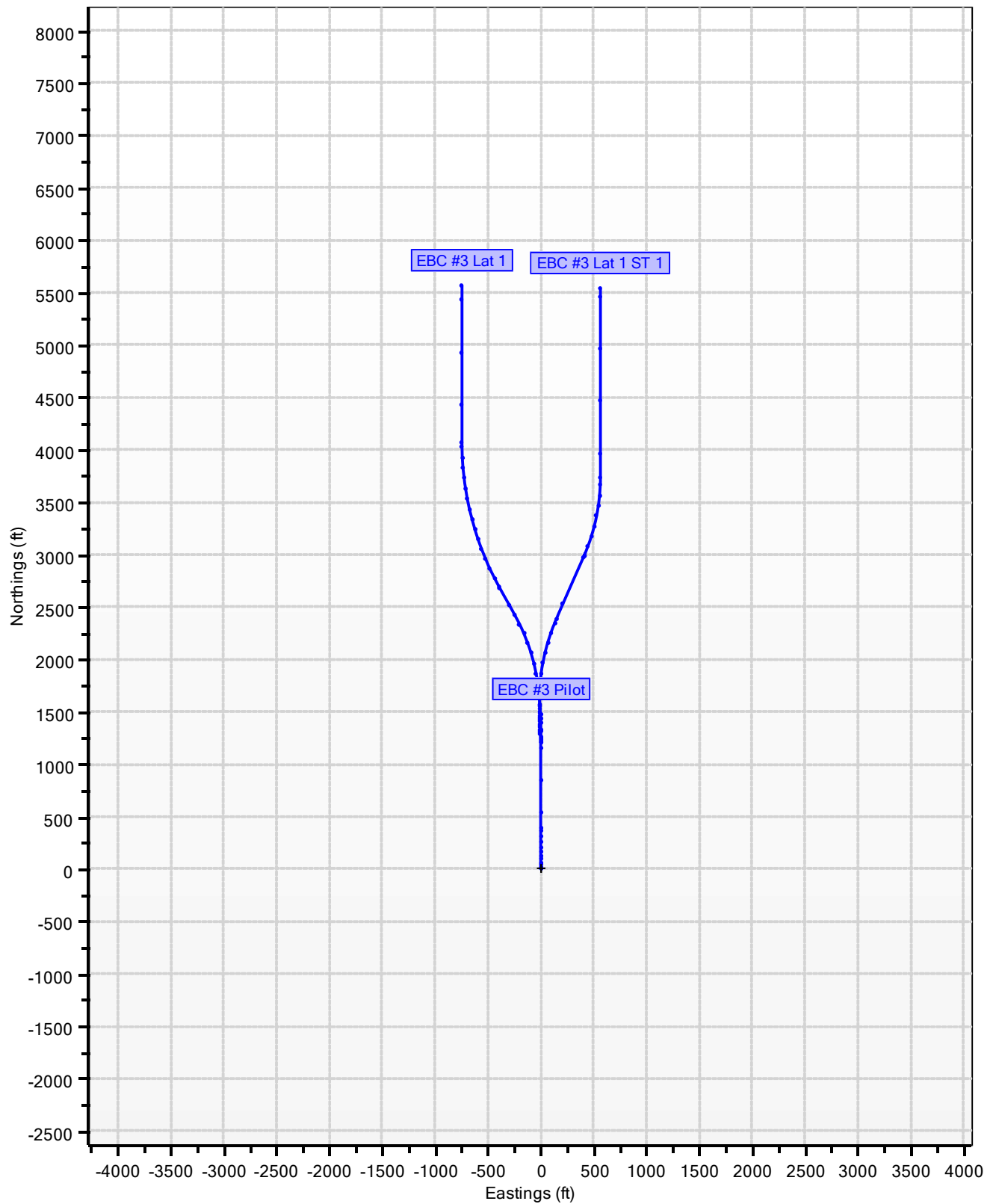


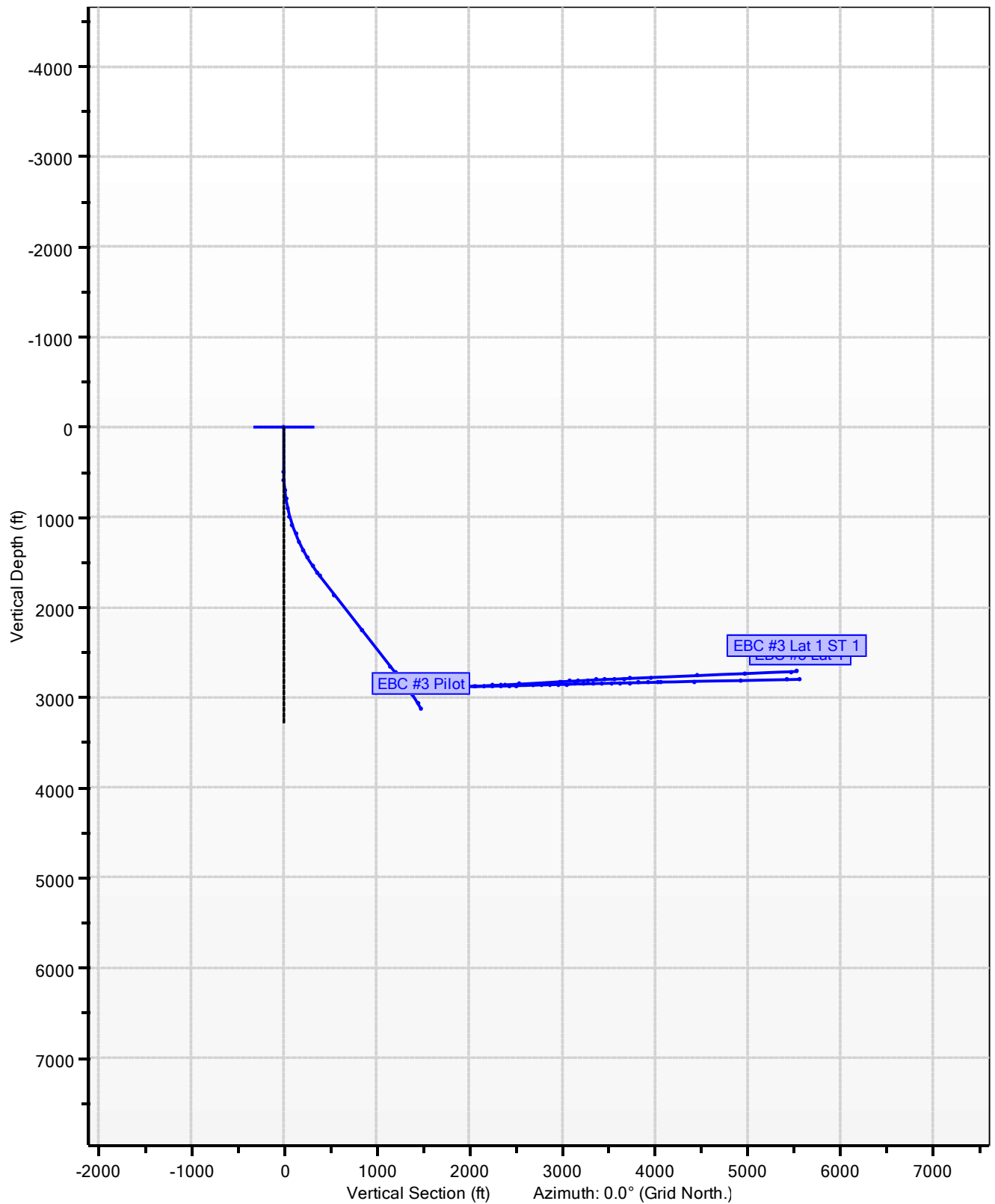
**East Bull Creek Well
EBC Pad 3
EBC #3
EBC #3 Lat 1 ST 1**

**Catamount Energy Partners
Proposal Report**

EBC Pad 3, EBC #3



EBC Pad 3, EBC #3



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #3
Company:		TVD Reference:	EBC #3
Project:	East Bull Creek Well	MD Reference:	EBC #3
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 Lat 1 ST 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 3			
Site Position:		Northing:	0	Latitude: 33.48902771° N
From:	Map	Easting:	0	Longitude: 115.33027986° W
Position Uncertainty:	6946ft	Slot Radius:	0in	Grid Convergence: -6.0°

Well	EBC #3			
Well Position:	+N/-S	1187929ft	Northing:	+1187929
	+E/-W	2445899ft	Easting:	+2445899
Position Uncertainty:		1ft	Wellhead Elevation:	6946ft
			Latitude:	37.16729209° N
			Longitude:	107.40167666° W
			Ground Level:	6930ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/9/2018	0.0	0.0	0.0

Proposal	EBC #3 Lat 1 ST 1		
Audit Notes:			
Version:	Phase:	Tie On Depth:	3496ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	5.8

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
3496	90.1	358.2	2886	1563	-9					
4348	93.0	23.6	2862	2392	151	3.0	0.3	3.0	83.3	
4986	93.0	23.6	2829	2976	406	0.0	0.0	0.0	0.0	
5772	92.5	0.0	2791	3739	565	3.0	-0.1	-3.0	-90.7	
7572	92.5	0.0	2713	5537	565	0.0	0.0	0.0	0.0	EBC 3 Lat 1 ST 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	-6946	0	0	0	0	0.0	0.0	
100	0.0	0.0	100	-6846	0	0	0	0	0.0	0.0	
200	0.0	0.0	200	-6746	0	0	0	0	0.0	0.0	
300	0.0	0.0	300	-6646	0	0	0	0	0.0	0.0	
400	0.0	0.0	400	-6546	0	0	0	0	0.0	0.0	
500	0.0	0.0	500	-6446	0	0	0	0	0.0	0.0	
510	0.3	0.0	510	-6436	0	0	0	0	0.0	3.0	
540	1.2	0.0	540	-6406	0	0	0	0	0.0	3.0	
570	2.1	0.0	570	-6376	1	0	1	1	0.0	3.0	
