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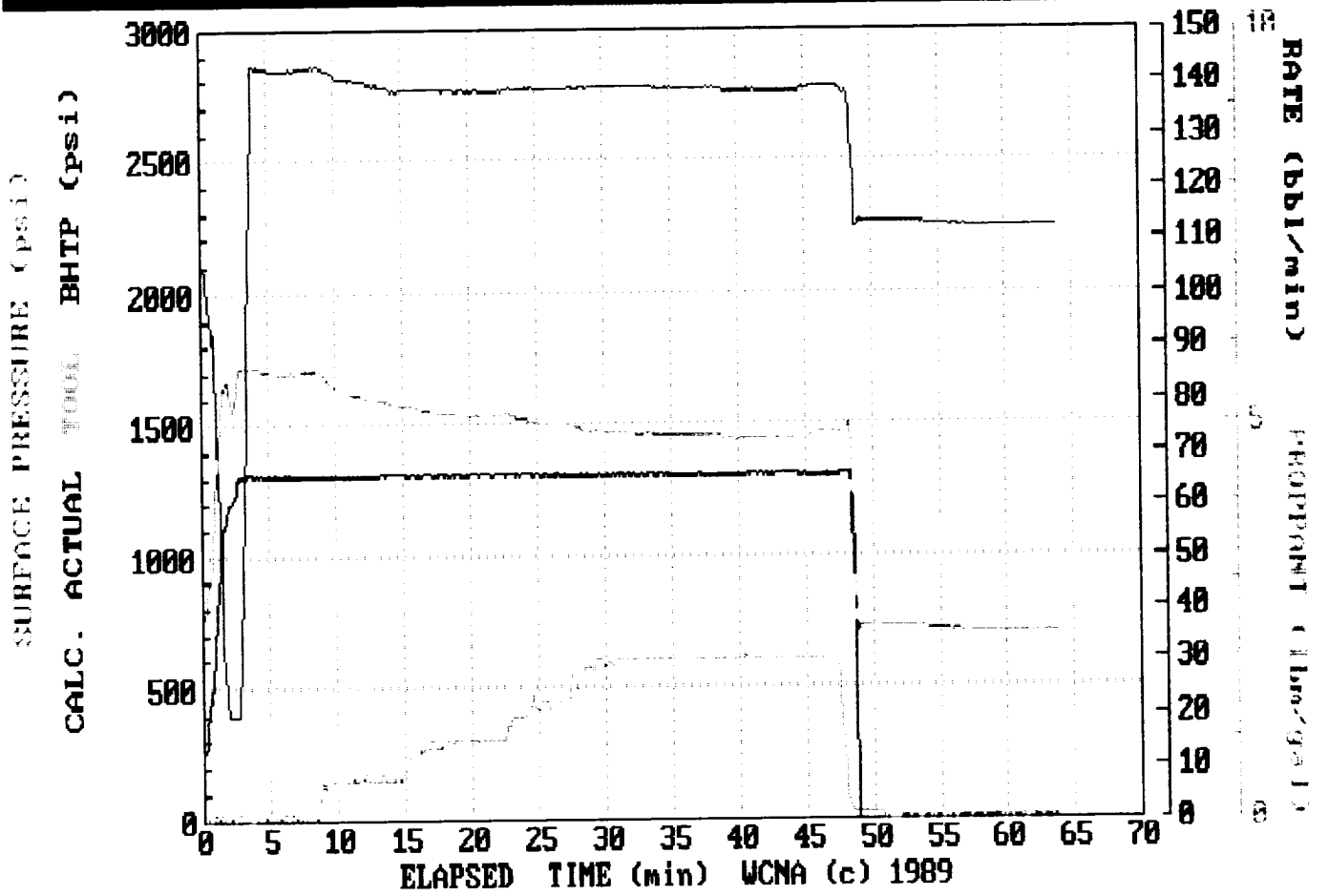
OIL CON. DIV.
DIST. 3

BJ SERVICES

**GIANT REFINERY
BLOOMFIELD WD #1
SEC.27,T29N,R11W
SAN JUAN COUNTY, NM
MESA VERDA FORMATION**

POSTFRAC *TREATMENT SUMMARY*

**MARCH 1, 1996
FARMINGTON, NM
(505) 327-6222**



[illegible]

BJ Services Company **Additive Schedule**

Operator: GIANT
Well Information: BLOOMFIELD WD#1

Date: 3/1/96
GIANTWD1

Additive: FRW-30				Planned Additive Rates					VOLUME GONE
PPG	VOLUME	LOAD	AMOUNT	50 BPM	55 BPM	60 BPM	65 BPM	70 BPM	
0.00	26000	0.75	19.50	1.58	1.73	1.89	2.05	2.20	19.50
0.50	20000	0.75	15.00	1.54	1.69	1.85	2.00	2.16	34.50
1.00	20000	0.75	15.00	1.51	1.66	1.81	1.96	2.11	49.50
1.50	20000	0.75	15.00	1.47	1.62	1.77	1.92	2.06	64.50
2.00	45000	0.75	33.75	1.44	1.59	1.73	1.88	2.02	98.25
0.00	3150	0.75	2.36	1.58	1.73	1.89	2.05	2.20	100.61

