



The Western Company—Treatment Report

Date 1/10/94 District FARMINGTON F. Receipt 256193 Operator Brownfield Refining
 Use 620 Well No. 1 Field BASIN Location 20209UKIU
 County San Juan State NM Stage Number 1 This Zone 1 This Well ☐

WELL DATA OG ☐ NG ☐ NO ☐ OO ☐ WD ☒ IW ☐ Misc. ☐ Depth TD/PB 3589 Formation Mesa Verde
 Tubing Size 2 7/8 WT. 6.4 Set at: 3000 Type Packer FB Set At 3010
 Casing Size 5 1/2 WT. 15.5 Set From SDR To TD Liner Size _____ Wt. _____
 Liner Set From _____ To _____ Open Hole: Size _____ From _____ To _____ Casing Perforations: Size _____
 Holes Per Foot 2 Intervals 3276-3416 (58 holes)
 Previous Treatment _____ Prior Production _____

TREATMENT DATA Pad Used: Yes ☐ No ☒ Pad Type _____
 Treating Fluid Type: Foam ☐ Water ☒ Acid ☐ Oil ☐ Treat. Fluid Vol. 20538 Gal.
 Base Fluid Type 2% NACL Base Fluid Vol. 20538 Gal.
 Foam Qual.: _____ % Mitchell ☐ Slurry ☐ Surface ☐ Downhole ☐ Total Prop Qty. _____ Lbs.
 Prop Type: Sand ☐ WP-1 ☐ WP-3 ☐ Baux. ☐ Other _____
 Prop Mesh Sizes, Types and Quantities _____
 Hole Loaded With DDG Treat Via: Tubing ☒ Casing ☐ Anul. ☐ Tubing & Anul. ☐
 Ball Sealers: _____ In _____ Stages of _____
 Types and Number of Pumps Used 1-Acid Pac 700
 Auxiliary Materials _____

LIQUID/GAS PUMPED AND CAPACITIES IN BBLs.

Tubing Cap. 17.8
 Casing Cap. 6.3
 Annular Cap. 59.7
 Open Hole Cap. _____
 Fluid to Load _____
 Pad Volume _____
 Treating Fluid 489
 Flush _____
 Overflush _____
 Fluid to Recover 489
 Total N₂ _____
 Total CO₂ _____

PROCEDURE SUMMARY

test annulus, load tubing & start step rate, set 8 points.

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Surface CO ₂ BBLs. Pumped		CO ₂ Rate BPM	Surface N ₂ MSCF Pumped		N ₂ Rate SCFM	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
12:00	0			0	1							test backside
12:34	1000	1000		2	1							Shutdown
1:34	0	900		2	3.7							load tubing
1:38	0	800		1.7	3.7							Shutdown
1:44	500	800		1.7	3							St. 4 bpm @ 500 psi
1:45	590	730		2.2	3							St. 1 bpm @ 590
1:58	700	550		3.5	2.9							St. 2 bpm @ 690
1:23	790	330		6.5	2.9							St. 2.9 bpm @ 790
1:55	880	240		11.0	3.6							St. 3.6 bpm @ 890
1:53	990	220		11.4	4.3							St. 4.3 bpm @ 990
2:08	1100	210		23.8	5							St. 5 bpm @ 1100
2:23	1190	210		30.5	5.4							St. 5.4 bpm @ 1190
2:38	1330	210		38.5	6							St. 5.9 bpm @ 1370
2:55	1330	210		40.7	6							Shutdown
												5.600
												10.600

Treating Pressure: Min. 500 Max. 1330 Avg. 1000 Customer Representative R. J. Tury
 Rate on Treating Fluid 4406 Rate on Flush ✓ Western Representative Nancy Mitchell
 g. Inj. Rate _____ I.S.D.P. 600 Flush Dens. lb./gal. ✓ Distribution _____
 Final Shut-in Pressure 600 in 15 Minutes
 Operator's Maximum Pressure 2500

