

Operator	Cub Creek Energy, LLC
Well	Litzenberger #13
API	05-123-42772
Formation	Niobrara
Date	



Stage	TotalClean	TotalSlurry	PumpDown Vol	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	4322	4681		3343	3101	0.907	306030	142090	163940	6415	70.8	80.8	14874	1/21/18 11:24	1/21/18 12:43
2	4722	5166	248	3510	3373	0.931	306280	141970	164310	6794	80.0	81.3	14156	1/21/18 20:15	1/21/18 21:43
3	4578	5061	219	3720	3477	0.960	306040	142020	164020	6764	79.4	80.3	14013	1/22/18 6:02	1/22/18 7:22
4	4645	5093	205	3552	3370	0.936	306040	142020	164020	6864	80.0	82.3	14601	1/22/18 14:25	1/22/18 15:32
5	4574	5079	197	3557	3401	0.936	305720	141840	163880	6862	80.0	81.5	15089	1/22/18 22:27	1/22/18 23:45
6	4676	5134	208	3556	3370	0.936	305950	142020	163930	6645	79.7	82.0	14840	1/23/18 7:44	1/23/18 9:04
7	4789	5272	183	3437	3321	0.919	306060	142040	164020	7372	79.4	81.3	16036	1/23/18 15:59	1/23/18 17:21
8	4583	5067	182	3629	3463	0.946	305770	142010	163760	6574	79.9	81.3	13413	1/24/18 0:51	1/24/18 2:11
9	4576	5049	173	3679	3494	0.952	306160	141960	164200	6597	80.2	81.4	14010	1/24/18 9:43	1/24/18 11:03
10	4652	5132	157	3755	3632	0.963	306160	142340	163820	6571	79.7	80.9	13771	1/24/18 18:14	1/24/18 19:37
11	4657	5140	164	3882	3596	0.980	306060	141940	164120	6808	80.1	81.3	15228	1/25/18 2:11	1/25/18 3:36
12	4580	5060	150	4102	3799	1.011	305980	141740	164240	7122	79.6	81.1	15343	1/25/18 9:31	1/25/18 10:51
13	4610	5083	134	4001	3831	0.995	305880	142080	163800	6657	79.7	80.4	13523	1/25/18 18:48	1/25/18 20:13
14	4619	5102	148	4167	3959	1.016	306070	141970	164100	7129	77.6	80.6	15639	1/26/18 3:54	1/26/18 5:16
15	4576	5049	119	4246	3998	1.027	305980	142000	163980	6946	80.1	80.8	14960	1/26/18 12:12	1/26/18 13:30
16	4568	5035	113	4197	4021	1.020	305670	141880	163790	6979	79.6	80.2	15980	1/26/18 21:16	1/26/18 22:36
17	4572	5037	115	4315	4075	1.037	305880	142020	163860	7089	79.0	80.5	15565	1/27/18 4:38	1/27/18 5:58
18	4540	5009	97	4242	3973	1.027	306140	142040	164100	6867	80.5	81.2	15869	1/27/18 12:33	1/27/18 13:52
19	4549	5021	88	4325	4061	1.039	306640	142390	164250	6699	79.9	80.4	14445	1/27/18 19:17	1/27/18 20:40
20	4633	5107	100	4490	4195	1.061	305780	141880	163900	7083	77.7	80.4	14579	1/28/18 3:33	1/28/18 4:56
21	4580	5046	85	4217	4012	1.023	306010	141890	164120	6919	80.7	81.7	15732	1/28/18 8:33	1/28/18 9:51
22	4546	5014	71	4232	3807	1.026	305850	141960	163890	7082	80.8	80.8	13782	1/28/18 13:25	1/28/18 14:44
23	4580	5058	73	4003	3633	0.995	305600	141780	163820	6442	80.1	80.7	14625	1/28/18 18:38	1/28/18 20:00
24	4555	4995	62	4165	3845	1.019	306110	141960	164150	6456	79.9	80.6	13817	1/28/18 23:53	1/29/18 1:15
25	4546	5016	55	4262	3990	1.034	306900	142850	164050	6280	80.2	80.9	13206	1/29/18 5:07	1/29/18 6:22
26	4491	4945	38	4008	3699	0.998	305690	141690	164000	6183	79.6	80.3	13696	1/29/18 10:55	1/29/18 12:11
27	4502	4969	37	3942	3747	0.988	305810	141850	163960	6378	81.6	82.2	14793	1/29/18 15:53	1/29/18 17:10
28	4515	4985	37	3837	3688	0.973	305700	141750	163950	6399	80.1	80.7	15002	1/29/18 22:58	1/30/18 0:12

