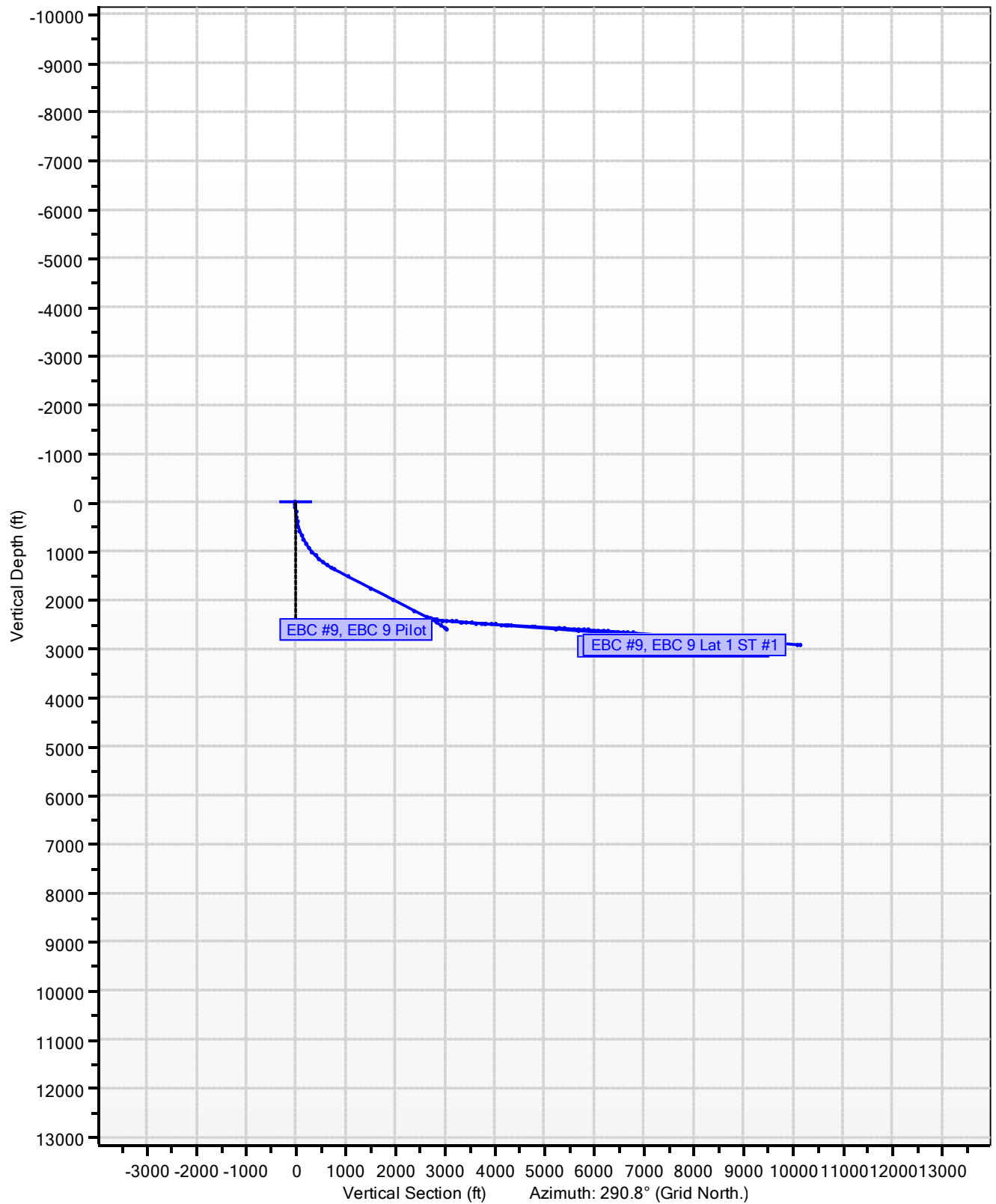


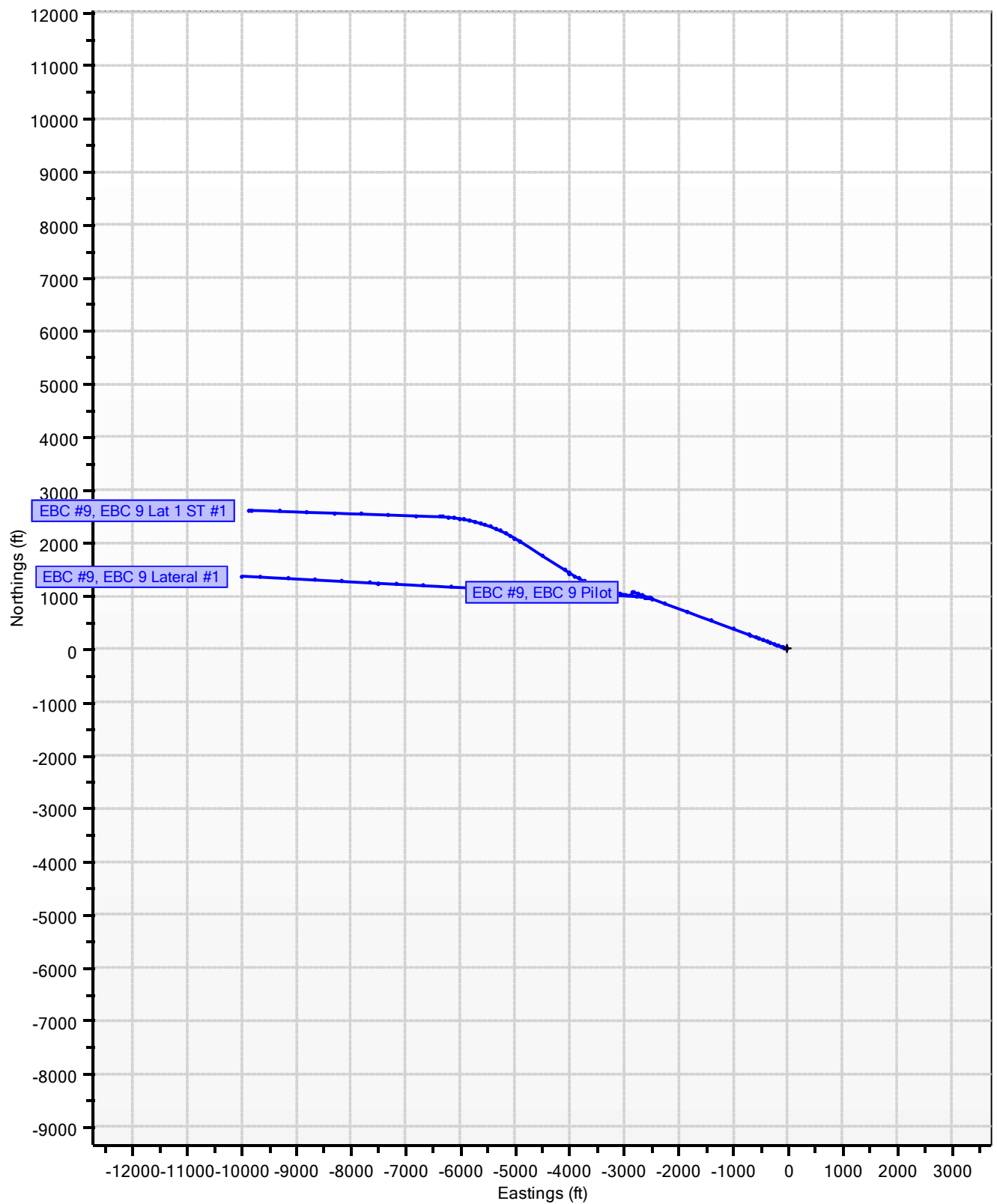
**East Bull Creek Well
EBC Pad 5
EBC #9
EBC 9 Lat 1 ST #1**

Catamount Energy Partners Proposal Report

EBC Pad 5, EBC #9



EBC Pad 5, EBC #9



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #9
Company:		TVD Reference:	EBC #9
Project:	East Bull Creek Well	MD Reference:	EBC #9
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 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 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 #9			
Well Position:	+N/-S	14ft	Northing:	+1180483
	+E/-W	-5ft	Easting:	+2451359
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 9 Lat 1 ST #1			
Audit Notes:				
Version:		Phase:		Tie On Depth: 4000ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	284.9