600	3.0	0.0	600	-6346	3	0	3	3	0.0	3.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #3
Company:		TVD Reference:	EBC #3
Project:	East Bull Creek Well	MD Reference:	EBC #3
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 Lat 1 ST 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
630	3.9	0.0	630	-6316	4	0	4	4	0.0	3.0	
660	4.8	0.0	660	-6286	7	0	7	7	0.0	3.0	
690	5.7	0.0	690	-6256	9	0	9	9	0.0	3.0	
720	6.6	0.0	720	-6226	13	0	13	13	0.0	3.0	
750	7.5	0.0	749	-6197	16	0	16	16	0.0	3.0	
780	8.4	0.0	779	-6167	20	0	20	20	0.0	3.0	
810	9.3	0.0	809	-6137	25	0	25	25	0.0	3.0	
840	10.2	0.0	838	-6108	30	0	30	30	0.0	3.0	
870	11.1	0.0	868	-6078	36	0	36	36	0.0	3.0	
900	12.0	0.0	897	-6049	42	0	42	42	0.0	3.0	
930	12.9	0.0	926	-6020	48	0	48	48	0.0	3.0	
960	13.8	0.0	956	-5990	55	0	55	55	0.0	3.0	
990	14.7	0.0	985	-5961	63	0	62	63	0.0	3.0	
1020	15.6	0.0	1014	-5932	70	0	70	70	0.0	3.0	
1050	16.5	0.0	1042	-5904	79	0	78	79	0.0	3.0	
1080	17.4	0.0	1071	-5875	87	0	87	87	0.0	3.0	
1110	18.3	0.0	1100	-5846	97	0	96	97	0.0	3.0	
1140	19.2	0.0	1128	-5818	106	0	106	106	0.0	3.0	
1170	20.1	0.0	1156	-5790	116	0	116	116	0.0	3.0	
1200	21.0	0.0	1184	-5762	127	0	126	127	0.0	3.0	
1230	21.9	0.0	1212	-5734	138	0	137	138	0.0	3.0	
1260	22.8	0.0	1240	-5706	149	0	148	149	0.0	3.0	
1290	23.7	0.0	1268	-5678	161	0	160	161	0.0	3.0	
1320	24.6	0.0	1295	-5651	173	0	172	173	0.0	3.0	
1350	25.5	0.0	1322	-5624	186	0	185	186	0.0	3.0	
1380	26.4	0.0	1349	-5597	199	0	198	199	0.0	3.0	
1410	27.3	0.0	1376	-5570	213	0	212	213	0.0	3.0	
1440	28.2	0.0	1403	-5543	227	0	226	227	0.0	3.0	
1470	29.1	0.0	1429	-5517	241	0	240	241	0.0	3.0	
1500	30.0	0.0	1455	-5491	256	0	255	256	0.0	3.0	
1530	30.9	0.0	1481	-5465	271	0	270	271	0.0	3.0	
1560	31.8	0.0	1506	-5440	287	0	285	287	0.0	3.0	
1590	32.7	0.0	1532	-5414	303	0	301	303	0.0	3.0	
1620	33.6	0.0	1557	-5389	319	0	317	319	0.0	3.0	
