
POST TREATMENT REPORT

Patara Oil & Gas LLC
HC Fed #1-13-44-15
Sec 1T44N,R15W
San Miguel County Colorado
Honaker Trail

Treatment Date April 3, 2011

Farmington, NM
505-327-6222



BJ Services Company, U.S.A.



April 3, 2011

Mr. John Warren
Patara Oil & Gas LLC

Re:
Treatment Summary
HC Fed #1-13-44-15
Honaker Trail :formation
Dear Mr. Warren

This post-treatment summary contains information that was gathered through BJ Services' real-time data acquisition system. The stimulation treatment on the above referenced well was performed by our Farmington, NM District on April 3, 2011.

The information presented herein consists of the well data, proposed vs. actual treatment, treatment graphs, discussion, and treatment data.

If you have any questions or comments, please call me at 505-327-6222. We would like to thank you for the opportunity of providing your stimulation and cementing services.

Sincerely,

Ben Barela
Technical Field Representative
BJ Services Company



General Data

Design Date:	March 22, 2011
Customer:	Partara Oil & Gas
Lease:	HC Fed
Well Name:	1-13-44-15
API Number (14 digit):	05-113-06215-0000
Target Zone:	Honaker Trail
Location:	Sec.1-44N-15W
County:	San Miguel
State:	Colorado
Service Date:	April 3, 2011
Customer Representative:	Rex Thomas
OCSG/Legal Description:	
BJ Representative:	N. Mitchell- B. Gord
Service District/Boat:	Farmington, NM
Service Type:	20# Linear Foam Frac
Job Number (10 digit):	1001783345

Casing/Open Hole Data

Section	Depth (ft)	Casing OD (in)	Casing ID (in)	Weight (lbm/ft)	TVD (ft)
1	6848	5.500	4.892	17.00	6848

Perforation Intervals

Section	FromMD (ft)	ToMD (ft)	Shot Density (shots/ft)	Perf. Dia (in)	Net Length (ft)
1	6694	6709	2.0	0.340	15
2	6816	6848	2.0	0.340	32
3	6880	6898	2.0	0.340	18
4	6960	7002	2.0	0.340	42

Total Net Perforation (ft):	107
Total Perforation Counts:	214

Reservoir Data

Formation:	Honaker Trailer	Porosity (%):	0
Formation type:	Sandstone	Fracture gradient (psi/ft):	0.700
Pay zone height (ft):	7130	Bottom hole frac press (psi):	4794
MD to mid perf (ft):	6848	Bottom static temp (°F):	159
TVD to mid perf (ft):	6848	Net frac height (ft):	107
Reservoir pressure (psi):	0	Gross frac height (ft):	308
Permeability (md):	0.000		



PLANNED AND ACTUAL TREATMENT PARAMETERS

Parameters	Planned	Actual	
Treating Conductor	5.500	5.500	in
Injection Rate	35.0	12.2	bpm
Average Surface Treating Pressure	3431	4889	psi
FLUID VOLUME			
Treating Fluid Volume	1758.6	2027.2	bbl
Flush Volume	47.7	53.9	bbl
PROPPANT			
Proppant_2.65	263000	262860	lbm
ADDITIVES			
GBW-5	9	15	Lbs
ENZYME-G-	39	45	Gals
GW-3LDF	381	365	Gals
BF-7L	220	220	Gals
HP-CRB	75	80	Lbs
Magnacide 575	4	5	Gals
INFLO 250W	77	74	Gals
XLW-32	75	75	Gals
FAW-4	381	365	Gals
ES-4A	60	60	Gals



Treatment Data Summary

Type of Well:	New Gas	Depth TD/PB (ft):	7130
Previous Treatment:	None	Previous Production:	None
Hole Loaded with:	2% KCL	Treatment through:	Casing
Target Formation:	Honaker Trailer		

Type of Packer:	N/A	Packer Set at (ft):	0
-----------------	-----	---------------------	---

Fluid Description (by stage)	Fluid Type	Pumped Volume (bbl)
--	-------------------	----------------------------

1	Test	2% KCL Water	21.0
2	Breakdown	2% KCL Water	358.4
3	Pad	GW-27 20 PPT	418.1
4	1.00	GW-27 20 PPT	637.8
5	2.00	GW-27 20 PPT	526.5
6	3.00	GW-27 20 PPT	48.5
7	4.00	GW-27 20 PPT	37.8
8	Flush	GW-27 20 PPT	53.9

Total Fluid	2102.1
-------------	--------

Proppant Description (by stage)	Type	Mesh Size	Proppant Pumped (lbm)
---	-------------	------------------	------------------------------

4	1.00, Prop_2.65	Sand,White	20/40	97047
5	2.00, Prop_2.65	Sand,White	20/40	146120
6	3.00, Prop_2.65	Sand,White	20/40	21719
7	4.00, Prop_2.65	Sand,White	20/40	17443

Total Proppant	282328.0
----------------	----------

Liquid Pumped and Capacities (bbl)

Tubing Capacity:	0.0	Pad Volume:	418.0
Casing Capacity:	165.8	Treating Fluid:	1555.0
Annulus Capacity:	0.0	Flush:	154.0
Open Hole Capacity:	120.0	Over/Under Flush:	0.0
Fluid to Load:	418.0	Fluid to Recover:	2080.0

Foam Quality:	70Q	Foam Type:	Mitchell Downhole
Total N2 (Mscf):	4824.0	Total CO2:	0.0

Treating Pressure (psi)	Injection Rate (bpm)	Shut in Pressure (psi)
--------------------------------	-----------------------------	-------------------------------

Minimum:	4071	Treating Fluid:	35.0	ISDP:	4558
Maximum:	5099	Flush Fluid:	35.0	5 Min.:	4550
Average:	4889	Average:	35.0	10 Min:	4547
Operator Max:	7500			15 Min:	4538
				Final: 4538 in Min.:	15.000
				Flush Dens. ppg:	8.13

Pump Description	Type	Count	Max. Pressure (psi)
-------------------------	-------------	--------------	----------------------------

Kodiak	2000 HHP	3	8500
N2 Pump	1500 HHP	4	10000



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

<i>Ball Sealer Description</i>	<i>Type</i>	<i>Count</i>	<i>in Stage</i>
---------------------------------------	--------------------	---------------------	------------------------

BioSealers MR		96	
---------------	--	----	--

<i>Auxiliary Material</i>	<i>Quantity</i>	<i>Unit</i>
----------------------------------	------------------------	--------------------

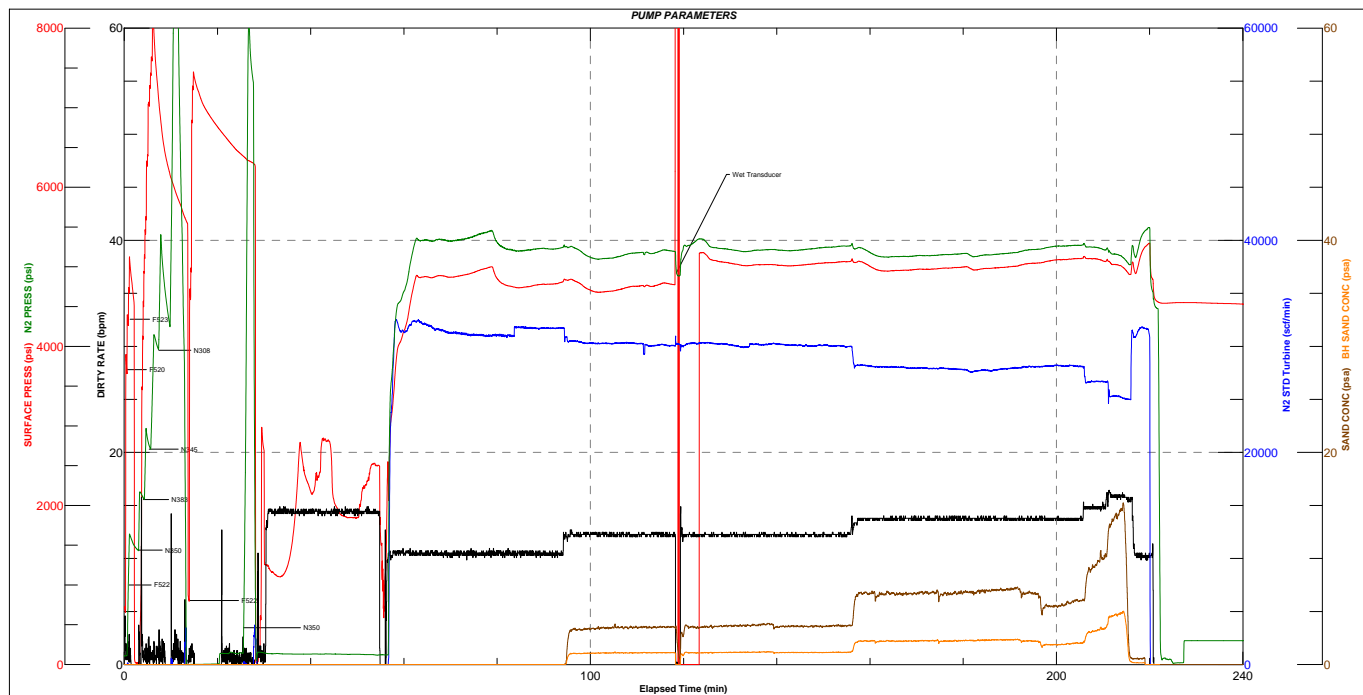
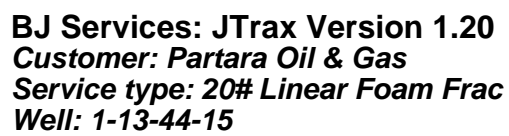
None		
------	--	--

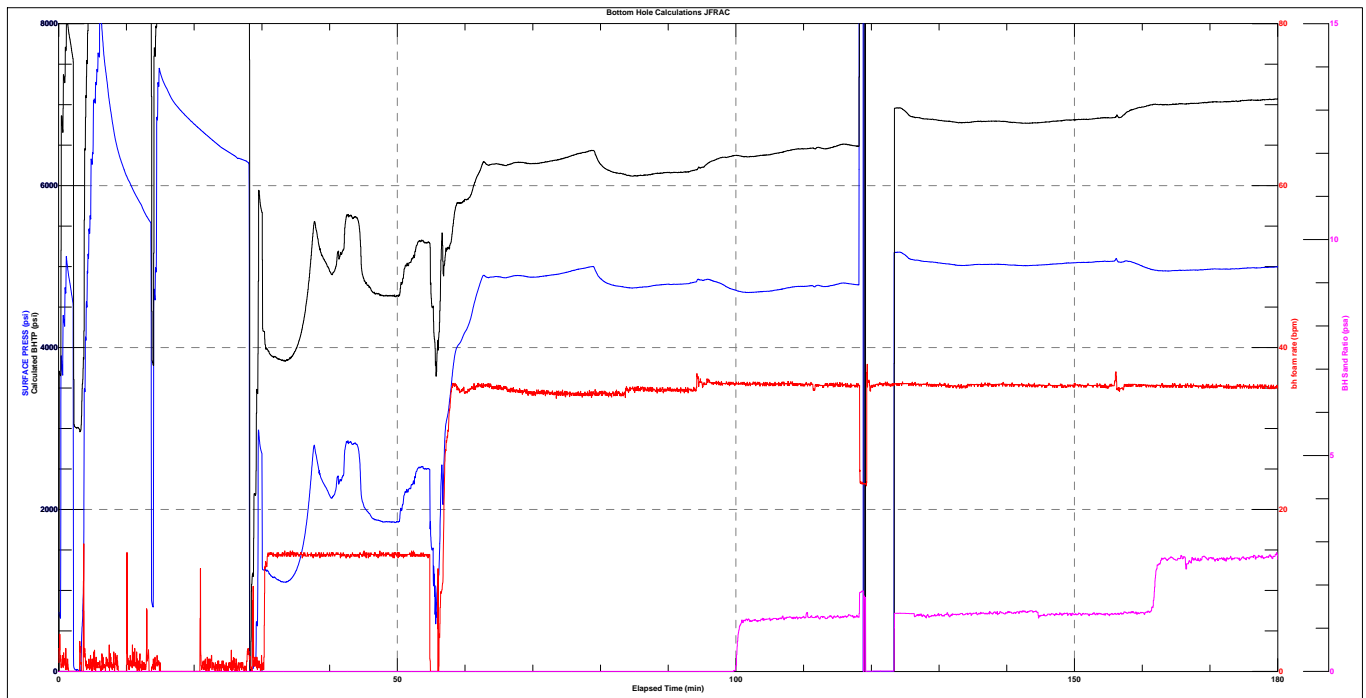
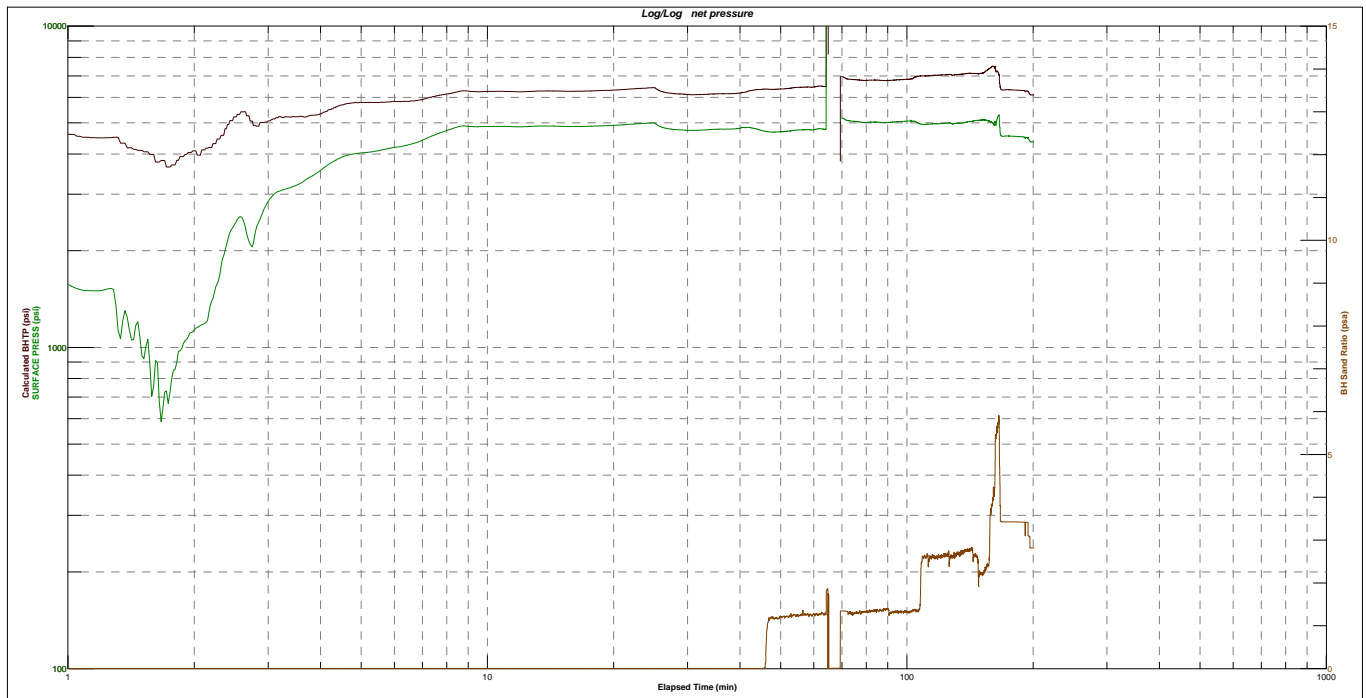


