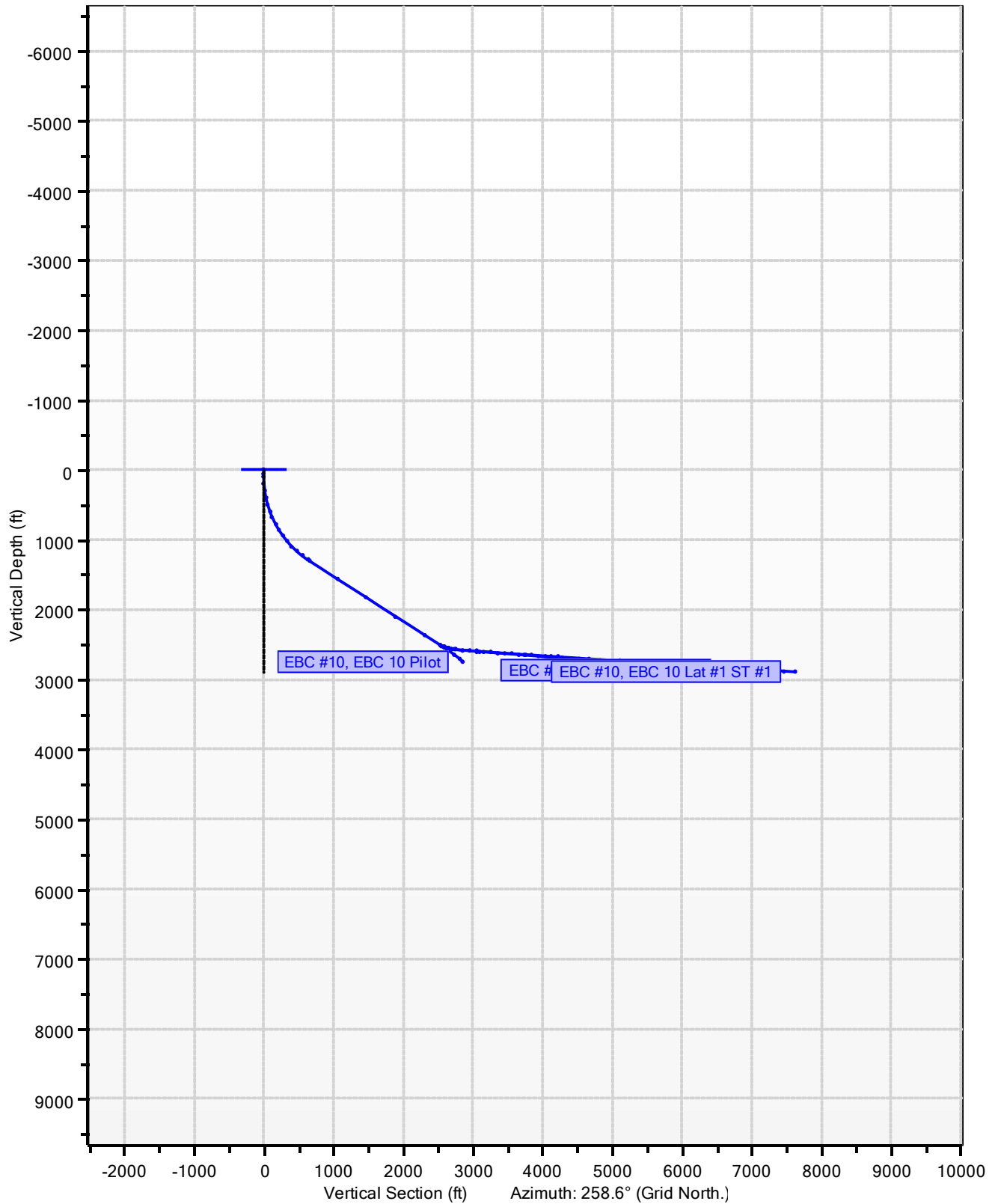


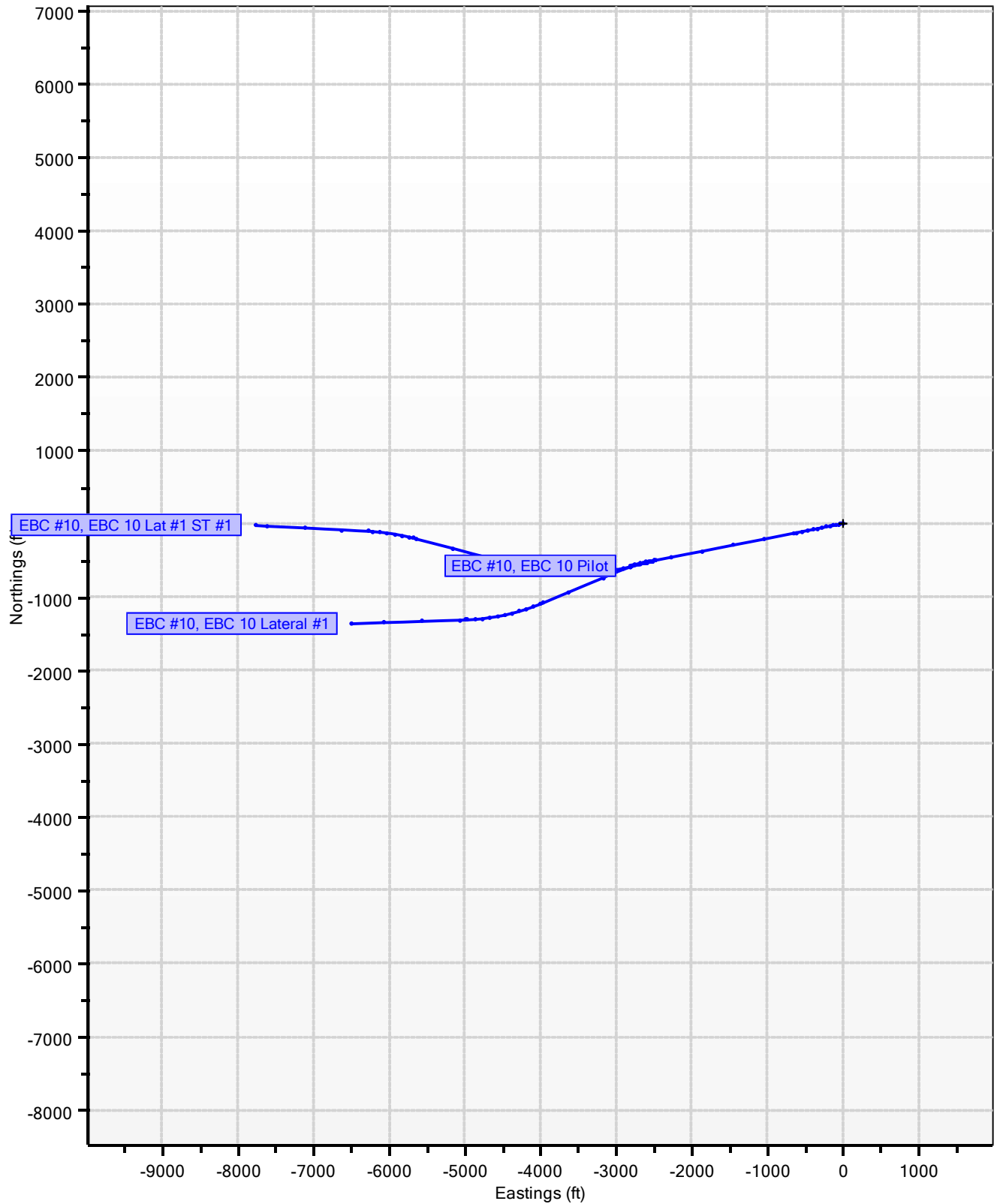
**East Bull Creek Well
EBC Pad 5
EBC #10
EBC 10 Lateral #1**

**Catamount Energy Partners
Proposal Report**

EBC Pad 5, EBC #10



EBC Pad 5, EBC #10



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #10
Company:		TVD Reference:	EBC #10
Project:	East Bull Creek Well	MD Reference:	EBC #10
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #10	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 10 Lateral #1		

Project	East Bull Creek Well		
Map System:	HPGN Colorado State Planes	System Datum:	Mean Sea Level
Geo Datum:	High Precision GPS Network (aka HARN, NAD83/9'		
Map Zone:	Southern Zone		

Site	EBC Pad 5				
Site Position:		Northing:	+1180469	Latitude:	37.14711221° N
From:	Map	Easting:	+2451364	Longitude:	107.38240999° W
Position Uncertainty:	0ft	Slot Radius:	0in	Grid Convergence:	-1.2°

Well	EBC #10				
Well Position: +N/-S	0ft	Northing:	+1180469	Latitude:	37.14711221° N
+E/-W	0ft	Easting:	+2451364	Longitude:	107.38240999° W
Position Uncertainty:	1ft	Wellhead Elevation:	6530ft	Ground Level:	6514ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/7/2018	0.0	0.0	0.0

