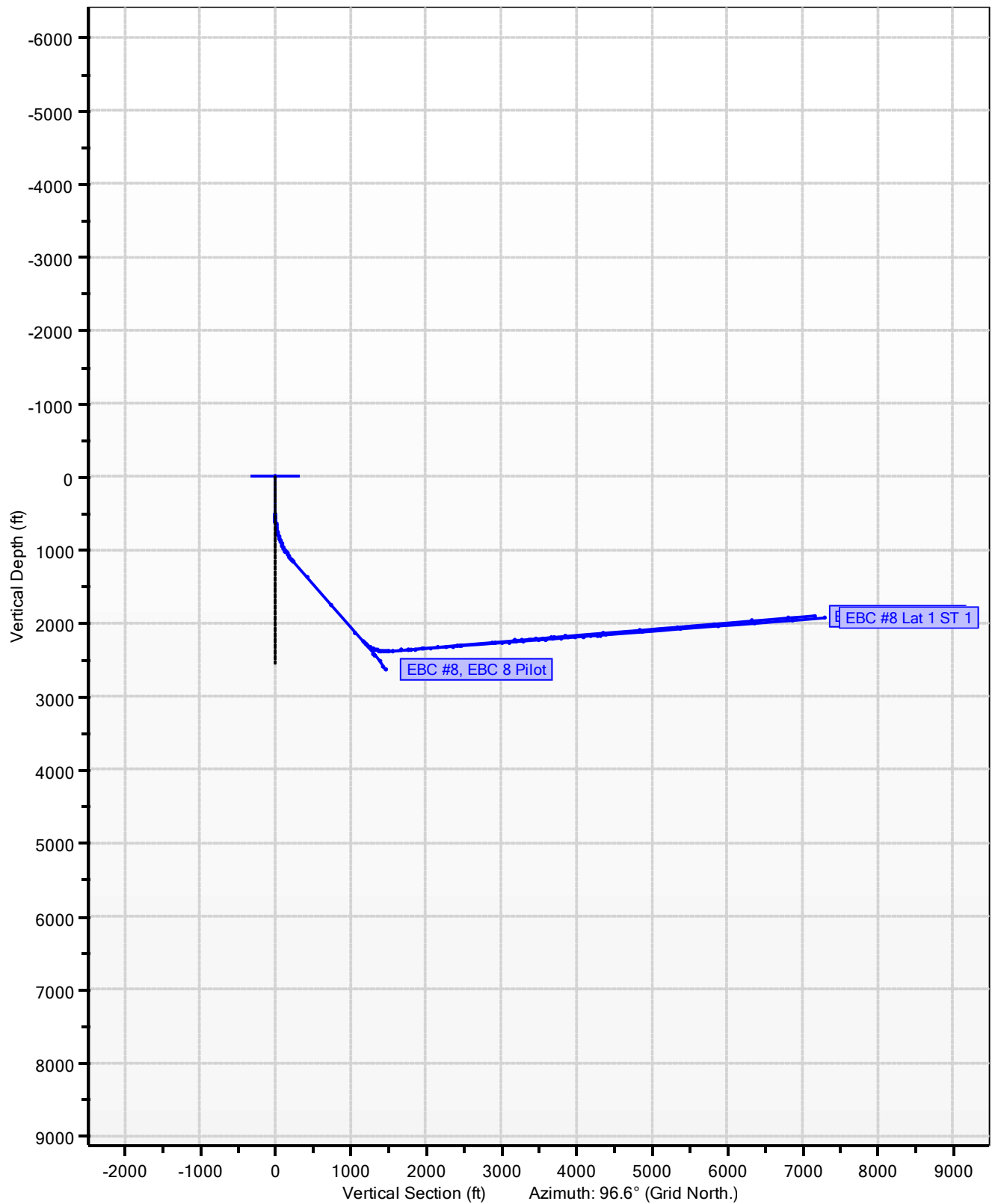


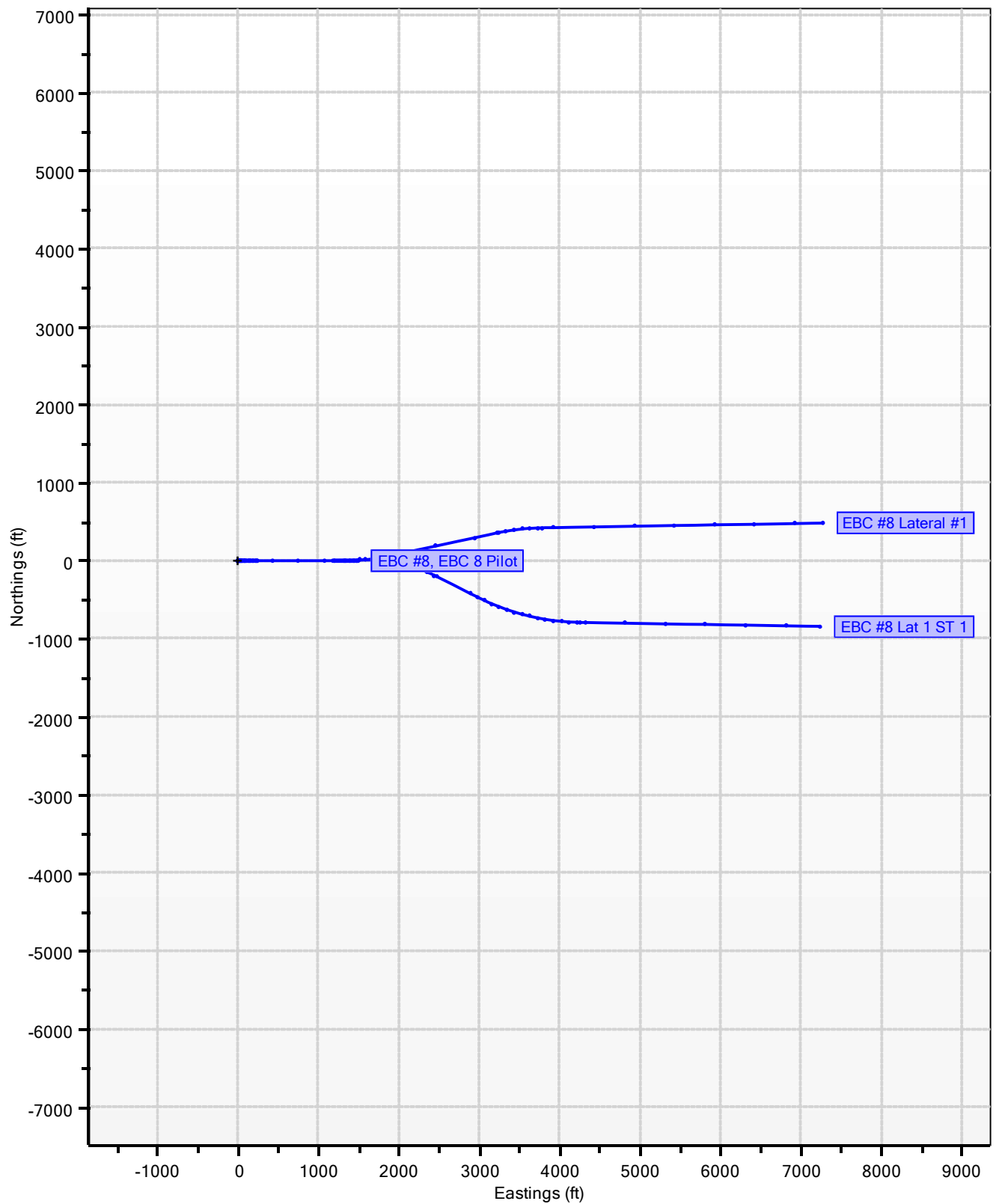
**East Bull Creek Well
EBC Pad 4
EBC #8
EBC #8 Lateral #1**

