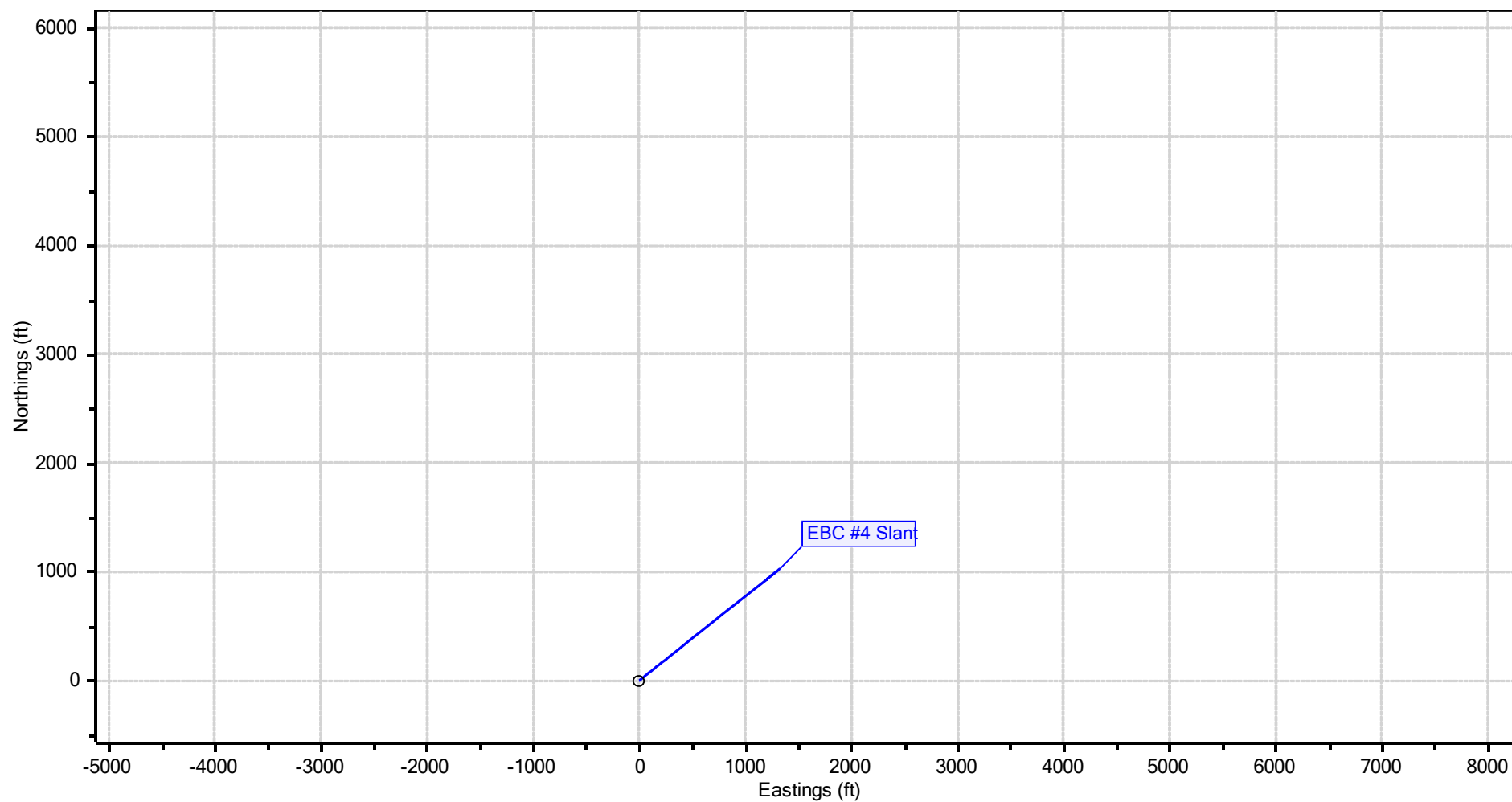


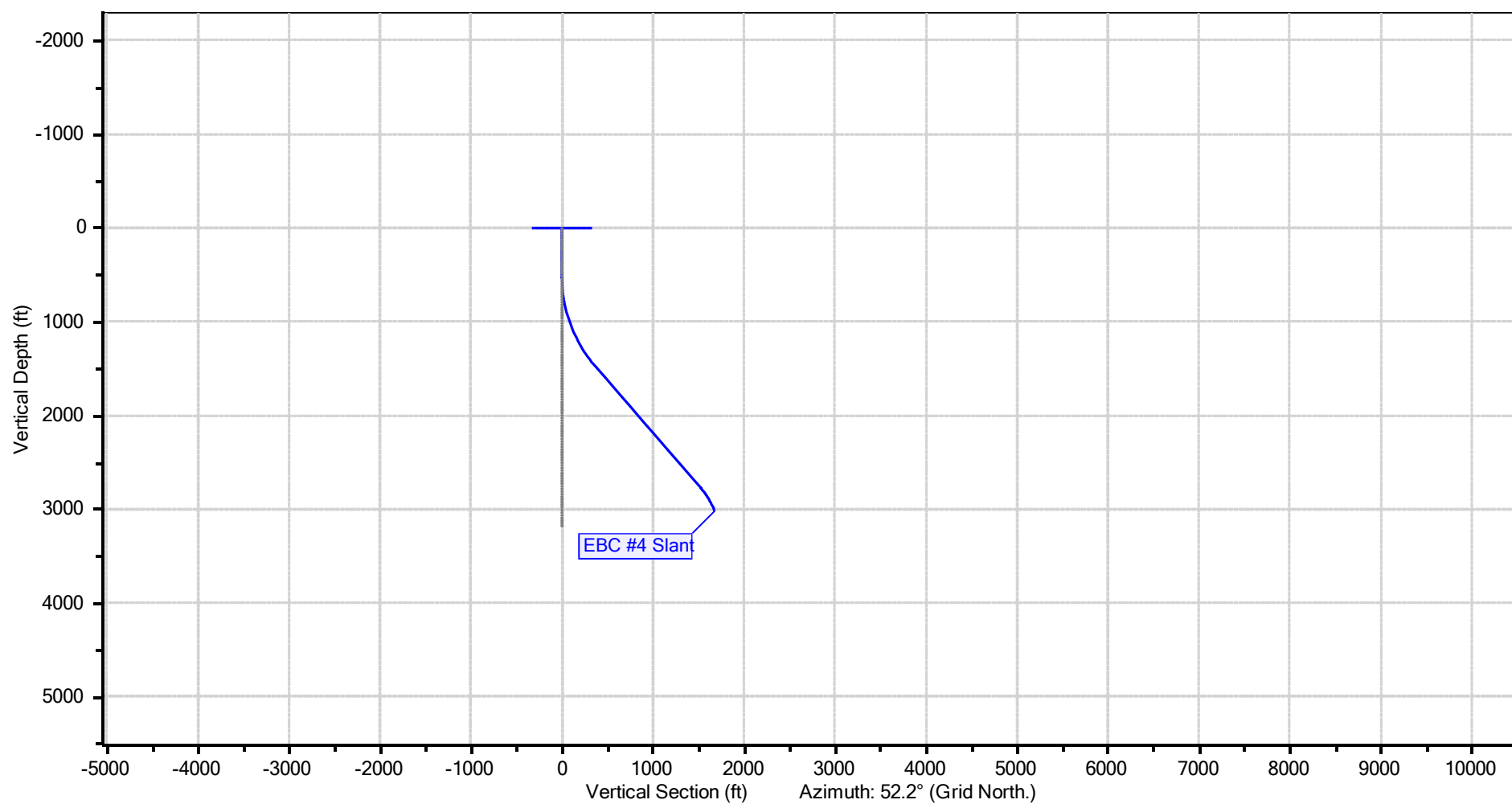
**East Bull Creek Well
EBC Pad 3
EBC #4
EBC #4 Slant**