Proposal	EBC 10 Lateral #1				
Audit Notes:					
Version:		Phase:		Tie On Depth:	3750ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	258.1

Survey Program		3/7/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	3690	EBC 10 Pilot	MWD	MWD	
3690	7931	EBC 10 Pilot	MWD	MWD	

Measured Depth (ft)	Inclinator (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
3750	57.4	258.6	2501	-501	-2476					
3970	85.8	254.0	2570	-551	-2676	13.1	12.9	-2.1	-9.5	
4341	85.5	246.6	2598	-676	-3024	2.0	-0.1	-2.0	-92.5	
5362	85.5	246.6	2678	-1081	-3958	0.0	0.0	0.0	0.0	
6431	85.8	268.0	2760	-1314	-4992	2.0	0.0	2.0	90.1	
7931	85.8	268.0	2870	-1366	-6487	0.0	0.0	0.0	0.0	Lat 1 BHL

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/Formations
0	0.0	0.0	0	-6530	0	0	0	0	0.0	0.0	MWD
50	0.0	0.0	50	-6480	0	0	0	0	0.0	0.0	
100	0.0	0.0	100	-6430	0	0	0	0	0.0	0.0	
120	0.8	258.6	120	-6410	0	0	0	0	258.6	4.0	
150	2.0	258.6	150	-6380	0	-1	1	1	258.6	4.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #10
Company:		TVD Reference:	EBC #10
Project:	East Bull Creek Well	MD Reference:	EBC #10
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #10	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 10 Lateral #1		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/Formations
180	3.2	258.6	180	-6350	0	-2	2	2	258.6	4.0	
210	4.4	258.6	210	-6320	-1	-4	4	4	258.6	4.0	
240	5.6	258.6	240	-6290	-1	-7	7	7	258.6	4.0	
270	6.8	258.6	270	-6260	-2	-10	10	10	258.6	4.0	
300	8.0	258.6	299	-6231	-3	-14	14	14	258.6	4.0	
330	9.2	258.6	329	-6201	-4	-18	18	18	258.6	4.0	
360	10.4	258.6	359	-6171	-5	-23	24	24	258.6	4.0	
390	11.6	258.6	388	-6142	-6	-29	29	29	258.6	4.0	
420	12.8	258.6	417	-6113	-7	-35	36	36	258.6	4.0	
450	14.0	258.6	447	-6083	-8	-42	43	43	258.6	4.0	
480	15.2	258.6	476	-6054	-10	-49	50	50	258.6	4.0	
510	16.4	258.6	504	-6026	-12	-57	58	58	258.6	4.0	
540	17.6	258.6	533	-5997	-13	-66	67	67	258.6	4.0	
570	18.8	258.6	562	-5968	-15	-75	76	76	258.6	4.0	
600	20.0	258.6	590	-5940	-17	-85	86	86	258.6	4.0	
630	21.2	258.6	618	-5912	-19	-95	97	97	258.6	4.0	
660	22.4	258.6	646	-5884	-21	-106	108	108	258.6	4.0	
690	23.6	258.6	673	-5857	-24	-117	120	120	258.6	4.0	
720	24.8	258.6	701	-5829	-26	-129	132	132	258.6	4.0	
750	26.0	258.6	728	-5802	-29	-142	145	145	258.6	4.0	
780	27.2	258.6	755	-5775	-31	-155	158	158	258.6	4.0	
810	28.4	258.6	781	-5749	-34	-169	172	172	258.6	4.0	
840	29.6	258.6	808	-5722	-37	-183	187	187	258.6	4.0	
870	30.8	258.6	833	-5697	-40	-198	202	202	258.6	4.0	
900	32.0	258.6	859	-5671	-43	-213	218	218	258.6	4.0	
930	33.2	258.6	884	-5646	-46	-229	234	234	258.6	4.0	
960	34.4	258.6	909	-5621	-50	-246	250	251	258.6	4.0	
990	35.6	258.6	934	-5596	-53	-262	268	268	258.6	4.0	
1020	36.8	258.6	958	-5572	-57	-280	285	285	258.6	4.0	
1050	38.0	258.6	982	-5548	-60	-298	304	304	258.6	4.0	
1080	39.2	258.6	1005	-5525	-64	-316	322	322	258.6	4.0	
1110	40.4	258.6	1028	-5502	-68	-335	342	342	258.6	4.0	
