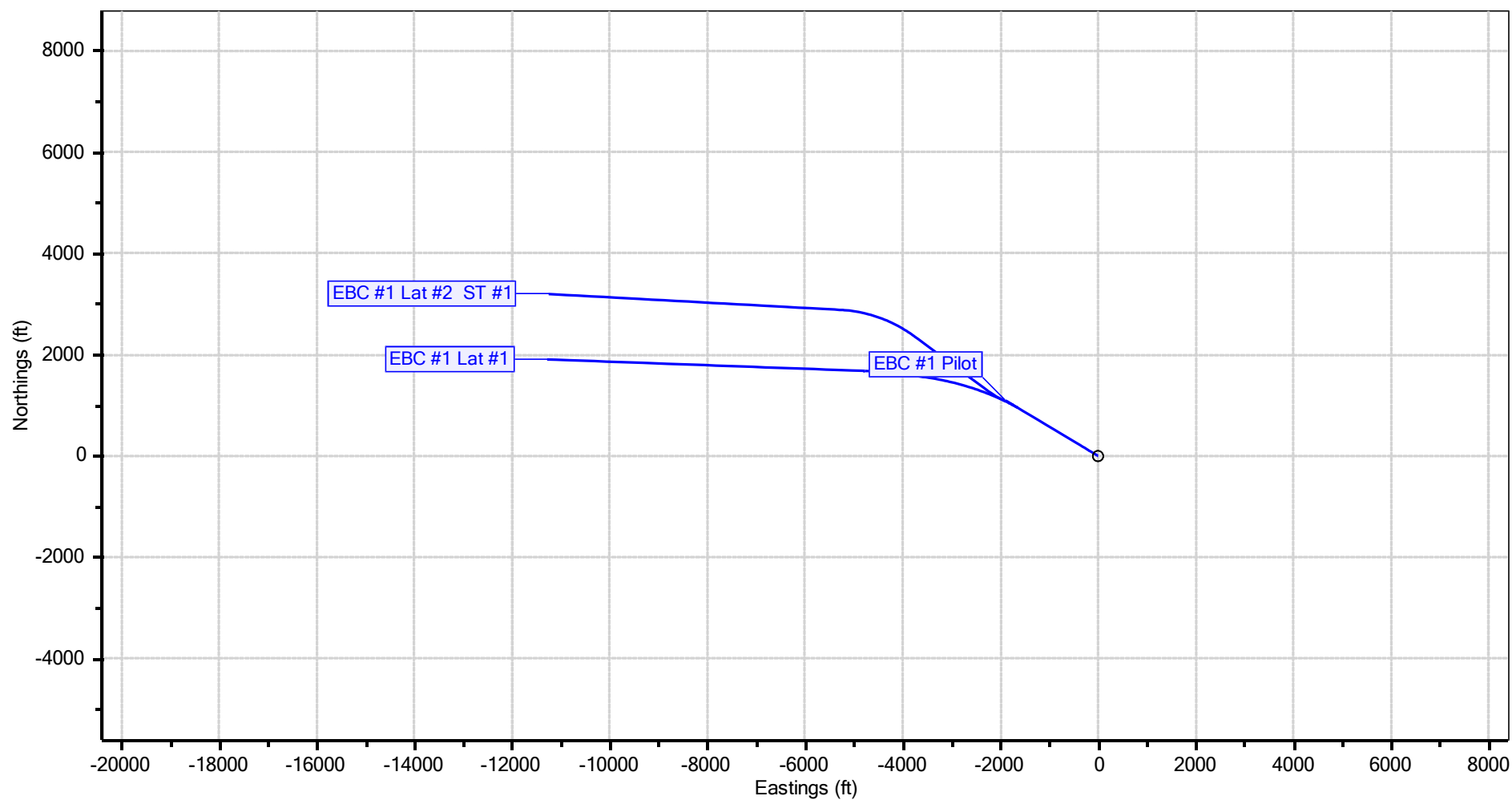


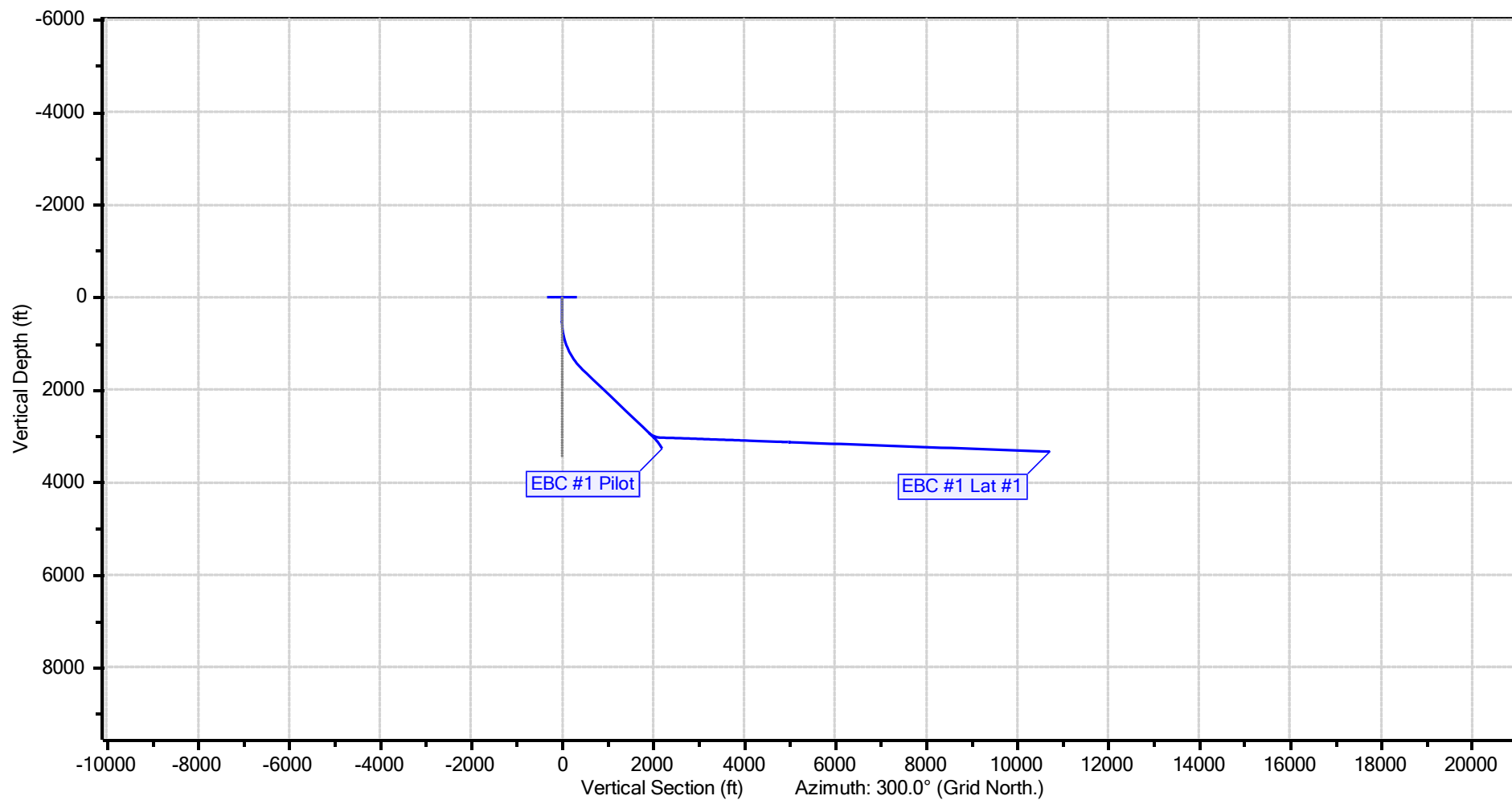
**East Bull Creek Well
EBC Pad 3
EBC #1
EBC #1 Pilot**

Catamount Energy Partners Proposal Report

EBC Pad 3, EBC #1



EBC Pad 3, EBC #1



Catamount Energy Partners

Proposal Report



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

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 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 Pilot			
Audit Notes:				
Version:		Phase:		Tie On Depth: 0ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	300.0