Survey Program		3/7/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	3710	EBC 9 Pilot	MWD	MWD	
3710	4000	EBC 9 Pilot	MWD	MWD	
4000	11557	EBC 9 Lat 1 ST #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	
4000	85.1	274.7	2415	985	-2677						
5425	86.7	303.2	2519	1442	-4007	2.0	0.1	2.0	87.9		
6498	86.7	303.2	2580	2029	-4903	0.0	0.0	0.0	0.0		
8057	86.1	272.0	2681	2494	-6367	2.0	0.0	-2.0	-92.1		
11557	86.1	272.0	2920	2616	-9857	0.0	0.0	0.0	0.0	Lateral #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	-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	290.8	120	-6410	0	0	0	0	290.8	4.0		
150	2.0	290.8	150	-6380	0	-1	1	1	290.8	4.0		

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #9
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Project:	East Bull Creek Well	MD Reference:	EBC #9
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 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
180	3.2	290.8	180	-6350	1	-2	2	2	290.8	4.0	
210	4.4	290.8	210	-6320	2	-4	4	4	290.8	4.0	
240	5.6	290.8	240	-6290	2	-6	7	7	290.8	4.0	
270	6.8	290.8	270	-6260	4	-9	10	10	290.8	4.0	
300	8.0	290.8	299	-6231	5	-13	14	14	290.8	4.0	
330	9.2	290.8	329	-6201	7	-17	18	18	290.8	4.0	
360	10.4	290.8	359	-6171	8	-22	23	24	290.8	4.0	
390	11.6	290.8	388	-6142	10	-27	29	29	290.8	4.0	
420	12.8	290.8	417	-6113	13	-33	35	36	290.8	4.0	
450	14.0	290.8	447	-6083	15	-40	42	43	290.8	4.0	
480	15.2	290.8	476	-6054	18	-47	50	50	290.8	4.0	
510	16.4	290.8	504	-6026	21	-54	58	58	290.8	4.0	
540	17.6	290.8	533	-5997	24	-63	67	67	290.8	4.0	
570	18.8	290.8	562	-5968	27	-71	76	76	290.8	4.0	
600	20.0	290.8	590	-5940	31	-81	86	86	290.8	4.0	
630	21.2	290.8	618	-5912	34	-91	96	97	290.8	4.0	
660	22.4	290.8	646	-5884	38	-101	107	108	290.8	4.0	
690	23.6	290.8	673	-5857	43	-112	119	120	290.8	4.0	
720	24.8	290.8	701	-5829	47	-123	131	132	290.8	4.0	
750	26.0	290.8	728	-5802	52	-135	144	145	290.8	4.0	
780	27.2	290.8	755	-5775	56	-148	158	158	290.8	4.0	
810	28.4	290.8	781	-5749	61	-161	171	172	290.8	4.0	
840	29.6	290.8	808	-5722	66	-175	186	187	290.8	4.0	
870	30.8	290.8	833	-5697	72	-189	201	202	290.8	4.0	
900	32.0	290.8	859	-5671	77	-203	216	218	290.8	4.0	
930	33.2	290.8	884	-5646	83	-219	233	234	290.8	4.0	
960	34.4	290.8	909	-5621	89	-234	249	251	290.8	4.0	
990	35.6	290.8	934	-5596	95	-250	266	268	290.8	4.0	
1020	36.8	290.8	958	-5572	102	-267	284	285	290.8	4.0	
1050	38.0	290.8	982	-5548	108	-284	302	304	290.8	4.0	
1080	39.2	290.8	1005	-5525	115	-301	321	322	290.8	4.0	