**Catamount Energy Partners
Proposal Report**

EBC Pad 4, EBC #8



EBC Pad 4, EBC #8



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #8
Company:		TVD Reference:	EBC #8
Project:	East Bull Creek Well	MD Reference:	EBC #8
Site:	EBC Pad 4	North reference:	Grid North
Well:	EBC #8	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #8 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 4		
Site Position:		Northing:	0
From:	Map	Easting:	0
Position Uncertainty:	0ft	Slot Radius:	0in
		Latitude:	33.48902771° N
		Longitude:	115.33027986° W
		Grid Convergence:	-6.0°

Well	EBC #8		
Well Position:	+N/-S	1184864ft	Northing:
	+E/-W	2448254ft	Easting:
Position Uncertainty:		1ft	Wellhead Elevation:
			6750ft
			Latitude:
			37.15900751° N
			Longitude:
			107.39338332° W
			Ground Level:
			6734ft

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

Proposal	EBC #8 Lateral #1		
Audit Notes:			
Version:		Phase:	
		Tie On Depth:	2660ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	86.2

Survey Program		3/26/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	8848	EBC 8 Pilot	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
2660	40.7	90.0	2254	0	1182					
2914	79.1	88.7	2379	3	1397	15.1	15.1	-0.5	-2.1	
3029	94.5	87.4	2385	7	1512	13.4	13.3	-1.1	-4.9	
3353	94.8	77.6	2359	49	1831	3.0	0.1	-3.0	-88.0	
4781	94.8	77.6	2241	354	3221	0.0	0.0	0.0	0.0	
5348	94.8	89.0	2193	420	3782	2.0	0.0	2.0	89.3	
8848	94.8	89.0	1900	481	7269	0.0	0.0	0.0	0.0	EBC 8 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	-6750	0	0	0	0	0.0	0.0	MWD
100	0.0	0.0	100	-6650	0	0	0	0	0.0	0.0	
200	0.0	0.0	200	-6550	0	0	0	0	0.0	0.0	
300	0.0	0.0	300	-6450	0	0	0	0	0.0	0.0	
400	0.0	0.0	400	-6350	0	0	0	0	0.0	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #8
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Site:	EBC Pad 4	North reference:	Grid North
Well:	EBC #8	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #8 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
500	0.0	0.0	500	-6250	0	0	0	0	0.0	0.0	
510	0.6	90.0	510	-6240	0	0	0	0	90.0	5.6	
540	2.2	90.0	540	-6210	0	1	1	1	90.0	5.6	
570	3.9	90.0	570	-6180	0	2	2	2	90.0	5.6	
600	5.6	90.0	600	-6150	0	5	5	5	90.0	5.6	
630	7.3	90.0	630	-6120	0	8	8	8	90.0	5.6	
660	8.9	90.0	659	-6091	0	12	12	12	90.0	5.6	
690	10.6	90.0	689	-6061	0	18	18	18	90.0	5.6	
720	12.3	90.0	718	-6032	0	24	23	24	90.0	5.6	
750	14.0	90.0	748	-6002	0	30	30	30	90.0	5.6	
780	15.7	90.0	777	-5973	0	38	38	38	90.0	5.6	
810	17.3	90.0	805	-5945	0	47	46	47	90.0	5.6	
840	19.0	90.0	834	-5916	0	56	56	56	90.0	5.6	
870	20.7	90.0	862	-5888	0	66	66	66	90.0	5.6	
900	22.4	90.0	890	-5860	0	77	77	77	90.0	5.6	