Catamount Energy Partners Proposal Report

EBC Pad 3, EBC #4



EBC Pad 3, EBC #4



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #4
Company:		TVD Reference:	EBC #4
Project:	East Bull Creek Well	MD Reference:	EBC #4
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #4	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #4 Slant		

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 #4			
Well Position:	+N/-S	1187929ft	Northing:	1187929 N
	+E/-W	2445929ft	Easting:	2445929 E
Position Uncertainty:		1ft	Wellhead Elevation:	6946ft
			Ground Level:	6930ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	3/2/2018	0.0	0.0	0.0

Proposal	EBC #4 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	52.2

Survey Program		1/30/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	3594	EBC #4 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	
1564	41.8	52.2	1474	223	288	4.0	4.0	0.0	52.2	
3297	41.8	52.2	2766	930	1200	0.0	0.0	0.0	0.0	
3594	22.8	52.2	3016	1027	1325	6.4	-6.4	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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Well:	EBC #4	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #4 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	52.2	540	-6406	0	0	0	0	52.2	4.0	
570	2.0	52.2	570	-6376	1	1	1	1	52.2	4.0	
600	3.2	52.2	600	-6346	1	2	2	2	52.2	4.0	
630	4.4	52.2	630	-6316	3	3	4	4	52.2	4.0	
660	5.6	52.2	660	-6286	4	5	7	7	52.2	4.0	
690	6.8	52.2	690	-6256	6	8	10	10	52.2	4.0	
720	8.0	52.2	719	-6227	9	11	14	14	52.2	4.0	
750	9.2	52.2	749	-6197	11	15	18	18	52.2	4.0	
780	10.4	52.2	779	-6167	14	19	24	24	52.2	4.0	
810	11.6	52.2	808	-6138	18	23	29	29	52.2	4.0	
840	12.8	52.2	837	-6109	22	28	36	36	52.2	4.0	
870	14.0	52.2	867	-6079	26	34	43	43	52.2	4.0	
900	15.2	52.2	896	-6050	31	40	50	50	52.2	4.0	
930	16.4	52.2	924	-6022	36	46	58	58	52.2	4.0	
960	17.6	52.2	953	-5993	41	53	67	67	52.2	4.0	
990	18.8	52.2	982	-5964	47	60	76	76	52.2	4.0	
1020	20.0	52.2	1010	-5936	53	68	86	86	52.2	4.0	
1050	21.2	52.2	1038	-5908	59	77	97	97	52.2	4.0	
1080	22.4	52.2	1066	-5880	66	85	108	108	52.2	4.0	
1110	23.6	52.2	1093	-5853	73	95	120	120	52.2	4.0	
1140	24.8	52.2	1121	-5825	81	104	132	132	52.2	4.0	
1170	26.0	52.2	1148	-5798	89	115	145	145	52.2	4.0	
1200	27.2	52.2	1175	-5771	97	125	158	158	52.2	4.0	
1230	28.4	52.2	1201	-5745	106	136	172	172	52.2	4.0	
1260	29.6	52.2	1228	-5718	115	148	187	187	52.2	4.0	
1290	30.8	52.2	1253	-5693	124	160	202	202	52.2	4.0	
1320	32.0	52.2	1279	-5667	133	172	218	218	52.2	4.0	
1350	33.2	52.2	1304	-5642	143	185	234	234	52.2	4.0	
1380	34.4	52.2	1329	-5617	153	198	251	251	52.2	4.0	
1410	35.6	52.2	1354	-5592	164	212	268	268	52.2	4.0	
1440	36.8	52.2	1378	-5568	175	226	285	285	52.2	4.0	
1470	38.0	52.2	1402	-5544	186	240	304	304	52.2	4.0	
1500	39.2	52.2	1425	-5521	197	255	322	322	52.2	4.0	
1530	40.4	52.2	1448	-5498	209	270	342	342	52.2	4.0	
1560	41.6	52.2	1471	-5475	221	286	361	361	52.2	4.0	
1564	41.8	52.2	1474	-5472	223	288	364	364	52.2	4.0	
1600	41.8	52.2	1501	-5445	238	307	388	388	52.2	0.0	
1700	41.8	52.2	1575	-5371	278	359	455	455	52.2	0.0	
1800	41.8	52.2	1650	-5296	319	412	521	521	52.2	0.0	
1900	41.8	52.2	1725	-5221	360	465	588	588	52.2	0.0	
2000	41.8	52.2	1799	-5147	401	517	654	654	52.2	0.0	
2100	41.8	52.2	1874	-5072	442	570	721	721	52.2	0.0	
2200	41.8	52.2	1948	-4998	482	623	788	788	52.2	0.0	
2300	41.8	52.2	2023	-4923	523	675	854	854	52.2	0.0	
2400	41.8	52.2	2097	-4849	564	728	921	921	52.2	0.0	
2417	41.8	52.2	2110	-4836	571	737	932	932	52.2	0.0	Kirtland
2500	41.8	52.2	2172	-4774	605	781	988	988	52.2	0.0	