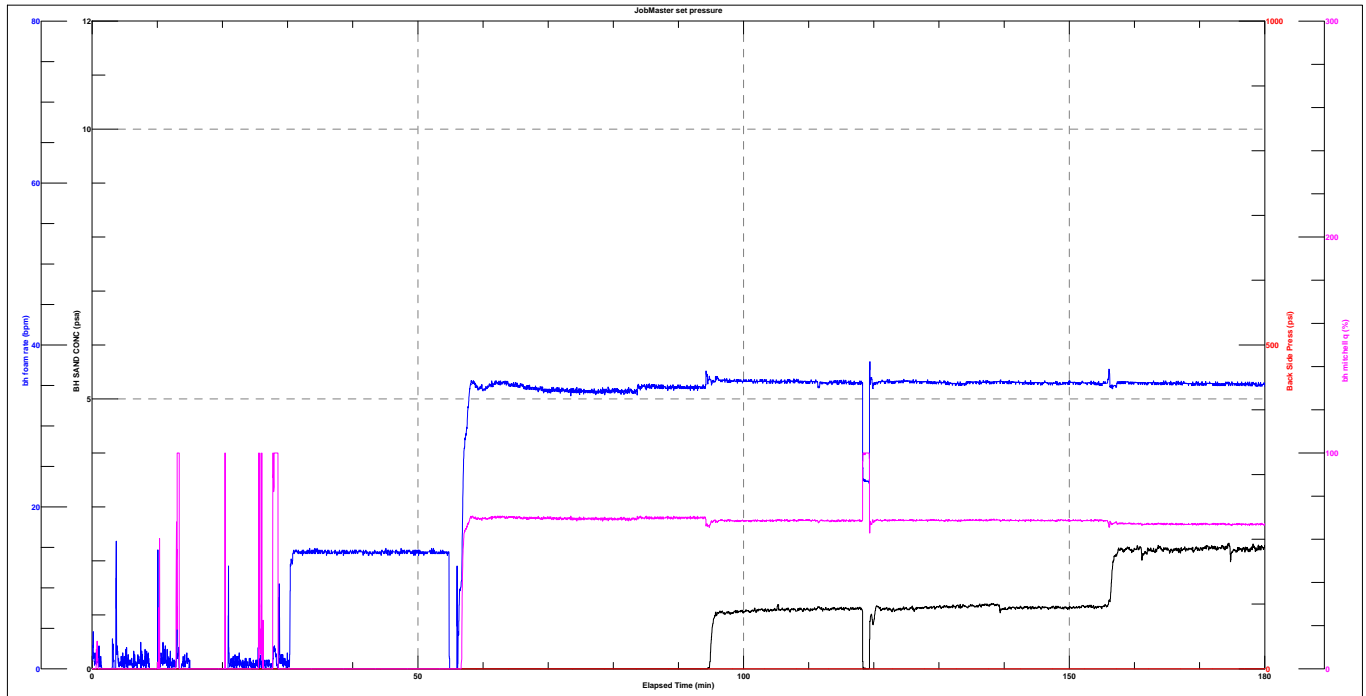
STIMULATION PROCEDURE SUMMARY

Job Start Time: "Apr 03, 2011, 08:54:57 AM"

Time	Treat STP psi	Press Annu psi	Slurry Stage bbl	Slurry Total bbl	Slurry Rate bpm	Total CO2 bbl	CO2 Rate bpm	Total N2 Mscf	N2 Rate scf/min	DH Rate bpm	DH Foam Pumped bbl	Comments
08:54:57	0		0.0	0.0	0.0			0.0	0	0.0	0.0	"Start Stage 1"
10:22:37	1253		0.1	0.1	1.8			0.0	0	1.8	0.1	"Start Stage 2"
10:49:07	2453		358.3	358.4	10.3			0.7	9744	17.8	358.9	"Start Stage 3"
11:28:43	4831		409.9	776.5	12.3			1238.6	30529	35.7	1726.9	"Start Stage 4"
12:30:10	5066		742.2	1518.8	13.8			3090.1	28227	35.5	3889.6	"Start Stage 5"
13:19:47	5102		670.1	2202.6	14.7			4476.0	26682	35.1	5636.8	"Start Stage 6"
13:24:31	5029		70.8	2274.5	16.0			4600.8	25359	35.4	5804.5	"Start Stage 7"
13:28:06	4904		56.6	2331.1	15.5			4691.0	24982	34.7	5930.3	"Start Stage 8"









Data Listing

Time	Clock Time min	SURFACE PR psi	DIRTY RATE bpm	DIRTY TOT bbl	SAND CONC psa	bh foam ra bpm	BH Sand Ra psa	Calculated psi
08:54:59	0.036	723	2.8	0.1	0.00	2.8	0.00	0
08:55:16	0.333	3837	0.9	0.7	0.00	0.9	0.00	5171
08:55:36	0.666	4391	1.3	1.1	0.00	1.3	0.00	6955
08:55:56	0.999	4695	0.2	1.5	0.00	0.2	0.00	7705
08:56:16	1.332	4967	1.5	1.8	0.00	1.5	0.00	7988
08:56:36	1.665	4786	0.0	1.9	0.00	0.0	0.00	7811
08:56:56	1.998	4605	0.0	1.9	0.00	0.0	0.00	7622
08:57:16	2.331	30	0.0	1.9	0.00	0.0	0.00	3032
08:57:36	2.664	19	0.0	1.9	0.00	0.0	0.00	3003
08:57:56	2.997	3	0.0	1.9	0.00	0.0	0.00	2999
08:58:16	3.330	202	1.1	2.4	0.00	1.1	0.00	3045
08:58:36	3.663	1088	11.2	2.8	0.00	11.2	0.00	3861
08:58:56	3.996	4108	0.8	4.2	0.00	0.8	0.00	7048
08:59:16	4.329	5153	0.4	4.4	0.00	0.4	0.00	8021
08:59:36	4.662	5615	0.4	4.7	0.00	0.4	0.00	8566
08:59:56	4.995	6408	0.3	4.9	0.00	0.3	0.00	9295
09:00:16	5.328	7038	0.7	5.4	0.00	0.7	0.00	10040
09:00:36	5.661	7430	0.4	5.6	0.00	0.4	0.00	10327
09:00:56	5.994	7588	0.6	5.9	0.00	0.6	0.00	10589
09:01:16	6.327	7999	0.2	6.1	0.00	0.2	0.00	11048
09:01:36	6.660	7618	0.4	6.4	0.00	0.4	0.00	10669
09:01:56	6.993	7377	1.5	6.6	0.00	1.5	0.00	10388
09:02:16	7.326	7135	0.7	7.0	0.00	0.7	0.00	10172
09:02:36	7.659	6931	1.3	7.4	0.00	1.3	0.00	9948
09:02:56	7.992	6749	0.6	7.7	0.00	0.6	0.00	9760
09:03:16	8.325	6585	1.1	8.0	0.00	1.1	0.00	9595
09:03:36	8.658	6461	0.7	8.4	0.00	0.7	0.00	9466
09:03:56	8.991	6359	0.0	8.5	0.00	0.0	0.00	9362
09:04:16	9.324	6275	0.0	8.5	0.00	0.0	0.00	9278
09:04:36	9.657	6197	0.0	8.5	0.00	0.0	0.00	9196
09:04:56	9.990	6120	0.0	8.5	0.00	0.0	0.00	9121
09:05:16	10.323	6063	0.7	9.5	0.00	0.8	0.00	9060
09:05:36	10.656	6006	0.8	9.8	0.00	0.8	0.00	9004
09:05:56	10.989	5946	0.9	10.2	0.00	0.9	0.00	8945
09:06:16	11.322	5889	1.0	10.7	0.00	1.0	0.00	8883
09:06:36	11.655	5840	1.1	10.9	0.00	1.1	0.00	8834
09:06:56	11.988	5790	2.2	11.2	0.00	2.2	0.00	8784
09:07:16	12.321	5735	1.2	11.4	0.00	1.2	0.00	8730
09:07:36	12.654	5672	0.9	11.7	0.00	0.9	0.00	8670
09:07:56	12.987	5621	6.1	11.9	0.00	7.7	0.00	8605
09:08:16	13.320	5576	0.0	12.3	0.00	0.6	0.00	8569
09:08:36	13.653	4040	0.0	12.3	0.00	-0.1	0.00	8436
09:08:56	13.986	2261	1.3	12.5	0.00	1.3	0.00	3779
09:09:16	14.319	4977	0.7	12.7	0.00	0.7	0.00	7863
09:09:36	14.652	7273	1.3	13.1	0.00	1.3	0.00	9870
09:09:56	14.985	7399	1.0	13.4	0.00	1.0	0.00	10405
09:10:16	15.318	7311	0.0	13.4	0.00	0.0	0.00	10314
09:10:36	15.651	7245	0.0	13.4	0.00	0.0	0.00	10249
09:10:56	15.984	7193	0.0	13.4	0.00	0.0	0.00	10190
09:11:16	16.317	7132	0.0	13.4	0.00	0.0	0.00	10135
09:11:36	16.650	7078	0.0	13.4	0.00	0.0	0.00	10079
09:11:56	16.983	7033	0.0	13.4	0.00	0.0	0.00	10028
09:12:15	17.316	6997	0.0	13.4	0.00	0.0	0.00	9992
09:12:35	17.649	6963	0.0	13.4	0.00	0.0	0.00	9960
09:12:55	17.982	6931	0.0	13.4	0.00	0.0	0.00	9925
09:13:15	18.315	6901	0.0	13.4	0.00	0.0	0.00	9898
09:13:35	18.648	6872	0.0	13.4	0.00	0.0	0.00	9867
09:13:55	18.981	6843	0.0	13.4	0.00	0.0	0.00	9840
09:14:15	19.314	6815	0.0	13.4	0.00	0.0	0.00	9810
09:14:35	19.647	6789	0.0	13.4	0.00	0.0	0.00	9784
09:14:55	19.980	6762	0.0	13.4	0.00	0.0	0.00	9757
09:15:15	20.313	6736	0.0	13.4	0.00	0.0	0.00	9730
09:15:35	20.646	6711	0.0	13.4	0.00	0.0	0.00	9706
09:15:55	20.979	6687	2.1	14.2	0.00	2.1	0.00	9525



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

09:16:15	78.645	6662	1.2	14.5	0.00	1.2	0.00	9656
09:16:35	78.978	6638	1.5	14.7	0.00	1.5	0.00	9633
09:16:55	79.311	6614	0.5	14.9	0.00	0.5	0.00	9604
09:17:15	79.644	6590	1.1	15.2	0.00	1.1	0.00	9581
09:17:35	79.977	6566	0.8	15.6	0.00	0.8	0.00	9555
09:17:55	80.310	6542	0.2	15.9	0.00	0.2	0.00	9536
09:18:15	80.643	6519	0.7	16.0	0.00	0.7	0.00	9513
09:18:35	80.976	6497	0.9	16.2	0.00	0.9	0.00	9490
09:18:55	81.309	6473	0.0	16.4	0.00	0.0	0.00	9467
09:19:15	81.642	6456	0.7	16.6	0.00	0.7	0.00	9447
09:19:35	81.975	6438	0.0	16.7	0.00	0.0	0.00	9431
09:19:55	82.308	6421	0.7	16.9	0.00	0.7	0.00	9413
09:20:15	82.641	6403	1.0	17.1	0.00	1.0	0.00	9393
09:20:35	82.974	6386	1.1	17.4	0.00	1.3	0.00	9376
09:20:55	83.307	6369	0.6	17.6	0.00	0.7	0.00	9358
09:21:15	83.640	6345	0.0	17.8	0.00	0.0	0.00	9336
09:21:35	83.973	6337	0.0	17.9	0.00	0.0	0.00	9324
09:21:55	84.306	6327	1.1	18.1	0.00	1.1	0.00	9311
09:22:15	84.639	6316	0.4	18.4	0.00	0.4	0.00	9302
09:22:35	84.972	6305	0.2	18.5	0.00	0.2	0.00	9291
09:22:55	85.305	6287	0.0	18.6	0.00	2.6	0.00	9268
09:23:15	85.638	22	0.0	18.6	0.00	0.5	0.00	-959
09:23:35	85.971	35	8.8	18.8	0.00	8.8	0.00	1192
09:23:55	86.304	90	1.8	19.9	0.00	1.8	0.00	2188
09:24:15	86.637	573	0.4	20.3	0.00	0.4	0.00	3459
09:24:35	86.970	2854	0.6	20.5	0.00	0.6	0.00	5882
09:24:55	87.303	2698	1.7	20.8	0.00	1.7	0.00	5687
09:25:15	87.636	1251	1.8	18.2	0.00	1.8	0.00	4200
09:25:35	87.969	1242	13.1	3.6	0.00	13.1	0.00	3996
09:25:55	88.302	1231	14.2	8.2	0.00	14.2	0.00	3953
09:26:15	88.635	1183	14.5	13.0	0.00	14.5	0.00	3904
09:26:35	88.968	1166	14.3	17.8	0.00	14.3	0.00	3887
09:26:55	89.301	1156	14.2	22.6	0.00	14.2	0.00	3886
09:27:15	89.634	1133	14.0	27.4	0.00	14.0	0.00	3859
09:27:35	89.967	1121	14.5	32.2	0.00	14.5	0.00	3853
09:27:55	90.300	1110	14.5	37.0	0.00	14.5	0.00	3847
09:28:15	90.633	1104	14.5	41.8	0.00	14.5	0.00	3839
09:28:34	90.966	1108	14.7	46.7	0.00	14.7	0.00	3847
09:28:54	91.299	1121	14.7	51.5	0.00	14.7	0.00	3849
09:29:14	91.632	1143	14.6	56.3	0.00	14.6	0.00	3883
09:29:34	91.965	1177	14.3	61.2	0.00	14.3	0.00	3911
09:29:54	92.298	1229	14.2	66.0	0.00	14.2	0.00	3964
09:30:14	92.631	1298	14.7	70.8	0.00	14.7	0.00	4034
09:30:34	92.964	1386	14.5	75.6	0.00	14.5	0.00	4120
09:30:54	93.297	1509	14.0	80.4	0.00	14.0	0.00	4243
09:31:14	93.630	1660	14.5	85.2	0.00	14.5	0.00	4386
09:31:34	93.963	1859	14.2	90.0	0.00	14.2	0.00	4593
09:31:54	94.296	2116	14.5	94.8	0.00	14.5	0.00	4824
09:32:14	94.629	2431	14.7	99.6	0.00	14.7	0.00	5139
09:32:34	94.962	2758	14.2	104.4	0.00	14.2	0.00	5498
09:32:54	95.295	2686	14.7	109.2	0.00	14.7	0.00	5480
09:33:14	95.628	2537	14.5	113.9	0.00	14.5	0.00	5339
09:33:34	95.961	2419	14.5	118.7	0.00	14.5	0.00	5199
09:33:54	96.294	2344	14.2	123.5	0.00	14.2	0.00	5125
09:34:14	96.627	2294	14.2	128.3	0.00	14.2	0.00	5067
09:34:34	96.960	2242	14.6	133.1	0.00	14.6	0.00	5016
09:34:54	97.293	2181	14.6	137.9	0.00	14.6	0.00	4954
09:35:14	97.626	2140	14.5	142.7	0.00	14.5	0.00	4902
09:35:34	97.959	2176	14.5	147.5	0.00	14.5	0.00	4938
09:35:54	98.292	2268	14.7	152.3	0.00	14.7	0.00	5007
09:36:14	98.625	2373	14.5	157.2	0.00	14.5	0.00	5191
09:36:34	98.958	2370	14.3	162.0	0.00	14.3	0.00	5171
09:36:54	99.291	2419	14.5	166.8	0.00	14.5	0.00	5195
09:37:14	99.624	2752	14.5	171.6	0.00	14.5	0.00	5527
09:37:34	99.957	2836	14.4	176.3	0.00	14.4	0.00	5624
09:37:54	100.290	2826	14.1	181.1	0.00	14.1	0.00	5631
09:38:14	100.623	2807	14.2	185.8	0.00	14.2	0.00	5615
09:38:34	100.956	2813	14.2	190.6	0.00	14.2	0.00	5611
09:38:54	101.289	2803	14.2	195.4	0.00	14.2	0.00	5601
09:39:14	101.622	2729	14.4	200.2	0.00	14.4	0.00	5540