Job Number

181161

Recommendation ID # _____

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
0.2	559	2016	516	0.10	0.8	0.0	0	0
0.4	561	2018	518	0.10	0.8	0.0	0	0
0.6	561	2018	518	0.10	0.8	0.0	1	0
0.8	549	2008	508	0.10	0.7	0.0	1	0
1.1	526	1989	489	0.10	0.3	0.0	1	0
1.3	522	1985	485	0.10	0.3	0.0	1	0
1.5	521	1984	484	0.10	0.3	0.0	1	0
1.7	521	1984	484	0.10	0.3	0.0	1	0
1.9	519	1982	482	0.10	0.3	0.0	1	0
2.1	517	1980	480	0.10	0.3	0.0	1	0
2.3	516	1979	479	0.10	0.3	0.0	1	0
2.5	520	1983	483	0.10	0.3	0.0	1	0
2.8	520	1983	483	0.10	0.3	0.0	1	0
3.0	522	1985	485	0.10	0.3	0.0	1	0
3.2	524	1987	487	0.10	0.3	0.0	1	0
3.4	526	1989	489	0.10	0.3	0.0	1	0
3.6	528	1991	491	0.10	0.3	0.0	1	0
3.8	528	1991	491	0.10	0.3	0.0	2	0
4.0	530	1993	493	0.10	0.3	0.0	2	0
4.3	529	1992	492	0.10	0.3	0.0	2	0
4.5	531	1994	494	0.10	0.3	0.0	2	0
4.7	532	1995	495	0.10	0.3	0.0	2	0
4.9	533	1996	496	0.10	0.3	0.0	2	0
5.1	534	1997	497	0.10	0.3	0.0	2	0
5.3	533	1996	496	0.10	0.3	0.0	2	0
5.5	535	1998	498	0.10	0.3	0.0	2	0
5.8	537	2000	500	0.10	0.3	0.0	2	0
6.0	536	1999	499	0.10	0.3	0.0	2	0
6.2	539	2002	502	0.10	0.3	0.0	2	0
6.4	540	2003	503	0.10	0.3	0.0	2	0
6.6	540	2003	503	0.10	0.3	0.0	2	0
6.8	541	2004	504	0.10	0.3	0.0	2	0
7.1	540	2003	503	0.10	0.3	0.0	3	0
7.3	541	2004	504	0.10	0.3	0.0	3	0
7.5	542	2005	505	0.10	0.3	0.0	3	0
7.7	542	2005	505	0.10	0.3	0.0	3	0
7.9	543	2006	506	0.10	0.3	0.0	3	0
8.1	543	2006	506	0.10	0.3	0.0	3	0
8.3	544	2007	507	0.10	0.3	0.0	3	0
8.5	543	2006	506	0.10	0.3	0.0	3	0
8.7	544	2007	507	0.10	0.3	0.0	3	0
9.0	546	2009	509	0.10	0.3	0.0	3	0
9.2	545	2008	508	0.10	0.3	0.0	3	0
9.4	545	2008	508	0.10	0.3	0.0	3	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
9.6	546	2009	509	0.10	0.3	0.0	3	0
9.8	546	2009	509	0.10	0.3	0.0	3	0
10.0	547	2010	510	0.10	0.3	0.0	3	0
10.2	547	2010	510	0.10	0.3	0.0	3	0
10.4	548	2011	511	0.10	0.3	0.0	4	0
10.6	547	2010	510	0.10	0.3	0.0	4	0
10.9	547	2010	510	0.10	0.3	0.0	4	0
11.1	548	2011	511	0.10	0.3	0.0	4	0
11.3	568	2028	528	0.10	0.6	0.0	4	0
11.5	578	2036	536	0.10	0.8	0.0	4	0
11.7	580	2037	537	0.10	0.8	0.0	4	0
11.9	583	2039	539	0.10	0.9	0.0	4	0
12.1	583	2040	540	0.10	0.8	0.0	5	0
12.3	584	2041	541	0.10	0.8	0.0	5	0
12.6	582	2039	539	0.10	0.8	0.0	5	0
12.8	585	2042	542	0.10	0.8	0.0	5	0
13.0	586	2043	543	0.10	0.8	0.0	5	0
13.2	584	2041	541	0.10	0.8	0.0	5	0
13.4	586	2043	543	0.10	0.8	0.0	6	0
13.6	583	2040	540	0.10	0.8	0.0	6	0
13.9	586	2044	544	0.10	0.8	0.0	6	0
14.1	586	2043	543	0.10	0.8	0.0	6	0
14.3	586	2043	543	0.10	0.8	0.0	6	0
14.5	587	2044	544	0.10	0.8	0.0	7	0
14.7	588	2045	545	0.10	0.8	0.0	7	0
15.0	586	2043	543	0.10	0.8	0.0	7	0
15.2	587	2045	545	0.10	0.8	0.0	7	0
15.4	586	2043	543	0.10	0.8	0.0	7	0
15.6	585	2042	542	0.10	0.9	0.0	7	0
15.8	587	2044	544	0.10	0.9	0.0	8	0
16.0	588	2044	544	0.10	0.8	0.0	8	0
16.2	588	2045	545	0.10	0.9	0.0	8	0
16.4	589	2045	545	0.10	0.9	0.0	8	0
16.6	588	2044	544	0.10	0.9	0.0	8	0
16.9	587	2044	544	0.10	0.9	0.0	8	0
17.1	588	2045	545	0.10	0.8	0.0	9	0
17.3	588	2044	544	0.10	0.9	0.0	9	0
17.5	589	2045	545	0.10	0.9	0.0	9	0
17.7	589	2045	545	0.10	0.8	0.0	9	0
17.9	589	2046	546	0.10	0.8	0.0	9	0
18.1	588	2044	544	0.10	0.9	0.0	10	0
18.4	589	2045	545	0.10	0.9	0.0	10	0
18.6	589	2045	545	0.10	0.9	0.0	10	0
18.8	590	2046	546	0.10	0.9	0.0	10	0