1110	40.4	290.8	1028	-5502	121	-319	340	342	290.8	4.0	
1140	41.6	290.8	1051	-5479	128	-338	359	361	290.8	4.0	
1170	42.8	290.8	1073	-5457	136	-356	379	381	290.8	4.0	
1200	44.0	290.8	1095	-5435	143	-376	400	402	290.8	4.0	
1230	45.2	290.8	1116	-5414	150	-395	421	423	290.8	4.0	
1260	46.4	290.8	1137	-5393	158	-416	442	445	290.8	4.0	
1290	47.6	290.8	1158	-5372	166	-436	464	467	290.8	4.0	
1320	48.8	290.8	1178	-5352	174	-457	486	489	290.8	4.0	
1350	50.0	290.8	1197	-5333	182	-478	509	512	290.8	4.0	
1380	51.2	290.8	1216	-5314	190	-500	532	535	290.8	4.0	
1410	52.4	290.8	1235	-5295	199	-522	555	558	290.8	4.0	
1440	53.6	290.8	1253	-5277	207	-544	579	582	290.8	4.0	
1470	54.8	290.8	1270	-5260	216	-567	603	607	290.8	4.0	
1500	56.0	290.8	1288	-5242	225	-590	628	631	290.8	4.0	
1530	57.2	290.8	1304	-5226	233	-614	653	656	290.8	4.0	
1560	58.4	290.8	1320	-5210	243	-637	678	682	290.8	4.0	
1590	59.6	290.8	1335	-5195	252	-661	704	708	290.8	4.0	
1620	60.8	290.8	1350	-5180	261	-686	730	734	290.8	4.0	
1650	62.0	290.8	1365	-5165	270	-710	756	760	290.8	4.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #9
Company:		TVD Reference:	EBC #9
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Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 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
1657	62.3	290.8	1368	-5162	273	-716	762	766	290.8	4.0	
1700	62.3	290.8	1388	-5142	286	-752	800	804	290.8	0.0	
1800	62.3	290.8	1434	-5096	318	-834	888	893	290.8	0.0	
1900	62.3	290.8	1481	-5049	349	-917	976	981	290.8	0.0	
2000	62.3	290.8	1527	-5003	381	-1000	1064	1070	290.8	0.0	
2100	62.3	290.8	1574	-4956	412	-1083	1152	1158	290.8	0.0	
2200	62.3	290.8	1620	-4910	443	-1165	1240	1247	290.8	0.0	
2300	62.3	290.8	1667	-4863	475	-1248	1328	1335	290.8	0.0	
2400	62.3	290.8	1713	-4817	506	-1331	1416	1424	290.8	0.0	
2500	62.3	290.8	1760	-4770	538	-1414	1504	1512	290.8	0.0	
2600	62.3	290.8	1806	-4724	569	-1496	1592	1601	290.8	0.0	
2700	62.3	290.8	1853	-4677	601	-1579	1680	1690	290.8	0.0	
2800	62.3	290.8	1899	-4631	632	-1662	1768	1778	290.8	0.0	
2900	62.3	290.8	1946	-4584	664	-1745	1856	1867	290.8	0.0	
3000	62.3	290.8	1992	-4538	695	-1827	1945	1955	290.8	0.0	
3100	62.3	290.8	2039	-4491	727	-1910	2033	2044	290.8	0.0	
3200	62.3	290.8	2085	-4445	758	-1993	2121	2132	290.8	0.0	
3300	62.3	290.8	2132	-4398	790	-2075	2209	2221	290.8	0.0	
3400	62.3	290.8	2178	-4352	821	-2158	2297	2309	290.8	0.0	
3500	62.3	290.8	2225	-4305	853	-2241	2385	2398	290.8	0.0	
3600	62.3	290.8	2271	-4259	884	-2324	2473	2486	290.8	0.0	