930	24.0	90.0	917	-5833	0	89	89	89	90.0	5.6	
960	25.7	90.0	945	-5805	0	102	101	102	90.0	5.6	
990	27.4	90.0	972	-5778	0	115	115	115	90.0	5.6	
1020	29.1	90.0	998	-5752	0	129	129	129	90.0	5.6	
1050	30.8	90.0	1024	-5726	0	144	144	144	90.0	5.6	
1080	32.4	90.0	1050	-5700	0	160	159	160	90.0	5.6	
1110	34.1	90.0	1075	-5675	0	176	176	176	90.0	5.6	
1140	35.8	90.0	1099	-5651	0	193	193	193	90.0	5.6	
1170	37.5	90.0	1123	-5627	0	211	211	211	90.0	5.6	
1200	39.1	90.0	1147	-5603	0	230	229	230	90.0	5.6	
1228	40.7	90.0	1168	-5582	0	248	247	248	90.0	5.6	
1300	40.7	90.0	1223	-5527	0	295	294	295	90.0	0.0	
1400	40.7	90.0	1299	-5451	0	360	359	360	90.0	0.0	
1500	40.7	90.0	1375	-5375	0	425	424	425	90.0	0.0	
1600	40.7	90.0	1450	-5300	0	490	489	490	90.0	0.0	
1700	40.7	90.0	1526	-5224	0	556	554	556	90.0	0.0	
1800	40.7	90.0	1602	-5148	0	621	620	621	90.0	0.0	
1900	40.7	90.0	1678	-5072	0	686	685	686	90.0	0.0	
2000	40.7	90.0	1754	-4996	0	751	750	751	90.0	0.0	
2100	40.7	90.0	1829	-4921	0	816	815	816	90.0	0.0	
2200	40.7	90.0	1905	-4845	0	882	880	882	90.0	0.0	
2300	40.7	90.0	1981	-4769	0	947	945	947	90.0	0.0	
2400	40.7	90.0	2057	-4693	0	1012	1010	1012	90.0	0.0	
2500	40.7	90.0	2133	-4617	0	1077	1075	1077	90.0	0.0	
2600	40.7	90.0	2209	-4541	0	1142	1140	1142	90.0	0.0	
2660	40.7	90.0	2254	-4496	0	1182	1179	1182	90.0	0.0	
2670	42.2	89.9	2262	-4488	0	1188	1186	1188	90.0	15.1	
2700	46.7	89.7	2283	-4467	0	1209	1207	1209	90.0	15.1	
2730	51.3	89.5	2303	-4447	0	1232	1229	1232	90.0	15.1	
2760	55.8	89.3	2320	-4430	0	1256	1253	1256	90.0	15.1	
2790	60.4	89.2	2336	-4414	1	1281	1279	1281	90.0	15.1	
2820	64.9	89.0	2350	-4400	1	1308	1305	1308	89.9	15.1	
2850	69.4	88.9	2362	-4388	2	1336	1333	1336	89.9	15.1	
2880	74.0	88.8	2371	-4379	2	1364	1361	1364	89.9	15.1	
2910	78.5	88.7	2378	-4372	3	1393	1390	1393	89.9	15.1	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #8
Company:		TVD Reference:	EBC #8
Project:	East Bull Creek Well	MD Reference:	EBC #8
Site:	EBC Pad 4	North reference:	Grid North
Well:	EBC #8	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #8 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
2912	78.7	88.7	2379	-4371	3	1395	1392	1395	89.9	15.1	Target Coal
2914	79.1	88.7	2379	-4371	3	1397	1394	1397	89.9	15.1	
2940	82.6	88.4	2383	-4367	4	1423	1420	1423	89.9	13.4	
2970	86.6	88.0	2386	-4364	5	1453	1450	1453	89.8	13.4	
3000	90.6	87.7	2387	-4363	6	1483	1480	1483	89.8	13.4	
3029	94.5	87.4	2385	-4365	7	1512	1509	1512	89.7	13.4	
3030	94.5	87.3	2385	-4365	7	1513	1510	1513	89.7	3.0	
3060	94.5	86.4	2383	-4367	9	1542	1540	1543	89.7	3.0	
3090	94.6	85.5	2381	-4369	11	1572	1570	1572	89.6	3.0	
3120	94.6	84.6	2378	-4372	13	1602	1600	1602	89.5	3.0	