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

09:39:34	101.955	2250	14.5	205.0	0.00	14.5	0.00	5128
09:39:54	102.288	2074	14.7	209.8	0.00	14.7	0.00	4876
09:40:14	102.621	2005	14.5	214.6	0.00	14.5	0.00	4807
09:40:34	102.954	1974	14.5	219.4	0.00	14.5	0.00	4769
09:40:54	103.287	1943	14.5	224.2	0.00	14.5	0.00	4745
09:41:14	103.620	1894	14.5	229.0	0.00	14.5	0.00	4690
09:41:34	103.953	1878	14.7	233.8	0.00	14.7	0.00	4682
09:41:54	104.286	1867	14.3	238.6	0.00	14.3	0.00	4664
09:42:14	104.619	1865	14.4	243.4	0.00	14.4	0.00	4660
09:42:34	104.952	1852	14.7	248.2	0.00	14.7	0.00	4649
09:42:54	105.285	1846	14.7	253.0	0.00	14.7	0.00	4645
09:43:14	105.618	1846	14.5	257.8	0.00	14.5	0.00	4641
09:43:34	105.951	1849	14.5	262.7	0.00	14.5	0.00	4640
09:43:54	106.284	1845	14.5	267.5	0.00	14.5	0.00	4639
09:44:14	106.617	1848	14.2	272.3	0.00	14.2	0.00	4633
09:44:34	106.950	1840	14.7	277.1	0.00	14.7	0.00	4651
09:44:54	107.283	1850	14.5	281.9	0.00	14.5	0.00	4643
09:45:13	107.616	1852	14.7	286.7	0.00	14.7	0.00	4649
09:45:33	107.949	1985	14.4	291.5	0.00	14.4	0.00	4802
09:45:53	108.282	2158	14.5	296.3	0.00	14.5	0.00	4900
09:46:13	108.615	2210	14.5	301.0	0.00	14.5	0.00	5008
09:46:33	108.948	2232	14.5	305.8	0.00	14.5	0.00	5009
09:46:53	109.281	2255	14.2	310.6	0.00	14.2	0.00	5054
09:47:13	109.614	2317	14.7	315.4	0.00	14.7	0.00	5100
09:47:33	109.947	2392	14.3	320.3	0.00	14.3	0.00	5192
09:47:53	110.280	2496	14.5	325.0	0.00	14.5	0.00	5279
09:48:13	110.613	2514	14.2	329.8	0.00	14.2	0.00	5321
09:48:33	110.946	2524	14.5	334.6	0.00	14.5	0.00	5323
09:48:53	111.279	2505	14.2	339.4	0.00	14.2	0.00	5306
09:49:13	111.612	2497	14.5	344.2	0.00	14.5	0.00	5296
09:49:33	111.945	2504	14.5	348.9	0.00	14.5	0.00	5300
09:49:53	112.278	1657	0.0	351.6	0.00	0.0	0.00	4801
09:50:13	112.611	1519	0.0	351.6	0.00	0.0	0.00	4507
09:50:33	112.944	859	0.0	351.6	0.00	0.0	0.00	3847
09:50:53	113.277	1096	0.0	351.6	0.00	0.0	0.00	4046
09:51:13	113.610	1598	5.2	352.9	0.00	5.2	0.00	4454
09:51:33	113.943	2505	10.1	355.9	0.00	10.1	0.00	5416
09:51:53	114.276	2722	10.3	359.4	0.00	22.8	0.00	5022
09:52:13	114.609	3104	10.1	362.8	0.00	28.3	0.00	5209
09:52:33	114.942	3260	10.3	366.2	0.00	31.2	0.00	5229
09:52:53	115.275	3508	10.7	369.7	0.00	34.5	0.00	5306
09:53:13	115.608	3781	10.5	373.2	0.00	35.4	0.00	5533
09:53:33	115.941	3955	10.5	376.7	0.00	35.3	0.00	5733
09:53:53	116.274	4024	10.5	380.3	0.00	34.9	0.00	5786
09:54:13	116.607	4060	10.5	383.8	0.00	34.6	0.00	5793
09:54:33	116.940	4120	10.5	387.3	0.00	34.7	0.00	5798
09:54:53	117.273	4184	10.3	390.8	0.00	34.4	0.00	5830
09:55:13	117.606	4230	10.3	394.3	0.00	34.4	0.00	5823
09:55:33	117.939	4300	10.5	397.8	0.00	34.6	0.00	5851
09:55:53	118.272	4395	10.6	401.3	0.00	35.0	0.00	5898
09:56:13	118.605	4517	10.3	404.8	0.00	34.9	0.00	6000
09:56:33	118.938	4625	10.5	408.3	0.00	35.1	0.00	6078
09:56:53	119.271	4718	10.3	411.8	0.00	35.1	0.00	6139
09:57:13	119.604	4805	10.5	415.3	0.00	35.4	0.00	6198
09:57:33	119.937	4880	10.5	418.8	0.00	35.3	0.00	6277
09:57:53	120.270	4884	10.5	422.3	0.00	35.4	0.00	6284
09:58:13	120.603	4866	10.3	425.8	0.00	35.2	0.00	6258
09:58:33	120.936	4868	10.3	429.3	0.00	35.1	0.00	6259
09:58:53	121.269	4871	10.3	432.8	0.00	34.9	0.00	6263
09:59:13	121.602	4873	10.3	436.3	0.00	35.0	0.00	6268
09:59:33	121.935	4878	10.3	439.8	0.00	34.9	0.00	6272
09:59:53	122.268	4875	10.7	443.2	0.00	35.3	0.00	6268
10:00:13	122.601	4871	10.7	446.7	0.00	35.2	0.00	6260
10:00:33	122.934	4864	10.5	450.2	0.00	35.0	0.00	6254
10:00:53	123.267	4862	10.5	453.7	0.00	35.0	0.00	6248
10:01:13	123.600	4868	10.5	457.3	0.00	34.8	0.00	6258
10:01:33	123.933	4873	10.3	460.7	0.00	34.6	0.00	6263
10:01:52	124.266	4882	10.5	464.2	0.00	34.7	0.00	6274
10:02:12	124.599	4887	10.5	467.7	0.00	34.8	0.00	6283
10:02:32	124.932	4888	10.5	471.2	0.00	34.8	0.00	6285



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

10:02:52	125.265	4890	10.3	474.7	0.00	34.5	0.00	6288
10:03:12	125.598	4888	10.5	478.1	0.00	34.7	0.00	6289
10:03:32	125.931	4885	10.3	481.6	0.00	34.4	0.00	6287
10:03:52	126.264	4879	10.3	485.1	0.00	34.4	0.00	6280
10:04:12	126.597	4873	10.3	488.6	0.00	34.3	0.00	6277
10:04:32	126.930	4870	10.5	492.1	0.00	34.5	0.00	6272
10:04:52	127.263	4869	10.2	495.5	0.00	34.2	0.00	6274
10:05:12	127.596	4870	10.3	499.0	0.00	34.3	0.00	6272
10:05:32	127.929	4871	10.7	502.4	0.00	34.8	0.00	6272
10:05:52	128.262	4874	10.5	505.9	0.00	34.5	0.00	6277
10:06:12	128.595	4878	10.7	509.4	0.00	34.7	0.00	6281
10:06:32	128.928	4882	10.4	512.9	0.00	34.3	0.00	6287
10:06:52	129.261	4887	10.5	516.4	0.00	34.5	0.00	6295
10:07:12	129.594	4891	10.7	519.9	0.00	34.7	0.00	6298
10:07:32	129.927	4894	10.5	523.3	0.00	34.4	0.00	6303
10:07:52	130.260	4897	10.6	526.8	0.00	34.5	0.00	6305
10:08:12	130.593	4901	10.5	530.3	0.00	34.5	0.00	6312
10:08:32	130.926	4906	10.5	533.7	0.00	34.4	0.00	6317
10:08:52	131.259	4909	10.5	537.2	0.00	34.4	0.00	6324
10:09:12	131.592	4917	10.5	540.7	0.00	34.3	0.00	6330
10:09:32	131.925	4922	10.3	544.2	0.00	34.1	0.00	6339
10:09:52	132.258	4928	10.3	547.7	0.00	34.2	0.00	6344
10:10:12	132.591	4935	10.5	551.2	0.00	34.3	0.00	6355
10:10:32	132.924	4943	10.5	554.7	0.00	34.3	0.00	6365
10:10:52	133.257	4950	10.5	558.1	0.00	34.3	0.00	6375
10:11:12	133.590	4957	10.4	561.6	0.00	34.3	0.00	6383
10:11:32	133.923	4966	10.5	565.1	0.00	34.3	0.00	6394
10:11:52	134.256	4971	10.4	568.5	0.00	34.2	0.00	6398
10:12:12	134.589	4975	10.5	572.0	0.00	34.3	0.00	6405
10:12:32	134.922	4980	10.3	575.5	0.00	34.1	0.00	6410
10:12:52	135.255	4986	10.5	579.0	0.00	34.3	0.00	6416
10:13:12	135.588	4993	10.3	582.4	0.00	34.1	0.00	6428
10:13:32	135.921	4998	10.3	585.9	0.00	34.1	0.00	6433
10:13:52	136.254	5001	10.7	589.4	0.00	34.6	0.00	6435
10:14:12	136.587	4951	10.6	592.9	0.00	34.4	0.00	6380
10:14:32	136.920	4895	10.3	596.4	0.00	34.2	0.00	6320
10:14:52	137.253	4860	10.7	599.9	0.00	34.5	0.00	6273
10:15:12	137.586	4834	10.4	603.4	0.00	34.2	0.00	6242
10:15:32	137.919	4814	10.5	606.9	0.00	34.3	0.00	6217
10:15:52	138.252	4797	10.3	610.4	0.00	34.1	0.00	6201
10:16:12	138.585	4787	10.3	613.9	0.00	34.1	0.00	6191
10:16:32	138.918	4775	10.3	617.3	0.00	34.0	0.00	6175
10:16:52	139.251	4770	10.3	620.8	0.00	34.0	0.00	6164
10:17:12	139.584	4763	10.7	624.3	0.00	34.5	0.00	6157
10:17:32	139.917	4760	10.7	627.8	0.00	34.6	0.00	6153
10:17:52	140.250	4756	10.3	631.4	0.00	34.0	0.00	6153
10:18:12	140.583	4752	10.7	634.8	0.00	34.5	0.00	6145
10:18:31	140.916	4745	10.5	638.3	0.00	34.3	0.00	6135
10:18:51	141.249	4741	10.3	641.8	0.00	34.7	0.00	6125
10:19:11	141.582	4739	10.5	645.3	0.00	34.9	0.00	6126
10:19:31	141.915	4736	10.5	648.8	0.00	35.0	0.00	6119
10:19:51	142.248	4737	10.3	652.3	0.00	34.7	0.00	6122
10:20:11	142.581	4738	10.5	655.7	0.00	34.9	0.00	6121
10:20:31	142.914	4742	10.7	659.2	0.00	35.2	0.00	6120
10:20:51	143.247	4746	10.3	662.7	0.00	34.7	0.00	6130
10:21:11	143.580	4747	10.7	666.3	0.00	35.1	0.00	6124
10:21:31	143.913	4750	10.6	669.7	0.00	34.9	0.00	6130
10:21:51	144.246	4752	10.7	673.2	0.00	35.0	0.00	6131
10:22:11	144.579	4755	10.3	676.7	0.00	34.6	0.00	6138
10:22:31	144.912	4761	10.7	680.2	0.00	35.1	0.00	6139
10:22:51	145.245	4767	10.5	683.7	0.00	34.9	0.00	6147
10:23:11	145.578	4770	10.3	687.1	0.00	34.6	0.00	6153
10:23:31	145.911	4772	10.5	690.6	0.00	34.8	0.00	6150
10:23:51	146.244	4776	10.5	694.1	0.00	34.8	0.00	6157
10:24:11	146.577	4778	10.3	697.6	0.00	34.6	0.00	6158
10:24:31	146.910	4780	10.5	701.1	0.00	34.9	0.00	6163
10:24:51	147.243	4782	10.6	704.5	0.00	35.0	0.00	6163
10:25:11	147.576	4779	10.7	708.0	0.00	35.1	0.00	6160
10:25:31	147.909	4780	10.5	711.5	0.00	34.8	0.00	6161
10:25:51	148.242	4782	10.5	715.0	0.00	34.8	0.00	6163