1650	34.5	0.0	1582	-5364	336	0	334	336	0.0	3.0	
1680	35.4	0.0	1606	-5340	353	0	351	353	0.0	3.0	
1710	36.3	0.0	1631	-5315	371	0	369	371	0.0	3.0	
1740	37.2	0.0	1655	-5291	389	0	387	389	0.0	3.0	
1741	37.2	0.0	1655	-5291	389	0	387	389	0.0	3.0	
1800	37.2	0.0	1702	-5244	425	0	423	425	0.0	0.0	
1900	37.2	0.0	1782	-5164	485	0	483	485	0.0	0.0	
2000	37.2	0.0	1862	-5084	546	0	543	546	0.0	0.0	
2100	37.2	0.0	1941	-5005	606	0	603	606	0.0	0.0	
2200	37.2	0.0	2021	-4925	667	0	663	667	0.0	0.0	
2300	37.2	0.0	2101	-4845	727	0	724	727	0.0	0.0	
2400	37.2	0.0	2180	-4766	788	0	784	788	0.0	0.0	
2500	37.2	0.0	2260	-4686	848	0	844	848	0.0	0.0	
2600	37.2	0.0	2340	-4606	909	0	904	909	0.0	0.0	
2700	37.2	0.0	2419	-4527	969	0	964	969	0.0	0.0	
2800	37.2	0.0	2499	-4447	1030	0	1024	1030	0.0	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #3
Company:		TVD Reference:	EBC #3
Project:	East Bull Creek Well	MD Reference:	EBC #3
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 Lat 1 ST 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
2900	37.2	0.0	2578	-4368	1090	0	1085	1090	0.0	0.0	
3000	37.2	0.0	2658	-4288	1151	0	1145	1151	0.0	0.0	
3090	37.2	0.0	2730	-4216	1205	0	1199	1205	0.0	0.0	
3120	41.7	359.7	2753	-4193	1224	0	1218	1224	0.0	14.9	
3150	46.2	359.4	2775	-4171	1245	0	1239	1245	0.0	14.9	
3180	50.7	359.1	2794	-4152	1267	-1	1261	1267	0.0	14.9	
3210	55.1	358.9	2813	-4133	1291	-1	1285	1291	0.0	14.9	
3240	59.6	358.7	2829	-4117	1317	-1	1310	1317	359.9	14.9	
3270	64.1	358.6	2843	-4103	1343	-2	1336	1343	359.9	14.9	
3300	68.6	358.4	2855	-4091	1371	-3	1363	1371	359.9	14.9	
3330	73.1	358.2	2865	-4081	1399	-4	1391	1399	359.9	14.9	
3360	77.5	358.1	2872	-4074	1428	-5	1420	1428	359.8	14.9	
3373	79.6	358.0	2875	-4071	1441	-5	1433	1441	359.8	14.9	
3390	81.0	358.1	2878	-4068	1457	-6	1449	1457	359.8	8.6	