3700	62.3	290.8	2318	-4212	916	-2406	2561	2575	290.8	0.0	
3710	62.3	290.8	2323	-4207	919	-2415	2570	2584	290.8	0.0	MWD
3790	62.3	290.8	2360	-4170	944	-2481	2640	2655	290.8	0.0	7in Casing
3810	64.6	289.0	2369	-4161	950	-2498	2658	2672	290.8	14.1	
3840	68.1	286.3	2381	-4149	959	-2524	2685	2700	290.8	14.1	
3870	71.6	283.8	2391	-4139	966	-2551	2714	2728	290.7	14.1	
3900	75.1	281.4	2400	-4130	972	-2579	2742	2756	290.7	14.1	
3930	78.7	279.0	2407	-4123	977	-2608	2771	2785	290.5	14.1	
3960	82.3	276.7	2411	-4119	981	-2637	2801	2814	290.4	14.1	
3983	85.0	275.0	2414	-4116	984	-2660	2823	2836	290.3	14.1	
3990	85.1	274.9	2415	-4115	984	-2667	2830	2843	290.3	2.0	
4000	85.1	274.7	2415	-4115	985	-2677	2840	2852	290.2	2.0	MWD
4003	85.1	274.7	2416	-4114	985	-2680	2843	2855	290.2	2.0	KOP
4020	85.2	275.1	2417	-4113	987	-2697	2860	2872	290.1	2.0	
4050	85.2	275.7	2420	-4110	990	-2726	2889	2900	289.9	2.0	
4080	85.2	276.3	2422	-4108	993	-2756	2919	2930	289.8	2.0	
4110	85.2	276.9	2425	-4105	996	-2786	2948	2959	289.7	2.0	
4140	85.2	277.5	2427	-4103	1000	-2816	2978	2988	289.6	2.0	
4170	85.3	278.1	2430	-4100	1004	-2845	3007	3017	289.4	2.0	
4200	85.3	278.7	2432	-4098	1008	-2875	3037	3046	289.3	2.0	
4230	85.3	279.3	2435	-4095	1013	-2904	3067	3076	289.2	2.0	
4260	85.3	279.9	2437	-4093	1018	-2934	3097	3105	289.1	2.0	
4290	85.4	280.5	2439	-4091	1023	-2963	3127	3135	289.1	2.0	
4320	85.4	281.1	2442	-4088	1029	-2993	3156	3164	289.0	2.0	
4350	85.4	281.7	2444	-4086	1035	-3022	3186	3194	288.9	2.0	
4380	85.5	282.3	2447	-4083	1041	-3051	3216	3224	288.8	2.0	
4410	85.5	282.9	2449	-4081	1048	-3080	3246	3254	288.8	2.0	
4440	85.5	283.5	2451	-4079	1054	-3109	3276	3283	288.7	2.0	
4470	85.5	284.1	2454	-4076	1062	-3138	3306	3313	288.7	2.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #9
Company:		TVD Reference:	EBC #9
Project:	East Bull Creek Well	MD Reference:	EBC #9
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 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
4500	85.6	284.7	2456	-4074	1069	-3167	3336	3343	288.6	2.0	
4530	85.6	285.3	2458	-4072	1077	-3196	3366	3373	288.6	2.0	
4560	85.6	285.9	2461	-4069	1085	-3225	3395	3403	288.6	2.0	
4590	85.7	286.5	2463	-4067	1093	-3254	3425	3433	288.6	2.0	
4620	85.7	287.1	2465	-4065	1102	-3282	3455	3462	288.6	2.0	
4650	85.7	287.7	2467	-4063	1111	-3311	3485	3492	288.5	2.0	
4680	85.8	288.3	2470	-4060	1120	-3339	3515	3522	288.5	2.0	
4710	85.8	288.9	2472	-4058	1129	-3368	3545	3552	288.5	2.0	