Survey Program		1/23/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	4130	EBC #1 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
0	0.0	0.0	0	0	0					
520	0.0	0.0	520	0	0	0.0	0.0	0.0	0.0	
1691	46.8	300.0	1565	226	-392	4.0	4.0	0.0	-60.0	
3812	46.8	300.0	3016	1000	-1732	0.0	0.0	0.0	0.0	
4130	28.9	300.0	3266	1097	-1900	5.7	-5.6	0.0	-180.0	

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
16	0.0	0.0	16	-6930	0	0	0	0	0.0	0.0	Animas
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	

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Wellbore:			
Proposal:	EBC #1 Pilot		

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
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	
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	7	7	300.0	4.0	
690	6.8	300.0	690	-6256	5	-9	10	10	300.0	4.0	
720	8.0	300.0	719	-6227	7	-12	14	14	300.0	4.0	
750	9.2	300.0	749	-6197	9	-16	18	18	300.0	4.0	
780	10.4	300.0	779	-6167	12	-20	24	24	300.0	4.0	
810	11.6	300.0	808	-6138	15	-25	29	29	300.0	4.0	
840	12.8	300.0	837	-6109	18	-31	36	36	300.0	4.0	
870	14.0	300.0	867	-6079	21	-37	43	43	300.0	4.0	
900	15.2	300.0	896	-6050	25	-43	50	50	300.0	4.0	
930	16.4	300.0	924	-6022	29	-50	58	58	300.0	4.0	
960	17.6	300.0	953	-5993	34	-58	67	67	300.0	4.0	
990	18.8	300.0	982	-5964	38	-66	76	76	300.0	4.0	
1020	20.0	300.0	1010	-5936	43	-75	86	86	300.0	4.0	
1050	21.2	300.0	1038	-5908	48	-84	97	97	300.0	4.0	
1080	22.4	300.0	1066	-5880	54	-94	108	108	300.0	4.0	
1110	23.6	300.0	1093	-5853	60	-104	120	120	300.0	4.0	
1140	24.8	300.0	1121	-5825	66	-114	132	132	300.0	4.0	
1170	26.0	300.0	1148	-5798	72	-126	145	145	300.0	4.0	
1200	27.2	300.0	1175	-5771	79	-137	158	158	300.0	4.0	
1230	28.4	300.0	1201	-5745	86	-149	172	172	300.0	4.0	
1260	29.6	300.0	1228	-5718	93	-162	187	187	300.0	4.0	
1290	30.8	300.0	1253	-5693	101	-175	202	202	300.0	4.0	
1320	32.0	300.0	1279	-5667	109	-188	218	218	300.0	4.0	
1350	33.2	300.0	1304	-5642	117	-202	234	234	300.0	4.0	
1380	34.4	300.0	1329	-5617	125	-217	251	251	300.0	4.0	
1410	35.6	300.0	1354	-5592	134	-232	268	268	300.0	4.0	
1440	36.8	300.0	1378	-5568	143	-247	285	285	300.0	4.0	
1470	38.0	300.0	1402	-5544	152	-263	304	304	300.0	4.0	
1500	39.2	300.0	1425	-5521	161	-279	322	322	300.0	4.0	
1530	40.4	300.0	1448	-5498	171	-296	342	342	300.0	4.0	
1560	41.6	300.0	1471	-5475	181	-313	361	361	300.0	4.0	
1590	42.8	300.0	1493	-5453	191	-330	381	381	300.0	4.0	
1620	44.0	300.0	1515	-5431	201	-348	402	402	300.0	4.0	
1650	45.2	300.0	1536	-5410	212	-366	423	423	300.0	4.0	
1680	46.4	300.0	1557	-5389	222	-385	445	445	300.0	4.0	
1691	46.8	300.0	1565	-5381	226	-392	453	453	300.0	4.0	
1700	46.8	300.0	1571	-5375	230	-398	459	459	300.0	0.0	
1800	46.8	300.0	1639	-5307	266	-461	532	532	300.0	0.0	
1900	46.8	300.0	1708	-5238	303	-524	605	605	300.0	0.0	
2000	46.8	300.0	1776	-5170	339	-587	678	678	300.0	0.0	
2100	46.8	300.0	1845	-5101	375	-650	751	751	300.0	0.0	
2200	46.8	300.0	1913	-5033	412	-713	824	824	300.0	0.0	
2300	46.8	300.0	1981	-4965	448	-777	897	897	300.0	0.0	