3150	94.6	83.7	2376	-4374	16	1632	1629	1632	89.4	3.0	
3180	94.6	82.8	2373	-4377	20	1662	1659	1662	89.3	3.0	
3210	94.7	81.9	2371	-4379	24	1691	1689	1691	89.2	3.0	
3240	94.7	81.0	2369	-4381	28	1721	1719	1721	89.1	3.0	
3270	94.7	80.1	2366	-4384	33	1750	1749	1751	88.9	3.0	
3300	94.7	79.2	2364	-4386	39	1780	1778	1780	88.8	3.0	
3330	94.8	78.3	2361	-4389	44	1809	1808	1810	88.6	3.0	
3353	94.8	77.6	2359	-4391	49	1831	1831	1832	88.5	3.0	
3400	94.8	77.6	2355	-4395	59	1877	1877	1878	88.2	0.0	
3500	94.8	77.6	2347	-4403	81	1974	1976	1976	87.7	0.0	
3600	94.8	77.6	2339	-4411	102	2072	2074	2074	87.2	0.0	
3700	94.8	77.6	2330	-4420	123	2169	2173	2173	86.7	0.0	
3800	94.8	77.6	2322	-4428	145	2267	2271	2271	86.3	0.0	
3900	94.8	77.6	2314	-4436	166	2364	2370	2370	86.0	0.0	
4000	94.8	77.6	2305	-4445	187	2461	2468	2468	85.6	0.0	
4100	94.8	77.6	2297	-4453	209	2559	2567	2567	85.3	0.0	
4200	94.8	77.6	2289	-4461	230	2656	2665	2666	85.0	0.0	
4300	94.8	77.6	2281	-4469	252	2753	2764	2765	84.8	0.0	
4400	94.8	77.6	2272	-4478	273	2851	2862	2864	84.5	0.0	
4500	94.8	77.6	2264	-4486	294	2948	2961	2963	84.3	0.0	
4600	94.8	77.6	2256	-4494	316	3045	3059	3061	84.1	0.0	
4700	94.8	77.6	2247	-4503	337	3143	3158	3161	83.9	0.0	
4781	94.8	77.6	2241	-4509	354	3221	3238	3241	83.7	0.0	
4800	94.8	78.0	2239	-4511	358	3240	3256	3260	83.7	2.0	
4830	94.8	78.6	2237	-4513	364	3269	3286	3289	83.6	2.0	
4860	94.8	79.2	2234	-4516	370	3298	3316	3319	83.6	2.0	
4890	94.8	79.8	2232	-4518	376	3328	3345	3349	83.6	2.0	
4920	94.8	80.4	2229	-4521	381	3357	3375	3379	83.5	2.0	
4950	94.8	81.0	2226	-4524	386	3387	3405	3409	83.5	2.0	
4980	94.8	81.6	2224	-4526	390	3416	3435	3439	83.5	2.0	
5010	94.8	82.2	2221	-4529	394	3446	3464	3468	83.5	2.0	
5040	94.8	82.8	2219	-4531	398	3476	3494	3498	83.5	2.0	
5070	94.8	83.4	2216	-4534	402	3505	3524	3528	83.5	2.0	
5100	94.8	84.0	2214	-4536	405	3535	3554	3558	83.5	2.0	
5130	94.8	84.6	2211	-4539	408	3565	3584	3588	83.5	2.0	
5160	94.8	85.2	2209	-4541	411	3595	3614	3618	83.5	2.0	
5190	94.8	85.8	2206	-4544	413	3624	3644	3648	83.5	2.0	
5220	94.8	86.4	2204	-4546	415	3654	3674	3678	83.5	2.0	
5250	94.8	87.0	2201	-4549	417	3684	3703	3707	83.5	2.0	
5280	94.8	87.6	2199	-4551	418	3714	3733	3737	83.6	2.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #8
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Site:	EBC Pad 4	North reference:	Grid North
Well:	EBC #8	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #8 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
5310	94.8	88.2	2196	-4554	419	3744	3763	3767	83.6	2.0	
5340	94.8	88.8	2194	-4556	420	3774	3793	3797	83.6	2.0	
5348	94.8	89.0	2193	-4557	420	3782	3801	3805	83.7	2.0	