4740	85.8	289.5	2474	-4056	1139	-3396	3575	3582	288.5	2.0	
4770	85.9	290.1	2476	-4054	1149	-3424	3605	3612	288.6	2.0	
4800	85.9	290.7	2478	-4052	1160	-3452	3634	3642	288.6	2.0	
4830	85.9	291.3	2481	-4049	1171	-3480	3664	3672	288.6	2.0	
4860	86.0	291.9	2483	-4047	1182	-3508	3694	3702	288.6	2.0	
4890	86.0	292.5	2485	-4045	1193	-3536	3723	3732	288.6	2.0	
4920	86.0	293.1	2487	-4043	1205	-3563	3753	3761	288.7	2.0	
4950	86.1	293.7	2489	-4041	1216	-3591	3783	3791	288.7	2.0	
4980	86.1	294.3	2491	-4039	1229	-3618	3812	3821	288.8	2.0	
5010	86.2	294.9	2493	-4037	1241	-3645	3842	3851	288.8	2.0	
5040	86.2	295.5	2495	-4035	1254	-3672	3871	3881	288.9	2.0	
5070	86.2	296.1	2497	-4033	1267	-3699	3901	3910	288.9	2.0	
5100	86.3	296.7	2499	-4031	1280	-3726	3930	3940	289.0	2.0	
5130	86.3	297.3	2501	-4029	1294	-3753	3959	3970	289.0	2.0	
5160	86.3	297.9	2503	-4027	1308	-3779	3988	3999	289.1	2.0	
5190	86.4	298.5	2505	-4025	1322	-3806	4018	4029	289.2	2.0	
5220	86.4	299.1	2507	-4023	1336	-3832	4047	4058	289.2	2.0	
5250	86.5	299.7	2508	-4022	1351	-3858	4076	4088	289.3	2.0	
5280	86.5	300.3	2510	-4020	1366	-3884	4104	4117	289.4	2.0	
5310	86.6	300.9	2512	-4018	1381	-3910	4133	4147	289.5	2.0	
5340	86.6	301.5	2514	-4016	1397	-3935	4162	4176	289.5	2.0	
5370	86.6	302.1	2516	-4014	1413	-3961	4191	4205	289.6	2.0	
5400	86.7	302.7	2517	-4013	1429	-3986	4219	4234	289.7	2.0	
5425	86.7	303.2	2519	-4011	1442	-4007	4243	4259	289.8	2.0	
5500	86.7	303.2	2523	-4007	1483	-4070	4314	4332	290.0	0.0	
5600	86.7	303.2	2529	-4001	1538	-4153	4409	4429	290.3	0.0	
5700	86.7	303.2	2535	-3995	1593	-4237	4503	4526	290.6	0.0	
5800	86.7	303.2	2540	-3990	1647	-4320	4598	4624	290.9	0.0	
5900	86.7	303.2	2546	-3984	1702	-4404	4693	4721	291.1	0.0	
6000	86.7	303.2	2552	-3978	1757	-4487	4788	4819	291.4	0.0	
6100	86.7	303.2	2557	-3973	1811	-4571	4883	4917	291.6	0.0	
6200	86.7	303.2	2563	-3967	1866	-4654	4977	5014	291.8	0.0	
6300	86.7	303.2	2569	-3961	1921	-4738	5072	5112	292.1	0.0	
6400	86.7	303.2	2575	-3955	1976	-4821	5167	5210	292.3	0.0	
6498	86.7	303.2	2580	-3950	2029	-4903	5260	5307	292.5	0.0	
6510	86.7	303.0	2581	-3949	2036	-4913	5271	5318	292.5	2.0	
6540	86.7	302.4	2583	-3947	2052	-4938	5300	5348	292.6	2.0	
6570	86.7	301.8	2584	-3946	2068	-4964	5328	5377	292.6	2.0	
6600	86.6	301.2	2586	-3944	2083	-4989	5357	5407	292.7	2.0	
6630	86.6	300.6	2588	-3942	2099	-5015	5386	5437	292.7	2.0	
6660	86.6	300.0	2590	-3940	2114	-5041	5414	5466	292.8	2.0	
6690	86.6	299.4	2591	-3939	2129	-5067	5443	5496	292.8	2.0	