1140	41.6	258.6	1051	-5479	-72	-354	361	361	258.6	4.0	
1170	42.8	258.6	1073	-5457	-76	-374	381	381	258.6	4.0	
1200	44.0	258.6	1095	-5435	-80	-394	402	402	258.6	4.0	
1230	45.2	258.6	1116	-5414	-84	-415	423	423	258.6	4.0	
1260	46.4	258.6	1137	-5393	-88	-436	445	445	258.6	4.0	
1290	47.6	258.6	1158	-5372	-93	-457	467	467	258.6	4.0	
1320	48.8	258.6	1178	-5352	-97	-479	489	489	258.6	4.0	
1350	50.0	258.6	1197	-5333	-102	-501	512	512	258.6	4.0	
1380	51.2	258.6	1216	-5314	-106	-524	535	535	258.6	4.0	
1410	52.4	258.6	1235	-5295	-111	-547	558	558	258.6	4.0	
1440	53.6	258.6	1253	-5277	-116	-571	582	582	258.6	4.0	
1470	54.8	258.6	1270	-5260	-120	-595	607	607	258.6	4.0	
1500	56.0	258.6	1288	-5242	-125	-619	631	631	258.6	4.0	
1530	57.2	258.6	1304	-5226	-130	-643	656	656	258.6	4.0	
1534	57.4	258.6	1306	-5224	-131	-647	660	660	258.6	4.0	
1600	57.4	258.6	1342	-5188	-142	-701	715	715	258.6	0.0	
1700	57.4	258.6	1396	-5134	-159	-784	800	800	258.6	0.0	
1800	57.4	258.6	1450	-5080	-175	-866	884	884	258.6	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #10
Company:		TVD Reference:	EBC #10
Project:	East Bull Creek Well	MD Reference:	EBC #10
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #10	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 10 Lateral #1		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/Formations
1900	57.4	258.6	1504	-5026	-192	-949	968	968	258.6	0.0	
2000	57.4	258.6	1557	-4973	-209	-1031	1052	1052	258.6	0.0	
2100	57.4	258.6	1611	-4919	-225	-1114	1136	1136	258.6	0.0	
2200	57.4	258.6	1665	-4865	-242	-1196	1221	1221	258.6	0.0	
2300	57.4	258.6	1719	-4811	-259	-1279	1305	1305	258.6	0.0	
2400	57.4	258.6	1773	-4757	-276	-1361	1389	1389	258.6	0.0	
2500	57.4	258.6	1827	-4703	-292	-1444	1473	1473	258.6	0.0	
2600	57.4	258.6	1881	-4649	-309	-1527	1557	1557	258.6	0.0	
2700	57.4	258.6	1935	-4595	-326	-1609	1642	1642	258.6	0.0	
2800	57.4	258.6	1989	-4541	-342	-1692	1726	1726	258.6	0.0	
2900	57.4	258.6	2043	-4487	-359	-1774	1810	1810	258.6	0.0	
3000	57.4	258.6	2097	-4433	-376	-1857	1894	1894	258.6	0.0	
3100	57.4	258.6	2151	-4379	-393	-1939	1979	1979	258.6	0.0	
3200	57.4	258.6	2205	-4325	-409	-2022	2063	2063	258.6	0.0	
3300	57.4	258.6	2259	-4271	-426	-2104	2147	2147	258.6	0.0	
3400	57.4	258.6	2312	-4218	-443	-2187	2231	2231	258.6	0.0	
3500	57.4	258.6	2366	-4164	-459	-2269	2315	2315	258.6	0.0	
3600	57.4	258.6	2420	-4110	-476	-2352	2400	2400	258.6	0.0	
3690	57.4	258.6	2469	-4061	-491	-2426	2475	2475	258.6	0.0	MWD
3700	57.4	258.6	2474	-4056	-493	-2435	2484	2484	258.6	0.0	
3750	57.4	258.6	2501	-4029	-501	-2476	2526	2526	258.6	0.0	
3780	61.2	257.8	2516	-4014	-506	-2501	2552	2552	258.6	13.1	
3810	65.1	257.1	2530	-4000	-512	-2527	2578	2579	258.5	13.1	
3840	69.0	256.5	2542	-3988	-519	-2554	2606	2606	258.5	13.1	
3870	72.9	255.9	2552	-3978	-525	-2582	2634	2634	258.5	13.1	
3900	76.7	255.3	2559	-3971	-533	-2610	2663	2663	258.5	13.1	
3917	79.0	255.0	2563	-3967	-537	-2626	2680	2680	258.4	13.1	Target Coal