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
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0.11	770	2091	591	771	13.2	0.0	6	0
0.22	799	2078	578	798	14.9	0.0	7	0
0.30	844	2040	540	844	17.8	0.0	7	0
0.38	877	1969	469	878	20.9	0.0	7	0
0.55	923	1895	395	922	24.1	0.0	14	0
0.64	958	1851	351	959	26.0	0.0	14	0
0.72	973	1818	318	973	27.1	0.1	14	0
0.87	1212	1849	349	1207	31.4	0.1	23	0
0.98	1326	1424	100	1327	40.7	0.0	27	0
1.09	1338	1337	100	1338	42.2	0.0	31	0
1.20	1421	1278	100	1418	44.2	0.1	36	0
1.30	1520	1165	100	1514	47.2	0.1	41	100
1.41	1643	837	100	1639	53.0	0.0	47	100
1.52	1645	630	100	1640	55.4	0.0	53	100
1.63	1633	590	100	1628	55.8	0.1	59	100
1.74	1670	455	100	1660	57.7	0.0	65	200
1.85	1660	400	100	1654	59.9	0.0	71	200
1.96	1626	400	100	1619	60.3	0.0	78	200
2.08	1586	400	100	1578	60.4	0.0	85	200
2.19	1554	400	100	1543	60.5	0.0	92	200
2.31	1586	400	100	1576	61.0	0.0	99	200
2.44	1638	400	100	1625	63.1	0.1	107	300
2.55	1684	400	100	1667	64.8	0.1	114	300
2.63	1697	400	100	1683	65.0	0.1	115	300
2.71	1716	400	100	1704	65.3	0.1	115	300
2.87	1724	632	132	1709	65.4	0.1	135	400
2.98	1724	911	411	1710	65.5	0.0	142	400
3.09	1730	1197	697	1711	65.5	0.1	149	400
3.23	1729	1543	1043	1712	65.6	0.1	157	400
3.34	1728	1832	1332	1709	65.6	0.0	165	500
3.45	1722	2111	1611	1706	65.6	0.0	172	500
3.56	1730	2398	1898	1714	65.8	0.0	179	500
3.67	1728	2688	2188	1714	65.7	0.0	186	500
3.78	1722	2866	2366	1709	65.6	0.0	194	600
3.90	1721	2865	2365	1703	65.5	0.0	201	600
4.00	1716	2859	2359	1699	65.6	0.1	208	600
4.11	1716	2860	2360	1697	65.5	0.1	216	600
4.22	1720	2866	2366	1699	65.5	0.1	222	700
4.33	1714	2857	2357	1699	65.7	0.0	230	700
4.44	1710	2855	2355	1698	65.5	0.1	237	700
4.55	1712	2857	2357	1696	65.5	0.0	244	700
4.66	1712	2858	2358	1693	65.4	0.0	251	800
4.77	1711	2857	2357	1693	65.5	0.1	258	800
4.88	1709	2856	2356	1690	65.5	0.1	265	800
4.99	1708	2854	2354	1690	65.6	0.1	272	800
5.11	1702	2849	2349	1690	65.6	0.1	280	900
5.22	1701	2847	2347	1690	65.5	0.0	287	900
5.33	1702	2848	2348	1689	65.5	0.1	294	900
5.44	1703	2848	2348	1690	65.6	0.0	301	900
5.54	1702	2847	2347	1690	65.6	0.0	308	1000
5.65	1700	2845	2345	1684	65.6	0.0	315	1000
5.76	1699	2844	2344	1686	65.5	0.0	322	1000
5.85	1699	2845	2345	1684	65.5	0.1	324	1000
5.96	1699	2845	2345	1684	65.5	0.1	324	1000

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
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6.09	1700	2845	2345	1690	65.6	0.1	344	1100
6.20	1698	2844	2344	1686	65.6	0.1	351	1100
6.32	1701	2847	2347	1690	65.6	0.0	358	1100
6.42	1702	2848	2348	1690	65.5	0.0	365	1200
6.53	1702	2848	2348	1690	65.6	0.1	372	1200
6.64	1705	2851	2351	1690	65.6	0.1	379	1200
6.75	1702	2849	2349	1690	65.5	0.0	387	1200
6.86	1702	2848	2348	1688	65.5	0.0	394	1300
6.97	1701	2848	2348	1690	65.5	0.1	401	1300
7.08	1706	2854	2354	1690	65.4	0.1	408	1300
7.20	1704	2851	2351	1690	65.5	0.0	415	1300
7.31	1705	2851	2351	1690	65.4	0.0	422	1400
7.41	1710	2855	2355	1692	65.5	0.0	429	1400
7.52	1709	2854	2354	1691	65.5	0.0	437	1400
7.63	1711	2857	2357	1696	65.4	0.1	444	1400
7.75	1710	2856	2356	1696	65.4	0.1	451	1500
7.87	1710	2857	2357	1697	65.4	0.1	459	1500
7.98	1712	2859	2359	1700	65.4	0.0	466	1500
8.10	1713	2860	2360	1700	65.4	0.1	474	1600
8.22	1716	2862	2362	1700	65.5	0.0	481	1600
8.33	1714	2861	2361	1700	65.4	0.0	489	1600
8.44	1712	2859	2359	1700	65.4	0.0	496	1600
8.55	1717	2865	2365	1700	65.4	0.1	503	1700
8.65	1717	2867	2367	1700	65.4	0.2	510	1700
8.77	1708	2862	2362	1693	65.3	0.5	517	1900
8.87	1701	2859	2359	1689	65.3	0.4	524	2000
8.98	1697	2857	2357	1681	65.4	0.4	531	2100
9.09	1690	2853	2353	1675	65.4	0.5	538	2300
9.20	1682	2849	2349	1668	65.4	0.5	545	2400
9.31	1679	2849	2349	1662	65.4	0.5	552	2600
9.42	1671	2845	2345	1655	65.4	0.5	559	2800
9.53	1665	2843	2343	1649	65.4	0.5	566	2900
9.64	1656	2838	2338	1640	65.4	0.5	573	3100
9.75	1650	2835	2335	1635	65.4	0.5	581	3200
9.86	1644	2831	2331	1627	65.4	0.5	588	3400
9.97	1636	2824	2324	1620	65.4	0.5	595	3600
10.09	1631	2819	2319	1617	65.4	0.5	603	3700
10.20	1630	2819	2319	1614	65.4	0.5	610	3900
10.31	1629	2818	2318	1614	65.4	0.5	617	4000
10.42	1630	2819	2319	1617	65.4	0.5	624	4200
10.53	1630	2819	2319	1611	65.4	0.5	631	4300
10.65	1625	2814	2314	1609	65.4	0.5	639	4500
10.76	1623	2812	2312	1609	65.4	0.5	646	4700
10.87	1622	2811	2311	1605	65.4	0.5	653	4800
10.98	1620	2808	2308	1608	65.5	0.5	660	5000
11.09	1622	2812	2312	1607	65.4	0.6	667	5100
11.20	1620	2809	2309	1603	65.4	0.5	674	5300
11.31	1620	2810	2310	1602	65.4	0.5	681	5400
11.41	1617	2807	2307	1600	65.4	0.5	688	5600
11.53	1614	2803	2303	1601	65.4	0.5	696	5800
11.65	1618	2808	2308	1602	65.4	0.6	703	6000
11.75	1613	2803	2303	1601	65.5	0.5	710	6100
11.86	1609	2800	2300	1597	65.4	0.5	717	6300
11.97	1611	2801	2301	1598	65.4	0.6	725	6500