Catamount Energy Partners

Proposal Report



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Project:	East Bull Creek Well	MD Reference:	EBC #9
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 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
6720	86.6	298.8	2593	-3937	2143	-5093	5472	5526	292.8	2.0	
6750	86.5	298.2	2595	-3935	2158	-5119	5502	5555	292.9	2.0	
6780	86.5	297.6	2597	-3933	2172	-5146	5531	5585	292.9	2.0	
6810	86.5	297.0	2599	-3931	2185	-5173	5560	5615	292.9	2.0	
6840	86.5	296.4	2601	-3929	2199	-5199	5589	5645	292.9	2.0	
6870	86.5	295.8	2602	-3928	2212	-5226	5619	5675	292.9	2.0	
6900	86.4	295.2	2604	-3926	2225	-5253	5648	5705	293.0	2.0	
6930	86.4	294.6	2606	-3924	2237	-5280	5678	5735	293.0	2.0	
6960	86.4	294.0	2608	-3922	2250	-5308	5707	5765	293.0	2.0	
6990	86.4	293.4	2610	-3920	2262	-5335	5737	5795	293.0	2.0	
7020	86.4	292.8	2612	-3918	2273	-5363	5766	5825	293.0	2.0	
7050	86.4	292.2	2614	-3916	2285	-5390	5796	5855	293.0	2.0	
7080	86.4	291.6	2616	-3914	2296	-5418	5826	5884	293.0	2.0	
7110	86.3	291.0	2617	-3913	2307	-5446	5855	5914	293.0	2.0	
7140	86.3	290.4	2619	-3911	2317	-5474	5885	5944	292.9	2.0	
7170	86.3	289.8	2621	-3909	2328	-5502	5915	5974	292.9	2.0	
7200	86.3	289.2	2623	-3907	2338	-5530	5945	6004	292.9	2.0	
7230	86.3	288.6	2625	-3905	2347	-5559	5975	6034	292.9	2.0	
7260	86.3	288.0	2627	-3903	2357	-5587	6005	6064	292.9	2.0	
7290	86.3	287.4	2629	-3901	2366	-5616	6035	6094	292.8	2.0	
7320	86.2	286.8	2631	-3899	2375	-5644	6064	6123	292.8	2.0	
7350	86.2	286.2	2633	-3897	2383	-5673	6094	6153	292.8	2.0	
7380	86.2	285.6	2635	-3895	2391	-5702	6124	6183	292.8	2.0	
7410	86.2	285.0	2637	-3893	2399	-5731	6154	6213	292.7	2.0	
7440	86.2	284.4	2639	-3891	2407	-5760	6184	6242	292.7	2.0	
7470	86.2	283.8	2641	-3889	2414	-5789	6214	6272	292.6	2.0	
7500	86.2	283.2	2643	-3887	2421	-5818	6244	6301	292.6	2.0	
7530	86.2	282.6	2645	-3885	2428	-5847	6274	6331	292.5	2.0	
7560	86.2	282.0	2647	-3883	2434	-5876	6304	6360	292.5	2.0	
7590	86.2	281.4	2649	-3881	2440	-5905	6334	6390	292.4	2.0	
7620	86.1	280.8	2651	-3879	2446	-5935	6364	6419	292.4	2.0	
7650	86.1	280.2	2653	-3877	2451	-5964	6393	6448	292.3	2.0	
7680	86.1	279.5	2655	-3875	2456	-5994	6423	6478	292.3	2.0	
7710	86.1	278.9	2657	-3873	2461	-6023	6453	6507	292.2	2.0	
7740	86.1	278.3	2659	-3871	2466	-6053	6483	6536	292.2	2.0	
7770	86.1	277.7	2661	-3869	2470	-6083	6513	6565	292.1	2.0	
7800	86.1	277.1	2663	-3867	2474	-6112	6542	6594	292.0	2.0	
7830	86.1	276.5	2665	-3865	2477	-6142	6572	6623	292.0	2.0	
7860	86.1	275.9	2667	-3863	2481	-6172	6601	6652	291.9	2.0	
7890	86.1	275.3	2669	-3861	2483	-6201	6631	6680	291.8	2.0	
7920	86.1	274.7	2671	-3859	2486	-6231	6660	6709	291.8	2.0	
7950	86.1	274.1	2673	-3857	2488	-6261	6690	6737	291.7	2.0	
7980	86.1	273.5	2675	-3855	2490	-6291	6719	6766	291.6	2.0	
8010	86.1	272.9	2677	-3853	2492	-6321	6749	6794	291.5	2.0	
8040	86.1	272.3	2679	-3851	2494	-6351	6778	6823	291.4	2.0	
8057	86.1	272.0	2681	-3849	2494	-6367	6794	6838	291.4	2.0	
8100	86.1	272.0	2684	-3846	2496	-6411	6836	6879	291.3	0.0	
8200	86.1	272.0	2690	-3840	2499	-6510	6934	6973	291.0	0.0	
8300	86.1	272.0	2697	-3833	2503	-6610	7031	7068	290.7	0.0	