3930	80.6	254.7	2565	-3965	-540	-2638	2693	2693	258.4	13.1	
3960	84.5	254.2	2569	-3961	-548	-2667	2722	2722	258.4	13.1	
3970	85.8	254.0	2570	-3960	-551	-2676	2732	2732	258.4	13.1	
3990	85.8	253.6	2571	-3959	-556	-2695	2752	2752	258.3	2.0	
4020	85.8	253.0	2574	-3956	-565	-2724	2782	2782	258.3	2.0	
4050	85.7	252.4	2576	-3954	-574	-2753	2812	2812	258.2	2.0	
4080	85.7	251.8	2578	-3952	-583	-2781	2842	2842	258.2	2.0	
4110	85.7	251.2	2580	-3950	-593	-2809	2871	2871	258.1	2.0	
4140	85.7	250.6	2583	-3947	-602	-2838	2901	2901	258.0	2.0	
4170	85.6	250.0	2585	-3945	-612	-2866	2931	2931	257.9	2.0	
4200	85.6	249.4	2587	-3943	-623	-2894	2960	2960	257.9	2.0	
4230	85.6	248.8	2590	-3940	-634	-2922	2990	2990	257.8	2.0	
4260	85.6	248.2	2592	-3938	-644	-2950	3019	3019	257.7	2.0	
4290	85.5	247.6	2594	-3936	-656	-2977	3049	3049	257.6	2.0	
4320	85.5	247.0	2596	-3934	-667	-3005	3078	3078	257.5	2.0	
4341	85.5	246.6	2598	-3932	-676	-3024	3099	3099	257.4	2.0	
4400	85.5	246.6	2603	-3927	-699	-3078	3156	3157	257.2	0.0	
4500	85.5	246.6	2611	-3919	-739	-3170	3254	3255	256.9	0.0	
4600	85.5	246.6	2618	-3912	-778	-3261	3352	3353	256.6	0.0	
4700	85.5	246.6	2626	-3904	-818	-3353	3449	3451	256.3	0.0	
4800	85.5	246.6	2634	-3896	-858	-3444	3547	3549	256.0	0.0	
4900	85.5	246.6	2642	-3888	-897	-3536	3645	3648	255.8	0.0	
5000	85.5	246.6	2650	-3880	-937	-3627	3742	3746	255.5	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #10
Company:		TVD Reference:	EBC #10
Project:	East Bull Creek Well	MD Reference:	EBC #10
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #10	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 10 Lateral #1		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
5100	85.5	246.6	2657	-3873	-977	-3719	3840	3845	255.3	0.0	
5200	85.5	246.6	2665	-3865	-1016	-3810	3938	3943	255.1	0.0	
5300	85.5	246.6	2673	-3857	-1056	-3901	4035	4042	254.9	0.0	
5362	85.5	246.6	2678	-3852	-1081	-3958	4096	4103	254.7	0.0	
5370	85.5	246.7	2679	-3851	-1084	-3965	4104	4111	254.7	2.0	
5400	85.5	247.3	2681	-3849	-1095	-3993	4133	4140	254.7	2.0	
5430	85.5	247.9	2683	-3847	-1107	-4021	4162	4170	254.6	2.0	
5460	85.5	248.5	2686	-3844	-1118	-4048	4192	4200	254.6	2.0	
5490	85.5	249.1	2688	-3842	-1129	-4076	4221	4230	254.5	2.0	
5520	85.5	249.7	2690	-3840	-1139	-4104	4251	4259	254.5	2.0	
5550	85.5	250.3	2693	-3837	-1149	-4132	4281	4289	254.5	2.0	
5580	85.5	250.9	2695	-3835	-1159	-4161	4310	4319	254.4	2.0	
5610	85.5	251.5	2697	-3833	-1169	-4189	4340	4349	254.4	2.0	
5640	85.5	252.1	2700	-3830	-1178	-4217	4370	4379	254.4	2.0	
5670	85.5	252.7	2702	-3828	-1187	-4246	4399	4409	254.4	2.0	
5700	85.5	253.3	2704	-3826	-1196	-4275	4429	4439	254.4	2.0	
5730	85.5	253.9	2707	-3823	-1204	-4303	4459	4469	254.4	2.0	
5760	85.5	254.5	2709	-3821	-1212	-4332	4489	4498	254.4	2.0	
5790	85.6	255.1	2711	-3819	-1220	-4361	4519	4528	254.4	2.0	
5820	85.6	255.7	2714	-3816	-1228	-4390	4549	4558	254.4	2.0	