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BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
19.0	590	2046	546	0.10	0.9	0.0	10	0
19.2	589	2045	545	0.10	0.9	0.0	11	0
19.4	590	2046	546	0.10	0.9	0.0	11	0
19.6	589	2045	545	0.10	0.9	0.0	11	0
19.9	589	2045	545	0.10	0.9	0.0	11	0
20.1	589	2045	545	0.10	0.9	0.0	11	0
20.3	588	2044	544	0.10	0.9	0.0	11	0
20.5	589	2046	546	0.10	0.9	0.0	12	0
20.7	589	2045	545	0.10	0.9	0.0	12	0
20.9	590	2045	545	0.10	0.9	0.0	12	0
21.1	589	2045	545	0.10	0.9	0.0	12	0
21.3	590	2046	546	0.10	0.9	0.0	12	0
21.6	589	2045	545	0.10	0.9	0.0	13	0
21.8	590	2046	546	0.10	0.9	0.0	13	0
22.0	590	2046	546	0.10	0.9	0.0	13	0
22.2	590	2045	545	0.10	0.9	0.0	13	0
22.4	589	2045	545	0.10	0.9	0.0	13	0
22.7	590	2046	546	0.10	0.9	0.0	14	0
22.9	590	2046	546	0.10	0.9	0.0	14	0
23.1	589	2045	545	0.10	0.9	0.0	14	0
23.3	589	2045	545	0.10	0.9	0.0	14	0
23.5	589	2045	545	0.10	0.9	0.0	14	0
23.7	588	2044	544	0.10	0.9	0.0	14	0
23.9	589	2045	545	0.10	0.9	0.0	15	0
24.1	589	2045	545	0.10	0.9	0.0	15	0
24.3	590	2046	546	0.10	0.9	0.0	15	0
24.6	589	2046	546	0.10	0.9	0.0	15	0
24.8	589	2045	545	0.10	0.9	0.0	15	0
25.0	590	2046	546	0.10	0.9	0.0	16	0
25.2	589	2045	545	0.10	0.9	0.0	16	0
25.4	589	2044	544	0.10	0.9	0.0	16	0
25.6	589	2045	545	0.10	0.9	0.0	16	0
25.8	590	2046	546	0.10	0.9	0.0	16	0
26.1	590	2046	546	0.10	0.9	0.0	17	0
26.3	590	2045	545	0.10	0.9	0.0	17	0
26.5	590	2046	546	0.10	0.9	0.0	17	0
26.7	590	2045	545	0.10	0.9	0.0	17	0
26.9	590	2046	546	0.10	0.9	0.0	17	0
27.1	590	2045	545	0.10	0.9	0.0	18	0
27.3	590	2046	546	0.10	0.9	0.0	18	0
27.5	590	2046	546	0.10	0.9	0.0	18	0
27.8	596	2051	551	0.10	0.9	0.0	18	0
28.0	623	2073	573	0.10	1.2	0.0	18	0
28.2	623	2066	566	0.10	1.5	0.0	19	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
28.4	647	2093	593	0.10	1.4	0.0	19	0
28.6	679	2109	609	0.10	1.9	0.0	19	0
28.8	692	2120	620	0.10	2.0	0.0	20	0
29.1	692	2120	620	0.10	2.0	0.0	20	0
29.3	696	2124	624	0.10	2.0	0.0	21	0
29.5	696	2124	624	0.11	2.0	0.0	21	0
29.7	691	2119	619	-1.13	2.0	0.0	22	0
29.9	700	2128	628	1.88	2.0	0.0	22	0
30.1	700	2128	628	0.00	2.0	0.0	22	0
30.4	697	2124	624	-0.95	2.1	0.0	23	0
30.6	694	2120	620	-0.92	2.1	0.0	23	0
30.8	700	2126	626	1.59	2.0	0.0	24	0
31.0	699	2124	624	-0.55	2.1	0.0	24	0
31.2	690	2116	616	-1.73	2.1	0.0	25	0
31.4	690	2116	616	-0.19	2.1	0.0	25	0
31.6	690	2116	616	0.12	2.1	0.0	25	0
31.9	690	2117	617	0.28	2.0	0.0	26	0
32.1	693	2120	620	0.61	2.0	0.0	26	0
32.3	698	2124	624	1.06	2.1	0.0	27	0
32.5	700	2125	625	0.24	2.1	0.0	27	0
32.7	700	2125	625	-0.13	2.1	0.0	28	0
32.9	701	2126	626	0.25	2.1	0.0	28	0
33.1	700	2125	625	-0.13	2.1	0.0	29	0
33.3	700	2125	625	0.00	2.1	0.0	29	0
33.5	700	2125	625	-0.13	2.1	0.0	29	0
33.8	700	2125	625	0.00	2.1	0.0	30	0
34.0	700	2125	625	0.00	2.1	0.0	30	0
34.2	700	2125	625	0.00	2.1	0.0	31	0
34.4	700	2125	625	0.00	2.1	0.0	31	0
34.6	700	2125	625	0.00	2.1	0.0	32	0
34.8	700	2125	625	0.00	2.1	0.0	32	0
35.0	695	2120	620	-1.14	2.1	0.0	33	0
35.2	692	2117	617	-0.94	2.1	0.0	33	0
35.5	690	2115	615	-0.54	2.1	0.0	33	0
35.7	691	2116	616	0.27	2.1	0.0	34	0
35.9	690	2115	615	-0.14	2.1	0.0	34	0
36.1	693	2118	618	0.69	2.1	0.0	35	0
36.3	695	2120	620	0.66	2.1	0.0	35	0
36.5	697	2122	622	0.40	2.1	0.0	36	0
36.7	697	2122	622	0.14	2.1	0.0	36	0
37.0	700	2125	625	0.70	2.1	0.0	37	0
37.2	700	2125	625	0.00	2.1	0.0	37	0
37.4	700	2125	625	0.00	2.1	0.0	38	0
37.6	700	2125	625	0.00	2.1	0.0	38	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
37.8	701	2126	626	0.43	2.1	0.0	38	0
38.0	703	2128	628	0.39	2.1	0.0	39	0
38.3	703	2128	628	0.00	2.1	0.0	39	0
38.5	705	2130	630	0.72	2.1	0.0	40	0
38.7	708	2133	633	0.86	2.1	0.0	40	0
38.9	705	2130	630	-0.87	2.1	0.0	41	0
39.1	703	2128	628	-0.56	2.1	0.0	41	0
39.3	701	2126	626	-0.74	2.1	0.0	42	0
39.5	695	2120	620	-1.65	2.1	0.0	42	0
39.7	690	2115	615	-1.67	2.1	0.0	42	0
40.0	690	2115	615	0.00	2.1	0.0	43	0
40.2	696	2121	621	1.99	2.1	0.0	43	0
40.4	699	2124	624	0.92	2.1	0.0	44	0
40.6	700	2125	625	0.14	2.1	0.0	44	0
40.8	700	2125	625	0.00	2.1	0.0	45	0
41.0	700	2125	625	0.00	2.1	0.0	45	0
41.2	702	2127	627	0.62	2.1	0.0	46	0
41.5	705	2130	630	0.94	2.1	0.0	46	0
41.7	707	2132	632	0.78	2.1	0.0	47	0
41.9	707	2132	632	0.00	2.1	0.0	47	0
42.1	704	2129	629	-1.06	2.1	0.0	47	0
42.3	726	2146	646	5.55	2.2	0.0	48	0
42.5	785	2183	683	11.19	2.8	0.0	49	0
42.7	790	2183	683	-0.01	2.9	0.0	49	0
43.0	790	2183	683	0.00	2.9	0.0	50	0
43.2	790	2183	683	0.00	2.9	0.0	50	0
43.4	790	2183	683	0.00	2.9	0.0	51	0
43.6	790	2183	683	0.00	2.9	0.0	52	0
43.8	790	2183	683	0.00	2.9	0.0	52	0
44.0	790	2183	683	0.00	2.9	0.0	53	0
44.2	790	2183	683	0.00	2.9	0.0	53	0
44.4	790	2183	683	0.00	2.9	0.0	54	0
44.7	790	2183	683	0.00	2.9	0.0	55	0
44.9	790	2183	683	0.00	2.9	0.0	55	0
45.1	790	2183	683	0.00	2.9	0.0	56	0
45.3	790	2183	683	0.00	2.9	0.0	57	0
45.5	790	2183	683	0.00	2.9	0.0	57	0
45.7	790	2183	683	0.00	2.9	0.0	58	0
45.9	790	2183	683	0.00	2.9	0.0	58	0
46.1	790	2183	683	0.00	2.9	0.0	59	0
46.4	790	2183	683	0.00	2.9	0.0	60	0
46.6	790	2183	683	0.00	2.9	0.0	60	0
46.8	790	2183	683	0.00	2.9	0.0	61	0
47.0	790	2183	683	0.00	2.9	0.0	61	0