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

10:26:11	148.575	4782	10.5	718.4	0.00	34.8	0.00	6162
10:26:31	148.908	4783	10.5	721.9	0.00	34.8	0.00	6164
10:26:51	149.241	4783	10.5	725.4	0.00	34.8	0.00	6163
10:27:11	149.574	4785	10.4	728.9	0.00	34.7	0.00	6168
10:27:31	149.907	4787	10.7	732.4	0.00	35.1	0.00	6170
10:27:51	150.240	4788	10.7	735.8	0.00	35.1	0.00	6167
10:28:11	150.573	4797	10.5	739.3	0.00	34.9	0.00	6176
10:28:31	150.906	4803	10.3	742.8	0.00	34.6	0.00	6186
10:28:51	151.239	4809	10.5	746.3	0.00	34.9	0.00	6192
10:29:11	151.572	4824	12.5	749.8	0.00	36.8	0.00	6199
10:29:31	151.905	4837	12.0	753.8	0.04	35.7	0.00	6226
10:29:51	152.238	4836	12.0	757.8	0.56	35.7	0.00	6225
10:30:11	152.571	4831	12.3	761.8	2.49	35.6	0.00	6228
10:30:31	152.904	4838	12.0	765.8	3.11	35.5	0.00	6256
10:30:51	153.237	4843	12.5	770.0	3.14	35.9	0.00	6280
10:31:11	153.570	4833	12.3	774.1	3.29	35.7	0.00	6295
10:31:31	153.903	4824	12.3	778.2	3.35	35.7	0.00	6305
10:31:51	154.236	4815	12.3	782.2	3.25	35.6	0.00	6317
10:32:11	154.569	4808	12.3	786.3	3.26	35.7	0.00	6329
10:32:31	154.902	4798	12.3	790.4	3.28	35.6	0.00	6340
10:32:51	155.235	4785	12.3	794.5	3.28	35.6	0.00	6347
10:33:11	155.568	4770	12.3	798.5	3.29	35.6	0.00	6350
10:33:31	155.901	4752	12.5	802.6	3.35	35.8	0.00	6350
10:33:51	156.234	4738	12.3	806.7	3.37	35.5	0.00	6355
10:34:11	156.567	4726	12.5	810.8	3.33	35.7	0.00	6362
10:34:31	156.900	4717	12.5	814.9	3.37	35.7	0.00	6370
10:34:51	157.233	4709	12.3	819.0	3.30	35.5	0.02	6374
10:35:10	157.566	4699	12.3	823.1	3.37	35.5	0.70	6372
10:35:30	157.899	4694	12.3	827.2	3.41	35.5	1.06	6367
10:35:50	158.232	4688	12.3	831.3	3.37	35.5	1.19	6362
10:36:10	158.565	4684	12.5	835.4	3.39	35.7	1.19	6359
10:36:30	158.898	4680	12.3	839.5	3.37	35.5	1.21	6356
10:36:50	159.231	4680	12.3	843.6	3.33	35.5	1.21	6356
10:37:10	159.564	4681	12.3	847.6	3.39	35.5	1.18	6359
10:37:30	159.897	4682	12.5	851.7	3.46	35.7	1.19	6357
10:37:50	160.230	4685	12.5	855.9	3.48	35.7	1.19	6362
10:38:10	160.563	4688	12.3	860.0	3.39	35.5	1.18	6366
10:38:30	160.896	4690	12.0	864.1	3.39	35.2	1.17	6373
10:38:50	161.229	4691	12.3	868.1	3.35	35.5	1.21	6374
10:39:10	161.562	4693	12.3	872.2	3.48	35.5	1.19	6378
10:39:30	161.895	4695	12.3	876.3	3.47	35.5	1.21	6379
10:39:50	162.228	4696	12.0	880.4	3.46	35.2	1.22	6381
10:40:10	162.561	4701	12.3	884.5	3.75	35.5	1.21	6386
10:40:30	162.894	4705	12.3	888.5	3.46	35.5	1.23	6393
10:40:50	163.227	4710	12.3	892.6	3.57	35.5	1.22	6401
10:41:10	163.560	4713	12.3	896.7	3.47	35.5	1.22	6403
10:41:30	163.893	4718	12.3	900.8	3.57	35.5	1.24	6410
10:41:50	164.226	4723	12.5	904.8	3.52	35.8	1.27	6415
10:42:10	164.559	4729	12.3	908.9	3.44	35.5	1.25	6421
10:42:30	164.892	4737	12.3	913.0	3.51	35.5	1.26	6430
10:42:50	165.225	4739	12.2	917.1	3.53	35.4	1.26	6436
10:43:10	165.558	4746	12.3	921.2	3.40	35.5	1.24	6440
10:43:30	165.891	4749	12.3	925.3	3.52	35.5	1.26	6447
10:43:50	166.224	4753	12.3	929.3	3.52	35.5	1.25	6452
10:44:10	166.557	4755	12.3	933.4	3.52	35.5	1.24	6452
10:44:30	166.890	4757	12.2	937.5	3.50	35.4	1.23	6453
10:44:50	167.223	4755	12.0	941.5	3.52	35.3	1.25	6455
10:45:10	167.556	4755	12.3	945.6	3.50	35.5	1.24	6456
10:45:30	167.889	4759	12.2	949.7	3.51	35.4	1.36	6456
10:45:50	168.222	4761	12.3	953.7	3.61	35.5	1.25	6460
10:46:10	168.555	4765	12.3	957.8	3.52	35.5	1.25	6463
10:46:30	168.888	4751	12.3	961.9	3.55	34.7	1.24	6457
10:46:50	169.221	4764	12.0	966.0	3.55	35.2	1.25	6465
10:47:10	169.554	4769	12.3	970.1	3.52	35.4	1.24	6473
10:47:30	169.887	4761	12.3	974.1	3.50	35.3	1.26	6466
10:47:50	170.220	4753	12.0	978.2	3.50	35.1	1.27	6457
10:48:10	170.553	4753	12.4	982.3	3.42	35.5	1.22	6452
10:48:30	170.886	4756	12.4	986.4	3.52	35.5	1.26	6457
10:48:50	171.219	4763	12.3	990.5	3.57	35.3	1.29	6465
10:49:10	171.552	4767	12.3	994.6	3.44	35.4	1.25	6473



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

10:49:30	171.885	4774	12.1	998.7	3.52	35.2	1.28	6483
10:49:50	172.218	4781	12.3	1002.8	3.57	35.4	1.27	6492
10:50:10	172.551	4786	12.2	1006.9	3.51	35.4	1.26	6499
10:50:30	172.884	4794	12.3	1010.9	3.57	35.4	1.25	6508
10:50:50	173.217	4798	12.3	1015.0	3.52	35.4	1.25	6513
10:51:10	173.550	4796	12.0	1019.1	3.46	35.1	1.27	6514
10:51:30	173.883	4790	12.3	1023.2	3.50	35.3	1.29	6509
10:51:49	174.216	4787	12.0	1027.2	3.52	35.1	1.31	6500
10:52:09	174.549	4782	12.3	1031.3	3.57	35.3	1.27	6495
10:52:29	174.882	4779	12.3	1035.4	3.61	35.3	1.28	6492
10:52:49	175.215	4777	12.3	1039.5	3.55	35.4	1.30	6486
10:53:09	175.548	19173	12.3	1043.5	3.44	35.3	1.34	7345
10:53:29	175.881	24100	0.0	1044.3	2.65	23.2	1.86	26965
10:53:49	176.214	-20000	0.0	1044.3	1.29	23.2	0.00	-915646656
10:54:09	176.547	0	0.0	1044.3	0.53	23.1	0.00	-22762
10:54:29	176.880	0	12.9	1047.3	3.00	35.9	0.01	-79329
10:54:49	177.213	0	11.6	1051.4	2.61	34.6	0.00	-73576
10:55:09	177.546	0	12.1	1055.5	3.44	35.2	0.01	-77435
10:55:29	177.879	0	12.0	1059.5	3.75	35.2	0.01	-79460
10:55:49	178.212	0	12.3	1063.6	3.58	35.5	0.01	-80125
10:56:09	178.545	0	12.3	1067.7	3.46	35.5	0.01	-79887
10:56:29	178.878	0	12.3	1071.8	3.55	35.5	0.01	-80073
10:56:49	179.211	0	12.3	1075.8	3.55	35.5	0.01	-80025
10:57:09	179.544	0	12.2	1079.9	3.51	35.4	0.01	-79336
10:57:29	179.877	0	12.3	1084.0	3.50	35.5	0.01	-80261
10:57:49	180.210	0	12.0	1088.0	3.52	35.2	0.01	-79833
10:58:09	180.543	0	12.3	1092.1	3.39	35.5	0.01	-79273
10:58:29	180.876	5175	12.3	1096.2	3.52	35.5	1.35	6957
10:58:49	181.209	5177	12.3	1100.2	3.48	35.5	1.35	6960
10:59:09	181.542	5180	12.3	1104.3	3.52	35.6	1.35	6962
10:59:29	181.875	5168	12.3	1108.4	3.65	35.5	1.35	6950
10:59:49	182.208	5149	12.3	1112.5	3.57	35.5	1.34	6927
11:00:09	182.541	5127	12.3	1116.6	3.52	35.5	1.34	6902
11:00:29	182.874	5101	12.3	1120.6	3.61	35.5	1.34	6874
11:00:49	183.207	5089	12.3	1124.7	3.70	35.5	1.34	6853
11:01:09	183.540	5084	12.1	1128.8	3.43	35.4	1.34	6848
11:01:29	183.873	5079	12.2	1132.9	3.55	35.4	1.28	6841
11:01:49	184.206	5079	12.3	1137.0	3.59	35.5	1.30	6840
11:02:09	184.539	5074	12.3	1141.0	3.57	35.4	1.30	6835
11:02:29	184.872	5067	12.3	1145.1	3.57	35.5	1.28	6827
11:02:49	185.205	5063	12.3	1149.2	3.66	35.5	1.29	6824
11:03:09	185.538	5062	12.3	1153.3	3.57	35.5	1.28	6826
11:03:29	185.871	5059	12.3	1157.4	3.59	35.4	1.25	6821
11:03:49	186.204	5057	12.0	1161.4	3.61	35.2	1.30	6817
11:04:09	186.537	5054	12.1	1165.5	3.72	35.3	1.29	6815
11:04:29	186.870	5051	12.3	1169.5	3.59	35.4	1.30	6815
11:04:49	187.203	5046	12.3	1173.6	3.66	35.4	1.34	6807
11:05:09	187.536	5043	12.3	1177.7	3.68	35.4	1.31	6804
11:05:29	187.869	5039	12.3	1181.8	3.66	35.3	1.28	6800
11:05:49	188.202	5037	12.3	1185.9	3.72	35.3	1.31	6799
11:06:09	188.535	5033	12.1	1189.9	3.68	35.1	1.36	6796
11:06:29	188.868	5030	12.3	1194.0	3.68	35.3	1.27	6796
11:06:49	189.201	5027	12.3	1198.1	3.62	35.3	1.31	6791
11:07:09	189.534	5023	12.3	1202.1	3.70	35.3	1.32	6786
11:07:29	189.867	5017	12.1	1206.2	3.59	35.0	1.31	6782
11:07:49	190.200	5015	12.5	1210.3	3.70	35.4	1.31	6775
11:08:08	190.533	5016	12.3	1214.4	3.73	35.2	1.33	6777
11:08:28	190.866	5014	12.0	1218.5	3.63	35.0	1.31	6780
11:08:48	191.199	5015	12.0	1222.5	3.70	35.0	1.32	6781
11:09:08	191.532	5015	12.3	1226.6	3.66	35.5	1.32	6780
11:09:28	191.865	5017	12.3	1230.7	3.70	35.4	1.34	6782
11:09:48	192.198	5022	12.3	1234.7	3.82	35.5	1.32	6786
11:10:08	192.531	5025	12.1	1238.8	3.75	35.3	1.35	6791
11:10:28	192.864	5027	12.3	1242.9	3.66	35.4	1.37	6792
11:10:48	193.197	5027	12.3	1247.0	3.73	35.4	1.35	6794
11:11:08	193.530	5025	12.3	1251.0	3.79	35.4	1.36	6794
11:11:28	193.863	5026	12.3	1255.1	3.73	35.4	1.35	6794
11:11:48	194.196	5027	12.3	1259.2	3.76	35.4	1.34	6793
11:12:08	194.529	5027	12.3	1263.3	3.79	35.4	1.33	6794
11:12:28	194.862	5029	12.3	1267.4	3.73	35.4	1.39	6797



