

Operator	Cub Creek Energy, LLC
Well	Litzenberger #22
API	05-123-42777
Formation	Niobrara
Date	



Stage	TotalClean	TotalSlurry	PumpDownVol	F_ISIP	F_5Min	F_FG	TotallbsWeight Prop	40/70 White Actual Weight	20/40 White Actual Weight	AvePSI	AveRate	MaxRate	MaxHHP	StartFrac	EndFrac
1	6573	7026	1538	4031	3849	1.007	358210	176020	182190	7532.2	79.6	90.3	15506	2/11/18 7:40	2/11/18 9:13
2	5623	6043	318	4516	4168	1.076	358490	176470	182020	7637.8	79.4	80.5	15377	2/11/18 15:44	2/11/18 17:15
3	5355	5793	359	4136	3901	1.022	358260	176200	182060	7606.3	79.1	81.0	15732	2/12/18 3:31	2/12/18 5:03
4	5721	6173	385	4036	3881	1.007	358370	176230	182140	7593.8	80.0	81.7	16012	2/12/18 9:24	2/12/18 10:56
5	4967	5323	302	3973	3825	0.998	305900	142060	163840	7225.9	80.3	81.1	14802	2/12/18 15:56	2/12/18 17:16
6	5080	5464	243	4034	3781	1.006	306030	142080	163950	7033.2	79.4	80.3	14486	2/12/18 22:17	2/12/18 23:43
7	5032	5395	299	3982	3818	0.996	306140	142060	164080	7089.4	79.6	83.4	15421	2/13/18 4:10	2/13/18 5:32
8	4957	5334	273	4027	3906	1.000	306010	142030	163980	7051.7	80.2	81.2	15382	2/13/18 10:16	2/13/18 11:38
9	4935	5327	201	4214	3860	1.024	305680	141990	163690	7480.3	79.8	80.7	15789	2/13/18 21:58	2/13/18 23:23
10	4974	5332	230	4305	4034	1.036	306090	142060	164030	7340.2	79.5	80.3	15015	2/14/18 1:35	2/14/18 2:57
11	4937	5310	293	4155	4021	1.016	306030	141890	164140	7307.4	79.5	81.2	15404	2/14/18 7:18	2/14/18 8:41
12	5080	5449	306	3939	3637	0.986	306150	141870	164280	7782.1	80.2	82.0	15654	2/14/18 11:01	2/14/18 12:27
13	4913	5268	287	3973	3801	0.992	305940	142180	163760	7243.2	79.8	81.7	13774	2/14/18 15:51	2/14/18 17:12
14	4902	5267	162	4069	3825	1.006	305930	141980	163950	6872.3	79.7	80.8	13827	2/14/18 19:26	2/14/18 20:48
15	4885	5244	155	4001	3837	0.997	306030	142050	163980	7065.8	79.8	80.7	14493	2/14/18 22:54	2/15/18 0:16
16	4949	5321	188	4184	3999	1.023	306040	141910	164130	6950.0	79.8	80.8	14206	2/15/18 2:25	2/15/18 3:47
17	4817	5191	190	4233	3863	1.029	306120	142120	164000	7150.8	80.0	81.9	14500	2/15/18 6:02	2/15/18 7:25
18	4845	5219	236	4205	3913	1.026	305820	142040	163780	6875.2	79.8	81.1	14234	2/15/18 10:15	2/15/18 11:37
19	4754	5114	128	3973	3820	0.993	305650	141690	163960	6807.2	80.0	82.2	14047	2/15/18 13:49	2/15/18 15:03
20	4961	5315	236	4133	3678	1.016	306150	142050	164100	6796.1	79.8	80.8	14521	2/15/18 17:33	2/15/18 18:56
21	4869	5235	158	3713	3522	0.957	305980	142020	163960	6426.2	79.6	80.5	13641	2/15/18 22:02	2/15/18 23:23
22	4858	5226	139	3731	3485	0.959	306000	141990	164010	6614.6	80.7	80.7	13344	2/16/18 1:40	2/16/18 2:58
23	4717	5095	127	3870	3763	0.979	306220	142130	164090	6320.3	78.9	80.9	13722	2/16/18 5:09	2/16/18 6:27
24	4792	5164	175	3866	3683	0.979	305640	141840	163800	6195.5	79.7	81.1	12741	2/16/18 8:52	2/16/18 10:13
25	4775	5138	169	3949	3782	0.991	306104	142080	164024	6158.0	79.9	81.0	13472	2/16/18 12:51	2/16/18 14:11
26	4773	5143	172	3998	3665	0.997	306080	142040	164040	6248.5	79.8	80.6	14568	2/16/18 17:02	2/16/18 18:20
27	4704	5081	105	3821	3448	0.972	306020	142020	164000	6200.2	79.7	80.6	13505	2/16/18 20:44	2/16/18 22:02
28	4950	5018	115	3896	3516	0.982	305980	141910	164070	6269.8	79.8	80.6	13766	2/17/18 0:53	2/17/18 2:07