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ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
47.2	790	2183	683	0.00	2.9	0.0	62	0
47.4	790	2183	683	0.00	2.9	0.0	63	0
47.6	790	2183	683	0.00	2.9	0.0	63	0
47.8	790	2183	683	0.00	2.9	0.0	64	0
48.0	790	2183	683	0.00	2.9	0.0	64	0
48.3	790	2183	683	0.00	2.9	0.0	65	0
48.5	790	2183	683	0.00	2.9	0.0	66	0
48.7	790	2183	683	0.00	2.9	0.0	66	0
48.9	790	2183	683	0.00	2.9	0.0	67	0
49.1	790	2183	683	0.00	2.9	0.0	68	0
49.3	790	2183	683	0.00	2.9	0.0	68	0
49.5	790	2183	683	0.00	2.9	0.0	69	0
49.8	790	2183	683	0.00	2.9	0.0	69	0
50.0	790	2183	683	0.00	2.9	0.0	70	0
50.2	790	2183	683	0.00	2.9	0.0	71	0
50.4	790	2183	683	0.00	2.9	0.0	71	0
50.6	790	2183	683	0.00	2.9	0.0	72	0
50.8	790	2183	683	0.00	2.9	0.0	73	0
51.0	790	2183	683	0.00	2.9	0.0	73	0
51.2	790	2183	683	0.00	2.9	0.0	74	0
51.5	790	2183	683	0.00	2.9	0.0	74	0
51.7	790	2183	683	0.00	2.9	0.0	75	0
51.9	790	2183	683	0.00	2.9	0.0	76	0
52.1	790	2183	683	0.00	2.9	0.0	76	0
52.3	790	2183	683	0.00	2.9	0.0	77	0
52.5	790	2183	683	0.00	2.9	0.0	77	0
52.7	790	2183	683	0.00	2.9	0.0	78	0
52.9	790	2183	683	0.00	2.9	0.0	79	0
53.2	790	2183	683	0.00	2.9	0.0	79	0
53.4	790	2183	683	0.00	2.9	0.0	80	0
53.6	790	2183	683	0.00	2.9	0.0	81	0
53.8	790	2183	683	0.00	2.9	0.0	81	0
54.0	790	2183	683	0.00	2.9	0.0	82	0
54.2	790	2183	683	0.00	2.9	0.0	82	0
54.4	790	2183	683	0.00	2.9	0.0	83	0
54.7	790	2183	683	0.00	2.9	0.0	84	0
54.9	790	2183	683	0.00	2.9	0.0	84	0
55.1	790	2183	683	0.00	2.9	0.0	85	0
55.3	790	2183	683	0.00	2.9	0.0	86	0
55.5	790	2183	683	0.00	2.9	0.0	86	0
55.7	790	2183	683	0.00	2.9	0.0	87	0
55.9	790	2183	683	0.00	2.9	0.0	87	0
56.2	790	2183	683	0.00	2.9	0.0	88	0
56.4	790	2183	683	0.00	2.9	0.0	89	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
56.6	790	2183	683	0.00	2.9	0.0	89	0
56.8	790	2183	683	0.00	2.9	0.0	90	0
57.0	790	2183	683	0.00	2.9	0.0	90	0
57.2	790	2183	683	0.00	2.9	0.0	91	0
57.4	790	2183	683	0.00	2.9	0.0	92	0
57.7	804	2197	697	5.29	2.9	0.0	92	0
57.9	788	2191	691	-2.37	2.7	0.0	93	0
58.1	889	2254	754	23.79	3.5	0.0	94	0
58.3	910	2259	759	1.89	3.8	0.0	94	0
58.5	884	2243	743	-5.96	3.6	0.0	95	0
58.7	884	2244	744	0.39	3.6	0.0	96	0
58.9	880	2240	740	-1.43	3.6	0.0	97	0
59.2	880	2240	740	0.00	3.6	0.0	98	0
59.4	880	2240	740	-0.19	3.6	0.0	98	0
59.6	880	2240	740	0.00	3.6	0.0	99	0
59.8	880	2240	740	0.00	3.6	0.0	100	0
60.0	880	2240	740	0.00	3.6	0.0	101	0
60.2	880	2240	740	0.00	3.6	0.0	101	0
60.4	880	2240	740	0.00	3.6	0.0	102	0
60.6	880	2240	740	0.00	3.6	0.0	103	0
60.9	880	2240	740	0.00	3.6	0.0	104	0
61.1	880	2240	740	0.00	3.6	0.0	104	0
61.3	880	2240	740	0.00	3.6	0.0	105	0
61.5	880	2240	740	0.00	3.6	0.0	106	0
61.7	880	2240	740	0.00	3.6	0.0	107	0
61.9	880	2240	740	0.00	3.6	0.0	108	0
62.1	880	2240	740	0.00	3.6	0.0	108	0
62.3	880	2240	740	0.00	3.6	0.0	109	0
62.6	880	2240	740	0.00	3.6	0.0	110	0
62.8	880	2240	740	0.00	3.6	0.0	111	0
63.0	880	2240	740	0.00	3.6	0.0	111	0
63.2	880	2240	740	0.00	3.6	0.0	112	0
63.4	880	2240	740	0.21	3.6	0.0	113	0
63.6	880	2240	740	0.00	3.6	0.0	114	0
63.8	880	2240	740	-0.21	3.6	0.0	114	0
64.0	880	2240	740	0.00	3.6	0.0	115	0
64.3	880	2240	740	0.00	3.6	0.0	116	0
64.5	879	2239	739	-0.21	3.6	0.0	117	0
64.7	879	2239	739	0.00	3.6	0.0	117	0
64.9	879	2239	739	-0.09	3.6	0.0	118	0
65.1	878	2238	738	-0.32	3.6	0.0	119	0
65.3	878	2238	738	0.00	3.6	0.0	120	0
65.5	879	2239	739	0.21	3.6	0.0	121	0
65.7	879	2239	739	0.21	3.6	0.0	121	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
66.0	880	2240	740	0.21	3.6	0.0	122	0
66.2	880	2240	740	0.00	3.6	0.0	123	0
66.4	879	2239	739	-0.21	3.6	0.0	124	0
66.6	879	2239	739	0.00	3.6	0.0	124	0
66.8	880	2240	740	0.21	3.6	0.0	125	0
67.0	880	2240	740	0.00	3.6	0.0	126	0
67.2	880	2240	740	0.00	3.6	0.0	127	0
67.4	880	2240	740	0.00	3.6	0.0	127	0
67.7	880	2240	740	0.00	3.6	0.0	128	0
67.9	880	2240	740	0.00	3.6	0.0	129	0
68.1	880	2240	740	0.00	3.6	0.0	130	0
68.3	880	2240	740	0.00	3.6	0.0	130	0
68.5	879	2239	739	-0.44	3.6	0.0	131	0
68.7	879	2239	739	0.22	3.6	0.0	132	0
68.9	880	2240	740	0.22	3.6	0.0	133	0
69.1	879	2239	739	-0.22	3.6	0.0	133	0
69.3	879	2239	739	-0.12	3.6	0.0	134	0
69.6	880	2240	740	0.32	3.6	0.0	135	0
69.8	880	2240	740	0.00	3.6	0.0	136	0
70.0	880	2240	740	0.00	3.6	0.0	137	0
70.2	880	2240	740	0.00	3.6	0.0	137	0
70.4	880	2240	740	0.00	3.6	0.0	138	0
70.6	880	2240	740	0.00	3.6	0.0	139	0
70.8	880	2239	739	-0.45	3.6	0.0	140	0
71.1	880	2239	739	0.36	3.6	0.0	140	0
71.3	879	2239	739	-0.32	3.6	0.0	141	0
71.5	880	2240	740	0.44	3.6	0.0	142	0
71.7	880	2240	740	0.00	3.6	0.0	143	0
71.9	880	2238	738	-0.96	3.6	0.0	144	0
72.1	880	2240	740	0.97	3.6	0.0	144	0
72.4	878	2238	738	-0.70	3.6	0.0	145	0
72.6	879	2239	739	0.34	3.6	0.0	146	0
72.8	935	2280	780	17.70	3.9	0.0	147	0
73.0	986	2308	808	12.12	4.3	0.0	148	0
73.2	990	2310	810	0.94	4.3	0.0	149	0
73.4	989	2310	810	-0.21	4.3	0.0	150	0
73.6	990	2310	810	0.21	4.3	0.0	150	0
73.9	990	2310	810	-0.26	4.3	0.0	151	0
74.1	990	2309	809	-0.52	4.3	0.0	152	0
74.3	990	2310	810	0.52	4.3	0.0	153	0
74.5	990	2310	810	0.26	4.3	0.0	154	0
74.7	990	2311	811	0.22	4.3	0.0	155	0
74.9	990	2309	809	-0.74	4.3	0.0	156	0
75.1	990	2306	806	-1.33	4.4	0.0	157	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
75.3	990	2308	808	1.02	4.3	0.0	158	0
75.6	990	2307	807	-0.76	4.4	0.0	159	0
75.8	990	2306	806	-0.13	4.4	0.0	160	0
76.0	990	2306	806	-0.14	4.4	0.0	161	0
76.2	990	2306	806	0.00	4.4	0.0	161	0
76.4	990	2309	809	1.28	4.3	0.0	162	0
76.6	990	2310	810	0.27	4.3	0.0	163	0
76.8	990	2309	809	-0.39	4.3	0.0	164	0
77.1	990	2307	807	-0.96	4.4	0.0	165	0
77.3	990	2305	805	-0.83	4.4	0.0	166	0
77.5	990	2305	805	0.28	4.4	0.0	167	0
77.7	990	2305	805	-0.33	4.4	0.0	168	0
77.9	991	2307	807	1.20	4.4	0.0	169	0
78.1	990	2306	806	-0.51	4.4	0.0	170	0
78.3	990	2305	805	-0.75	4.4	0.0	171	0
78.5	990	2306	806	0.85	4.4	0.0	172	0
78.8	990	2307	807	0.09	4.4	0.0	173	0
79.0	991	2306	806	-0.19	4.4	0.0	174	0
79.2	990	2305	805	-0.66	4.4	0.0	175	0
79.4	990	2305	805	0.29	4.4	0.0	175	0
79.6	990	2305	805	-0.13	4.4	0.0	176	0
79.8	990	2305	805	0.05	4.4	0.0	177	0
80.1	990	2305	805	-0.27	4.4	0.0	178	0
80.3	991	2306	806	0.61	4.4	0.0	179	0
80.5	990	2304	804	-0.76	4.4	0.0	180	0
80.7	990	2304	804	0.00	4.4	0.0	181	0
80.9	991	2305	805	0.48	4.4	0.0	182	0
81.1	991	2306	806	0.24	4.4	0.0	183	0
81.3	990	2305	805	-0.18	4.4	0.0	184	0
81.5	991	2305	805	-0.40	4.4	0.0	185	0
81.8	993	2308	808	1.46	4.4	0.0	186	0
82.0	992	2306	806	-0.69	4.4	0.0	187	0
82.2	992	2307	807	0.24	4.4	0.0	188	0
82.4	992	2307	807	0.00	4.4	0.0	189	0
82.6	992	2306	806	-0.24	4.4	0.0	190	0
82.8	993	2307	807	0.46	4.4	0.0	191	0
83.1	991	2306	806	-0.73	4.4	0.0	192	0
83.3	992	2307	807	0.49	4.4	0.0	193	0
83.5	991	2305	805	-0.73	4.4	0.0	193	0
83.7	990	2305	805	-0.24	4.4	0.0	194	0
83.9	990	2305	805	0.00	4.4	0.0	195	0
84.1	991	2306	806	0.49	4.4	0.0	196	0
84.3	990	2303	803	-1.56	4.4	0.0	197	0
84.6	990	2304	804	0.52	4.4	0.0	198	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
84.8	991	2305	805	0.81	4.4	0.0	199	0
85.0	991	2306	806	0.25	4.4	0.0	200	0
85.2	991	2306	806	0.00	4.4	0.0	201	0
85.4	990	2305	805	-0.50	4.4	0.0	202	0
85.6	992	2306	806	0.75	4.4	0.0	203	0
85.8	992	2305	805	-0.68	4.4	0.0	204	0
86.0	993	2307	807	1.18	4.4	0.0	205	0
86.3	991	2306	806	-0.75	4.4	0.0	206	0
86.5	992	2307	807	0.50	4.4	0.0	207	0
86.7	992	2307	807	0.00	4.4	0.0	207	0
86.9	991	2305	805	-0.92	4.4	0.0	208	0
87.1	991	2305	805	0.26	4.4	0.0	209	0
87.3	991	2306	806	0.16	4.4	0.0	210	0
87.5	1066	2363	863	28.44	4.7	0.0	211	0
87.7	1099	2378	878	7.05	5.0	0.0	212	0
87.9	1101	2376	876	-0.73	5.0	0.0	213	0
88.2	1100	2375	875	-0.64	5.0	0.0	214	0
88.4	1101	2376	876	0.64	5.0	0.0	216	0
88.6	1100	2373	873	-1.46	5.0	0.0	217	0
88.8	1101	2376	876	1.45	5.0	0.0	218	0
89.0	1100	2375	875	-0.81	5.0	0.0	219	0
89.2	1100	2375	875	0.31	5.0	0.0	220	0
89.4	1100	2375	875	0.00	5.0	0.0	221	0
89.6	1100	2375	875	-0.16	5.0	0.0	222	0
89.9	1100	2375	875	0.16	5.0	0.0	223	0
90.1	1100	2375	875	-0.17	5.0	0.0	224	0
90.3	1100	2374	874	-0.66	5.0	0.0	225	0
90.5	1100	2375	875	0.83	5.0	0.0	226	0
90.7	1100	2375	875	0.00	5.0	0.0	227	0
90.9	1100	2375	875	0.00	5.0	0.0	228	0
91.1	1100	2375	875	0.00	5.0	0.0	229	0
91.3	1100	2375	875	0.00	5.0	0.0	230	0
91.6	1100	2376	876	0.34	5.0	0.0	231	0
91.8	1100	2375	875	-0.33	5.0	0.0	232	0
92.0	1100	2375	875	0.00	5.0	0.0	234	0
92.2	1100	2375	875	0.00	5.0	0.0	235	0
92.4	1100	2375	875	0.00	5.0	0.0	236	0
92.6	1100	2375	875	0.00	5.0	0.0	237	0
92.8	1100	2376	876	0.17	5.0	0.0	238	0
93.0	1100	2375	875	-0.17	5.0	0.0	239	0
93.3	1100	2375	875	0.00	5.0	0.0	240	0
93.5	1100	2377	877	0.68	5.0	0.0	241	0
93.7	1100	2374	874	-1.37	5.0	0.0	242	0
93.9	1100	2375	875	0.52	5.0	0.0	243	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
94.1	1100	2375	875	0.17	5.0	0.0	244	0
94.3	1100	2375	875	0.00	5.0	0.0	245	0
94.6	1100	2375	875	0.00	5.0	0.0	246	0
94.8	1100	2375	875	0.00	5.0	0.0	247	0
95.0	1099	2374	874	-0.51	5.0	0.0	249	0
95.2	1099	2375	875	0.26	5.0	0.0	250	0
95.4	1099	2375	875	0.17	5.0	0.0	251	0
95.6	1100	2381	881	2.68	4.9	0.0	252	0
95.8	1100	2376	876	-2.42	5.0	0.0	253	0
96.0	1100	2376	876	0.35	5.0	0.0	254	0
96.2	1100	2379	879	1.22	4.9	0.0	255	0
96.5	1100	2376	876	-1.17	5.0	0.0	256	0
96.7	1100	2377	877	0.35	5.0	0.0	257	0
96.9	1100	2379	879	1.05	4.9	0.0	258	0
97.1	1100	2382	882	1.22	4.9	0.0	259	0
97.3	1100	2377	877	-2.10	5.0	0.0	260	0
97.5	1100	2378	878	0.35	5.0	0.0	261	0
97.7	1100	2382	882	1.76	4.9	0.0	262	0
98.0	1100	2379	879	-1.40	5.0	0.0	263	0
98.2	1100	2376	876	-1.42	5.0	0.0	264	0
98.4	1100	2379	879	1.41	5.0	0.0	265	0
98.6	1100	2381	881	0.89	4.9	0.0	267	0
98.8	1100	2378	878	-1.18	5.0	0.0	268	0
99.0	1100	2381	881	1.43	4.9	0.0	269	0
99.2	1099	2380	880	-0.62	4.9	0.0	270	0
99.5	1100	2375	875	-2.24	5.0	0.0	271	0
99.7	1099	2378	878	1.46	4.9	0.0	272	0
99.9	1100	2377	877	-0.55	5.0	0.0	273	0
100.1	1100	2377	877	0.00	5.0	0.0	274	0
100.3	1099	2378	878	0.46	5.0	0.0	275	0
100.5	1100	2380	880	0.99	4.9	0.0	276	0
100.7	1099	2382	882	0.99	4.9	0.0	277	0
100.9	1099	2379	879	-1.45	4.9	0.0	278	0
101.2	1100	2381	881	1.18	4.9	0.0	279	0
101.4	1100	2382	882	0.54	4.9	0.0	280	0
101.6	1100	2382	882	-0.34	4.9	0.0	281	0
101.8	1099	2382	882	0.09	4.9	0.0	282	0
102.0	1099	2380	880	-1.09	4.9	0.0	283	0
102.2	1100	2380	880	-0.09	4.9	0.0	284	0
102.4	1164	2427	927	25.15	5.2	0.0	286	0
102.7	1193	2440	940	6.83	5.4	0.0	287	0
102.9	1186	2436	936	-2.31	5.4	0.0	288	0
103.1	1190	2437	937	0.96	5.4	0.0	289	0
103.3	1190	2437	937	0.00	5.4	0.0	290	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
103.5	1191	2439	939	0.78	5.4	0.0	291	0
103.7	1190	2437	937	-0.78	5.4	0.0	292	0
103.9	1190	2437	937	0.00	5.4	0.0	294	0
104.1	1190	2437	937	0.00	5.4	0.0	295	0
