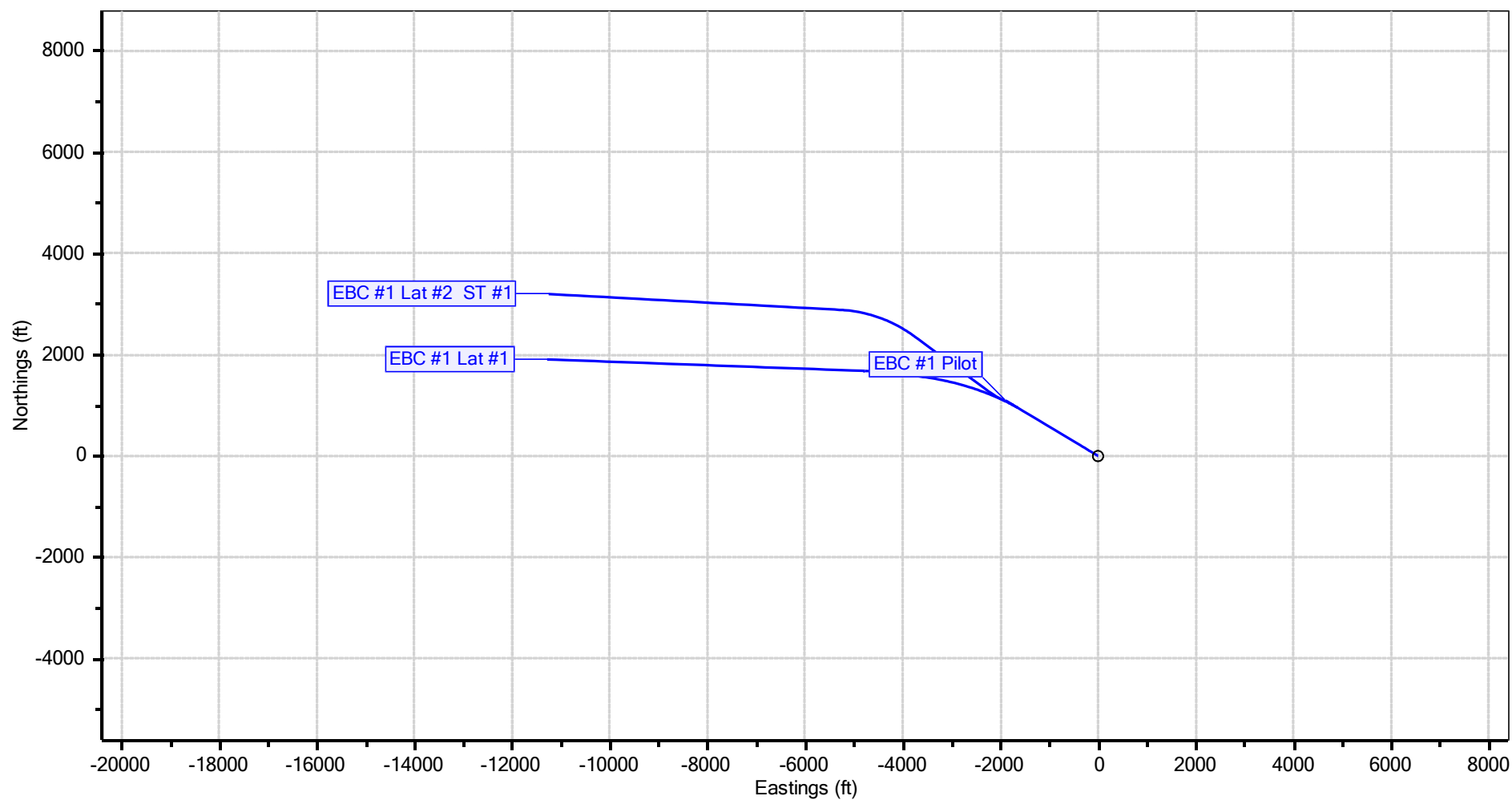


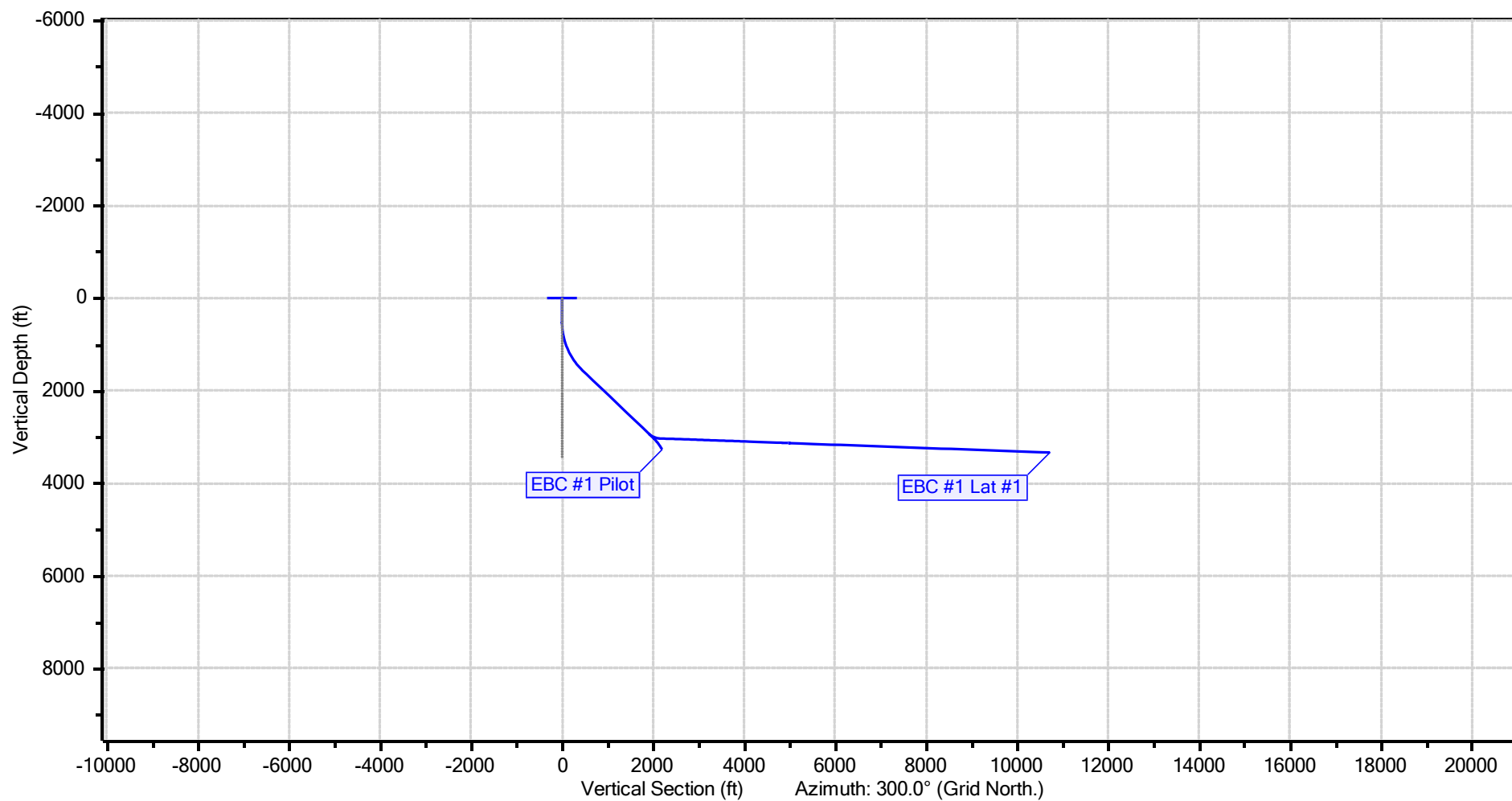
**East Bull Creek Well  
EBC Pad 3  
EBC #1  
EBC #1 Lat #1**