Min	4,704	5,018	105	3,713	3,448	1	305,640	141,690	163,690	6,158	79	80	12,741	43,142	43,142
Max	6,573	7,026	1,538	4,516	4,168	1	358,490	176,470	182,190	7,782	81	90	16,012	43,148	43,148
Average	5,025	5,393	267	4,034	3,796	1	313,467	146,893	166,573	6,960	80	81	14,534	43,146	43,146
Totals	140,698	151,008	7,489	112,963	106,281	28	8,777,064	4,113,010	4,664,054	194,874	2,234	2,280	406,941	1,208,078	1,208,079

Actual Flush	Treated Water Vol	LibertyFR Vol	22# Justice Vol	23# Justice Vol	Frac&PD_HCL-15	Frac&PD_FRP-E3-8	Frac&PD_Aquacur 714	Frac&PD_SFT-82	Frac&PD_CSA-23	Frac&PD_LGA-3J	Frac&PD_SAFE-BFH	Frac&PD_XLB-88	Frac&PD_BHL-68W
305	1613	657	4286		720	24	53	309	219	1001	127	326	163
305	360	622	4624		722	18	45	329	223	1057	124	326	184
297	399	641		4298	724	21	43	312	213	1056	122	334	168
297	417	653		4634	724	20	46	332	225	1127	126	365	189
297	338	663		3949	724	20	39	278	196	950	107	292	164
285	282	635		4146	705	17	44	294	203	1002	94	323	170
294	324	702		3988	705	22	41	292	199	959	109	310	163
284	305	640		3995	724	20	41	278	188	911	111	312	170
278	235	624		4058	706	19	42	288	197	980	110	315	170
273	262	627		4068	725	21	47	287	193	981	111	316	169
276	326	624		3969	724	20	43	280	196	895	102	318	166
267	343	622		4098	724	20	44	287	206	933	119	335	172
263	320	615		3961	697	19	44	294	199	956	108	308	166
259	196	612		4077	741	18	45	295	203	987	111	318	168
256	191	609		4067	710	19	44	296	186	995	109	320	171
252	234	583		4115	684	19	45	298	194	1003	105	327	173
256	230	607		3964	746	19	42	296	192	956	107	313	166
248	271	590		3967	724	18	41	291	197	959	106	316	166
237	164	589		3984	724	19	41	294	199	944	108	310	163
240	301	706		3937	724	22	47	296	195	960	107	306	167
233	206	587		4059	710	18	41	303	196	998	119	322	171
230	173	585		4083	760	18	41	297	196	991	110	323	170
231	154	581		3965	741	18	40	287	197	941	109	314	167
230	209	583		3983	724	18	42	287	192	955	109	314	169
223	201	579		3977	724	18	41	286	191	958	109	310	164
217	197	571		3988	724	18	42	286	190	975	108	313	165
212	134	566		3987	723	18	43	286	190	980	107	312	167
212	153	862		3917	724	26	39	296	200	943	104	309	165

212	134	566	4,286	3,917	684	17	39	278	186	895	94	292	163
305	1,613	862	4,624	4,634	760	26	53	332	225	1,127	127	365	189
259	305	626	4,455	4,047	722	20	43	295	199	977	111	318	169
7,254	8,537	17,536	8,909	105,234	20,207	547	1,206	8,254	5,575	27,353	3,098	8,907	4,726