5850	85.6	256.3	2716	-3814	-1235	-4419	4578	4588	254.4	2.0	
5880	85.6	256.9	2718	-3812	-1242	-4448	4608	4618	254.4	2.0	
5910	85.6	257.5	2721	-3809	-1249	-4477	4638	4648	254.4	2.0	
5940	85.6	258.2	2723	-3807	-1255	-4506	4668	4678	254.4	2.0	
5970	85.6	258.8	2725	-3805	-1261	-4536	4698	4708	254.5	2.0	
6000	85.6	259.4	2728	-3802	-1266	-4565	4728	4737	254.5	2.0	
6030	85.6	260.0	2730	-3800	-1272	-4594	4758	4767	254.5	2.0	
6060	85.6	260.6	2732	-3798	-1277	-4624	4788	4797	254.6	2.0	
6090	85.6	261.2	2734	-3796	-1282	-4653	4818	4827	254.6	2.0	
6120	85.7	261.8	2737	-3793	-1286	-4683	4848	4856	254.6	2.0	
6150	85.7	262.4	2739	-3791	-1290	-4713	4877	4886	254.7	2.0	
6180	85.7	263.0	2741	-3789	-1294	-4742	4907	4916	254.7	2.0	
6210	85.7	263.6	2743	-3787	-1298	-4772	4937	4945	254.8	2.0	
6240	85.7	264.2	2746	-3784	-1301	-4802	4967	4975	254.8	2.0	
6270	85.7	264.8	2748	-3782	-1304	-4832	4997	5004	254.9	2.0	
6300	85.7	265.4	2750	-3780	-1306	-4861	5026	5034	255.0	2.0	
6330	85.7	266.0	2752	-3778	-1308	-4891	5056	5063	255.0	2.0	
6360	85.8	266.6	2755	-3775	-1310	-4921	5085	5093	255.1	2.0	
6390	85.8	267.2	2757	-3773	-1312	-4951	5115	5122	255.2	2.0	
6420	85.8	267.8	2759	-3771	-1313	-4981	5145	5151	255.2	2.0	
6431	85.8	268.0	2760	-3770	-1314	-4992	5156	5162	255.3	2.0	
6500	85.8	268.0	2765	-3765	-1316	-5061	5223	5229	255.4	0.0	
6600	85.8	268.0	2772	-3758	-1320	-5160	5321	5326	255.7	0.0	
6700	85.8	268.0	2780	-3750	-1323	-5260	5420	5424	255.9	0.0	
6800	85.8	268.0	2787	-3743	-1327	-5360	5518	5521	256.1	0.0	
6900	85.8	268.0	2794	-3736	-1330	-5459	5616	5619	256.3	0.0	
7000	85.8	268.0	2802	-3728	-1334	-5559	5714	5717	256.5	0.0	
7100	85.8	268.0	2809	-3721	-1337	-5659	5813	5814	256.7	0.0	
7200	85.8	268.0	2816	-3714	-1341	-5758	5911	5912	256.9	0.0	
7300	85.8	268.0	2824	-3706	-1344	-5858	6009	6010	257.1	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #10
Company:		TVD Reference:	EBC #10
Project:	East Bull Creek Well	MD Reference:	EBC #10
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #10	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 10 Lateral #1		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
7400	85.8	268.0	2831	-3699	-1348	-5958	6107	6108	257.3	0.0	
7500	85.8	268.0	2838	-3692	-1351	-6057	6206	6206	257.4	0.0	
7600	85.8	268.0	2845	-3685	-1354	-6157	6304	6304	257.6	0.0	
7700	85.8	268.0	2853	-3677	-1358	-6257	6402	6402	257.8	0.0	
7800	85.8	268.0	2860	-3670	-1361	-6356	6500	6500	257.9	0.0	
7900	85.8	268.0	2867	-3663	-1365	-6456	6599	6599	258.1	0.0	
7931	85.8	268.0	2870	-3660	-1366	-6487	6629	6629	258.1	0.0	Lat 1 BHL

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
Lat 1 BHL - hit/miss target - Shape - Point			2870	-1366	-6487	+1179103	+2444877	37.14300029° N	107.40456567° W	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
3917	2563	-3967	Target Coal	0.0	0.0

Checked By:	Approved By:	Date:
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