3420	83.6	358.1	2882	-4064	1487	-7	1479	1487	359.7	8.6	
3450	86.2	358.1	2885	-4061	1517	-8	1508	1517	359.7	8.6	
3480	88.7	358.2	2886	-4060	1547	-8	1538	1547	359.7	8.6	
3496	90.1	358.2	2886	-4060	1563	-9	1554	1563	359.7	8.6	
3510	90.2	358.6	2886	-4060	1577	-9	1568	1577	359.7	3.0	
3540	90.3	359.5	2886	-4060	1607	-10	1598	1607	359.6	3.0	
3570	90.4	0.4	2886	-4060	1637	-10	1627	1637	359.7	3.0	
3600	90.5	1.3	2885	-4061	1667	-9	1657	1667	359.7	3.0	
3630	90.6	2.2	2885	-4061	1697	-9	1687	1697	359.7	3.0	
3660	90.7	3.1	2885	-4061	1727	-7	1717	1727	359.8	3.0	
3690	90.8	4.0	2884	-4062	1757	-5	1747	1757	359.8	3.0	
3720	90.9	4.9	2884	-4062	1787	-3	1777	1787	359.9	3.0	
3750	91.0	5.8	2883	-4063	1816	0	1807	1816	0.0	3.0	
3780	91.1	6.7	2883	-4063	1846	3	1837	1846	0.1	3.0	
3810	91.2	7.6	2882	-4064	1876	7	1867	1876	0.2	3.0	
3840	91.3	8.5	2882	-4064	1906	11	1897	1906	0.3	3.0	
3870	91.4	9.3	2881	-4065	1935	16	1927	1935	0.5	3.0	
3900	91.5	10.2	2880	-4066	1965	21	1957	1965	0.6	3.0	
3930	91.6	11.1	2879	-4067	1994	26	1987	1995	0.8	3.0	
3960	91.7	12.0	2878	-4068	2024	32	2017	2024	0.9	3.0	
3990	91.8	12.9	2877	-4069	2053	39	2046	2053	1.1	3.0	
4020	91.9	13.8	2876	-4070	2082	46	2076	2083	1.3	3.0	
4050	92.0	14.7	2875	-4071	2111	53	2106	2112	1.4	3.0	
4080	92.1	15.6	2874	-4072	2140	61	2135	2141	1.6	3.0	
4110	92.2	16.5	2873	-4073	2169	69	2165	2170	1.8	3.0	
4140	92.3	17.4	2872	-4074	2198	78	2194	2199	2.0	3.0	
4170	92.4	18.3	2871	-4075	2226	87	2224	2228	2.2	3.0	
4200	92.5	19.2	2869	-4077	2255	97	2253	2257	2.5	3.0	
4230	92.6	20.1	2868	-4078	2283	107	2282	2285	2.7	3.0	
4260	92.7	21.0	2867	-4079	2311	117	2311	2314	2.9	3.0	
4290	92.8	21.9	2865	-4081	2339	128	2340	2342	3.1	3.0	
4320	92.9	22.8	2864	-4082	2366	140	2368	2371	3.4	3.0	
4348	93.0	23.6	2862	-4084	2392	151	2395	2397	3.6	3.0	
4400	93.0	23.6	2859	-4087	2440	172	2445	2446	4.0	0.0	
