:10	2069.40	840.96	8.26	3462.40	2051.25	23.13	18.15
			792.9					
	12:15	2078.0	1056.96	11.93	3472.10			
	12:20	2075.0	1065.60	15.63	3467.10			
7	12:25	2062.50	1069.00	19.40	3464.90	2047.63	31.19	31.57
FALL OFF	12:26	2079.20	1069.43		3392.60			
	12:27	1936.90			3359.40			
	12:28	1911.30			3332.70			
	12:29	1890.8			3311.90			
	12:30	1872.90			3294.00			
	12:35	1807.70			3226.60			
	12:40	1766.90						

BEFORE EXAMINER CATANACH  
OIL CONSERVATION DIVISION

Socorro

~~PETROLEUM~~ EXHIBIT NO. 6

CASE NO. 9929