5400	94.8	89.0	2189	-4561	421	3833	3853	3856	83.7	0.0	
5500	94.8	89.0	2180	-4570	423	3933	3952	3956	83.9	0.0	
5600	94.8	89.0	2172	-4578	425	4033	4052	4055	84.0	0.0	
5700	94.8	89.0	2164	-4586	426	4132	4151	4154	84.1	0.0	
5800	94.8	89.0	2155	-4595	428	4232	4251	4254	84.2	0.0	
5900	94.8	89.0	2147	-4603	430	4332	4350	4353	84.3	0.0	
6000	94.8	89.0	2139	-4611	431	4431	4450	4452	84.4	0.0	
6100	94.8	89.0	2130	-4620	433	4531	4550	4551	84.5	0.0	
6200	94.8	89.0	2122	-4628	435	4630	4649	4651	84.6	0.0	
6300	94.8	89.0	2113	-4637	437	4730	4749	4750	84.7	0.0	
6400	94.8	89.0	2105	-4645	438	4830	4848	4850	84.8	0.0	
6500	94.8	89.0	2097	-4653	440	4929	4948	4949	84.9	0.0	
6600	94.8	89.0	2088	-4662	442	5029	5047	5048	85.0	0.0	
6700	94.8	89.0	2080	-4670	444	5129	5147	5148	85.1	0.0	
6800	94.8	89.0	2072	-4678	445	5228	5246	5247	85.1	0.0	
6900	94.8	89.0	2063	-4687	447	5328	5346	5347	85.2	0.0	
7000	94.8	89.0	2055	-4695	449	5428	5445	5446	85.3	0.0	
7100	94.8	89.0	2046	-4704	451	5527	5545	5546	85.3	0.0	
7200	94.8	89.0	2038	-4712	452	5627	5644	5645	85.4	0.0	
7300	94.8	89.0	2030	-4720	454	5726	5744	5744	85.5	0.0	
7400	94.8	89.0	2021	-4729	456	5826	5843	5844	85.5	0.0	
7500	94.8	89.0	2013	-4737	458	5926	5943	5943	85.6	0.0	
7600	94.8	89.0	2005	-4745	459	6025	6043	6043	85.6	0.0	
7700	94.8	89.0	1996	-4754	461	6125	6142	6142	85.7	0.0	
7800	94.8	89.0	1988	-4762	463	6225	6242	6242	85.7	0.0	
7900	94.8	89.0	1979	-4771	465	6324	6341	6341	85.8	0.0	
8000	94.8	89.0	1971	-4779	466	6424	6441	6441	85.8	0.0	
8100	94.8	89.0	1963	-4787	468	6524	6540	6540	85.9	0.0	
8200	94.8	89.0	1954	-4796	470	6623	6640	6640	85.9	0.0	
8300	94.8	89.0	1946	-4804	471	6723	6739	6739	86.0	0.0	
8400	94.8	89.0	1938	-4812	473	6822	6839	6839	86.0	0.0	
8500	94.8	89.0	1929	-4821	475	6922	6938	6938	86.1	0.0	
8600	94.8	89.0	1921	-4829	477	7022	7038	7038	86.1	0.0	
8700	94.8	89.0	1912	-4838	478	7121	7137	7137	86.2	0.0	
8800	94.8	89.0	1904	-4846	480	7221	7237	7237	86.2	0.0	
8848	94.8	89.0	1900	-4850	481	7269	7285	7285	86.2	0.0	EBC 8 Lat 1 BHL

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 8 Lat 1 BHL			1900	481	7269	+1185345	+2455523	37.16073022° N	107.36847858° W
- proposal hits the target center									
- Point									

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #8
Company:		TVD Reference:	EBC #8
Project:	East Bull Creek Well	MD Reference:	EBC #8
Site:	EBC Pad 4	North reference:	Grid North
Well:	EBC #8	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #8 Lateral #1		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
2912	2379	-4371	Target Coal	0.0	0.0

Checked By:	Approved By:	Date:
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