8400	86.1	272.0	2704	-3826	2506	-6710	7128	7162	290.5	0.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #9
Company:		TVD Reference:	EBC #9
Project:	East Bull Creek Well	MD Reference:	EBC #9
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 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
8500	86.1	272.0	2711	-3819	2510	-6809	7225	7257	290.2	0.0	
8600	86.1	272.0	2718	-3812	2513	-6909	7323	7352	290.0	0.0	
8700	86.1	272.0	2725	-3805	2517	-7009	7420	7447	289.8	0.0	
8800	86.1	272.0	2731	-3799	2520	-7109	7517	7542	289.5	0.0	
8900	86.1	272.0	2738	-3792	2523	-7208	7614	7637	289.3	0.0	
9000	86.1	272.0	2745	-3785	2527	-7308	7712	7732	289.1	0.0	
9100	86.1	272.0	2752	-3778	2530	-7408	7809	7828	288.9	0.0	
9200	86.1	272.0	2759	-3771	2534	-7507	7906	7923	288.7	0.0	
9300	86.1	272.0	2766	-3764	2537	-7607	8003	8019	288.4	0.0	
9400	86.1	272.0	2772	-3758	2541	-7707	8101	8115	288.2	0.0	
9500	86.1	272.0	2779	-3751	2544	-7806	8198	8211	288.1	0.0	
9600	86.1	272.0	2786	-3744	2548	-7906	8295	8307	287.9	0.0	
9700	86.1	272.0	2793	-3737	2551	-8006	8392	8403	287.7	0.0	
9800	86.1	272.0	2800	-3730	2555	-8106	8490	8499	287.5	0.0	
9900	86.1	272.0	2807	-3723	2558	-8205	8587	8595	287.3	0.0	
10000	86.1	272.0	2813	-3717	2562	-8305	8684	8691	287.1	0.0	
10100	86.1	272.0	2820	-3710	2565	-8405	8781	8787	287.0	0.0	
10200	86.1	272.0	2827	-3703	2569	-8504	8879	8884	286.8	0.0	
10300	86.1	272.0	2834	-3696	2572	-8604	8976	8980	286.6	0.0	
10400	86.1	272.0	2841	-3689	2576	-8704	9073	9077	286.5	0.0	
10500	86.1	272.0	2848	-3682	2579	-8804	9171	9174	286.3	0.0	
10600	86.1	272.0	2854	-3676	2583	-8903	9268	9270	286.2	0.0	
10700	86.1	272.0	2861	-3669	2586	-9003	9365	9367	286.0	0.0	
10800	86.1	272.0	2868	-3662	2590	-9103	9462	9464	285.9	0.0	
10900	86.1	272.0	2875	-3655	2593	-9202	9560	9561	285.7	0.0	
11000	86.1	272.0	2882	-3648	2597	-9302	9657	9658	285.6	0.0	
11100	86.1	272.0	2889	-3641	2600	-9402	9754	9755	285.5	0.0	
11200	86.1	272.0	2895	-3635	2604	-9501	9851	9852	285.3	0.0	
11300	86.1	272.0	2902	-3628	2607	-9601	9949	9949	285.2	0.0	
11400	86.1	272.0	2909	-3621	2611	-9701	10046	10046	285.1	0.0	
11500	86.1	272.0	2916	-3614	2614	-9801	10143	10143	284.9	0.0	
11557	86.1	272.0	2920	-3610	2616	-9857	10198	10198	284.9	0.0	Lateral #1 ST #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											
Lateral #1 ST #1 BHL			2920	2616	-9857	+1183099	+2441502	37.15378301° N		107.41642292° W	
- proposal misses the target center by 0ft at 11557ft MD (2920TVD, +2616, -9857)											
- Point											

Casing Points											
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)							
3790	2360	7in Casing								7	9 1/2

Catamount Energy Partners

Proposal Report



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Company:		TVD Reference:	EBC #9
Project:	East Bull Creek Well	MD Reference:	EBC #9
Site:	EBC Pad 5	North reference:	Grid North
Well:	EBC #9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC 9 Lat 1 ST #1		

Proposal Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
4003	2416	985	-2680	KOP

Checked By:	Approved By:	Date:
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