## **Catamount Energy Partners Proposal Report**

EBC Pad 3, EBC #1



EBC Pad 3, EBC #1



# Catamount Energy Partners

## Proposal Report



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

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

Site	EBC Pad 3				
Site Position:		Northing:	0 N	Latitude:	33.48902771° N
From:	Map	Easting:	0 E	Longitude:	115.33027986° W
Position Uncertainty:	6946ft	Slot Radius:	0in	Grid Convergence:	-6.0°

Well	EBC #1					
Well Position:	+N/-S	1187928ft	Northing:	1187928 N	Latitude:	37.16728690° N
	+E/-W	2445854ft	Easting:	2445854 E	Longitude:	107.40183110° W
Position Uncertainty:		1ft	Wellhead Elevation:	6946ft	Ground Level:	6930ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	3/1/2018	0.0	0.0	0.0

Proposal	EBC #1 Lat #1			
Audit Notes:				
Version:		Phase:		Tie On Depth: 3684ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	279.6

Survey Program		1/23/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	3727	EBC #1 Pilot	MWD	MWD	
3727	13463	EBC #1 Lat #1	MWD	MWD	

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
3684	46.8	300.0	2928	953	-1651					
3961	88.1	295.0	3032	1067	-1873	15.0	14.9	-1.8	-7.6	
5866	88.1	275.9	3096	1573	-3700	1.0	0.0	-1.0	-90.3	
6766	88.1	275.9	3125	1666	-4595	0.0	0.0	0.0	0.0	
6963	88.2	272.0	3132	1679	-4791	2.0	0.0	-2.0	-88.7	
13463	88.2	272.0	3336	1906	-11284	0.0	0.0	0.0	0.0	

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	MWD
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	

# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #1
<b>Company:</b>		<b>TVD Reference:</b>	EBC #1
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #1
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #1 Lat #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
500	0.0	0.0	500	-6446	0	0	0	0	0.0	0.0	
520	0.0	0.0	520	-6426	0	0	0	0	0.0	0.0	
540	0.8	300.0	540	-6406	0	0	0	0	300.0	4.0	
570	2.0	300.0	570	-6376	0	-1	1	1	300.0	4.0	
600	3.2	300.0	600	-6346	1	-2	2	2	300.0	4.0	
630	4.4	300.0	630	-6316	2	-4	4	4	300.0	4.0	
660	5.6	300.0	660	-6286	3	-6	6	7	300.0	4.0	
690	6.8	300.0	690	-6256	5	-9	9	10	300.0	4.0	
720	8.0	300.0	719	-6227	7	-12	13	14	300.0	4.0	
750	9.2	300.0	749	-6197	9	-16	17	18	300.0	4.0	
780	10.4	300.0	779	-6167	12	-20	22	24	300.0	4.0	
810	11.6	300.0	808	-6138	15	-25	27	29	300.0	4.0	
840	12.8	300.0	837	-6109	18	-31	33	36	300.0	4.0	
870	14.0	300.0	867	-6079	21	-37	40	43	300.0	4.0	
900	15.2	300.0	896	-6050	25	-43	47	50	300.0	4.0	
930	16.4	300.0	924	-6022	29	-50	55	58	300.0	4.0	
960	17.6	300.0	953	-5993	34	-58	63	67	300.0	4.0	
990	18.8	300.0	982	-5964	38	-66	72	76	300.0	4.0	
1020	20.0	300.0	1010	-5936	43	-75	81	86	300.0	4.0	
1050	21.2	300.0	1038	-5908	48	-84	91	97	300.0	4.0	
1080	22.4	300.0	1066	-5880	54	-94	101	108	300.0	4.0	
1110	23.6	300.0	1093	-5853	60	-104	112	120	300.0	4.0	
1140	24.8	300.0	1121	-5825	66	-114	124	132	300.0	4.0	
1170	26.0	300.0	1148	-5798	72	-126	136	145	300.0	4.0	
1200	27.2	300.0	1175	-5771	79	-137	148	158	300.0	4.0	
1230	28.4	300.0	1201	-5745	86	-149	162	172	300.0	4.0	
1260	29.6	300.0	1228	-5718	93	-162	175	187	300.0	4.0	
1290	30.8	300.0	1253	-5693	101	-175	189	202	300.0	4.0	
1320	32.0	300.0	1279	-5667	109	-188	204	218	300.0	4.0	
1350	33.2	300.0	1304	-5642	117	-202	219	234	300.0	4.0	
1380	34.4	300.0	1329	-5617	125	-217	235	251	300.0	4.0	
1410	35.6	300.0	1354	-5592	134	-232	251	268	300.0	4.0	
1440	36.8	300.0	1378	-5568	143	-247	268	285	300.0	4.0	
1470	38.0	300.0	1402	-5544	152	-263	285	304	300.0	4.0	
1500	39.2	300.0	1425	-5521	161	-279	302	322	300.0	4.0	
1530	40.4	300.0	1448	-5498	171	-296	320	342	300.0	4.0	
1560	41.6	300.0	1471	-5475	181	-313	339	361	300.0	4.0	
1590	42.8	300.0	1493	-5453	191	-330	357	381	300.0	4.0	
1620	44.0	300.0	1515	-5431	201	-348	377	402	300.0	4.0	
1650	45.2	300.0	1536	-5410	212	-366	397	423	300.0	4.0	
1680	46.4	300.0	1557	-5389	222	-385	417	445	300.0	4.0	
1691	46.8	300.0	1565	-5381	226	-392	424	453	300.0	4.0	
1700	46.8	300.0	1571	-5375	230	-398	430	459	300.0	0.0	
1800	46.8	300.0	1639	-5307	266	-461	499	532	300.0	0.0	
1900	46.8	300.0	1708	-5238	303	-524	567	605	300.0	0.0	
2000	46.8	300.0	1776	-5170	339	-587	635	678	300.0	0.0	
2100	46.8	300.0	1845	-5101	375	-650	704	751	300.0	0.0	
2200	46.8	300.0	1913	-5033	412	-713	772	824	300.0	0.0	
2300	46.8	300.0	1981	-4965	448	-777	840	897	300.0	0.0	
2400	46.8	300.0	2050	-4896	485	-840	909	970	300.0	0.0	

# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #1
<b>Company:</b>		<b>TVD Reference:</b>	EBC #1
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #1
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #1 Lat #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
2500	46.8	300.0	2118	-4828	521	-903	977	1043	300.0	0.0	
2600	46.8	300.0	2187	-4759	558	-966	1046	1116	300.0	0.0	
2700	46.8	300.0	2255	-4691	594	-1029	1114	1189	300.0	0.0	
2800	46.8	300.0	2323	-4623	631	-1092	1182	1262	300.0	0.0	
2900	46.8	300.0	2392	-4554	667	-1156	1251	1334	300.0	0.0	
3000	46.8	300.0	2460	-4486	704	-1219	1319	1407	300.0	0.0	
3100	46.8	300.0	2529	-4417	740	-1282	1387	1480	300.0	0.0	
3200	46.8	300.0	2597	-4349	777	-1345	1456	1553	300.0	0.0	
3300	46.8	300.0	2666	-4280	813	-1408	1524	1626	300.0	0.0	
3400	46.8	300.0	2734	-4212	850	-1472	1592	1699	300.0	0.0	
3500	46.8	300.0	2802	-4144	886	-1535	1661	1772	300.0	0.0	
3600	46.8	300.0	2871	-4075	923	-1598	1729	1845	300.0	0.0	
3684	46.8	300.0	2928	-4018	953	-1651	1787	1906	300.0	0.0	
3690	47.7	299.8	2932	-4014	955	-1655	1791	1911	300.0	15.0	
3720	52.2	299.1	2952	-3994	967	-1675	1812	1934	300.0	15.0	
3727	53.3	298.9	2956	-3990	970	-1680	1818	1940	300.0	15.0	MWD
3750	56.7	298.5	2969	-3977	978	-1696	1835	1958	300.0	15.0	
3780	61.1	297.9	2984	-3962	991	-1719	1860	1984	300.0	15.0	
3810	65.6	297.3	2998	-3948	1003	-1743	1885	2011	299.9	15.0	
3840	70.1	296.8	3009	-3937	1016	-1767	1912	2038	299.9	15.0	
3870	74.6	296.3	3018	-3928	1028	-1793	1939	2067	299.8	15.0	
3900	79.0	295.9	3025	-3921	1041	-1819	1967	2096	299.8	15.0	
3930	83.5	295.4	3030	-3916	1054	-1846	1996	2126	299.7	15.0	
3960	88.0	295.0	3032	-3914	1067	-1873	2024	2155	299.7	15.0	
3961	88.1	295.0	3032	-3914	1067	-1873	2025	2156	299.7	15.0	
4000	88.1	294.6	3033	-3913	1084	-1909	2063	2195	299.6	1.0	
4100	88.1	293.6	3037	-3909	1124	-2000	2160	2295	299.3	1.0	
4200	88.1	292.6	3040	-3906	1164	-2092	2257	2394	299.1	1.0	
4300	88.1	291.6	3043	-3903	1201	-2185	2354	2493	298.8	1.0	
4400	88.1	290.6	3047	-3899	1237	-2278	2452	2592	298.5	1.0	
4500	88.1	289.6	3050	-3896	1272	-2372	2551	2691	298.2	1.0	
4600	88.1	288.6	3053	-3893	1304	-2466	2649	2790	297.9	1.0	
4700	88.1	287.6	3057	-3889	1335	-2561	2748	2889	297.5	1.0	
4800	88.1	286.6	3060	-3886	1365	-2657	2847	2987	297.2	1.0	
4900	88.1	285.6	3063	-3883	1392	-2753	2946	3085	296.8	1.0	
5000	88.1	284.6	3067	-3879	1418	-2849	3046	3183	296.5	1.0	
5100	88.1	283.6	3070	-3876	1443	-2946	3145	3281	296.1	1.0	
5200	88.1	282.6	3073	-3873	1465	-3044	3245	3378	295.7	1.0	
5300	88.1	281.6	3077	-3869	1486	-3141	3345	3475	295.3	1.0	
5400	88.1	280.6	3080	-3866	1506	-3239	3445	3572	294.9	1.0	
5500	88.1	279.6	3083	-3863	1523	-3338	3545	3669	294.5	1.0	
5600	88.1	278.6	3087	-3859	1539	-3437	3645	3765	294.1	1.0	
5700	88.1	277.6	3090	-3856	1553	-3536	3745	3862	293.7	1.0	
5800	88.1	276.6	3093	-3853	1565	-3635	3845	3957	293.3	1.0	
5866	88.1	275.9	3096	-3850	1573	-3700	3911	4021	293.0	1.0	
5900	88.1	275.9	3097	-3849	1576	-3734	3944	4053	292.9	0.0	
6000	88.1	275.9	3100	-3846	1586	-3833	4044	4149	292.5	0.0	
6100	88.1	275.9	3103	-3843	1597	-3933	4144	4245	292.1	0.0	
6200	88.1	275.9	3107	-3839	1607	-4032	4244	4341	291.7	0.0	
6300	88.1	275.9	3110	-3836	1617	-4132	4343	4437	291.4	0.0	

# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #1
<b>Company:</b>		<b>TVD Reference:</b>	EBC #1
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #1
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #1 Lat #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
6400	88.1	275.9	3113	-3833	1628	-4231	4443	4533	291.0	0.0	
6500	88.1	275.9	3117	-3829	1638	-4331	4543	4630	290.7	0.0	
6600	88.1	275.9	3120	-3826	1648	-4430	4643	4727	290.4	0.0	
6700	88.1	275.9	3123	-3823	1659	-4529	4742	4824	290.1	0.0	
6766	88.1	275.9	3125	-3821	1666	-4595	4808	4888	289.9	0.0	
6800	88.1	275.3	3127	-3819	1669	-4629	4842	4920	289.8	2.0	
6900	88.2	273.3	3130	-3816	1676	-4728	4942	5017	289.5	2.0	
6963	88.2	272.0	3132	-3814	1679	-4791	5004	5077	289.3	2.0	
7000	88.2	272.0	3133	-3813	1681	-4828	5041	5112	289.2	0.0	
7100	88.2	272.0	3136	-3810	1684	-4928	5140	5208	288.9	0.0	
7200	88.2	272.0	3139	-3807	1688	-5028	5239	5304	288.6	0.0	
7300	88.2	272.0	3142	-3804	1691	-5128	5338	5400	288.3	0.0	
7400	88.2	272.0	3145	-3801	1695	-5228	5437	5496	288.0	0.0	
7500	88.2	272.0	3149	-3797	1698	-5328	5536	5592	287.7	0.0	
7600	88.2	272.0	3152	-3794	1701	-5428	5635	5688	287.4	0.0	
7700	88.2	272.0	3155	-3791	1705	-5528	5734	5784	287.1	0.0	
7800	88.2	272.0	3158	-3788	1708	-5627	5833	5881	286.9	0.0	
7900	88.2	272.0	3161	-3785	1712	-5727	5932	5978	286.6	0.0	
8000	88.2	272.0	3164	-3782	1715	-5827	6032	6074	286.4	0.0	
8100	88.2	272.0	3167	-3779	1719	-5927	6131	6171	286.2	0.0	
8200	88.2	272.0	3171	-3775	1722	-6027	6230	6268	285.9	0.0	
8300	88.2	272.0	3174	-3772	1726	-6127	6329	6365	285.7	0.0	
8400	88.2	272.0	3177	-3769	1729	-6227	6428	6462	285.5	0.0	
8500	88.2	272.0	3180	-3766	1733	-6327	6527	6560	285.3	0.0	
8600	88.2	272.0	3183	-3763	1736	-6427	6626	6657	285.1	0.0	
8700	88.2	272.0	3186	-3760	1740	-6526	6725	6754	284.9	0.0	
8800	88.2	272.0	3189	-3757	1743	-6626	6824	6852	284.7	0.0	
8900	88.2	272.0	3193	-3753	1747	-6726	6923	6949	284.6	0.0	
9000	88.2	272.0	3196	-3750	1750	-6826	7022	7047	284.4	0.0	
9100	88.2	272.0	3199	-3747	1754	-6926	7121	7145	284.2	0.0	
9200	88.2	272.0	3202	-3744	1757	-7026	7220	7242	284.0	0.0	
9300	88.2	272.0	3205	-3741	1761	-7126	7319	7340	283.9	0.0	
9400	88.2	272.0	3208	-3738	1764	-7226	7419	7438	283.7	0.0	
9500	88.2	272.0	3211	-3735	1768	-7326	7518	7536	283.6	0.0	
9600	88.2	272.0	3215	-3731	1771	-7425	7617	7634	283.4	0.0	
9700	88.2	272.0	3218	-3728	1775	-7525	7716	7732	283.3	0.0	
9800	88.2	272.0	3221	-3725	1778	-7625	7815	7830	283.1	0.0	
9900	88.2	272.0	3224	-3722	1782	-7725	7914	7928	283.0	0.0	
10000	88.2	272.0	3227	-3719	1785	-7825	8013	8026	282.9	0.0	
10100	88.2	272.0	3230	-3716	1789	-7925	8112	8124	282.7	0.0	
10200	88.2	272.0	3233	-3713	1792	-8025	8211	8222	282.6	0.0	
10300	88.2	272.0	3237	-3709	1796	-8125	8310	8321	282.5	0.0	
10400	88.2	272.0	3240	-3706	1799	-8225	8409	8419	282.3	0.0	
10500	88.2	272.0	3243	-3703	1803	-8324	8508	8517	282.2	0.0	
10600	88.2	272.0	3246	-3700	1806	-8424	8607	8616	282.1	0.0	
10700	88.2	272.0	3249	-3697	1810	-8524	8707	8714	282.0	0.0	
10800	88.2	272.0	3252	-3694	1813	-8624	8806	8813	281.9	0.0	
10900	88.2	272.0	3255	-3691	1817	-8724	8905	8911	281.8	0.0	
11000	88.2	272.0	3259	-3687	1820	-8824	9004	9010	281.7	0.0	
11100	88.2	272.0	3262	-3684	1824	-8924	9103	9108	281.5	0.0	

# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #1
<b>Company:</b>		<b>TVD Reference:</b>	EBC #1
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #1
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #1 Lat #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
11200	88.2	272.0	3265	-3681	1827	-9024	9202	9207	281.4	0.0	
11300	88.2	272.0	3268	-3678	1831	-9124	9301	9305	281.3	0.0	
11400	88.2	272.0	3271	-3675	1834	-9223	9400	9404	281.2	0.0	
11500	88.2	272.0	3274	-3672	1838	-9323	9499	9503	281.1	0.0	
11600	88.2	272.0	3277	-3669	1841	-9423	9598	9601	281.1	0.0	
11700	88.2	272.0	3281	-3665	1845	-9523	9697	9700	281.0	0.0	
11800	88.2	272.0	3284	-3662	1848	-9623	9796	9799	280.9	0.0	
11900	88.2	272.0	3287	-3659	1851	-9723	9895	9898	280.8	0.0	
12000	88.2	272.0	3290	-3656	1855	-9823	9995	9996	280.7	0.0	
12100	88.2	272.0	3293	-3653	1858	-9923	10094	10095	280.6	0.0	
12200	88.2	272.0	3296	-3650	1862	-10023	10193	10194	280.5	0.0	
12300	88.2	272.0	3299	-3647	1865	-10122	10292	10293	280.4	0.0	
12400	88.2	272.0	3303	-3643	1869	-10222	10391	10392	280.4	0.0	
12500	88.2	272.0	3306	-3640	1872	-10322	10490	10491	280.3	0.0	
12600	88.2	272.0	3309	-3637	1876	-10422	10589	10590	280.2	0.0	
12700	88.2	272.0	3312	-3634	1879	-10522	10688	10689	280.1	0.0	
12800	88.2	272.0	3315	-3631	1883	-10622	10787	10787	280.1	0.0	
12900	88.2	272.0	3318	-3628	1886	-10722	10886	10886	280.0	0.0	
13000	88.2	272.0	3321	-3625	1890	-10822	10985	10985	279.9	0.0	
13100	88.2	272.0	3325	-3621	1893	-10922	11084	11084	279.8	0.0	
13200	88.2	272.0	3328	-3618	1897	-11021	11183	11183	279.8	0.0	
13300	88.2	272.0	3331	-3615	1900	-11121	11283	11283	279.7	0.0	
13400	88.2	272.0	3334	-3612	1904	-11221	11382	11382	279.6	0.0	
13463	88.2	272.0	3336	-3610	1906	-11284	11444	11444	279.6	0.0	

Checked By:	Approved By:	Date:
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