4500	93.0	23.6	2854	-4092	2531	211	2540	2540	4.8	0.0	
4600	93.0	23.6	2849	-4097	2623	251	2635	2635	5.5	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #3
Company:		TVD Reference:	EBC #3
Project:	East Bull Creek Well	MD Reference:	EBC #3
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 Lat 1 ST 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
4700	93.0	23.6	2844	-4102	2714	291	2730	2730	6.1	0.0	
4800	93.0	23.6	2838	-4108	2806	331	2825	2825	6.7	0.0	
4900	93.0	23.6	2833	-4113	2897	371	2920	2921	7.3	0.0	
4986	93.0	23.6	2829	-4117	2976	406	3001	3003	7.8	0.0	
5010	93.0	22.9	2827	-4119	2998	415	3025	3027	7.9	3.0	
5040	93.0	22.0	2826	-4120	3026	427	3053	3056	8.0	3.0	
5070	93.0	21.1	2824	-4122	3054	438	3082	3085	8.2	3.0	
5100	93.0	20.2	2823	-4123	3082	448	3111	3114	8.3	3.0	
5130	93.0	19.3	2821	-4125	3110	458	3140	3143	8.4	3.0	
5160	92.9	18.4	2820	-4126	3138	468	3170	3173	8.5	3.0	
5190	92.9	17.5	2818	-4128	3167	477	3199	3202	8.6	3.0	
5220	92.9	16.6	2817	-4129	3195	486	3228	3232	8.6	3.0	
5250	92.9	15.7	2815	-4131	3224	494	3258	3262	8.7	3.0	
5280	92.9	14.8	2814	-4132	3253	502	3287	3292	8.8	3.0	
5310	92.8	13.9	2812	-4134	3282	510	3317	3321	8.8	3.0	
5340	92.8	13.0	2811	-4135	3311	516	3347	3351	8.9	3.0	
5370	92.8	12.1	2809	-4137	3341	523	3376	3381	8.9	3.0	
5400	92.8	11.2	2808	-4138	3370	529	3406	3411	8.9	3.0	
5430	92.8	10.3	2806	-4140	3399	535	3436	3441	8.9	3.0	
5460	92.7	9.4	2805	-4141	3429	540	3466	3471	8.9	3.0	
5490	92.7	8.5	2803	-4143	3458	544	3496	3501	8.9	3.0	
5520	92.7	7.6	2802	-4144	3488	548	3526	3531	8.9	3.0	
5550	92.7	6.6	2801	-4145	3518	552	3556	3561	8.9	3.0	
5580	92.6	5.7	2799	-4147	3548	555	3586	3591	8.9	3.0	
5610	92.6	4.8	2798	-4148	3577	558	3616	3621	8.9	3.0	
5640	92.6	3.9	2796	-4150	3607	560	3646	3651	8.8	3.0	