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

11:12:48	195.195	5028	12.0	1271.4	3.82	35.2	1.33	6797
11:13:08	195.528	5027	12.3	1275.5	3.84	35.4	1.38	6795
11:13:28	195.861	5029	12.3	1279.6	3.74	35.4	1.38	6796
11:13:48	196.194	5029	12.0	1283.6	3.79	35.2	1.34	6799
11:14:08	196.527	5027	12.3	1287.7	3.73	35.5	1.36	6793
11:14:28	196.860	5027	12.3	1291.8	3.46	35.5	1.34	6794
11:14:48	197.193	5024	12.2	1295.9	3.55	35.4	1.36	6793
11:15:08	197.526	5021	12.3	1299.9	3.56	35.4	1.39	6787
11:15:28	197.859	5017	12.3	1304.0	3.49	35.4	1.37	6782
11:15:48	198.192	5019	12.3	1308.1	3.61	35.4	1.35	6781
11:16:08	198.525	5019	12.3	1312.2	3.61	35.4	1.37	6781
11:16:28	198.858	5015	12.3	1316.3	3.59	35.4	1.38	6778
11:16:48	199.191	5015	12.3	1320.3	3.61	35.4	1.36	6775
11:17:08	199.524	5013	12.4	1324.4	3.58	35.5	1.37	6774
11:17:28	199.857	5011	12.3	1328.5	3.68	35.4	1.38	6770
11:17:48	200.190	5012	12.3	1332.6	3.52	35.4	1.36	6771
11:18:08	200.523	5013	12.3	1336.6	3.66	35.4	1.39	6771
11:18:28	200.856	5015	12.3	1340.7	3.68	35.4	1.40	6773
11:18:48	201.189	5016	12.3	1344.8	3.63	35.4	1.37	6775
11:19:08	201.522	5016	12.3	1348.9	3.61	35.3	1.39	6776
11:19:28	201.855	5016	12.3	1352.9	3.63	35.4	1.36	6779
11:19:48	202.188	5020	12.3	1357.0	3.62	35.4	1.28	6778
11:20:08	202.521	5021	12.0	1361.1	3.63	35.1	1.30	6783
11:20:28	202.854	5023	12.3	1365.1	3.61	35.3	1.32	6783
11:20:48	203.187	5025	12.3	1369.2	3.66	35.3	1.29	6786
11:21:08	203.520	5026	12.3	1373.3	3.59	35.4	1.33	6787
11:21:28	203.853	5029	12.3	1377.4	3.61	35.3	1.33	6791
11:21:48	204.186	5033	12.1	1381.4	3.53	35.1	1.33	6799
11:22:08	204.519	5032	12.3	1385.5	3.57	35.3	1.33	6797
11:22:28	204.852	5033	12.3	1389.6	3.68	35.3	1.33	6798
11:22:48	205.185	5036	12.3	1393.7	3.59	35.3	1.35	6800
11:23:08	205.518	5038	12.3	1397.8	3.63	35.3	1.30	6802
11:23:28	205.851	5041	12.3	1401.8	3.59	35.3	1.35	6808
11:23:48	206.184	5043	12.0	1405.8	3.61	35.1	1.35	6810
11:24:08	206.517	5045	12.0	1409.9	3.55	35.1	1.32	6810
11:24:27	206.850	5045	12.3	1414.0	3.63	35.3	1.33	6809
11:24:47	207.183	5047	12.3	1418.0	3.59	35.3	1.33	6814
11:25:07	207.516	5048	12.3	1422.1	3.61	35.4	1.34	6813
11:25:27	207.849	5052	12.3	1426.2	3.63	35.4	1.33	6817
11:25:47	208.182	5051	12.3	1430.2	3.59	35.4	1.34	6817
11:26:07	208.515	5052	12.3	1434.3	3.57	35.3	1.34	6819
11:26:27	208.848	5051	12.3	1438.4	3.68	35.3	1.33	6819
11:26:47	209.181	5052	12.3	1442.5	3.59	35.3	1.33	6819
11:27:07	209.514	5055	12.3	1446.6	3.68	35.3	1.29	6822
11:27:27	209.847	5054	12.3	1450.7	3.63	35.3	1.32	6823
11:27:47	210.180	5056	12.3	1454.7	3.73	35.3	1.36	6826
11:28:07	210.513	5061	12.3	1458.8	3.66	35.3	1.31	6831
11:28:27	210.846	5061	12.3	1462.9	3.63	35.3	1.34	6831
11:28:47	211.179	5063	12.2	1467.0	3.57	35.3	1.33	6836
11:29:07	211.512	5065	12.0	1471.0	3.62	35.1	1.32	6839
11:29:27	211.845	5067	12.5	1475.1	3.61	35.5	1.30	6838
11:29:47	212.178	5065	12.0	1479.1	3.66	35.0	1.34	6837
11:30:07	212.511	5064	12.3	1483.2	3.68	35.3	1.29	6836
11:30:27	212.844	5065	12.3	1487.3	3.75	35.4	1.34	6835
11:30:47	213.177	5068	12.3	1491.4	3.68	35.3	1.32	6841
11:31:07	213.510	5101	13.8	1495.7	3.68	36.5	1.32	6856
11:31:27	213.843	5056	12.9	1500.0	5.06	34.7	1.33	6843
11:31:47	214.176	5052	13.4	1504.5	6.13	35.0	1.34	6844
11:32:07	214.509	5057	13.1	1508.9	6.59	34.8	1.33	6868
11:32:27	214.842	5070	13.8	1513.4	6.67	35.4	1.37	6892
11:32:47	215.175	5068	13.8	1518.0	6.74	35.4	1.35	6912
11:33:07	215.508	5064	13.7	1522.5	6.76	35.3	1.36	6930
11:33:27	215.841	5054	13.8	1527.1	6.65	35.4	1.39	6937
11:33:47	216.174	5047	13.8	1531.7	6.75	35.5	1.35	6946
11:34:07	216.507	5034	13.8	1536.3	6.77	35.4	1.35	6955
11:34:27	216.840	5025	13.8	1540.8	6.66	35.4	1.34	6963
11:34:47	217.173	5013	13.8	1545.4	6.61	35.4	1.36	6969
11:35:07	217.506	5000	13.8	1550.0	6.67	35.4	1.35	6971
11:35:27	217.839	4989	13.8	1554.6	6.86	35.4	1.37	6979
11:35:47	218.172	4979	13.8	1559.1	6.85	35.3	1.40	6987



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

11:36:07	218.505	4970	13.8	1563.7	5.98	35.3	1.38	6995
11:36:27	218.838	4961	13.8	1568.3	6.44	35.3	1.49	6997
11:36:47	219.171	4956	13.7	1572.9	6.44	35.3	1.95	7004
11:37:07	219.504	4954	13.8	1577.4	6.62	35.4	2.37	7002
11:37:27	219.837	4949	13.8	1582.0	6.77	35.3	2.50	7001
11:37:47	220.170	4949	13.8	1586.6	6.54	35.4	2.58	7000
11:38:07	220.503	4946	13.6	1591.2	6.54	35.1	2.61	6999
11:38:27	220.836	4947	13.8	1595.8	6.70	35.3	2.59	6999
11:38:47	221.169	4946	13.8	1600.3	6.83	35.3	2.59	6998
11:39:07	221.502	4946	13.8	1604.9	6.67	35.3	2.63	7003
11:39:27	221.835	4951	14.0	1609.5	6.70	35.5	2.63	7002
11:39:47	222.168	4951	13.8	1614.1	6.70	35.3	2.59	7003
11:40:07	222.501	4951	13.8	1618.7	6.70	35.3	2.58	7007
11:40:27	222.834	4956	13.6	1623.2	6.57	35.1	2.61	7011
11:40:46	223.167	4954	13.6	1627.8	6.54	35.1	2.68	7011
11:41:06	223.500	4954	13.8	1632.4	6.64	35.3	2.66	7009
11:41:26	223.833	4955	13.6	1637.0	6.67	35.1	2.37	7007
11:41:46	224.166	4954	13.6	1641.6	6.54	35.1	2.53	7014
11:42:06	224.499	4959	13.8	1646.1	6.74	35.3	2.53	7016
11:42:26	224.832	4958	13.8	1650.7	6.70	35.3	2.60	7016
11:42:46	225.165	4957	13.8	1655.3	6.58	35.3	2.63	7015
11:43:06	225.498	4957	13.8	1659.9	6.61	35.2	2.57	7016
11:43:26	225.831	4960	13.8	1664.5	6.70	35.2	2.56	7020
11:43:46	226.163	4960	13.6	1669.1	6.70	35.0	2.62	7024
11:44:06	226.496	4964	13.6	1673.6	6.61	35.0	2.67	7023
11:44:26	226.829	4964	14.0	1678.2	6.74	35.5	2.63	7025
11:44:46	227.162	4967	13.9	1682.8	6.65	35.3	2.63	7027
11:45:06	227.495	4970	13.8	1687.4	6.75	35.2	2.64	7033
11:45:26	227.828	4970	13.8	1692.0	6.64	35.2	2.63	7036
11:45:46	228.161	4971	13.6	1696.5	6.80	35.0	2.59	7036
11:46:06	228.494	4970	13.8	1701.1	6.87	35.3	2.57	7034
11:46:26	228.827	4970	13.8	1705.7	6.72	35.2	2.61	7035
11:46:46	229.160	4969	13.8	1710.3	6.87	35.2	2.61	7034
11:47:06	229.493	4969	13.6	1714.9	6.87	35.0	2.59	7039
11:47:26	229.826	4969	13.8	1719.4	6.74	35.2	2.63	7035
11:47:46	230.159	4967	13.6	1724.0	6.74	35.0	2.61	7035
11:48:06	230.492	4971	13.6	1728.6	6.84	35.0	2.62	7041
11:48:26	230.825	4972	13.7	1733.2	6.90	35.1	2.61	7042
11:48:46	231.158	4974	13.6	1737.7	6.70	35.0	2.63	7046
11:49:06	231.491	4973	13.8	1742.3	6.70	35.2	2.62	7040
11:49:26	231.824	4976	13.8	1746.9	6.97	35.2	2.58	7049
11:49:46	232.157	4979	13.7	1751.5	6.18	35.1	2.64	7055
11:50:06	232.490	4981	13.8	1756.1	6.61	35.2	2.62	7052
11:50:26	232.823	4982	13.8	1760.7	6.59	35.2	2.64	7054
11:50:46	233.156	4983	13.9	1765.3	6.62	35.3	2.60	7056
11:51:06	233.489	4984	13.6	1769.8	6.70	35.0	2.66	7059
11:51:26	233.822	4985	13.9	1774.4	6.53	35.4	2.69	7054
11:51:46	234.155	4983	13.8	1779.0	6.74	35.2	2.65	7055
11:52:06	234.488	4985	13.8	1783.6	6.67	35.2	2.69	7056
11:52:26	234.821	4985	13.6	1788.2	6.57	35.0	2.66	7056
11:52:46	235.154	4990	13.6	1792.8	6.71	35.0	2.65	7063
11:53:06	235.487	4991	13.8	1797.3	6.84	35.2	2.63	7061
11:53:26	235.820	4989	13.8	1802.0	6.70	35.2	2.65	7062
11:53:46	236.153	4992	13.6	1806.5	6.66	35.0	2.70	7068
11:54:06	236.486	4992	13.8	1811.1	6.80	35.2	2.62	7065
11:54:26	236.819	4993	13.8	1815.7	6.84	35.1	2.66	7066
11:54:46	237.152	4996	13.8	1820.3	6.64	35.1	2.72	7069
11:55:06	237.485	5000	13.8	1824.8	6.77	35.2	2.38	7074
11:55:26	237.818	5001	13.8	1829.4	6.97	35.1	2.58	7077
11:55:46	238.151	5001	13.8	1834.0	6.84	35.1	2.60	7081
11:56:06	238.484	4993	13.8	1838.6	6.77	35.0	2.58	7075
11:56:26	238.817	4982	13.8	1843.2	6.90	35.0	2.66	7061
11:56:46	239.150	4972	13.6	1847.8	6.84	34.7	2.59	7054
11:57:05	239.483	4961	13.8	1852.3	6.87	35.0	2.64	7037
11:57:25	239.816	4962	13.8	1856.9	6.71	35.0	2.63	7037
11:57:45	240.149	4961	13.8	1861.5	6.70	35.0	2.59	7039
11:58:05	240.482	4966	14.0	1866.1	6.97	35.3	2.63	7039
11:58:25	240.815	4968	13.8	1870.6	6.77	35.1	2.64	7047
11:58:45	241.148	4972	13.8	1875.2	6.87	35.1	2.65	7053
11:59:05	241.481	4974	13.8	1879.8	7.03	35.0	2.59	7056



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

11:59:25	241.814	4979	13.8	1884.4	7.01	35.1	2.62	7062
11:59:45	242.147	4980	13.8	1889.0	6.94	35.1	2.65	7064
12:00:05	242.480	4980	13.6	1893.6	6.91	34.9	2.62	7066
12:00:25	242.813	4981	13.8	1898.2	6.97	35.1	2.69	7070
12:00:45	243.146	4981	14.0	1902.7	6.87	35.3	2.72	7067
12:01:05	243.479	4982	13.8	1907.3	7.08	35.1	2.67	7069
12:01:25	243.812	4984	13.8	1911.9	7.01	35.1	2.67	7072
12:01:45	244.145	4988	13.8	1916.4	7.07	35.1	2.72	7076
12:02:05	244.478	4988	13.8	1921.0	7.03	35.1	2.71	7077
12:02:25	244.811	4988	13.8	1925.6	7.01	35.1	2.72	7077
12:02:45	245.144	4989	13.8	1930.2	7.06	35.2	2.68	7078
12:03:05	245.477	4992	13.8	1934.8	7.07	35.2	2.66	7083
12:03:25	245.810	4993	13.8	1939.4	7.01	35.2	2.75	7084
12:03:45	246.143	4994	13.9	1944.0	7.07	35.3	2.68	7083
12:04:05	246.476	4995	13.7	1948.6	7.02	35.1	2.71	7089
12:04:25	246.809	4997	13.6	1953.1	7.11	35.0	2.72	7090
12:04:45	247.142	5000	13.8	1957.7	7.11	35.2	2.73	7093
12:05:05	247.475	5001	13.8	1962.3	7.18	35.2	2.70	7094
12:05:25	247.808	5003	13.6	1966.9	7.14	35.0	2.73	7098
12:05:45	248.141	5006	13.8	1971.4	7.07	35.2	2.73	7101
12:06:05	248.474	5005	13.8	1976.0	7.28	35.3	2.70	7099
12:06:25	248.807	5008	13.6	1980.6	7.25	35.0	2.76	7106
12:06:45	249.140	5012	13.8	1985.2	7.12	35.3	2.74	7105
12:07:05	249.473	5020	13.7	1989.7	7.11	35.1	2.77	7119
12:07:25	249.806	5023	13.8	1994.3	6.28	35.3	2.73	7118
12:07:45	250.139	5026	13.6	1998.9	6.60	35.1	2.75	7124
12:08:05	250.472	5033	13.6	2003.5	6.62	35.2	2.76	7130
12:08:25	250.805	5038	13.8	2008.0	6.74	35.3	2.77	7130
12:08:45	251.138	5039	13.6	2012.6	6.71	35.1	2.73	7133
12:09:05	251.471	5041	13.8	2017.2	6.80	35.4	2.76	7132
12:09:25	251.804	5043	13.8	2021.8	6.80	35.3	2.74	7132
12:09:45	252.137	5044	13.8	2026.4	6.65	35.3	2.78	7132
12:10:05	252.470	5047	13.6	2030.9	6.64	35.1	2.78	7135
12:10:25	252.803	5045	13.8	2035.5	6.73	35.3	2.80	7131
12:10:45	253.136	5047	13.6	2040.0	6.66	35.1	2.78	7133
12:11:05	253.469	5049	13.8	2044.6	6.54	35.3	2.76	7131
12:11:25	253.802	5049	13.8	2049.2	6.44	35.3	2.80	7129
12:11:45	254.135	5052	13.8	2053.8	4.97	35.4	2.79	7131
12:12:05	254.468	5056	13.8	2058.4	5.33	35.4	2.81	7127
12:12:25	254.801	5061	14.0	2063.0	5.33	35.6	2.78	7122
12:12:45	255.134	5065	13.8	2067.5	5.70	35.4	2.68	7127
12:13:05	255.467	5071	13.8	2072.1	5.47	35.4	2.58	7129
12:13:24	255.800	5073	13.6	2076.7	5.53	35.2	2.63	7128
12:13:44	256.133	5079	13.8	2081.3	5.44	35.4	2.63	7127
12:14:04	256.466	5081	13.8	2085.9	5.41	35.4	2.65	7128
12:14:24	256.799	5084	13.8	2090.4	5.38	35.4	2.65	7127
12:14:44	257.132	5087	13.6	2095.0	5.57	35.2	2.67	7129
12:15:04	257.465	5088	13.8	2099.6	5.51	35.4	2.61	7123
12:15:24	257.798	5089	13.8	2104.2	5.51	35.4	2.60	7120
12:15:44	258.131	5089	13.8	2108.8	5.52	35.4	2.65	7117
12:16:04	258.464	5090	13.8	2113.3	5.71	35.4	2.60	7116
12:16:24	258.797	5093	13.6	2117.9	5.60	35.2	2.60	7116
12:16:44	259.130	5091	13.8	2122.5	5.65	35.4	2.55	7109
12:17:04	259.463	5089	13.8	2127.0	5.75	35.4	2.05	7107
12:17:24	259.796	5093	13.6	2131.6	5.93	35.2	2.12	7112
12:17:44	260.129	5098	13.6	2136.1	5.75	35.2	2.18	7123
12:18:04	260.462	5095	13.7	2140.7	5.83	35.4	2.24	7116
12:18:24	260.795	5099	13.6	2145.3	5.94	35.2	2.22	7123
12:18:44	261.128	5103	13.6	2149.8	5.99	35.2	2.22	7129
12:19:04	261.461	5103	13.8	2154.4	6.07	35.4	2.19	7131
12:19:24	261.794	5105	13.6	2159.0	6.13	35.1	2.20	7136
12:19:44	262.127	5105	13.6	2163.6	5.94	35.1	2.19	7141
12:20:04	262.460	5103	13.8	2168.2	6.02	35.4	2.21	7137
12:20:24	262.793	5108	13.6	2172.7	6.02	35.1	2.22	7144
12:20:44	263.126	5115	14.8	2177.3	6.09	36.3	2.23	7146
12:21:04	263.459	5121	14.8	2182.2	6.37	35.6	2.22	7165
12:21:24	263.792	5105	14.9	2187.1	8.13	35.3	2.26	7157
12:21:44	264.125	5101	14.7	2192.1	8.77	35.1	2.24	7168
12:22:04	264.458	5106	14.9	2197.0	8.98	35.3	2.27	7190
12:22:24	264.791	5102	14.7	2201.9	8.94	35.1	2.31	7209