Min	4,322	4,681	37	3,343	3,101	1	305,600	141,690	163,760	6,183	71	80	13,206	1/21/18 11:24	1/21/18 12:43
Max	4,789	5,272	248	4,490	4,195	1	306,900	142,850	164,310	7,372	82	82	16,036	1/29/18 22:58	1/30/18 0:12
Average	4,583	5,050	128	3,942	3,712	1	305,999	141,999	163,999	6,749	79	81	14,664	1/26/18 2:22	1/26/18 3:41
Totals	128,336	141,405	3,458	110,371	103,931	28	8,567,960	3,975,980	4,591,980	188,976	2,226	2,268	410,587	2/6/06 18:19	2/8/06 7:34

Actual Flush	Treated Water Vol	LibertyFR Vol	22# Justice Vol	23# Justice Vol	Frac&PD_ HCL-15	Frac&PD_ FRP-E3-8	Frac&PD_ Aquar 714	Frac&PD_ SFT-82	Frac&PD_ CSA-23	Frac&PD_ LGA-3J	Frac&PD_ SAFE-BFH	Frac&PD_ XLB-88	Frac&PD_B HL-68W
305	53	663	3589		759	19	42	268	185	845	86	265	152
290	309	577	3819		719	18	41	284	188	887	96	290	165
291	260	653	3648		729	18	40	270	179	837	91	271	155
287	261	633		3734	735	21	42	280	194	900	98	290	160
290	232	642		3683	730	19	39	281	184	910	102	296	166
278	261	620		3777	616	16	35	274	186	890	103	290	156
310	218	683		3871	741	18	41	284	195	944	111	305	162
293	219	632		3715	724	17	39	278	188	869	104	293	157
269	204	617		3738	722	17	39	282	188	910	101	298	160
266	193	620		3822	724	18	39	278	190	937	111	298	160
266	201	612		3828	724	19	39	280	191	916	107	302	164
263	183	553		3826	684	16	41	274	189	924	101	299	158
256	174	602		3816	724	21	42	281	191	898	96	301	161
254	181	601		3820	724	12	42	279	186	922	94	301	160
236	153	586		3820	760	17	38	277	180	923	99	298	158
246	144	592		3815	724	19	39	272	180	920	100	301	162
231	149	583		3823	725	16	48	279	187	924	110	298	163
228	133	578		3811	705	18	35	271	186	921	102	298	160
234	133	597		3802	724	18	36	277	183	925	101	299	161
252	121	597		3898	708	13	32	280	190	942	102	304	166
208	127	387		4049	760	17	35	278	188	978	103	316	171
208	112	559		3857	759	18	38	277	185	936	102	301	164
224	120	569		3873	724	17	40	278	180	945	105	308	165
220	99	571		3868	724	18	39	279	180	931	104	309	163
216	91	565		3873	724	17	42	283	187	935	111	301	164
204	70	552		3852	741	15	40	282	186	933	93	300	160
199	70	551		3863	740	17	37	316	178	930	109	305	158
205	68	551		3879	724	19	38	281	184	935	110	305	162

199	53	387	3,589	3,683	616	12	32	268	178	837	86	265	152
310	309	683	3,819	4,049	760	21	48	316	195	978	111	316	171
251	162	591	3,685	3,829	725	17	39	279	186	917	102	298	161
7,028	4,543	16,543	11,055	95,713	20,297	488	1,098	7,823	5,208	25,667	2,852	8,342	4513