5670	92.6	3.0	2795	-4151	3637	562	3676	3680	8.8	3.0	
5700	92.5	2.1	2794	-4152	3667	564	3705	3710	8.7	3.0	
5730	92.5	1.2	2792	-4154	3697	565	3735	3740	8.7	3.0	
5760	92.5	0.3	2791	-4155	3727	565	3765	3770	8.6	3.0	
5772	92.5	0.0	2791	-4155	3739	565	3777	3781	8.6	3.0	
5800	92.5	0.0	2789	-4157	3767	565	3805	3809	8.5	0.0	
5900	92.5	0.0	2785	-4161	3867	565	3904	3908	8.3	0.0	
6000	92.5	0.0	2781	-4165	3967	565	4004	4007	8.1	0.0	
6100	92.5	0.0	2776	-4170	4067	565	4103	4106	7.9	0.0	
6200	92.5	0.0	2772	-4174	4167	565	4203	4205	7.7	0.0	
6300	92.5	0.0	2768	-4178	4267	565	4302	4304	7.5	0.0	
6400	92.5	0.0	2764	-4182	4367	565	4401	4403	7.4	0.0	
6500	92.5	0.0	2759	-4187	4466	565	4501	4502	7.2	0.0	
6600	92.5	0.0	2755	-4191	4566	565	4600	4601	7.1	0.0	
6700	92.5	0.0	2751	-4195	4666	565	4700	4700	6.9	0.0	
6800	92.5	0.0	2746	-4200	4766	565	4799	4800	6.8	0.0	
6900	92.5	0.0	2742	-4204	4866	565	4898	4899	6.6	0.0	
7000	92.5	0.0	2738	-4208	4966	565	4998	4998	6.5	0.0	
7100	92.5	0.0	2733	-4213	5066	565	5097	5097	6.4	0.0	
7200	92.5	0.0	2729	-4217	5166	565	5196	5197	6.2	0.0	
7300	92.5	0.0	2725	-4221	5266	565	5296	5296	6.1	0.0	
7400	92.5	0.0	2721	-4225	5366	565	5395	5395	6.0	0.0	
7500	92.5	0.0	2716	-4230	5466	565	5495	5495	5.9	0.0	
7572	92.5	0.0	2713	-4233	5537	565	5566	5566	5.8	0.0	EBC 3 Lat 1 ST 1 BHL

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #3
Company:		TVD Reference:	EBC #3
Project:	East Bull Creek Well	MD Reference:	EBC #3
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 Lat 1 ST 1		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
-hit/miss target									
-Shape									
EBC 3 Lat 1 ST 1 BHL			2713	5537	565	+1193466	+2446464	37.18252730° N	107.40012461° W
- proposal hits the target center									
- Point									

Checked By:	Approved By:	Date:
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