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

12:22:44	265.124	5100	15.1	2206.9	9.37	35.6	2.38	7221
12:23:04	265.457	5105	14.9	2211.8	9.24	35.4	2.29	7244
12:23:24	265.790	5101	14.9	2216.7	9.42	35.4	2.33	7260
12:23:44	266.123	5098	14.7	2221.6	9.60	35.1	2.38	7278
12:24:04	266.456	5093	14.9	2226.6	9.74	35.4	2.40	7288
12:24:24	266.789	5089	14.7	2231.5	10.65	35.1	2.42	7302
12:24:44	267.122	5081	14.9	2236.4	9.92	35.4	2.46	7313
12:25:04	267.455	5071	15.1	2241.4	10.01	35.5	2.39	7323
12:25:24	267.788	5068	14.7	2246.3	10.35	35.1	2.42	7338
12:25:44	268.121	5084	16.2	2251.4	10.16	36.7	2.41	7358
12:26:04	268.454	5069	15.4	2256.6	12.36	35.5	2.48	7380
12:26:24	268.787	5061	16.2	2262.0	13.24	35.6	2.64	7395
12:26:44	269.120	5035	16.0	2267.3	13.29	35.4	3.34	7398
12:27:04	269.453	5027	15.8	2272.6	13.54	35.2	3.61	7403
12:27:24	269.786	5029	16.0	2277.9	13.94	35.4	3.68	7429
12:27:44	270.119	5027	16.0	2283.2	14.15	35.4	3.65	7447
12:28:04	270.452	5025	16.0	2288.5	13.98	35.4	3.83	7468
12:28:24	270.784	5017	15.8	2293.8	14.20	35.2	3.77	7476
12:28:44	271.117	5015	15.5	2299.0	14.43	34.9	3.86	7501
12:29:04	271.451	5000	15.8	2304.3	14.56	35.1	3.88	7503
12:29:24	271.783	4987	16.0	2309.6	15.03	35.2	3.97	7508
12:29:43	272.116	4962	15.8	2314.9	12.29	35.0	4.24	7503
12:30:03	272.449	4941	15.5	2320.1	7.93	34.8	4.02	7491
12:30:23	272.782	4917	15.5	2325.3	2.81	34.7	4.02	7464
12:30:43	273.115	4905	15.3	2330.5	0.79	34.5	4.16	7423
12:31:03	273.448	4974	15.8	2335.7	0.63	39.0	4.40	7390
12:31:23	273.781	5052	13.1	2340.6	0.55	37.1	5.26	7472
12:31:43	274.114	4943	10.5	2344.3	0.55	34.2	5.38	7329
12:32:03	274.447	4924	10.5	2347.7	0.55	34.3	5.44	7219
12:32:23	274.780	4993	10.2	2351.2	0.57	34.3	5.46	7210
12:32:43	275.113	5073	10.3	2354.6	0.50	34.6	5.53	7231
12:33:03	275.446	5146	10.1	2358.0	0.59	34.4	5.67	7250
12:33:23	275.779	5196	10.1	2361.4	0.53	34.5	5.50	7239
12:33:43	276.112	5232	10.3	2364.8	0.59	34.6	5.64	7207
12:34:03	276.445	5256	10.5	2368.2	0.00	34.8	5.72	7164
12:34:23	276.778	5272	9.9	2371.6	0.00	34.1	5.80	7114
12:34:43	277.111	5292	10.2	2374.9	0.00	34.3	5.91	7061
12:35:03	277.444	5146	10.3	2378.4	0.00	14.2	5.46	7083
12:35:23	277.777	4866	10.3	2381.8	0.00	10.3	4.61	6628
12:35:43	278.110	4769	3.8	2385.1	0.00	3.8	4.08	6577
12:36:03	278.443	4601	0.0	2385.1	0.00	0.0	3.63	6411
12:36:23	278.776	4573	0.0	2385.1	0.00	0.0	3.43	6370
12:36:43	279.109	4559	0.0	2385.1	0.00	0.0	3.43	6353
12:37:03	279.442	4550	0.0	2385.1	0.00	0.0	3.43	6341
12:37:23	279.775	4545	0.0	2385.1	0.00	0.0	3.43	6333
12:37:43	280.108	4542	0.0	2385.1	0.00	0.0	3.43	6329
12:38:03	280.441	4541	0.0	2385.1	0.00	0.0	3.43	6328
12:38:23	280.774	4542	0.0	2385.1	0.00	0.0	3.43	6329
12:38:43	281.107	4543	0.0	2385.1	0.00	0.0	3.43	6330
12:39:03	281.440	4544	0.0	2385.1	0.00	0.0	3.43	6331
12:39:23	281.773	4545	0.0	2385.1	0.00	0.0	3.43	6333
12:39:43	282.106	4547	0.0	2385.1	0.00	0.0	3.43	6334
12:40:03	282.439	4548	0.0	2385.1	0.00	0.0	3.43	6336
12:40:23	282.772	4549	0.0	2385.1	0.00	0.0	3.43	6337
12:40:43	283.105	4550	0.0	2385.1	0.00	0.0	3.43	6338
12:41:03	283.438	4550	0.0	2385.1	0.00	0.0	3.43	6339
12:41:23	283.771	4551	0.0	2385.1	0.00	0.0	3.43	6339
12:41:43	284.104	4551	0.0	2385.1	0.00	0.0	3.43	6340
12:42:03	284.437	4551	0.0	2385.1	0.00	0.0	3.43	6340
12:42:23	284.770	4551	0.0	2385.1	0.00	0.0	3.43	6340
12:42:43	285.103	4551	0.0	2385.1	0.00	0.0	3.43	6340
12:43:03	285.436	4551	0.0	2385.1	0.00	0.0	3.43	6340
12:43:23	285.769	4550	0.0	2385.1	0.00	0.0	3.43	6339
12:43:43	286.102	4550	0.0	2385.1	0.00	0.0	3.43	6339
12:44:03	286.435	4550	0.0	2385.1	0.00	0.0	3.43	6339
12:44:23	286.768	4550	0.0	2385.1	0.00	0.0	3.43	6339
12:44:43	287.101	4549	0.0	2385.1	0.00	0.0	3.43	6338
12:45:03	287.434	4549	0.0	2385.1	0.00	0.0	3.43	6338
12:45:23	287.767	4548	0.0	2385.1	0.00	0.0	3.43	6337
12:45:43	288.100	4548	0.0	2385.1	0.00	0.0	3.43	6336



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

12:46:02	288.433	4547	0.0	2385.1	0.00	0.0	3.43	6335
12:46:22	288.766	4547	0.0	2385.1	0.00	0.0	3.43	6335
12:46:42	289.099	4546	0.0	2385.1	0.00	0.0	3.43	6334
12:47:02	289.432	4545	0.0	2385.1	0.00	0.0	3.43	6333
12:47:22	289.765	4545	0.0	2385.1	0.00	0.0	3.43	6332
12:47:42	290.098	4544	0.0	2385.1	0.00	0.0	3.43	6331
12:48:02	290.431	4543	0.0	2385.1	0.00	0.0	3.43	6331
12:48:22	290.764	4543	0.0	2385.1	0.00	0.0	3.43	6330
12:48:42	291.097	4542	0.0	2385.1	0.00	0.0	3.43	6329
12:49:02	291.430	4542	0.0	2385.1	0.00	0.0	3.43	6328
12:49:22	291.763	4541	0.0	2385.1	0.00	0.0	3.43	6328
12:49:42	292.096	4541	0.0	2385.1	0.00	0.0	3.42	6328
12:50:02	292.429	4540	0.0	2385.1	0.00	0.0	3.42	6327
12:50:22	292.762	4540	0.0	2385.1	0.00	0.0	3.42	6326
12:50:42	293.095	4539	0.0	2385.1	0.00	0.0	3.42	6326
12:51:02	293.428	4539	0.0	2385.1	0.00	0.0	3.42	6325
12:51:22	293.761	4538	0.0	2385.1	0.00	0.0	3.42	6325
12:51:42	294.094	4538	0.0	2385.1	0.00	0.0	3.42	6324
12:52:02	294.427	4538	0.0	2385.1	0.00	0.0	3.42	6324
12:52:22	294.760	4537	0.0	2385.1	0.00	0.0	3.42	6323
12:52:42	295.093	4537	0.0	2385.1	0.00	0.0	3.42	6323
12:53:02	295.426	4536	0.0	2385.1	0.00	0.0	3.42	6322
12:53:22	295.759	4535	0.0	2385.1	0.00	0.0	3.42	6321
12:53:42	296.092	4535	0.0	2385.1	0.00	0.0	3.42	6320
12:54:02	296.425	4534	0.0	2385.1	0.00	0.0	3.42	6319
12:54:22	296.758	4533	0.0	2385.1	0.00	0.0	3.42	6318
12:54:42	297.091	4532	0.0	2385.1	0.00	0.0	3.42	6317
12:55:02	297.424	4531	0.0	2385.1	0.00	0.0	3.42	6315
12:55:22	297.757	4530	0.0	2385.1	0.00	0.0	3.42	6314
12:55:42	298.090	4529	0.0	2385.1	0.00	0.0	3.42	6313
12:56:02	298.423	4528	0.0	2385.1	0.00	0.0	3.42	6312
12:56:22	298.756	4527	0.0	2385.1	0.00	0.0	3.42	6311
12:56:42	299.089	4526	0.0	2385.1	0.00	0.0	3.42	6310
12:57:02	299.422	4525	0.0	2385.1	0.00	0.0	3.42	6309
12:57:22	299.755	4525	0.0	2385.1	0.00	0.0	3.42	6308
12:57:42	300.088	4524	0.0	2385.1	0.00	0.0	3.42	6307
12:58:02	300.421	4523	0.0	2385.1	0.00	0.0	3.42	6306
12:58:22	300.754	4522	0.0	2385.1	0.00	0.0	3.42	6304
12:58:42	301.087	4521	0.0	2385.1	0.00	0.0	3.42	6304
12:59:02	301.420	4520	0.0	2385.1	0.00	0.0	3.42	6302
12:59:22	301.753	4519	0.0	2385.1	0.00	0.0	3.42	6301
12:59:42	302.086	4518	0.0	2385.1	0.00	0.0	3.42	6300
13:00:02	302.419	4517	0.0	2385.1	0.00	0.0	3.42	6298
13:00:22	302.752	4484	0.0	2385.1	0.00	0.0	3.42	6286
13:00:42	303.085	4496	0.0	2385.1	0.00	0.0	3.41	6271
13:01:02	303.418	4499	0.0	2385.1	0.00	0.0	3.41	6276
13:01:22	303.751	4501	0.0	2385.1	0.00	0.0	3.41	6278
13:01:42	304.084	4502	0.0	2385.1	0.00	0.0	3.41	6280
13:02:02	304.417	4503	0.0	2385.1	0.00	0.0	3.42	6281
13:02:21	304.750	4504	0.0	2385.1	0.00	0.0	3.42	6282
13:02:41	305.083	4505	0.0	2385.1	0.00	0.0	3.42	6283
13:03:01	305.416	4505	0.0	2385.1	0.00	0.0	3.42	6284
13:03:21	305.749	4503	0.0	2385.1	0.00	0.0	3.42	6284
13:03:41	306.082	4486	0.0	2385.1	0.00	0.0	3.10	6259
13:04:01	306.415	4472	0.0	2385.1	0.00	0.0	3.10	6254
13:04:21	306.748	4439	0.0	2385.1	0.00	0.0	3.09	6207
13:04:41	307.081	4416	0.0	2385.1	0.00	0.0	3.09	6178
13:05:01	307.414	4398	0.0	2385.1	0.00	0.0	3.08	6155
13:05:21	307.747	4385	0.0	2385.1	0.00	0.0	3.08	6138
13:05:41	308.080	4375	0.0	2385.1	0.00	0.0	2.82	6126
13:06:01	308.413	4368	0.0	2385.1	0.00	0.0	2.82	6117
13:06:21	308.746	4364	0.0	2385.1	0.00	0.0	2.82	6111
13:06:41	309.079	4362	0.0	2385.1	0.00	0.0	2.82	6108
13:07:01	309.412	4361	0.0	2385.1	0.00	0.0	2.82	6106
13:07:21	309.745	4360	0.0	2385.1	0.00	0.0	2.82	6106
13:07:41	310.078	4361	0.0	2385.1	0.00	0.0	2.82	6107
13:08:01	310.411	4362	0.0	2385.1	0.00	0.0	2.82	6108
13:08:21	310.744	4363	0.0	2385.1	0.00	0.0	2.82	6109
13:08:41	311.077	4363	0.0	2385.1	0.00	0.0	2.82	6110
13:09:01	311.410	4364	0.0	2385.1	0.00	0.0	2.82	6110



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

13:09:21	311.743	4363	0.0	2385.1	0.00	0.0	2.82	6109
----------	---------	------	-----	--------	------	-----	------	------



BJ Services: JTrax Version 1.20
Customer: Partara Oil & Gas
Service type: 20# Linear Foam Frac
Well: 1-13-44-15

DISCLAIMER NOTICE

BJ Services personnel will use good faith at all times in interpreting information, making recommendations, (either written, or oral) as to the type or amount of products, equipment or services to be furnished, the manner of performance, or in predicting results to be obtained. The recommendation and projections given are estimates based on calculations produced by a computer model including various assumptions regarding the well, reservoir and treatment. Due to the uncertainty of variable well conditions and the necessity of relying on facts and supporting services provided by the Customer and its other contractors, BJ Services hereby disclaims the accuracy of any chart interpretation, research, analysis, job recommendation or other data furnished by BJ Services. Such data shall include the attached report, any similar information provided electronically and any data generated through real-time monitoring. NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE PRODUCTS OR EQUIPMENT USED, RECOMMENDATIONS GIVEN OR SERVICES RENDERED. NO WARRANTIES, EXPRESS OR IMPLIED ARE MADE AND ALL SUCH WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED AND DISCLAIMED BY BJ SERVICES.

