

Operator	Cub Creek Energy, LLC
Well	Litzenberger #18
API	05-123-42785
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	4449	4798	237	4032	3804	1.006	279670	116240	163430	7054	79.6	81.0	14547	2/18/18 7:58	2/18/18 9:15
2	4469	4796	262	4103	3865	1.016	280010	115770	164240	7227	79.9	80.9	14375	2/18/18 16:05	2/18/18 17:18
3	4566	4905	269	4287	3985	1.041	279830	116020	163810	7195	79.8	80.8	14782	2/19/18 0:17	2/19/18 1:35
4	4534	4872	278	4092	3959	1.014	280280	116090	164190	7225	79.8	81.4	14854	2/19/18 8:35	2/19/18 9:52
5	4525	4861	239	4259	4025	1.038	280220	115840	164380	7210	79.6	81.7	14923	2/19/18 17:07	2/19/18 18:24
6	4578	4913	292	4136	4031	1.020	279600	115460	164140	7222	79.9	82.4	14708	2/20/18 12:44	2/20/18 14:14
7	4719	5068	289	4250	4079	1.037	280560	116460	164100	7156	79.9	80.7	14824	2/20/18 19:05	2/20/18 20:23
8	4613	4950	309	4191	4011	1.028	279640	115710	163930	7207	80.1	81.1	15588	2/21/18 4:00	2/21/18 5:21
9	4615	4954	280	4240	4115	1.033	280560	116450	164110	7053	80.0	81.0	14487	2/21/18 13:05	2/21/18 14:23
10	4748	5076	379	4384	4159	1.051	280040	116380	163660	6900	79.6	80.8	14609	2/21/18 23:10	2/22/18 0:29
11	4923	5266	282	4317	4111	1.039	279770	115570	164200	7453	80.0	81.0	15586	2/22/18 2:31	2/22/18 3:53
12	4837	5185	264	4500	4299	1.064	280250	116200	164050	7526	79.9	81.2	15868	2/22/18 9:05	2/22/18 10:27
13	4586	4940	241	4577	4311	1.074	279580	115920	163660	7157	80.1	81.7	14681	2/22/18 20:04	2/22/18 21:21
14	4576	4914	154	4524	4357	1.068	280350	116000	164350	7402	80.2	81.2	15971	2/23/18 4:12	2/23/18 5:27
15	4458	4805	148	4480	4275	1.063	280020	116100	163920	7119	79.9	80.8	14741	2/23/18 12:24	2/23/18 13:41
16	4526	4858	139	4472	4288	1.063	279630	115990	163640	7209	79.8	80.7	15896	2/23/18 20:44	2/23/18 22:02
17	5530	5881	137	4387	4279	1.051	280270	116170	164100	7533	73.1	76.2	14668	2/24/18 6:46	2/24/18 8:29
18	4875	5205	117	4423	4236	1.056	279920	115680	164240	7461	75.8	81.1	15987	2/24/18 11:10	2/24/18 12:41
19	4411	4766	110	4571	4413	1.077	279520	115820	163700	7085	80.0	80.8	15889	2/24/18 16:55	2/24/18 18:13
20	4420	4756	112	4513	4324	1.069	280540	116430	164110	6813	79.9	80.9	14036	2/24/18 23:14	2/25/18 0:31
21	4380	4739	95	4594	4314	1.080	279760	116010	163750	7231	80.0	80.9	14906	2/25/18 4:59	2/25/18 6:15
22	4579	4904	90	4106	3951	1.011	281200	116340	164860	7369	80.1	81.2	16325	2/25/18 10:36	2/25/18 11:56
23	4394	4739	79	4223	4039	1.026	279660	115940	163720	6453	80.0	81.1	13934	2/25/18 19:24	2/25/18 20:47
24	4417	4742	118	4292	4088	1.034	279230	115570	163660	6666	80.0	80.7	15112	2/26/18 1:00	2/26/18 2:14
25	4365	4713	79	4143	3851	1.011	279730	115780	163950	7349	79.5	81.0	15755	2/26/18 6:44	2/26/18 8:00
26	6858	7216	139	4347	4225	1.038	280140	116160	163980	7293	77.7	80.8	14869	2/26/18 12:49	2/26/18 13:34
27	4486	4813	47	4310	4095	1.033	279910	115490	164420	6583	80.3	80.9	15204	2/27/18 8:17	2/27/18 9:38
28	5295	5639	43	4232	4011	1.021	280780	116660	164120	6770	80.0	80.8	15947	2/27/18 14:36	2/27/18 16:42

Min	4,365	4,713	43	4,032	3,804	1	279,230	115,460	163,430	6,453	73	76	13,934	43,149	43,149
Max	6,858	7,216	379	4,594	4,413	1	281,200	116,660	164,860	7,533	80	82	16,325	43,159	43,159
Average	4,705	5,046	187	4,321	4,125	1	280,024	116,009	164,015	7,140	79	81	15,110	43,154	43,154
Totals	131,732	141,274	5,228	120,985	115,500	29	7,840,670	3,248,250	4,592,420	199,921	2,225	2,265	423,072	1,208,316	1,208,317

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
300	276	652	3504		724	21	38	261	176	814	87	262	146
293	296	627		3529	724	19	39	260	173	851	96	275	143
291	302	645		3602	741	20	38	260	177	858	97	283	150
294	312	645		3560	724	20	39	266	176	849	96	280	150
286	271	640		3597	731	20	40	267	178	866	98	282	151
277	321	620		3619	732	20	39	267	176	870	99	283	150
283	327	756		3618	724	25	40	270	184	873	96	282	153
280	356	623		3617	724	21	37	257	185	857	102	293	159
269	316	611		3672	709	20	39	265	184	873	103	286	158
273	431	627		3673	724	19	36	255	185	881	109	291	156
269	318	625		3963	724	22	40	270	197	1021	115	313	165
262	308	612		3900	724	20	33	289	193	932	113	310	165
262	274	613		3681	724	21	37	254	179	868	105	289	155
259	192	614		3753	720	18	37	275	186	898	102	290	158
253	186	606		3649	724	20	39	265	184	871	100	285	156
249	165	602		3741	724	19	36	268	186	862	106	289	159
245	176	593		4744	724	20	47	327	230	1121	136	364	203
242	136	614		4109	724	17	40	310	201	973	120	316	181
237	128	593		3673	724	18	42	234	185	842	99	285	148
235	147	588		3667	724	19	35	267	184	876	107	280	153
236	127	587		3649	724	13	37	254	179	859	101	283	153
234	125	585		3852	724	20	38	290	190	921	112	299	171
222	125	575		3676	724	15	37	268	182	881	103	283	156
221	149	578		3673	724	16	36	265	180	855	100	277	153
218	121	567		3660	724	19	39	267	178	856	106	279	155
214	193	1751		4862	2171	55	55	420	286	1149	127	371	224
211	82	665		3722	736	21	38	285	192	907	99	287	153
215	81	1536		3644	1450	39	39	308	202	774	101	263	148

211	81	567	3,504	3,529	709	13	33	234	173	774	87	262	143
300	431	1,751	3,504	4,862	2,171	55	55	420	286	1,149	136	371	224
255	223	691	3,504	3,782	803	21	39	277	190	895	105	292	160
7,129	6,240	19,350	3,504	102,103	22,470	597	1,090	7,744	5,308	25,058	2,935	8,180	4,472