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ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
12.08	1609	2801	2301	1597	65.5	0.6	732	6600
12.19	1609	2801	2301	1593	65.5	0.5	739	6800
12.30	1610	2802	2302	1592	65.4	0.5	746	7000
12.41	1604	2795	2295	1591	65.5	0.5	753	7100
12.54	1603	2793	2293	1589	65.6	0.5	761	7300
12.64	1599	2789	2289	1582	65.6	0.5	768	7500
12.76	1599	2789	2289	1581	65.6	0.5	775	7600
12.86	1597	2786	2286	1581	65.6	0.5	782	7800
12.97	1600	2789	2289	1581	65.5	0.5	790	8000
13.08	1600	2789	2289	1581	65.5	0.5	797	8100
13.19	1595	2784	2284	1581	65.5	0.6	804	8300
13.31	1592	2781	2281	1580	65.6	0.6	811	8500
13.42	1592	2780	2280	1579	65.6	0.5	818	8600
13.53	1589	2779	2279	1580	65.5	0.5	825	8800
13.64	1591	2779	2279	1580	65.7	0.5	833	8900
13.76	1591	2779	2279	1580	65.7	0.5	840	9100
13.87	1590	2779	2279	1579	65.6	0.5	847	9300
13.98	1583	2771	2271	1572	65.7	0.5	855	9400
14.09	1582	2769	2269	1572	65.7	0.5	862	9600
14.19	1580	2767	2267	1570	65.8	0.5	869	9800
14.31	1580	2768	2268	1570	65.7	0.6	876	10000
14.41	1580	2768	2268	1569	65.7	0.6	883	10100
14.52	1579	2767	2267	1568	65.7	0.5	890	10300
14.63	1578	2766	2266	1566	65.7	0.5	897	10500
14.74	1579	2768	2268	1567	65.7	0.6	904	10600
14.85	1580	2771	2271	1568	65.6	0.6	912	10800
14.97	1580	2771	2271	1569	65.7	0.7	919	11000
15.08	1579	2774	2274	1569	65.5	0.7	926	11200
15.19	1579	2774	2274	1567	65.6	0.7	933	11400
15.29	1577	2775	2275	1566	65.5	0.8	940	11700
15.41	1574	2775	2275	1566	65.5	0.8	947	11900
15.53	1573	2774	2274	1562	65.7	0.8	955	12200
15.63	1573	2776	2276	1561	65.7	0.8	962	12400
15.74	1571	2777	2277	1558	65.6	0.8	969	12600
15.85	1569	2778	2278	1559	65.6	0.8	977	12900
15.96	1566	2777	2277	1552	65.6	0.9	984	13100
16.07	1560	2774	2274	1549	65.5	0.9	991	13400
16.18	1560	2775	2275	1551	65.5	0.8	998	13700
16.27	1555	2772	2272	1546	65.5	0.9	1000	13700
16.40	1553	2771	2271	1543	65.5	0.9	1012	14200
16.51	1550	2768	2268	1540	65.6	0.9	1019	14400
16.62	1550	2768	2268	1540	65.7	0.9	1026	14700
16.73	1550	2770	2270	1540	65.6	0.9	1033	15000
16.84	1551	2772	2272	1540	65.6	1.0	1041	15300
16.95	1550	2773	2273	1540	65.7	1.0	1048	15500
17.06	1545	2771	2271	1537	65.5	1.0	1055	15800
17.17	1545	2771	2271	1535	65.5	1.0	1062	16100
17.28	1544	2770	2270	1536	65.5	0.9	1069	16400
17.38	1545	2771	2271	1533	65.6	0.9	1076	16700
17.49	1544	2770	2270	1535	65.6	0.9	1083	16900
17.60	1547	2774	2274	1538	65.6	0.9	1090	17200
17.71	1546	2772	2272	1536	65.6	0.9	1097	17500
17.82	1545	2772	2272	1539	65.7	1.0	1104	17800
17.93	1541	2770	2270	1533	65.5	1.0	1111	18100

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
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18.04	1540	2767	2267	1532	65.7	1.0	1118	18400
18.15	1541	2769	2269	1532	65.6	1.0	1126	18700
18.26	1540	2769	2269	1531	65.5	1.0	1133	19000
18.37	1540	2769	2269	1530	65.5	1.0	1140	19200
18.48	1540	2769	2269	1530	65.6	0.9	1147	19500
18.58	1539	2768	2268	1532	65.6	1.0	1154	19800
18.69	1539	2768	2268	1530	65.7	1.0	1161	20100
18.80	1540	2771	2271	1530	65.5	1.0	1168	20400
18.91	1535	2766	2266	1528	65.6	1.0	1175	20700
19.03	1535	2766	2266	1527	65.6	1.0	1183	21000
19.16	1534	2765	2265	1525	65.7	1.0	1191	21300
19.27	1536	2768	2268	1526	65.5	1.0	1198	21600
19.38	1537	2769	2269	1527	65.5	1.0	1205	21900
19.49	1536	2768	2268	1525	65.5	1.0	1212	22200
19.60	1534	2766	2266	1524	65.6	1.0	1219	22500
19.70	1535	2766	2266	1526	65.6	1.0	1227	22800
19.81	1535	2767	2267	1525	65.6	1.0	1234	23100
19.93	1537	2769	2269	1527	65.6	1.0	1241	23400
20.04	1536	2766	2266	1529	65.7	1.0	1248	23700
20.15	1535	2766	2266	1525	65.7	1.0	1255	23900
20.26	1536	2767	2267	1527	65.7	1.0	1262	24200
20.37	1537	2768	2268	1527	65.6	1.0	1270	24500
20.48	1539	2770	2270	1530	65.6	1.0	1277	24800
20.59	1538	2769	2269	1528	65.6	0.9	1284	25100
20.70	1536	2767	2267	1528	65.6	1.0	1292	25400
20.82	1535	2766	2266	1526	65.6	1.0	1299	25700
20.94	1533	2763	2263	1527	65.6	1.0	1307	26000
21.07	1530	2760	2260	1525	65.7	1.0	1315	26400
21.18	1530	2760	2260	1521	65.7	1.0	1322	26600
21.29	1529	2760	2260	1522	65.6	1.0	1330	26900
21.40	1529	2760	2260	1520	65.6	1.0	1337	27200
21.52	1530	2762	2262	1522	65.5	1.0	1344	27500
21.63	1529	2760	2260	1522	65.6	1.0	1351	27800
21.74	1532	2763	2263	1526	65.6	1.0	1359	28100
21.85	1533	2764	2264	1525	65.6	1.0	1366	28400
21.93	1533	2764	2264	1524	65.7	1.0	1368	28500
22.06	1535	2767	2267	1526	65.6	1.0	1380	29000
22.17	1536	2767	2267	1529	65.6	1.0	1387	29300
22.28	1538	2768	2268	1530	65.7	1.0	1394	29600
22.39	1536	2767	2267	1527	65.6	1.0	1401	29900
22.50	1540	2773	2273	1531	65.6	1.1	1408	30200
22.61	1540	2774	2274	1531	65.7	1.2	1415	30600
22.72	1541	2776	2276	1530	65.7	1.2	1422	30900
22.83	1540	2776	2276	1531	65.8	1.2	1430	31300
22.94	1535	2774	2274	1528	65.7	1.3	1437	31600
23.05	1538	2779	2279	1529	65.7	1.3	1444	32000
23.16	1533	2776	2276	1529	65.7	1.3	1451	32400
23.27	1530	2777	2277	1523	65.6	1.3	1458	32800
23.38	1527	2777	2277	1520	65.5	1.3	1465	33100
23.49	1525	2776	2276	1517	65.6	1.3	1472	33500
23.60	1519	2773	2273	1512	65.5	1.3	1480	33900
23.71	1519	2773	2273	1511	65.7	1.3	1487	34300
23.82	1520	2775	2275	1513	65.6	1.3	1491	34500
23.93	1520	2777	2277	1511	65.6	1.3	1502	35100

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GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
24.06	1519	2777	2277	1512	65.6	1.4	1509	35500
24.16	1517	2775	2275	1510	65.7	1.4	1516	35900
24.27	1519	2778	2278	1510	65.6	1.4	1523	36300
24.38	1517	2778	2278	1510	65.6	1.4	1531	36700
24.49	1518	2781	2281	1511	65.6	1.6	1538	37100
24.60	1513	2777	2277	1509	65.6	1.5	1545	37600
24.71	1513	2779	2279	1506	65.6	1.4	1552	38000
24.82	1510	2776	2276	1503	65.6	1.4	1559	38400
24.94	1508	2775	2275	1503	65.6	1.4	1567	38800
25.05	1505	2773	2273	1500	65.6	1.5	1574	39200
25.16	1504	2775	2275	1498	65.5	1.5	1581	39700
25.27	1503	2774	2274	1500	65.5	1.5	1588	40100
25.38	1505	2777	2277	1498	65.5	1.5	1595	40500
25.49	1505	2777	2277	1500	65.6	1.5	1602	40900
25.60	1505	2777	2277	1499	65.6	1.5	1609	41400
25.72	1501	2772	2272	1498	65.6	1.4	1617	41800
25.85	1503	2775	2275	1496	65.5	1.5	1626	42300
25.96	1501	2773	2273	1498	65.6	1.5	1633	42700
26.05	1501	2774	2274	1497	65.6	1.5	1633	42700
26.13	1503	2777	2277	1496	65.5	1.5	1633	42700
26.22	1500	2773	2273	1497	65.6	1.5	1633	42700
26.31	1500	2773	2273	1496	65.6	1.5	1633	42700
26.40	1500	2773	2273	1493	65.6	1.5	1633	42700
26.52	1501	2774	2274	1496	65.6	1.5	1633	42700
26.61	1500	2774	2274	1497	65.6	1.5	1633	42700
26.91	1500	2775	2275	1493	65.5	1.5	1694	46400
27.01	1500	2774	2274	1491	65.6	1.5	1701	46800
27.12	1501	2775	2275	1495	65.6	1.5	1708	47300
27.24	1500	2775	2275	1491	65.5	1.5	1716	47700
27.35	1497	2773	2273	1494	65.5	1.6	1723	48100
27.46	1500	2779	2279	1496	65.4	1.9	1730	48700
27.57	1500	2782	2282	1497	65.4	1.9	1737	49200
27.68	1497	2781	2281	1490	65.4	1.8	1744	49700
27.78	1494	2778	2278	1486	65.5	1.7	1751	50100
27.89	1490	2775	2275	1487	65.5	1.6	1758	50600
28.01	1489	2777	2277	1484	65.5	1.8	1766	51100
28.12	1489	2778	2278	1485	65.6	1.8	1773	51600
28.24	1486	2779	2279	1481	65.5	1.8	1781	52200
28.35	1485	2780	2280	1478	65.5	1.9	1788	52700
28.46	1483	2782	2282	1478	65.5	1.9	1795	53200
28.57	1480	2780	2280	1476	65.5	1.9	1802	53800
28.68	1479	2778	2278	1476	65.7	1.9	1810	54300
28.79	1476	2777	2277	1470	65.5	1.9	1817	54900
28.90	1477	2779	2279	1471	65.6	1.9	1824	55400
29.01	1475	2779	2279	1472	65.5	1.8	1831	55900
29.12	1476	2782	2282	1471	65.5	1.9	1838	56400
29.23	1477	2784	2284	1469	65.6	2.0	1845	57000
29.34	1477	2786	2286	1472	65.5	2.0	1852	57500
29.46	1476	2786	2286	1471	65.5	2.0	1860	58200
29.57	1471	2781	2281	1470	65.6	2.0	1867	58700
29.68	1474	2786	2286	1470	65.5	2.0	1874	59300
29.79	1474	2786	2286	1471	65.5	2.0	1882	59900
29.90	1471	2782	2282	1466	65.6	1.9	1889	60400
30.01	1468	2780	2280	1462	65.6	2.0	1896	60900