Engineering Chemical & Quality Control Checklist



Is the HHP dispatched enough for the job? Y

Are the N2 rates dispatched enough for the job? Y

Are the chemicals dispatched enough for the job? Y

Are the breakers correct for the well conditions? Y

Has the procedure been reviewed by the D.E.? Y

Has the water been tested prior to a X/L job? Y

Do you have the results of any breaker tests? Y

Has the sand been tested in the lab? Y

Do you have all the QC sheets for the customer? Y

Is a chemical truck required for on-the-fly? Y

Is the TMV required for the job?
Operator & Unit # Y
S Yazzie T166

Is the QC van required for the job?
Operator & Unit # Y
R Forland 5732

Who is the lead engineer on location? M Huskey

Signed by: M Huskey

Date: April 4, 2011

Time: 11:00 AM

***** THIS FORM IS REQUIRED IN ALL FINAL WELL FILES*****

Customer

Patara Oil & Gas LLC Field receipt #

1001783345

Post Frac Chemical Record



Company:	Patarra Oil & Gas LLC	Well Name:	HC Fed #1-13-44-15
Date:	04/03/11	Formation:	Honaker Trail
Treaters:	N Mitchell/B Gordon	FR#	1001783345
Engineers:	M Huskey	Hydration unit #	E945
		Hydration opr.	H Joe
Fluid Tech:	R Forland	Q.C. Van:	5732
Chem-add Opr:	M Garcia	Chem-add Unit:	L308
Blender Opr:	J Antonio	Blender Unit:	B277

Chemical	Dilution	Proposal Req.	Begin. Strap	Ending Strap	Tot. Amt. Used
GBW-5		9	35	20	15
ENZYME G-I		39	45	0	45
GW-3LDF		381	615	250	365
BF-7L		220	480	260	220
HP CRB		75	110	30	80
Magnacide 575		4	5	0	5
INFLO 250W		77	129	55	74
XLW-32		75	172	97	75
FAW-4		381	691	254	365
ES-4A		60	60	0	60

Total amount of chemicals used include amount required to load the chem-add unit and transfer losses

Job Comments:

in lieu of form 1460



PRODUCT VARIANCE CALCULATIONS

PAGE: 1 OF 1

DATE: 4/3/2011	CUSTOMER: Patara Oil & Gas LLC	FLUID TECH: R Forland
FIELD RECEIPT NO: 1001783345	LEASE NAME & WELL NO: HC Fed #1-13-44-15	CHEM-ADD OPERATOR: M Garcia

CHEMICALS											
1	2	3	4	5	6	7	8	9	10	11	12
PRODUCT	PROPOSED VOLUME	MEASURED VOLUMES			TOTAL USED	LOSSES	PUMPED DOWNHOLE	PLANNED VOLUME FOR FLUID PUMPED	FLOW METER MEASURED VOLUME	CALCULATED VARIANCE%	
		START	HOSES LOADED	END						PLANNED VS. DOWNHOLE	FLOW METER VS. DOWNHOLE
GBW-5	9	35	35	20	15	0	15	12.3	18.5	21.95%	-18.92%
ENZYME G-I	39	45	45	0	45	0	45	43.7	49.9	2.97%	-9.82%
GW-3LDF	381	615	615	250	365	0	365	368	355.5	-0.82%	2.67%
BF-7L	220	480	480	260	220	0	220	216.5	218.4	1.62%	0.73%
HP CRB	75	110	110	30	80	0	80	79.3	72.9	0.88%	9.74%
Magnacide 575	4	5	5	0	5	0	5	5	5	0.00%	0.00%
INFLO 250W	77	129	129	55	74	0	74	79.3	73.1	-6.68%	1.23%
XLW-32	75	172	172	97	75	0	75	79.3	73.1	-5.42%	2.60%
FAW-4	381	691	691	326	365	0	365	379	362.2	-3.69%	0.77%
ES-4A	60	60	60	0	60	0	60	60	60	0.00%	0.00%
0	0	0		0	0	0	0				
0	0	0		0	0	0	0				

PROPPANT (lbs)							
13	14	15	16	17	18	19	20
PROPPANT TYPE	S.G.	PRE-JOB AMOUNT ON LOCATION	POST-JOB AMOUNT IN SAND KING (est.)	SPILLAGE (est.on the ground)	PUMPED DOWNHOLE	DENSIOMETER TOTAL	VARIANCE %
20/40 White Sand	2.65	262,860	0	0	262,860	261,569	-0.49%

CLEAN VOLUME (bbls)						
21	22	23	24	25	26	27
BASE FLUID DESCRIPTION	BEGINNING VOLUME	AFTER LOADING	ENDING VOLUME	DOWNHOLE VOLUME	FLOW METER VOLUME	VARIANCE %
Water	2,760	2,750	669	2,081	2,080	-0.05%

SLURRY VOLUME (bbls)				
28	29	30	40	41
CLEAN VOLUME	PROPPANT VOLUME	TOTAL SLURRY	FLOW METER SLURRY VOLUME	VARIANCE %
2,081	262,860	2,364.2	2,385.0	0.88%

Comments:



Chemical Injection Testing Report

(Attachment to Treatment Report)

Page_1__of_1__

DATE:	April 3, 2011	FIELD RECEIPT NO:	1001783345
CUSTOMER:	Patara Oil & Gas LLC	LEASE NAME & WELL NO:	HC Fed #1-13-44-15

Units Tested # L308, B277,L390 Operators: M Garcia, J Antonio, H Joe

Additive	GBW-5	ENZYME G-I	GW-3LDF	BF-7L	HP CRB	INFLO 250W	XLW-32	FAW-4		
Loading	2	0.5	5	3	1	1	1	5	5	5
Clean Rate	10	10	10	10	10	10	24	10	10	10
Add. Inj Rate	0.840	0.210	2.100	1.260	0.420	0.420	1.008	2.100	2.100	2.100
Expected time for (1 gal) = 1/rate (sec)	71	286	29	48	143	143	60	29	29	29
Actual time for (1 gal) (sec)										11
% Deviance	100%	100%	100%	100%	100%	100%	100%	100%	100%	62%

TESTS VERIFIED BY: R Forland

BJ SERVICES
Additive Schedule

Operator: Patara Oil & Gas LLC
Well Name HC Fed #1-13-44-15

Date: 4/3/11
Formation: Honaker Trail

[illegible][illegible][illegible][illegible]

Additive Schedule

Date: 4/3/11
Formation: Honaker Trail

[illegible]

in lieu of form 1520

BJ SERVICES

Additive Schedule

Operator: Patara Oil & Gas LLC
Well Name HC Fed #1-13-44-15

Date: 4/3/11
Formation: Honaker Trail

Schedule		Additive: GW-3LD		Planned Additive Rates @ Given Rate							Volume Gone (gals)
Sand Conc (ppg)	Volume (gals)	Ratio (gpt)	Volume (gals)	10.5 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	
0	17551	5.00	87.76	2.21	2.10	2.10	2.10	2.10	2.10	2.10	87.76
1	14112	5.00	70.56	2.11	2.01	2.01	2.01	2.01	2.01	2.01	158.32
2	11499	5.00	57.50	2.02	1.92	1.92	1.92	1.92	1.92	1.92	215.81
3	1092	5.00	5.46	1.94	1.85	1.85	1.85	1.85	1.85	1.85	221.27
4	894	5.00	4.47	1.86	1.78	1.78	1.78	1.78	1.78	1.78	225.74
0	2003	5.00	10.02	2.21	2.10	2.10	2.10	2.10	2.10	2.10	235.76
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.76
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.76
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.76
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.76
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.76
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.76
0	0										

Schedule		Additive:		Planned Additive Rates @ Given Rate							Volume Gone (gals)
Sand Conc (ppg)	Volume (gals)	Ratio (gpt)	Volume (gals)	10.5 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	
0	17551										
1	14112										
2	11499										
3	1092										
4	894										
0	2003										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										

Schedule		Additive:		Planned Additive Rates @ Given Rate							Volume Gone (gals)
Sand Conc (ppg)	Volume (gals)	Ratio (gpt)	Volume (gals)	10.5 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	
0	17551										
1	14112										
2	11499										
3	1092										
4	894										
0	2003										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										

Schedule		Additive:		Planned Additive Rates @ Given Rate							Volume Gone (gals)
Sand Conc (ppg)	Volume (gals)	Ratio (gpt)	Volume (gals)	10.5 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	10 (BPM)	
0	17551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	14112										
2	11499										
3	1092										
4	894										
0	2003										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										
0	0										

in lieu of form1520



BATCH MIXED FRAC FLUID BLENDING SCHEDULE

(Attachment to Treatment Report)

Page: 1 of 1

DATE:	4/3/2011	CUSTOMER:	Patara Oil & Gas LLC
FIELD RECEIPT NO:	1001783345	FLUID SOURCE:	
LEASE NAME & WELL NO:	HC Fed #1-13-44-15	NOTES:	

Note: Use additional copies of this report for more tanks or compartments.

Tank/Transport Identification		No. 21	No. 514	No. 311	No. 101	No. 840	No.	No.	Totals	
Initial/Final Gauge (bbls)		760 / 13	500 / 13	500 / 120	500 / 120	500 / 430	/	/	2760 / 696	
Total Used (bbls)		747	487	380	380	70			2064	
Product System Trade Name										
Product System Trade Name & Batch/Lot No. (taken directly from drum/bag label)		Amount To Be Mixed	Amount To Be Mixed	Amount To Be Mixed	Amount To Be Mixed	Amount To Be Mixed	Amount To Be Mixed	Amount To Be Mixed	Total To Be Mixed	Actual Mixed
Base Fluid (gal)		31,920	21,000	21,000	21,000	21,000			115,920	
1)	gpt / ppt									
2)	gpt / ppt									
3)	gpt / ppt									
4)	gpt / ppt									
5)	gpt / ppt									
6)	gpt / ppt									
7)	gpt / ppt									
8)	gpt / ppt									
9)	gpt / ppt									
10)	gpt / ppt									

Mixed By: _____

Prepared By: R Forland



WATER BASED FRAC FLUID QUALITY CONTROL

(Attachment to Treatment Report)

Page 1 of 1

DATE:	4/3/2011	FIELD RECEIPT NO: 1001783345
CUSTOMER:	Patara Oil & Gas LLC	LEASE NAME & WELL NO: HC Fed #1-13-44-15

Tanks	Note: Use additional copies of this report for testing additional material lots or tanks.	This job will be:	Gelled on-the-fly	Batch Mixed
Tank/Transport No.	5			

Water Quality	Date filled:	Date water sampled:	Source of water:	City	Well	Pond	Other
Clarity, color, odor	CLR						
Sample Temperature, (F)	70						
Specific gravity	1.04						
Initial pH	7.9						
Iron (Fe++/Fe+++) ppm	0						
Reducing Agent (Yes or No)	no						
Bicarbonate, ppm	250						
Chloride, ppm	32490						
Sulfates, ppm	420						
Total Hardness, mg/L	1950						
Bacteria	\		Date Biocide Added:	Biocide added before H ₂ O?		Yes	No
Aerobic: No. per ml/time	/	/	/	/	/	/	/
Anaerobic: No. per ml/time	/	/	/	/	/	/	/

Base Gel Quality	Field Pilot Test	Batch Mixed Gel Quality Test	Use additional copies of this form for each series of tests @ 24 hr. intervals & prior to pumping.				
Name of product system mixed	Lighting						
Gellant loading (lbs/1000 gal.)	20						
Fluid sampling location	cmg						
Sampling time	pm						
Sample Temperature, (F)	75						
pH	6.77						
Fann reading	14.8						
@ 300 rpm							
X-Link Vortex Closure, min:sec	9*						
X-Link Crown, min:sec	14						
X-Link pH	9.63						
Sample location	van						

Frac Fluid Quality (These measurements are made as the job is pumped)

Stage														
Viscosity (cp)														
pH														
XL time @ blender, sec.														
Sample Temperature														
Time fluid pumped														

This test data is considered to be a minimum standard. Additional testing or documentation may be required by the customer or for frac quality assurance. Data recorded electronically with Engineering approved monitoring devices may be substituted for applicable portions of this form. This testing data is considered to be the minimum needed for the well file.

BREAKER TEST REPORT

(Attachment to Treatment Report)

Page: 1 of 1

[illegible]



QUALITY CONTROL OF PROPPANT/GRAVEL/100 MESH SAND

(Attachment to Treatment Report)

Page 1 of 1

DATE:	4/3/2011	CUSTOMER:	Patara Oil & Gas LLC
FIELD RECEIPT NO:	1001783345	UNIT/COMPARTMENT:	
LEASE NAME & WELL NO:	HC Fed #1-13-44-15	DISTRICT PROPPANT SILO:	
VENDOR:			

Proppant placed in the district proppant silos shall be tested at a minimum interval of every 250,000 pounds.

Proppant	Gravel	100 mesh sand
If proppant, select type <input type="checkbox"/> Brady <input type="checkbox"/> Ottawa <input type="checkbox"/> Resin coated sand		If gravel, select type <input type="checkbox"/> Ottawa <input type="checkbox"/> Ceramic <input type="checkbox"/> Ceramic (coat)
<input type="checkbox"/> Ceramic proppant <input type="checkbox"/> Sintered bauxite <input checked="" type="checkbox"/> Other (specify) Ottawa		<input type="checkbox"/> Resin coated <input type="checkbox"/> Lite-Prop <input type="checkbox"/> Other (specify)
Note: Use additional copies of this form for additional trucks,sizes,or vendors		
Truck number	No.	No.
Trucking company	No.	No.
Weight slip available? Attach all.	Yes/	No.
Net weight delivered		
Nominal size from list below		
Total weight , each size	Size 20/40	Weight 262860 lb
Is total weight for each size appropriate for job requirements?	Yes	No
Visual quality of proppant	color right	Yes/No x
	low dust	Yes/No x
	appearance right	Yes/No x
	no contamination	Yes/No x
Report the manufacturer's COA	Insize >90%	Yes/No x
sieve analysis results.		
Report % provided by MFG		
If seive run @district or location	insize>85%	Yes/No
		Yes/No
Is the truck content acceptable?	Yes/No	

If not appropriate, correct problem before sieve analysis. If the manufacturer's sieve analysis does not meet specifications, perform sieve analysis.