104.3	1190	2437	937	0.00	5.4	0.0	296	0
104.6	1190	2437	937	0.00	5.4	0.0	297	0
104.8	1190	2437	937	0.00	5.4	0.0	298	0
105.0	1190	2438	938	0.38	5.4	0.0	299	0
105.2	1190	2437	937	-0.38	5.4	0.0	300	0
105.4	1190	2437	937	0.00	5.4	0.0	302	0
105.6	1190	2437	937	0.00	5.4	0.0	303	0
105.8	1190	2437	937	0.00	5.4	0.0	304	0
106.0	1190	2436	936	-0.58	5.4	0.0	305	0
106.3	1190	2437	937	0.58	5.4	0.0	306	0
106.5	1190	2437	937	0.00	5.4	0.0	307	0
106.7	1190	2437	937	0.00	5.4	0.0	308	0
106.9	1190	2437	937	0.00	5.4	0.0	310	0
107.1	1190	2437	937	0.00	5.4	0.0	311	0
107.3	1190	2437	937	0.00	5.4	0.0	312	0
107.5	1190	2437	937	0.00	5.4	0.0	313	0
107.7	1190	2437	937	0.00	5.4	0.0	314	0
108.0	1190	2437	937	0.00	5.4	0.0	315	0
108.2	1190	2437	937	0.00	5.4	0.0	317	0
108.4	1190	2437	937	0.00	5.4	0.0	318	0
108.6	1190	2437	937	0.00	5.4	0.0	319	0
108.8	1190	2437	937	0.00	5.4	0.0	320	0
109.0	1190	2439	939	0.94	5.4	0.0	321	0
109.3	1190	2439	939	-0.40	5.4	0.0	322	0
109.5	1190	2437	937	-0.60	5.4	0.0	324	0
109.7	1190	2437	937	0.00	5.4	0.0	325	0
109.9	1190	2437	937	0.00	5.4	0.0	326	0
110.1	1190	2438	938	0.28	5.4	0.0	327	0
110.3	1190	2437	937	-0.28	5.4	0.0	328	0
110.5	1190	2437	937	0.00	5.4	0.0	329	0
110.7	1190	2438	938	0.20	5.4	0.0	330	0
111.0	1190	2437	937	-0.19	5.4	0.0	332	0
111.2	1190	2437	937	0.00	5.4	0.0	333	0
111.4	1190	2437	937	0.00	5.4	0.0	334	0
111.6	1190	2437	937	0.00	5.4	0.0	335	0
111.8	1190	2437	937	-0.41	5.4	0.0	336	0
112.0	1190	2437	937	0.41	5.4	0.0	337	0
112.3	1190	2438	938	0.19	5.4	0.0	339	0
112.5	1190	2437	937	-0.20	5.4	0.0	340	0
112.7	1190	2438	938	0.20	5.4	0.0	341	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
112.9	1190	2437	937	-0.21	5.4	0.0	342	0
113.1	1190	2437	937	0.00	5.4	0.0	343	0
113.3	1190	2437	937	0.00	5.4	0.0	344	0
113.5	1190	2437	937	0.00	5.4	0.0	345	0
113.7	1190	2437	937	0.00	5.4	0.0	347	0
113.9	1190	2439	939	0.90	5.4	0.0	348	0
114.2	1190	2438	938	-0.49	5.4	0.0	349	0
114.4	1190	2438	938	-0.13	5.4	0.0	350	0
114.6	1190	2438	938	0.13	5.4	0.0	351	0
114.8	1190	2437	937	-0.42	5.4	0.0	352	0
115.0	1190	2437	937	0.00	5.4	0.0	353	0
115.2	1190	2437	937	0.00	5.4	0.0	355	0
115.4	1190	2440	940	1.45	5.4	0.0	356	0
115.6	1190	2438	938	-1.05	5.4	0.0	357	0
115.9	1190	2437	937	-0.42	5.4	0.0	358	0
116.1	1190	2437	937	0.00	5.4	0.0	359	0
116.3	1190	2437	937	0.00	5.4	0.0	360	0
116.5	1190	2437	937	0.00	5.4	0.0	362	0
116.7	1190	2439	939	0.61	5.4	0.0	363	0
116.9	1190	2440	940	1.05	5.4	0.0	364	0
117.2	1190	2437	937	-1.69	5.4	0.0	365	0
117.4	1190	2439	939	0.86	5.4	0.0	366	0
117.6	1190	2437	937	-0.78	5.4	0.0	367	0
117.8	1226	2469	969	18.31	5.5	0.0	369	0
118.0	1275	2498	998	16.39	5.7	0.0	370	0
118.2	1313	2526	1026	14.73	5.9	0.0	371	0
118.5	1316	2525	1025	-0.90	5.9	0.0	372	0
118.7	1320	2524	1024	-0.22	6.0	0.0	374	0
118.9	1320	2528	1028	2.12	5.9	0.0	375	0
119.1	1321	2525	1025	-1.60	6.0	0.0	376	0
119.3	1323	2526	1026	0.29	6.0	0.0	377	0
119.5	1321	2524	1024	-0.85	6.0	0.0	379	0
119.7	1326	2529	1029	2.54	6.0	0.0	380	0
120.0	1330	2533	1033	2.35	6.0	0.0	381	0
120.2	1330	2532	1032	-0.43	6.0	0.0	383	0
120.4	1330	2532	1032	0.00	6.0	0.0	384	0
120.6	1330	2532	1032	0.00	6.0	0.0	385	0
120.8	1330	2532	1032	-0.22	6.0	0.0	386	0
121.0	1330	2532	1032	0.21	6.0	0.0	388	0
121.2	1330	2532	1032	0.00	6.0	0.0	389	0
121.4	1330	2532	1032	0.00	6.0	0.0	390	0
121.7	1330	2532	1032	0.00	6.0	0.0	391	0
121.9	1330	2532	1032	0.00	6.0	0.0	393	0
122.1	1330	2532	1032	0.00	6.0	0.0	394	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
122.3	1330	2538	1038	3.27	5.9	0.0	395	0
122.5	1330	2540	1040	1.08	5.9	0.0	397	0
122.7	1330	2540	1040	0.00	5.9	0.0	398	0
122.9	1330	2535	1035	-2.61	6.0	0.0	399	0
123.1	1330	2539	1039	1.98	5.9	0.0	400	0
123.3	1330	2538	1038	-0.43	5.9	0.0	402	0
123.6	1330	2537	1037	-0.44	5.9	0.0	403	0
123.8	1330	2535	1035	-1.32	6.0	0.0	404	0
124.0	1330	2534	1034	-0.60	6.0	0.0	405	0
124.2	1330	2532	1032	-0.95	6.0	0.0	407	0
124.4	1330	2532	1032	0.00	6.0	0.0	408	0
124.6	1330	2532	1032	0.00	6.0	0.0	409	0
124.8	1330	2532	1032	0.00	6.0	0.0	410	0
125.0	1330	2532	1032	0.00	6.0	0.0	412	0
125.3	1330	2533	1033	0.28	6.0	0.0	413	0
125.5	1330	2532	1032	-0.29	6.0	0.0	414	0
125.7	1330	2532	1032	0.00	6.0	0.0	416	0
125.9	1330	2532	1032	0.00	6.0	0.0	417	0
126.1	1330	2532	1032	0.00	6.0	0.0	418	0
126.3	1330	2532	1032	0.00	6.0	0.0	419	0
126.5	1330	2533	1033	0.29	6.0	0.0	421	0
126.7	1330	2533	1033	0.00	6.0	0.0	422	0
127.0	1330	2532	1032	-0.29	6.0	0.0	423	0
127.2	1330	2533	1033	0.29	6.0	0.0	424	0
127.4	1330	2532	1032	-0.29	6.0	0.0	426	0
127.6	1330	2532	1032	0.00	6.0	0.0	427	0
127.8	1330	2532	1032	0.00	6.0	0.0	428	0
128.0	1330	2532	1032	0.00	6.0	0.0	429	0
128.2	1330	2532	1032	0.00	6.0	0.0	431	0
128.4	1330	2531	1031	-0.46	6.0	0.0	432	0
128.7	1330	2530	1030	-0.88	6.0	0.0	433	0
128.9	1330	2532	1032	1.40	6.0	0.0	435	0
129.1	1330	2532	1032	0.00	6.0	0.0	436	0
129.3	1330	2528	1028	-2.56	6.1	0.0	437	0
129.5	1330	2531	1031	1.89	6.0	0.0	438	0
129.7	1330	2531	1031	0.23	6.0	0.0	440	0
129.9	1330	2532	1032	0.47	6.0	0.0	441	0
130.1	1330	2532	1032	0.06	6.0	0.0	442	0
130.4	1330	2531	1031	-1.00	6.0	0.0	444	0
130.6	1330	2525	1025	-3.55	6.1	0.0	445	0
130.8	1330	2529	1029	2.61	6.0	0.0	446	0
131.0	1330	2531	1031	1.42	6.0	0.0	447	0
131.2	1330	2531	1031	0.00	6.0	0.0	449	0
131.4	1330	2525	1025	-4.06	6.1	0.0	450	0

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BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
131.6	1331	2526	1026	0.67	6.1	0.0	451	0
131.8	1330	2526	1026	0.05	6.1	0.0	453	0
132.0	1330	2524	1024	-0.97	6.1	0.0	454	0
132.3	1330	2524	1024	0.00	6.1	0.0	455	0
132.5	1330	2524	1024	0.00	6.1	0.0	456	0
132.7	1330	2524	1024	0.00	6.1	0.0	458	0
132.9	1330	2525	1025	0.49	6.1	0.0	459	0
133.1	1330	2524	1024	-0.49	6.1	0.0	460	0
133.3	1330	2526	1026	0.98	6.1	0.0	462	0
133.5	1330	2524	1024	-0.98	6.1	0.0	463	0
133.8	1330	2524	1024	0.00	6.1	0.0	464	0
134.0	1330	2524	1024	0.00	6.1	0.0	466	0
134.2	1330	2524	1024	-0.17	6.1	0.0	467	0
134.4	1299	2499	999	-15.02	6.0	0.0	468	0
134.6	1144	2393	893	-71.26	5.4	0.0	469	0
134.8	993	2293	793	-75.43	4.6	0.0	470	0
135.1	732	2125	625	-144.64	2.9	0.0	471	0
135.3	621	2081	581	-46.65	0.6	0.0	471	0
135.5	605	2070	570	-11.91	0.0	0.0	471	0
135.7	613	2077	577	8.43	0.0	0.0	471	0
135.9	609	2074	574	-3.94	0.0	0.0	471	0
136.1	612	2076	576	2.80	0.0	0.0	471	0
136.3	610	2074	574	-2.25	0.0	0.0	471	0
136.5	610	2074	574	0.00	0.0	0.0	471	0
136.8	610	2074	574	0.00	0.0	0.0	471	0
137.0	610	2074	574	0.00	0.0	0.0	471	0
137.2	610	2074	574	0.00	0.0	0.0	471	0
137.4	610	2074	574	0.00	0.0	0.0	471	0
137.6	610	2074	574	0.00	0.0	0.0	471	0
137.8	609	2074	574	-0.54	0.0	0.0	471	0
138.0	606	2070	570	-4.03	0.0	0.0	471	0
138.2	608	2073	573	2.87	0.0	0.0	471	0
138.5	607	2071	571	-1.72	0.0	0.0	471	0
138.7	605	2069	569	-2.31	0.0	0.0	471	0
138.9	604	2068	568	-1.16	0.0	0.0	471	0
139.1	603	2068	568	-0.56	0.0	0.0	471	0
139.3	600	2065	565	-3.50	0.0	0.0	471	0
139.5	600	2064	564	-0.56	0.0	0.0	471	0
139.7	600	2065	565	0.59	0.0	0.0	471	0
139.9	600	2065	565	0.00	0.0	0.0	471	0
140.2	601	2066	566	1.17	0.0	0.0	471	0
140.4	600	2064	564	-1.77	0.0	0.0	471	0
140.6	600	2065	565	0.59	0.0	0.0	471	0
140.8	600	2064	564	-0.59	0.0	0.0	471	0