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GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
30.12	1470	2783	2283	1468	65.5	2.0	1903	61500
30.23	1470	2782	2282	1468	65.7	2.0	1910	62000
30.34	1470	2784	2284	1466	65.6	2.0	1917	62600
30.45	1471	2784	2284	1467	65.6	1.9	1924	63100
30.56	1470	2782	2282	1469	65.6	1.9	1931	63700
30.67	1471	2782	2282	1467	65.6	1.9	1938	64200
30.78	1470	2782	2282	1469	65.6	2.0	1946	64800
30.89	1473	2784	2284	1471	65.6	2.0	1953	65300
31.00	1470	2781	2281	1470	65.6	2.0	1960	65900
31.11	1472	2784	2284	1468	65.6	2.0	1967	66400
31.23	1471	2783	2283	1468	65.7	2.0	1975	67000
31.33	1473	2786	2286	1470	65.5	2.0	1982	67600
31.44	1470	2782	2282	1467	65.7	2.0	1989	68100
31.56	1468	2781	2281	1464	65.6	2.0	1996	68700
31.66	1468	2781	2281	1462	65.6	2.0	2003	69200
31.79	1467	2780	2280	1464	65.7	2.0	2011	69800
31.89	1468	2783	2283	1460	65.5	2.0	2018	70400
32.01	1464	2779	2279	1459	65.5	2.0	2026	71000
32.12	1467	2781	2281	1460	65.6	2.0	2033	71600
32.23	1465	2780	2280	1460	65.5	2.0	2040	72100
32.35	1468	2783	2283	1460	65.6	2.0	2049	72700
32.46	1466	2781	2281	1459	65.5	2.0	2055	73300
32.57	1465	2780	2280	1459	65.5	2.0	2062	73800
32.68	1468	2782	2282	1462	65.6	2.0	2069	74400
32.81	1465	2780	2280	1460	65.6	2.0	2077	75000
32.92	1464	2779	2279	1459	65.6	2.0	2085	75600
33.03	1468	2783	2283	1463	65.5	2.0	2092	76100
33.14	1467	2782	2282	1462	65.5	2.0	2099	76700
33.25	1466	2780	2280	1460	65.7	2.0	2106	77300
33.36	1468	2783	2283	1461	65.6	2.0	2113	77800
33.47	1466	2780	2280	1459	65.6	2.0	2120	78400
33.58	1467	2782	2282	1459	65.6	2.0	2127	78900
33.69	1465	2780	2280	1457	65.6	2.0	2135	79500
33.80	1461	2776	2276	1456	65.6	2.0	2142	80000
33.91	1463	2778	2278	1457	65.6	2.0	2149	80600
34.02	1464	2779	2279	1460	65.6	2.0	2156	81200
34.13	1460	2774	2274	1457	65.6	2.0	2163	81700
34.23	1462	2776	2276	1455	65.6	2.0	2170	82300
34.34	1462	2778	2278	1458	65.5	2.0	2177	82800
34.45	1462	2777	2277	1457	65.6	2.0	2184	83400
34.56	1460	2774	2274	1458	65.6	2.0	2191	83900
34.67	1462	2776	2276	1458	65.6	2.0	2198	84500
34.78	1463	2778	2278	1459	65.5	2.0	2206	85100
34.89	1462	2777	2277	1460	65.5	2.0	2213	85600
35.00	1465	2780	2280	1456	65.6	2.0	2220	86200
35.11	1459	2774	2274	1455	65.5	2.0	2227	86700
35.22	1460	2776	2276	1457	65.5	2.0	2234	87300
35.33	1459	2774	2274	1454	65.5	2.0	2241	87800
35.44	1460	2775	2275	1456	65.6	2.0	2248	88400
35.55	1460	2776	2276	1458	65.5	2.0	2255	89000
35.66	1458	2773	2273	1455	65.5	2.0	2262	89500
35.77	1459	2775	2275	1455	65.5	2.0	2269	90100
35.88	1460	2776	2276	1453	65.5	2.0	2277	90600
35.98	1461	2776	2276	1455	65.5	2.0	2284	91200