Spot check manufacturer's sieve analysis at a minimum of every 250,000 lbs.

Sieve Analysis	Combine all samples		Sieve Analysis	Combine all samples	
20/40 White	17.25 grams of sample			grams of sample	
	Amount Retained	15.47		Amount Retained	
Sieve mesh	Gram	%	Sieve mesh	Gram	%
16	0	0.00			
20	0.19	1.10			
30	5.55	32.17			
35	7.01	40.64			
40	2.91	16.87			
50	1.43	8.29			
PAN	0.14	0.81			
Pan		0.00			
Total wt. Gram	17.2	99.88	Total wt. Gram		
Turbidity	pass	fail	Turbidity	pass	fail
pH	pass	fail	pH	pass	fail

Recognized proppant or gravel sizes: 6/12, 8/16, 12/20, 16/20, 16/30, 20/40, 30/50, 40/70, or 50/70 (40/60 for gravel)



Farmington, New Mexico District Laboratory
3250 Southside River Road
Farmington, New Mexico 87401
Phone (505) 327-6222
Fax (505) 327-5766

Prepared for

Patara Oil & Gas LLC

HC Fed #1-13-44-15

1-44N-15W

San Miguel County, Colorado

Honaker Trail Formation

Treatment Fluid

Lightning-20

High Temperature Pressurized Viscometer Testing Results

Prepared for

Patara Oil & Gas

Laboratory Project No. 703750354B
Prepared By: Dave
Farmington, New Mexico District Laboratory
3250 Southside River Road
Farmington, New Mexico 87401
3/30/2011



Farmington, New Mexico District
Laboratory

For
Patara Oil & Gas LLC

HC Fed
#1-13-44-15

San Miguel County

Colorado

Honaker Trail Formation

Fluid System

Lightning-20

Containing:

5.0 gpt GW-3LDF

1.0 gpt XLW-32

3.0 gpt BF-7L

1.0 gpt InFlo 250W

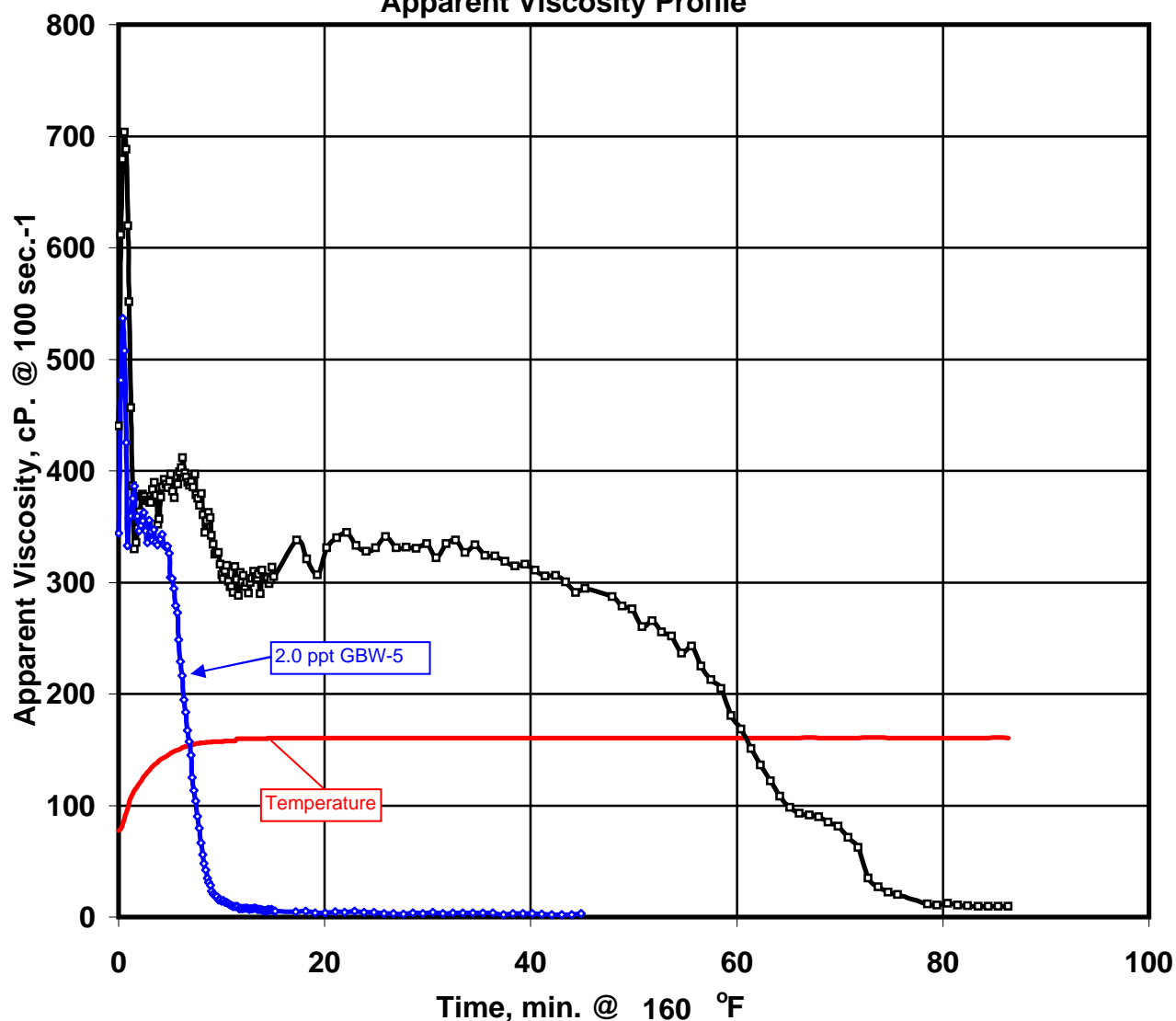
0.5 gpt Enzyme G-I

1.0 ppt High Perm CRB

2.0 ppt GBW-5 as indicated

Location Water

Apparent Viscosity Profile



Farmington, New Mexico District Laboratory
Farmington, New Mexico 87401

Date: 3/30/2011

Time "0" at Instrument Start

File: 703750354B

Dave



Farmington, New Mexico
District Laboratory
For
Patara Oil & Gas LLC
HC Fed
#1-13-44-15
San Miguel County
Colorado
Honaker Trail Formation

Fluid System

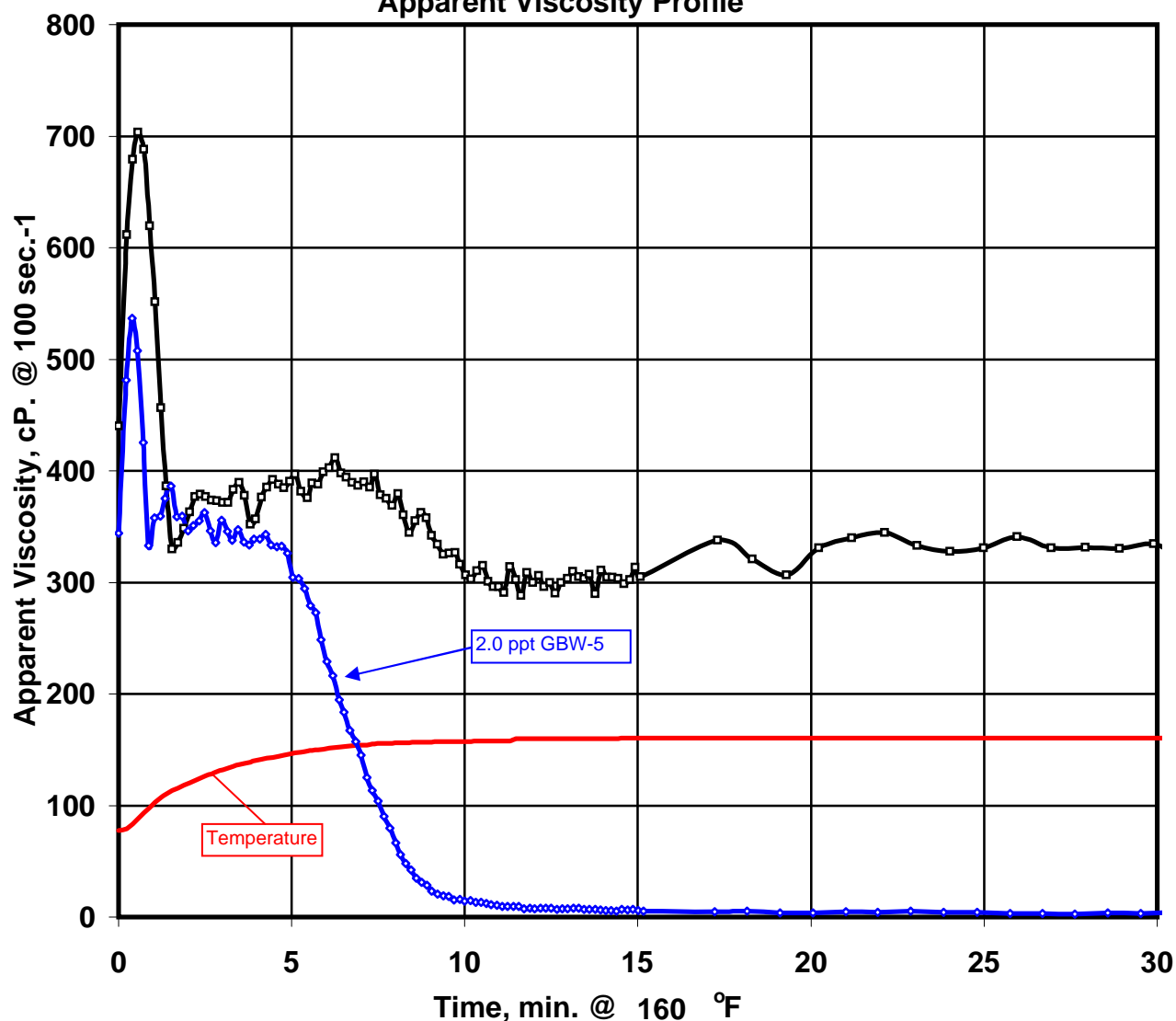
Lightning-20
Containing:

5.0 gpt GW-3LDF
1.0 gpt XLW-32
3.0 gpt BF-7L

1.0 gpt InFlo 250W
0.5 gpt Enzyme G-I

1.0 ppt High Perm CRB
2.0 ppt GBW-5 as indicated
Location Water

Apparent Viscosity Profile



Farmington, New Mexico District Laboratory
Farmington, New Mexico 87401
Date: 3/30/2011

Time "0" at Instrument Start
File: 703750354B
Dave

4/1/2011, 9:11 AM

Base Gel: 14.7 cP @ 64 F

pH 8.17

5 gpt GW-3LDF

3 gpt BF-7L

1 gpt Inflo 250W

5 gpt FAW-4

2 ppt GBW-5

1 ppt HighPerm CRB

0.5 gpt Enzyme G-I

1 gpt XLW-32

XL pH 10.34 / 9.77

XL Time 8 / 13

Min.	Temp.	S. S.	S. R.	Vis.	RPM		
0.01	56.2	0	0	0	100	0	0
1	58.1	134.4	100	683.8	100	0	0
2	62.5	145.1	100	740.3	100	0	0
3	68.7	149.7	100	759.9	100	0	0
4	75.6	155.5	100	802	100	0	0
5	82.5	162.7	100	835.6	100	0	0
6	89.8	162.6	100	832.3	100	0	0
7	97	160	100	817	100	0	0
8	104	138.3	100	710	100	0	0
9	110.7	120.4	100	613.1	100	0	0
10	117.6	101.8	100	521.4	100	0	0
11	124.2	88	100	447.1	100	0	0
12	130.2	92.1	100	475.2	100	0	0
13	135.9	101.7	100	532.7	100	0	0
14	141.7	103.1	100	538.1	100	0	0
15	147.1	105.6	100	526.7	100	0	0
16	151.8	88.1	100	459.6	100	0	0
17	155.5	81.4	100	422.3	100	0	0
18	159.1	65.9	100	338.1	100	0	0
19	161.5	34.7	100	182	100	0	0
20	162.7	11.4	100	59.5	100	0	0
21	163.4	3.4	100	17.8	100	0	0
22	163.1	2.6	100	13.1	100	0	0
23	162.4	2.1	100	11	100	0	0
24	161.8	1.9	100	9.7	100	0	0
25	161	1.6	100	8.4	100	0	0
26	160.4	1.3	100	6.7	100	0	0
26.65	160.1	1.1	100	5.9	100	0	0



*Frac Tank
Water Analysis Work Sheet*

Company	Patara Oil & Gas	Date Sampled	3/29/2011
Well	HC Fed #1-13-44-15	Date Tested	3/30/2011
S/T/R		Submitted By:	
Tank #	1	Tested by:	D Rasmussen

Results

pH	7.88	Potassium : K+	10000
Resistivity	0.13	Temperature	69.9
H ₂ S	0	Sulfate	410
Fe +2 : Ferrous	0	Fe +3 : Ferric	0
Specific Gravity	1.040	Total Hardness (mg/l)	2000
Bicarbonate : HCO ₃ ⁻ (mg/l)	244	Magnesium : Mg +2 (mg/l)	365
Calcium : Ca +2 (mg/l)	200	Sodium : Na + (mg/l)	20421
Total Dissolved Solids (mg/l)	54129	Chloride : Cl - (mg/l)	32490

Comments:



*Frac Tank
Water Analysis Work Sheet*

Company	Patara Oil & Gas	Date Sampled	3/29/2011
Well	HC Fed #1-13-44-15	Date Tested	3/30/2011
S/T/R		Submitted By:	
Tank #	2	Tested by:	D Rasmussen

Results

pH	7.93	Potassium : K+	10000
Resistivity	1.10	Temperature	70
H ₂ S	0	Sulfate	430
Fe +2 : Ferrous	0	Fe +3 : Ferric	0
Specific Gravity	1.040	Total Hardness (mg/l)	1900
Bicarbonate : HCO ₃ ⁻ (mg/l)	256	Magnesium : Mg +2 (mg/l)	316
Calcium : Ca +2 (mg/l)	240	Sodium : Na + (mg/l)	20480
Total Dissolved Solids (mg/l)	54213	Chloride : Cl - (mg/l)	32490

Comments: