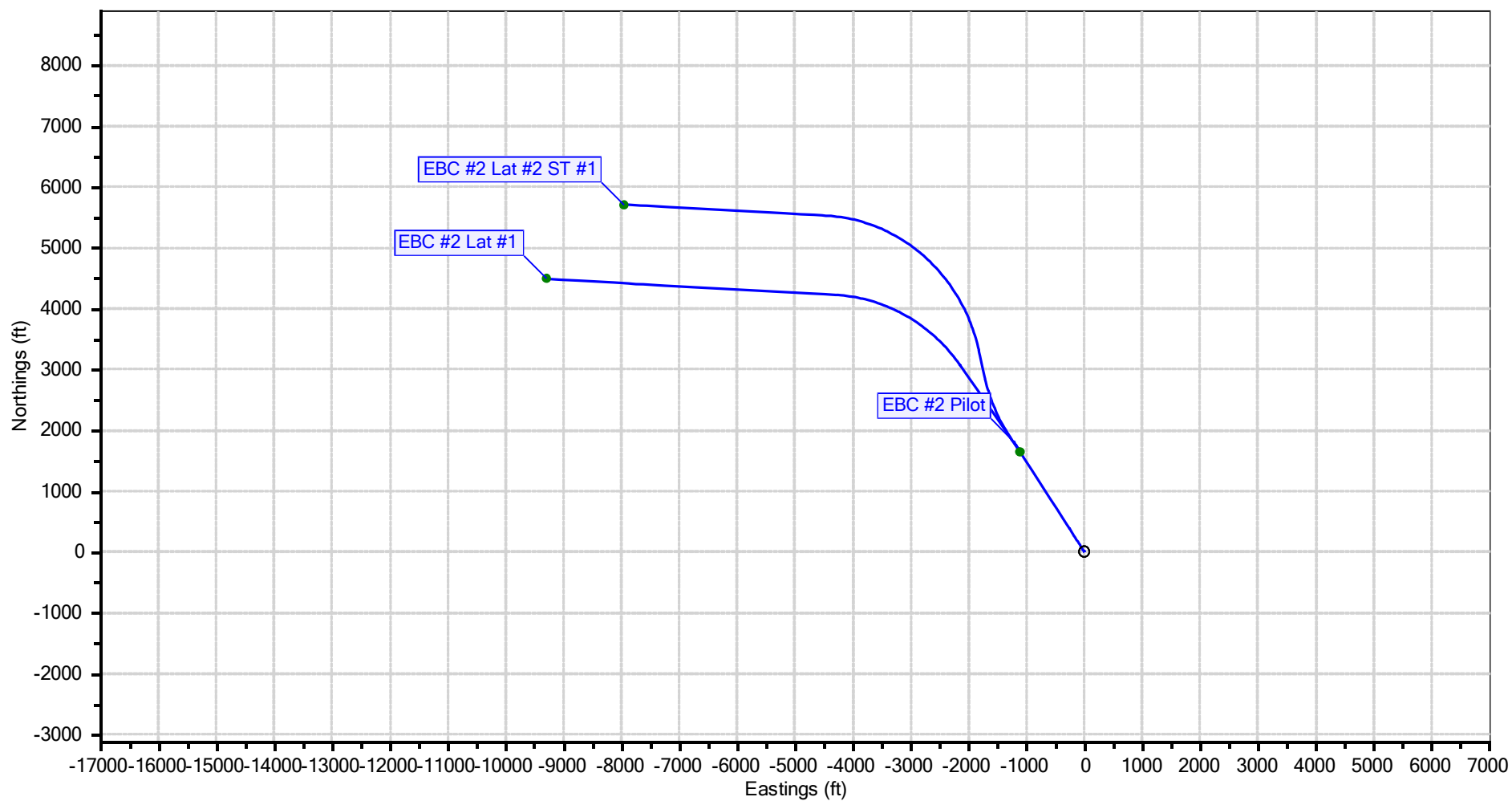


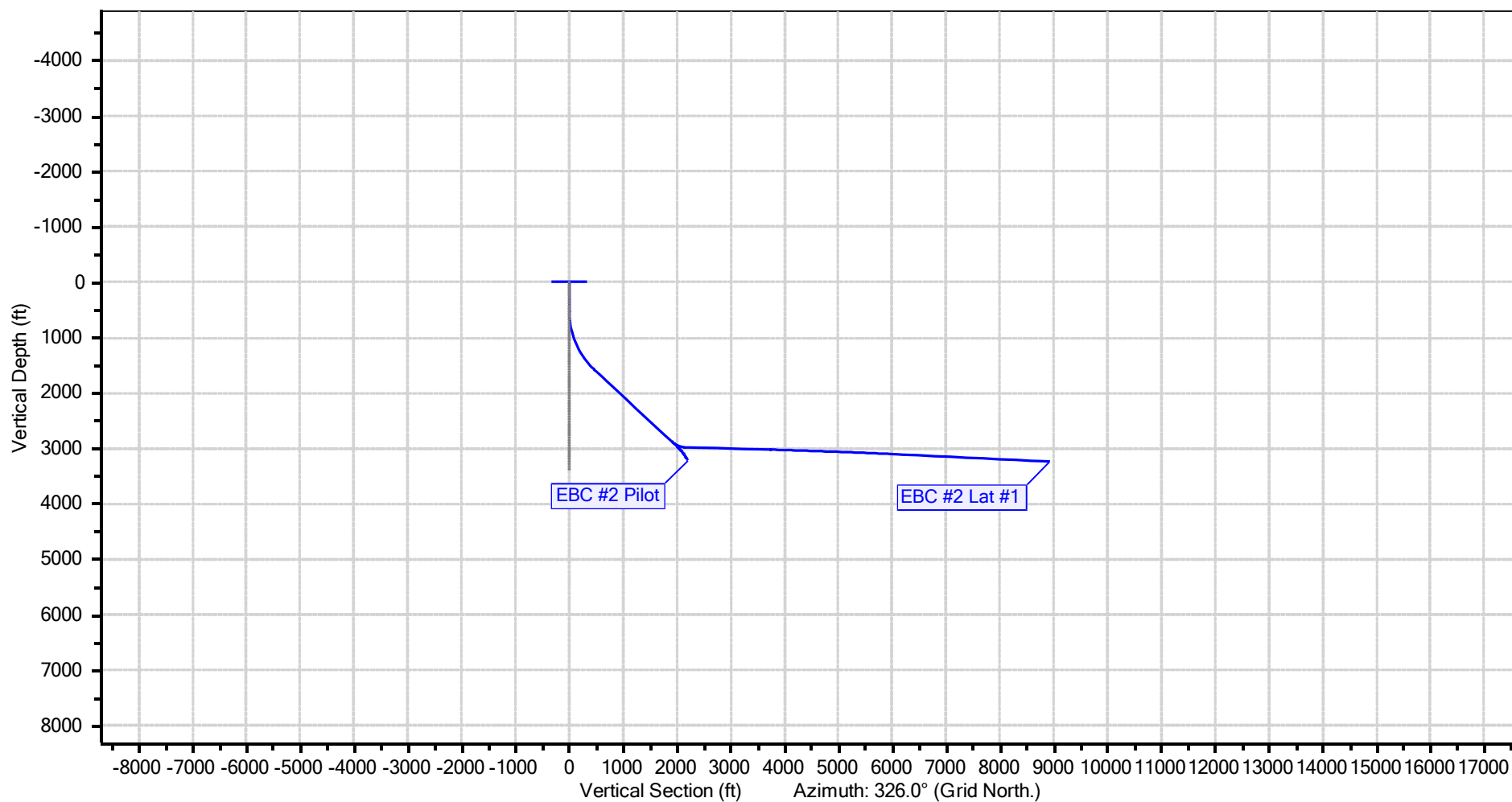
**East Bull Creek Well
EBC Pad 3
EBC #2
EBC #2 Lat #1**

Catamount Energy Partners Proposal Report

EBC Pad 3, EBC #2



EBC Pad 3, EBC #2



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #2
Company:		TVD Reference:	EBC #2
Project:	East Bull Creek Well	MD Reference:	EBC #2
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #2	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #2 Lat #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, NAD83/91,		
Map Zone:	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 #2			
Well Position:	+N/-S	1187928ft	Northing:	1187928 N
	+E/-W	2445869ft	Easting:	2445869 E
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 #2 Lat #1			
Audit Notes:				
Version:		Phase:		Tie On Depth: 3648ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	295.8

Survey Program		1/23/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	4008	EBC #2 Pilot	MWD	MWD	
4008	13040	EBC #2 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
3648	47.9	326.0	2876	1580	-1065					
3928	88.4	324.0	2978	1788	-1212	14.5	14.4	-0.7	-3.1	
3933	88.4	323.9	2978	1792	-1215	2.0	0.9	-1.8	-63.7	
5495	88.4	323.9	3021	3054	-2134	0.0	0.0	0.0	0.0	
8040	88.4	273.0	3096	4226	-4298	2.0	0.0	-2.0	-90.8	
13040	88.4	273.0	3235	4488	-9289	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



Database:	San Juan Basin	Local Coordinate Reference:	EBC #2
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Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #2	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #2 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	326.0	540	-6406	0	0	0	0	326.0	4.0	
570	2.0	326.0	570	-6376	1	0	1	1	326.0	4.0	
600	3.2	326.0	600	-6346	2	-1	2	2	326.0	4.0	
630	4.4	326.0	630	-6316	4	-2	4	4	326.0	4.0	
660	5.6	326.0	660	-6286	6	-4	6	7	326.0	4.0	
690	6.8	326.0	690	-6256	8	-6	9	10	326.0	4.0	
720	8.0	326.0	719	-6227	12	-8	12	14	326.0	4.0	
750	9.2	326.0	749	-6197	15	-10	16	18	326.0	4.0	
780	10.4	326.0	779	-6167	20	-13	20	24	326.0	4.0	
810	11.6	326.0	808	-6138	24	-16	25	29	326.0	4.0	
840	12.8	326.0	837	-6109	30	-20	31	36	326.0	4.0	
870	14.0	326.0	867	-6079	35	-24	37	43	326.0	4.0	
900	15.2	326.0	896	-6050	42	-28	43	50	326.0	4.0	
930	16.4	326.0	924	-6022	48	-33	50	58	326.0	4.0	
960	17.6	326.0	953	-5993	56	-37	58	67	326.0	4.0	
990	18.8	326.0	982	-5964	63	-43	66	76	326.0	4.0	
1020	20.0	326.0	1010	-5936	72	-48	75	86	326.0	4.0	
1050	21.2	326.0	1038	-5908	80	-54	84	97	326.0	4.0	
1080	22.4	326.0	1066	-5880	90	-60	93	108	326.0	4.0	
1110	23.6	326.0	1093	-5853	99	-67	104	120	326.0	4.0	
1140	24.8	326.0	1121	-5825	110	-74	114	132	326.0	4.0	
1170	26.0	326.0	1148	-5798	120	-81	125	145	326.0	4.0	
1200	27.2	326.0	1175	-5771	131	-89	137	158	326.0	4.0	
1230	28.4	326.0	1201	-5745	143	-96	149	172	326.0	4.0	
1260	29.6	326.0	1228	-5718	155	-105	162	187	326.0	4.0	
1290	30.8	326.0	1253	-5693	168	-113	175	202	326.0	4.0	
1320	32.0	326.0	1279	-5667	180	-122	188	218	326.0	4.0	
1350	33.2	326.0	1304	-5642	194	-131	202	234	326.0	4.0	
1380	34.4	326.0	1329	-5617	208	-140	216	251	326.0	4.0	
1410	35.6	326.0	1354	-5592	222	-150	231	268	326.0	4.0	
1440	36.8	326.0	1378	-5568	237	-160	247	285	326.0	4.0	
1470	38.0	326.0	1402	-5544	252	-170	262	304	326.0	4.0	
1500	39.2	326.0	1425	-5521	267	-180	279	322	326.0	4.0	
1530	40.4	326.0	1448	-5498	283	-191	295	342	326.0	4.0	
1560	41.6	326.0	1471	-5475	300	-202	312	361	326.0	4.0	
1590	42.8	326.0	1493	-5453	316	-213	330	381	326.0	4.0	
1620	44.0	326.0	1515	-5431	333	-225	347	402	326.0	4.0	
1650	45.2	326.0	1536	-5410	351	-237	366	423	326.0	4.0	
1680	46.4	326.0	1557	-5389	369	-249	384	445	326.0	4.0	
1710	47.6	326.0	1578	-5368	387	-261	403	467	326.0	4.0	
1719	47.9	326.0	1584	-5362	392	-264	409	473	326.0	4.0	
1800	47.9	326.0	1638	-5308	442	-298	461	533	326.0	0.0	
1900	47.9	326.0	1705	-5241	504	-340	525	608	326.0	0.0	
2000	47.9	326.0	1772	-5174	565	-381	589	682	326.0	0.0	
2100	47.9	326.0	1839	-5107	627	-423	653	756	326.0	0.0	
2200	47.9	326.0	1906	-5040	688	-464	717	830	326.0	0.0	
2300	47.9	326.0	1973	-4973	750	-506	782	905	326.0	0.0	
2400	47.9	326.0	2040	-4906	812	-547	846	979	326.0	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #2
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Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #2	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #2 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	47.9	326.0	2107	-4839	873	-589	910	1053	326.0	0.0	
2600	47.9	326.0	2174	-4772	935	-630	974	1127	326.0	0.0	
2700	47.9	326.0	2241	-4705	996	-672	1038	1202	326.0	0.0	
2800	47.9	326.0	2308	-4638	1058	-713	1102	1276	326.0	0.0	
2900	47.9	326.0	2375	-4571	1119	-755	1167	1350	326.0	0.0	
3000	47.9	326.0	2442	-4504	1181	-796	1231	1424	326.0	0.0	
3100	47.9	326.0	2509	-4437	1242	-838	1295	1499	326.0	0.0	
3200	47.9	326.0	2576	-4370	1304	-879	1359	1573	326.0	0.0	
3300	47.9	326.0	2643	-4303	1366	-921	1423	1647	326.0	0.0	
3400	47.9	326.0	2710	-4236	1427	-962	1487	1721	326.0	0.0	
3500	47.9	326.0	2777	-4169	1489	-1004	1552	1796	326.0	0.0	
3600	47.9	326.0	2844	-4102	1550	-1045	1616	1870	326.0	0.0	
3648	47.9	326.0	2876	-4070	1580	-1065	1646	1905	326.0	0.0	
3660	49.7	325.9	2884	-4062	1587	-1070	1654	1914	326.0	14.5	
3690	54.0	325.6	2902	-4044	1607	-1084	1675	1938	326.0	14.5	
3720	58.3	325.4	2919	-4027	1627	-1098	1696	1963	326.0	14.5	
3750	62.7	325.1	2934	-4012	1649	-1113	1719	1989	326.0	14.5	
3780	67.0	324.9	2947	-3999	1671	-1128	1743	2016	326.0	14.5	
3810	71.3	324.7	2957	-3989	1694	-1144	1767	2044	326.0	14.5	
3840	75.7	324.5	2966	-3980	1717	-1161	1793	2073	325.9	14.5	
3870	80.0	324.3	2972	-3974	1741	-1178	1818	2102	325.9	14.5	
3900	84.3	324.2	2976	-3970	1765	-1195	1844	2132	325.9	14.5	
3928	88.4	324.0	2978	-3968	1788	-1212	1869	2160	325.9	14.5	
3933	88.4	323.9	2978	-3968	1792	-1215	1873	2165	325.9	2.0	
4000	88.4	323.9	2980	-3966	1846	-1254	1932	2232	325.8	0.0	
4008	88.4	323.9	2980	-3966	1853	-1259	1940	2240	325.8	0.0	MWD
4100	88.4	323.9	2983	-3963	1927	-1313	2021	2332	325.7	0.0	
4200	88.4	323.9	2985	-3961	2008	-1372	2109	2432	325.7	0.0	
4300	88.4	323.9	2988	-3958	2088	-1431	2197	2532	325.6	0.0	
4400	88.4	323.9	2991	-3955	2169	-1490	2285	2632	325.5	0.0	
4500	88.4	323.9	2994	-3952	2250	-1549	2373	2731	325.5	0.0	
4600	88.4	323.9	2996	-3950	2331	-1607	2461	2831	325.4	0.0	
4700	88.4	323.9	2999	-3947	2412	-1666	2550	2931	325.4	0.0	
4800	88.4	323.9	3002	-3944	2492	-1725	2638	3031	325.3	0.0	
4900	88.4	323.9	3004	-3942	2573	-1784	2726	3131	325.3	0.0	
5000	88.4	323.9	3007	-3939	2654	-1843	2814	3231	325.2	0.0	
5100	88.4	323.9	3010	-3936	2735	-1902	2902	3331	325.2	0.0	
5200	88.4	323.9	3013	-3933	2816	-1961	2990	3431	325.1	0.0	
5300	88.4	323.9	3015	-3931	2896	-2020	3078	3531	325.1	0.0	
5400	88.4	323.9	3018	-3928	2977	-2078	3167	3631	325.1	0.0	
5495	88.4	323.9	3021	-3925	3054	-2134	3250	3726	325.0	0.0	
5500	88.4	323.8	3021	-3925	3058	-2137	3255	3731	325.0	2.0	
5600	88.4	321.8	3023	-3923	3138	-2198	3344	3831	325.0	2.0	
5700	88.4	319.8	3026	-3920	3215	-2261	3434	3930	324.9	2.0	
5800	88.4	317.8	3029	-3917	3290	-2327	3526	4030	324.7	2.0	
5900	88.3	315.8	3032	-3914	3363	-2395	3620	4129	324.5	2.0	
6000	88.3	313.8	3035	-3911	3434	-2466	3714	4227	324.3	2.0	
6100	88.3	311.8	3038	-3908	3501	-2539	3810	4325	324.0	2.0	
6200	88.3	309.8	3041	-3905	3567	-2615	3906	4423	323.8	2.0	
6300	88.3	307.8	3044	-3902	3629	-2693	4004	4519	323.4	2.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #2
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Project:	East Bull Creek Well	MD Reference:	EBC #2
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #2	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #2 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	88.3	305.8	3047	-3899	3689	-2773	4102	4615	323.1	2.0	
6500	88.3	303.8	3050	-3896	3746	-2855	4201	4710	322.7	2.0	
6600	88.3	301.8	3053	-3893	3801	-2939	4300	4804	322.3	2.0	
6700	88.3	299.8	3056	-3890	3852	-3025	4399	4898	321.9	2.0	
6800	88.3	297.8	3059	-3887	3900	-3112	4499	4990	321.4	2.0	
6900	88.3	295.8	3062	-3884	3945	-3202	4599	5081	320.9	2.0	
7000	88.3	293.8	3065	-3881	3987	-3292	4699	5171	320.4	2.0	
7100	88.3	291.8	3068	-3878	4026	-3385	4799	5259	319.9	2.0	
7200	88.3	289.8	3071	-3875	4061	-3478	4898	5347	319.4	2.0	
7300	88.3	287.8	3074	-3872	4093	-3573	4998	5433	318.9	2.0	
7400	88.3	285.8	3077	-3869	4122	-3668	5096	5518	318.3	2.0	
7500	88.3	283.8	3080	-3866	4148	-3765	5194	5602	317.8	2.0	
7600	88.3	281.8	3083	-3863	4170	-3862	5292	5684	317.2	2.0	
7700	88.3	279.8	3086	-3860	4189	-3961	5388	5765	316.6	2.0	
7800	88.3	277.8	3089	-3857	4204	-4059	5484	5844	316.0	2.0	
7900	88.4	275.8	3092	-3854	4216	-4159	5578	5922	315.4	2.0	
8000	88.4	273.8	3095	-3851	4224	-4258	5672	5998	314.8	2.0	
8040	88.4	273.0	3096	-3850	4226	-4298	5708	6028	314.5	2.0	
8100	88.4	273.0	3097	-3849	4230	-4358	5764	6073	314.1	0.0	
8200	88.4	273.0	3100	-3846	4235	-4458	5856	6149	313.5	0.0	
8300	88.4	273.0	3103	-3843	4240	-4558	5948	6225	312.9	0.0	
8400	88.4	273.0	3106	-3840	4245	-4657	6040	6302	312.3	0.0	
8500	88.4	273.0	3109	-3837	4251	-4757	6133	6380	311.8	0.0	
8600	88.4	273.0	3111	-3835	4256	-4857	6225	6458	311.2	0.0	
8700	88.4	273.0	3114	-3832	4261	-4957	6317	6537	310.7	0.0	
8800	88.4	273.0	3117	-3829	4266	-5057	6409	6616	310.2	0.0	
8900	88.4	273.0	3120	-3826	4271	-5157	6501	6696	309.6	0.0	
9000	88.4	273.0	3123	-3823	4277	-5256	6593	6776	309.1	0.0	
9100	88.4	273.0	3125	-3821	4282	-5356	6686	6857	308.6	0.0	
9200	88.4	273.0	3128	-3818	4287	-5456	6778	6939	308.2	0.0	
9300	88.4	273.0	3131	-3815	4292	-5556	6870	7021	307.7	0.0	
9400	88.4	273.0	3134	-3812	4298	-5656	6962	7103	307.2	0.0	
9500	88.4	273.0	3136	-3810	4303	-5756	7054	7186	306.8	0.0	
9600	88.4	273.0	3139	-3807	4308	-5855	7146	7269	306.3	0.0	
9700	88.4	273.0	3142	-3804	4313	-5955	7239	7353	305.9	0.0	
9800	88.4	273.0	3145	-3801	4319	-6055	7331	7437	305.5	0.0	
9900	88.4	273.0	3148	-3798	4324	-6155	7423	7522	305.1	0.0	
10000	88.4	273.0	3150	-3796	4329	-6255	7515	7607	304.7	0.0	
10100	88.4	273.0	3153	-3793	4334	-6354	7607	7692	304.3	0.0	
10200	88.4	273.0	3156	-3790	4339	-6454	7699	7777	303.9	0.0	
10300	88.4	273.0	3159	-3787	4345	-6554	7792	7863	303.5	0.0	
10400	88.4	273.0	3162	-3784	4350	-6654	7884	7950	303.2	0.0	
10500	88.4	273.0	3164	-3782	4355	-6754	7976	8036	302.8	0.0	
10600	88.4	273.0	3167	-3779	4360	-6854	8068	8123	302.5	0.0	
10700	88.4	273.0	3170	-3776	4366	-6953	8160	8210	302.1	0.0	
10800	88.4	273.0	3173	-3773	4371	-7053	8252	8298	301.8	0.0	
10900	88.4	273.0	3176	-3770	4376	-7153	8344	8385	301.5	0.0	
11000	88.4	273.0	3178	-3768	4381	-7253	8437	8473	301.1	0.0	
11100	88.4	273.0	3181	-3765	4387	-7353	8529	8562	300.8	0.0	
11200	88.4	273.0	3184	-3762	4392	-7453	8621	8650	300.5	0.0	

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Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #2	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #2 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
11300	88.4	273.0	3187	-3759	4397	-7552	8713	8739	300.2	0.0	
11400	88.4	273.0	3190	-3756	4402	-7652	8805	8828	299.9	0.0	
11500	88.4	273.0	3192	-3754	4407	-7752	8897	8917	299.6	0.0	
11600	88.4	273.0	3195	-3751	4413	-7852	8990	9007	299.3	0.0	
11700	88.4	273.0	3198	-3748	4418	-7952	9082	9097	299.1	0.0	
11800	88.4	273.0	3201	-3745	4423	-8051	9174	9186	298.8	0.0	
11900	88.4	273.0	3204	-3742	4428	-8151	9266	9277	298.5	0.0	
12000	88.4	273.0	3206	-3740	4434	-8251	9358	9367	298.3	0.0	
12100	88.4	273.0	3209	-3737	4439	-8351	9450	9457	298.0	0.0	
12200	88.4	273.0	3212	-3734	4444	-8451	9543	9548	297.7	0.0	
12300	88.4	273.0	3215	-3731	4449	-8551	9635	9639	297.5	0.0	
12400	88.4	273.0	3217	-3729	4455	-8650	9727	9730	297.2	0.0	
12500	88.4	273.0	3220	-3726	4460	-8750	9819	9821	297.0	0.0	
12600	88.4	273.0	3223	-3723	4465	-8850	9911	9913	296.8	0.0	
12700	88.4	273.0	3226	-3720	4470	-8950	10003	10004	296.5	0.0	
12800	88.4	273.0	3229	-3717	4475	-9050	10095	10096	296.3	0.0	
12900	88.4	273.0	3231	-3715	4481	-9150	10188	10188	296.1	0.0	
13000	88.4	273.0	3234	-3712	4486	-9249	10280	10280	295.9	0.0	
13040	88.4	273.0	3235	-3711	4488	-9289	10316	10316	295.8	0.0	

Targets										
Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude		Longitude
EBC 2 Lat 1 BHL - proposal does not penetrate the target plane - Circle	0.0	0.0	3296	4488	-9289	1192416 N	2436580 E	37.17908800° N		107.43396900° W

Checked By:	Approved By:	Date:
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