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Well:	EBC #4	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #4 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
2539	41.8	52.2	2201	-4745	621	801	1013	1013	52.2	0.0	Farmington
2600	41.8	52.2	2247	-4699	646	833	1054	1054	52.2	0.0	
2700	41.8	52.2	2321	-4625	687	886	1121	1121	52.2	0.0	
2800	41.8	52.2	2396	-4550	727	939	1187	1187	52.2	0.0	
2900	41.8	52.2	2470	-4476	768	991	1254	1254	52.2	0.0	
2914	41.8	52.2	2481	-4465	774	999	1264	1264	52.2	0.0	Lower Kirtland
3000	41.8	52.2	2545	-4401	809	1044	1321	1321	52.2	0.0	
3100	41.8	52.2	2619	-4327	850	1097	1387	1387	52.2	0.0	
3200	41.8	52.2	2694	-4252	891	1149	1454	1454	52.2	0.0	
3297	41.8	52.2	2766	-4180	930	1200	1518	1518	52.2	0.0	Fruitland
3300	41.6	52.2	2769	-4177	931	1202	1521	1521	52.2	6.4	
3330	39.6	52.2	2791	-4155	943	1217	1540	1540	52.2	6.4	Pictured Cliffs
3360	37.7	52.2	2815	-4131	955	1232	1559	1559	52.2	6.4	
3390	35.8	52.2	2839	-4107	966	1246	1577	1577	52.2	6.4	
3396	35.4	52.2	2844	-4102	968	1249	1580	1580	52.2	6.4	
3420	33.9	52.2	2863	-4083	976	1260	1594	1594	52.2	6.4	
3450	32.0	52.2	2889	-4057	986	1273	1610	1610	52.2	6.4	Pictured Cliffs
3480	30.0	52.2	2914	-4032	996	1285	1626	1626	52.2	6.4	
3510	28.1	52.2	2941	-4005	1005	1296	1640	1640	52.2	6.4	
3540	26.2	52.2	2967	-3979	1013	1307	1654	1654	52.2	6.4	
3570	24.3	52.2	2994	-3952	1021	1317	1667	1667	52.2	6.4	
3594	22.8	52.2	3016	-3930	1027	1325	1676	1676	52.2	6.4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
16	16	-6930	Animas	0.0	0.0
2417	2110	-4836	Kirtland	0.0	0.0
2539	2201	-4745	Farmington	0.0	0.0
2914	2481	-4465	Lower Kirtland	0.0	0.0
3297	2766	-4180	Fruitland	0.0	0.0
3396	2844	-4102	Pictured Cliffs	0.0	0.0

Checked By:	Approved By:	Date:
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