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Well:	EBC #1	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #1 Pilot		

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
2400	46.8	300.0	2050	-4896	485	-840	970	970	300.0	0.0	
2500	46.8	300.0	2118	-4828	521	-903	1043	1043	300.0	0.0	
2600	46.8	300.0	2187	-4759	558	-966	1116	1116	300.0	0.0	
2700	46.8	300.0	2255	-4691	594	-1029	1189	1189	300.0	0.0	
2800	46.8	300.0	2323	-4623	631	-1092	1262	1262	300.0	0.0	
2853	46.8	300.0	2360	-4586	650	-1126	1300	1300	300.0	0.0	Kirtland
2900	46.8	300.0	2392	-4554	667	-1156	1334	1334	300.0	0.0	
2986	46.8	300.0	2451	-4495	699	-1210	1397	1397	300.0	0.0	Farmington
3000	46.8	300.0	2460	-4486	704	-1219	1407	1407	300.0	0.0	
3100	46.8	300.0	2529	-4417	740	-1282	1480	1480	300.0	0.0	
3200	46.8	300.0	2597	-4349	777	-1345	1553	1553	300.0	0.0	
3300	46.8	300.0	2666	-4280	813	-1408	1626	1626	300.0	0.0	
3396	46.8	300.0	2731	-4215	848	-1469	1696	1696	300.0	0.0	Lower Kirtland
3400	46.8	300.0	2734	-4212	850	-1472	1699	1699	300.0	0.0	
3500	46.8	300.0	2802	-4144	886	-1535	1772	1772	300.0	0.0	
3600	46.8	300.0	2871	-4075	923	-1598	1845	1845	300.0	0.0	
3700	46.8	300.0	2939	-4007	959	-1661	1918	1918	300.0	0.0	
3800	46.8	300.0	3008	-3938	995	-1724	1991	1991	300.0	0.0	
3812	46.8	300.0	3016	-3930	1000	-1732	2000	2000	300.0	0.0	Fruitland
3840	45.3	300.0	3035	-3911	1010	-1749	2020	2020	300.0	5.6	
3870	43.6	300.0	3057	-3889	1020	-1767	2041	2041	300.0	5.7	
3900	41.9	300.0	3079	-3867	1031	-1785	2061	2061	300.0	5.7	
3920	40.7	300.0	3094	-3852	1037	-1797	2075	2075	300.0	5.7	Pictured Cliffs
3930	40.2	300.0	3101	-3845	1040	-1802	2081	2081	300.0	5.7	
3960	38.5	300.0	3124	-3822	1050	-1819	2100	2100	300.0	5.7	
3990	36.8	300.0	3148	-3798	1059	-1834	2118	2118	300.0	5.6	
4020	35.1	300.0	3172	-3774	1068	-1850	2136	2136	300.0	5.6	
4050	33.4	300.0	3197	-3749	1076	-1864	2153	2153	300.0	5.6	
4080	31.7	300.0	3223	-3723	1084	-1878	2169	2169	300.0	5.7	
4110	30.0	300.0	3248	-3698	1092	-1892	2184	2184	300.0	5.7	
4130	28.9	300.0	3266	-3680	1097	-1900	2194	2194	300.0	5.7	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
16	16	-6930	Animas	0.0	0.0
2853	2360	-4586	Kirtland	0.0	0.0
2986	2451	-4495	Farmington	0.0	0.0
3396	2731	-4215	Lower Kirtland	0.0	0.0
3812	3016	-3930	Fruitland	0.0	0.0
3920	3094	-3852	Pictured Cliffs	0.0	0.0

Checked By:	Approved By:	Date:
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Wellbore:			
Proposal:	EBC #1 Pilot		

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