THE WESTERN COMPANY OF NORTH AMERICA - REAL TIME MONITORING SYSTEM

BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
141.0	600	2064	564	0.00	0.0	0.0	471	0
141.2	600	2064	564	0.00	0.0	0.0	471	0
141.4	600	2064	564	0.00	0.0	0.0	471	0
141.6	600	2064	564	0.00	0.0	0.0	471	0
141.8	600	2064	564	0.00	0.0	0.0	471	0
142.1	600	2064	564	0.00	0.0	0.0	471	0
142.3	600	2064	564	0.00	0.0	0.0	471	0
142.5	600	2064	564	0.00	0.0	0.0	471	0
142.7	600	2064	564	0.00	0.0	0.0	471	0
142.9	600	2064	564	0.00	0.0	0.0	471	0
143.1	600	2064	564	0.00	0.0	0.0	471	0
143.3	600	2064	564	0.00	0.0	0.0	471	0
143.5	600	2064	564	0.00	0.0	0.0	471	0
143.7	600	2064	564	0.00	0.0	0.0	471	0
144.0	600	2064	564	0.00	0.0	0.0	471	0
144.2	600	2064	564	0.00	0.0	0.0	471	0
144.4	600	2064	564	0.00	0.0	0.0	471	0
144.6	600	2064	564	0.00	0.0	0.0	471	0
144.8	600	2064	564	0.00	0.0	0.0	471	0
145.0	600	2064	564	0.00	0.0	0.0	471	0
145.2	600	2064	564	0.00	0.0	0.0	471	0
145.4	600	2064	564	0.00	0.0	0.0	471	0
145.7	600	2064	564	0.00	0.0	0.0	471	0
145.9	600	2064	564	0.00	0.0	0.0	471	0
146.1	600	2064	564	0.00	0.0	0.0	471	0
146.3	600	2064	564	0.00	0.0	0.0	471	0
146.5	600	2064	564	0.00	0.0	0.0	471	0
146.7	600	2064	564	0.00	0.0	0.0	471	0
146.9	600	2064	564	0.00	0.0	0.0	471	0
147.1	600	2064	564	0.00	0.0	0.0	471	0
147.3	600	2064	564	0.00	0.0	0.0	471	0
147.6	599	2064	564	-0.62	0.0	0.0	471	0
147.8	600	2064	564	0.62	0.0	0.0	471	0
148.0	600	2064	564	0.00	0.0	0.0	471	0
148.2	600	2064	564	0.00	0.0	0.0	471	0
148.4	600	2064	564	0.00	0.0	0.0	471	0
148.6	600	2064	564	0.00	0.0	0.0	471	0
148.8	599	2064	564	-0.62	0.0	0.0	471	0
149.0	599	2063	563	-0.63	0.0	0.0	471	0
149.3	599	2064	564	0.60	0.0	0.0	471	0
149.5	598	2062	562	-1.81	0.0	0.0	471	0
149.7	599	2063	563	1.26	0.0	0.0	471	0
149.9	600	2064	564	1.26	0.0	0.0	471	0
150.1	596	2061	561	-4.46	0.0	0.0	471	0

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BLOOMFIELD REFINERY SEC.26,T29N,R11W STEP RATE TEST 1-10-94

ET min.	STP psi.	BHTP psi.	NET P psi.	SLOPE	SLR RATE bpm.	PROP lb/gal	Cumm Volume	Cumm Proppant
150.3	596	2061	561	0.00	0.0	0.0	471	0
150.5	599	2063	563	3.18	0.0	0.0	471	0
150.7	597	2061	561	-2.43	0.0	0.0	471	0
151.0	599	2063	563	2.54	0.0	0.0	471	0