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ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
36.10	1461	2777	2277	1455	65.4	2.0	2291	91700
36.20	1458	2773	2273	1455	65.5	2.0	2298	92300
36.31	1459	2775	2275	1455	65.5	2.0	2305	92800
36.42	1459	2775	2275	1453	65.5	2.0	2312	93400
36.53	1460	2775	2275	1454	65.5	2.0	2319	94000
36.65	1459	2774	2274	1455	65.6	2.0	2327	94600
36.76	1460	2776	2276	1457	65.5	2.0	2334	95100
36.87	1458	2774	2274	1455	65.5	2.0	2341	95700
36.98	1459	2773	2273	1455	65.6	2.0	2348	96200
37.09	1458	2774	2274	1454	65.5	2.0	2355	96800
37.20	1458	2772	2272	1457	65.6	2.0	2362	97300
37.31	1458	2773	2273	1450	65.6	2.0	2370	97900
37.42	1460	2775	2275	1454	65.5	2.0	2377	98500
37.53	1459	2774	2274	1454	65.5	2.0	2384	99000
37.64	1459	2774	2274	1457	65.5	2.0	2391	99600
37.75	1463	2778	2278	1459	65.5	2.0	2398	100100
37.86	1461	2777	2277	1459	65.4	2.0	2405	100700
37.97	1461	2777	2277	1457	65.5	2.0	2412	101200
38.08	1463	2778	2278	1460	65.5	2.0	2419	101800
38.19	1467	2783	2283	1462	65.5	2.0	2426	102400
38.29	1462	2777	2277	1459	65.5	2.0	2433	102900
38.40	1462	2778	2278	1460	65.5	2.0	2441	103500
38.51	1460	2775	2275	1456	65.5	2.0	2448	104000
38.62	1457	2772	2272	1451	65.5	2.0	2455	104600
38.74	1455	2771	2271	1452	65.5	2.0	2463	105200
38.85	1455	2771	2271	1450	65.5	2.0	2470	105700
38.97	1451	2767	2267	1450	65.4	2.0	2477	106400
39.08	1450	2765	2265	1449	65.5	2.0	2485	106900
39.19	1449	2765	2265	1446	65.5	2.0	2492	107500
39.30	1449	2764	2264	1446	65.5	2.0	2499	108000
39.41	1452	2767	2267	1445	65.5	2.0	2506	108600
39.52	1450	2766	2266	1445	65.5	2.0	2513	109100
39.63	1450	2765	2265	1444	65.6	2.0	2520	109700
39.74	1445	2760	2260	1442	65.5	2.0	2527	110300
39.85	1442	2758	2258	1440	65.5	2.0	2534	110800
39.96	1448	2764	2264	1444	65.4	2.0	2541	111400
40.07	1449	2764	2264	1444	65.5	2.0	2549	111900
40.18	1449	2765	2265	1440	65.5	2.0	2556	112500
40.29	1444	2759	2259	1440	65.5	2.0	2563	113000
40.40	1448	2765	2265	1441	65.5	2.1	2570	113600
40.51	1449	2765	2265	1444	65.5	2.0	2577	114200
40.63	1448	2763	2263	1442	65.6	2.0	2585	114800
40.74	1452	2768	2268	1448	65.6	2.0	2592	115400
40.86	1451	2766	2266	1449	65.6	2.0	2600	116000
40.97	1451	2766	2266	1447	65.7	2.0	2607	116500
41.08	1452	2767	2267	1449	65.7	2.0	2614	117100
41.19	1455	2770	2270	1450	65.7	2.0	2621	117600
41.31	1453	2768	2268	1448	65.7	2.0	2629	118200
41.42	1451	2767	2267	1449	65.6	2.0	2636	118800
41.54	1450	2764	2264	1450	65.7	2.0	2644	119400
41.65	1451	2766	2266	1446	65.6	2.0	2651	120000
41.76	1450	2764	2264	1449	65.6	2.0	2658	120600
41.87	1450	2765	2265	1445	65.6	2.0	2666	121100
41.98	1447	2762	2262	1446	65.6	2.0	2673	121700

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GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
42.09	1448	2763	2263	1447	65.5	2.0	2680	122200
42.20	1447	2761	2261	1444	65.6	2.0	2687	122800
42.31	1451	2767	2267	1449	65.5	2.0	2694	123400
42.42	1450	2764	2264	1444	65.7	2.0	2701	124000
42.53	1447	2762	2262	1443	65.6	2.0	2708	124500
42.64	1448	2763	2263	1445	65.5	2.0	2716	125100
42.75	1449	2763	2263	1445	65.6	2.0	2723	125600
42.86	1446	2760	2260	1443	65.6	2.0	2730	126200
42.97	1449	2763	2263	1447	65.7	2.0	2737	126800
43.08	1450	2763	2263	1448	65.7	2.0	2744	127300
43.19	1449	2763	2263	1440	65.7	2.0	2751	127900
43.30	1449	2763	2263	1441	65.6	2.0	2758	128400
43.41	1449	2763	2263	1444	65.7	2.0	2765	129000
43.52	1449	2763	2263	1444	65.6	2.0	2773	129600
43.63	1451	2765	2265	1446	65.7	2.0	2780	130100
43.74	1449	2764	2264	1443	65.6	2.0	2787	130700
43.85	1450	2764	2264	1443	65.7	2.0	2794	131200
43.96	1449	2763	2263	1445	65.7	2.0	2801	131800
44.07	1451	2765	2265	1448	65.7	2.0	2808	132400
44.18	1450	2764	2264	1446	65.7	2.0	2815	132900
44.29	1449	2764	2264	1446	65.6	2.0	2823	133500
44.40	1449	2764	2264	1441	65.6	2.0	2830	134100
44.51	1450	2765	2265	1448	65.6	2.0	2837	134600
44.62	1451	2766	2266	1452	65.6	2.0	2844	135200
44.73	1455	2770	2270	1452	65.6	2.0	2851	135700
44.84	1459	2773	2273	1457	65.6	2.0	2858	136300
44.95	1464	2778	2278	1459	65.6	2.0	2865	136900
45.07	1462	2777	2277	1461	65.6	2.0	2873	137500
45.18	1462	2777	2277	1459	65.5	2.0	2880	138000
45.29	1461	2777	2277	1461	65.5	2.0	2888	138600
45.40	1466	2782	2282	1463	65.5	2.0	2895	139200
45.52	1469	2784	2284	1466	65.5	2.0	2903	139800
45.63	1470	2785	2285	1468	65.6	2.0	2910	140400
45.75	1470	2785	2285	1466	65.6	2.0	2917	140900
45.86	1469	2784	2284	1469	65.5	2.0	2924	141500
45.96	1470	2785	2285	1469	65.5	2.0	2931	142000
46.07	1470	2786	2286	1470	65.4	2.0	2939	142600
46.18	1470	2786	2286	1469	65.4	2.0	2946	143200
46.30	1470	2786	2286	1470	65.4	2.0	2953	143800
46.41	1469	2784	2284	1468	65.5	2.0	2961	144300
46.52	1471	2786	2286	1470	65.6	2.0	2968	144900
46.63	1470	2786	2286	1469	65.5	2.0	2975	145500
46.75	1470	2785	2285	1464	65.5	2.0	2983	146100
46.86	1470	2785	2285	1466	65.6	2.0	2990	146600
46.98	1470	2786	2286	1468	65.5	2.0	2998	147200
47.09	1468	2784	2284	1462	65.5	2.0	3005	147800
47.20	1468	2784	2284	1462	65.5	2.0	3012	148400
47.32	1470	2785	2285	1467	65.5	1.9	3019	148900
47.43	1466	2779	2279	1463	65.6	1.8	3027	149500
47.54	1468	2777	2277	1465	65.6	1.6	3034	149900
47.66	1467	2769	2269	1464	65.7	1.3	3042	150300
47.77	1465	2760	2260	1464	65.6	0.9	3049	150600
47.88	1471	2753	2253	1470	65.7	0.6	3056	150800
							3063	150900

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ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
48.10	1506	2761	2261	1498	65.7	0.2	3070	151000
48.21	1515	2755	2255	1509	65.7	0.1	3077	151100
48.33	1384	2645	2145	1377	62.2	0.1	3084	151100
48.44	1297	2594	2094	1295	56.9	0.1	3091	151100
48.54	1161	2501	2001	1159	50.6	0.1	3096	151200
48.65	999	2396	1896	997	41.6	0.1	3101	151200
48.76	780	2245	1745	781	28.8	0.1	3105	151200
48.87	706	2245	1745	710	0.1	0.1	3105	151200
48.98	728	2267	1767	732	0.0	0.1	3105	151200
49.09	730	2269	1769	731	0.0	0.1	3105	151200
49.19	734	2273	1773	735	0.0	0.1	3105	151200
49.30	733	2272	1772	733	0.0	0.1	3105	151200
49.41	731	2270	1770	729	0.0	0.1	3105	151200
49.51	730	2269	1769	730	0.0	0.1	3105	151200
49.63	731	2270	1770	729	0.0	0.1	3105	151200
49.74	727	2266	1766	727	0.0	0.1	3105	151200
49.85	730	2269	1769	729	0.0	0.1	3105	151200
49.97	730	2269	1769	730	0.0	0.1	3105	151200
50.07	730	2269	1769	730	0.0	0.1	3105	151200
50.18	730	2269	1769	730	0.0	0.1	3105	151200
50.29	730	2269	1769	729	0.0	0.1	3105	151200
50.40	730	2269	1769	730	0.0	0.1	3105	151200
50.50	730	2269	1769	730	0.0	0.1	3105	151200
50.61	730	2269	1769	718	0.0	0.1	3105	151200
50.72	730	2269	1769	710	0.0	0.0	3105	151200
50.83	730	2269	1769	713	0.0	0.0	3105	151200
50.93	730	2269	1769	711	0.0	0.0	3105	151200
51.04	728	2267	1767	711	0.0	0.0	3105	151200
51.15	730	2269	1769	710	0.0	0.0	3105	151200
51.26	730	2269	1769	710	0.0	0.0	3105	151200
51.37	730	2269	1769	711	0.0	0.0	3105	151200
51.47	729	2268	1768	710	0.0	0.0	3105	151200
51.58	727	2266	1766	710	0.0	0.0	3105	151200
51.69	727	2266	1766	713	0.0	0.0	3105	151200
51.80	729	2268	1768	710	0.0	0.0	3105	151200
51.90	730	2269	1769	710	0.0	0.0	3105	151200
52.01	730	2269	1769	711	0.0	0.0	3105	151200
52.12	727	2266	1766	710	0.0	0.0	3105	151200
52.24	730	2269	1769	710	0.0	0.0	3105	151200
52.35	730	2269	1769	711	0.0	0.0	3105	151200
52.46	730	2269	1769	710	0.0	0.0	3105	151200
52.57	728	2267	1767	710	0.0	0.0	3105	151200
52.68	730	2269	1769	710	0.0	0.0	3105	151200
52.78	728	2267	1767	710	0.0	0.0	3105	151200
52.89	729	2268	1768	710	0.0	0.0	3105	151200
53.00	730	2269	1769	710	0.0	0.0	3105	151200
53.11	730	2269	1769	710	0.0	0.0	3105	151200
53.21	730	2269	1769	710	0.0	0.0	3105	151200
53.32	729	2268	1768	710	0.0	0.0	3105	151200
53.43	729	2268	1768	710	0.0	0.0	3105	151200
53.54	729	2268	1768	710	0.0	0.0	3105	151200
53.64	720	2259	1759	710	0.0	0.0	3105	151200
53.75	725	2264	1764	710	0.0	0.0	3105	151200
53.86	726	2265	1765	709	0.0	0.0	3105	151200

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GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
53.97	721	2260	1760	708	0.0	0.0	3105	151200
54.09	720	2259	1759	706	0.0	0.0	3105	151200
54.19	721	2260	1760	709	0.0	0.0	3105	151200
54.30	720	2259	1759	705	0.0	0.0	3105	151200
54.41	720	2259	1759	705	0.0	0.0	3105	151200
54.51	720	2259	1759	705	0.0	0.0	3105	151200
54.62	720	2259	1759	700	0.0	0.0	3105	151200
54.73	720	2259	1759	702	0.0	0.0	3105	151200
54.85	720	2259	1759	701	0.0	0.0	3105	151200
54.96	720	2259	1759	700	0.0	0.0	3105	151200
55.07	719	2258	1758	700	0.0	0.0	3105	151200
55.18	719	2258	1758	700	0.0	0.0	3105	151200
55.29	720	2259	1759	700	0.0	0.0	3105	151200
55.40	720	2259	1759	701	0.0	0.0	3105	151200
55.50	718	2257	1757	700	0.0	0.0	3105	151200
55.61	715	2254	1754	700	0.0	0.0	3105	151200
55.72	713	2252	1752	700	0.0	0.0	3105	151200
55.83	712	2251	1751	700	0.0	0.0	3105	151200
55.93	712	2251	1751	700	0.0	0.0	3105	151200
56.04	714	2253	1753	700	0.0	0.0	3105	151200
56.15	715	2254	1754	700	0.0	0.0	3105	151200
56.26	713	2252	1752	700	0.0	0.0	3105	151200
56.36	711	2250	1750	700	0.0	0.0	3105	151200
56.48	714	2253	1753	700	0.0	0.0	3105	151200
56.59	711	2250	1750	700	0.0	0.0	3105	151200
56.71	711	2250	1750	700	0.0	0.0	3105	151200
56.83	714	2253	1753	700	0.0	0.0	3105	151200
56.93	714	2253	1753	700	0.0	0.0	3105	151200
57.04	710	2249	1749	699	0.0	0.0	3105	151200
57.15	711	2250	1750	699	0.0	0.0	3105	151200
57.27	711	2250	1750	700	0.0	0.0	3105	151200
57.37	710	2249	1749	700	0.0	0.0	3105	151200
57.48	710	2249	1749	698	0.0	0.0	3105	151200
57.59	711	2250	1750	700	0.0	0.0	3105	151200
57.70	710	2249	1749	700	0.0	0.0	3105	151200
57.81	710	2249	1749	700	0.0	0.0	3105	151200
57.92	711	2250	1750	700	0.0	0.0	3105	151200
58.03	710	2249	1749	699	0.0	0.0	3105	151200
58.14	710	2249	1749	699	0.0	0.0	3105	151200
58.25	710	2249	1749	699	0.0	0.0	3105	151200
58.36	710	2249	1749	698	0.0	0.0	3105	151200
58.47	710	2249	1749	699	0.0	0.0	3105	151200
58.59	710	2249	1749	700	0.0	0.0	3105	151200
58.71	710	2249	1749	700	0.0	0.0	3105	151200
58.81	710	2249	1749	699	0.0	0.0	3105	151200
58.92	710	2249	1749	700	0.0	0.0	3105	151200
59.03	710	2249	1749	698	0.0	0.0	3105	151200
59.14	711	2250	1750	697	0.0	0.0	3105	151200
59.24	710	2249	1749	698	0.0	0.0	3105	151200
59.35	710	2249	1749	695	0.0	0.0	3105	151200
59.46	710	2249	1749	695	0.0	0.0	3105	151200
59.58	710	2249	1749	691	0.0	0.0	3105	151200
59.68	710	2249	1749	692	0.0	0.0	3105	151200
59.78	710	2249	1749	692	0.0	0.0	3105	151200
59.88	710	2249	1749	692	0.0	0.0	3105	151200
59.98	710	2249	1749	692	0.0	0.0	3105	151200

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

GIANT REFINERY BLOOMFIELD WD #1 MESA VERDE FORMATION SLICK WATER 3-1-96

ET min.	STP psi.	BHTP psi.	NET P psi.	PRESS 2 psi.	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
59.90	710	2249	1749	692	0.0	0.0	3105	151200
60.01	710	2249	1749	695	0.0	0.0	3105	151200
60.11	710	2249	1749	694	0.0	0.0	3105	151200
60.22	710	2249	1749	692	0.0	0.0	3105	151200
60.33	710	2249	1749	693	0.0	0.0	3105	151200
60.44	710	2249	1749	697	0.0	0.0	3105	151200
60.55	710	2249	1749	694	0.0	0.0	3105	151200
60.66	710	2249	1749	692	0.0	0.0	3105	151200
60.77	710	2249	1749	691	0.0	0.0	3105	151200
60.87	709	2248	1748	692	0.0	0.0	3105	151200
60.98	710	2249	1749	694	0.0	0.0	3105	151200
61.09	710	2249	1749	691	0.0	0.0	3105	151200
61.20	710	2249	1749	696	0.0	0.0	3105	151200
61.30	710	2249	1749	693	0.0	0.0	3105	151200
61.42	710	2249	1749	697	0.0	0.0	3105	151200
61.54	710	2249	1749	693	0.0	0.0	3105	151200
61.65	710	2249	1749	693	0.0	0.0	3105	151200
61.75	710	2249	1749	694	0.0	0.0	3105	151200
61.86	710	2249	1749	698	0.0	0.0	3105	151200
61.97	710	2249	1749	696	0.0	0.0	3105	151200
62.08	710	2249	1749	698	0.0	0.0	3105	151200
62.18	710	2249	1749	692	0.0	0.0	3105	151200
62.29	710	2249	1749	696	0.0	0.0	3105	151200
62.40	710	2249	1749	694	0.0	0.0	3105	151200
62.51	710	2249	1749	695	0.0	0.1	3105	151200
62.62	710	2249	1749	693	0.0	0.0	3105	151200
62.73	710	2249	1749	694	0.0	0.0	3105	151200
62.83	710	2249	1749	691	0.0	0.0	3105	151200
62.96	710	2249	1749	698	0.0	0.0	3105	151200
63.07	710	2249	1749	699	0.0	0.0	3105	151200
63.17	710	2249	1749	696	0.0	0.0	3105	151200
63.29	710	2249	1749	692	0.0	0.0	3105	151200
63.41	710	2249	1749	693	0.0	0.0	3105	151200
63.53	709	2248	1748	697	0.0	0.0	3105	151200
63.65	710	2249	1749	693	0.0	0.0	3105	151200
63.75	710	2249	1749	690	0.0	0.0	3105	151200

SECTION 5

PROCEDURE AND
MISCELLANEOUS