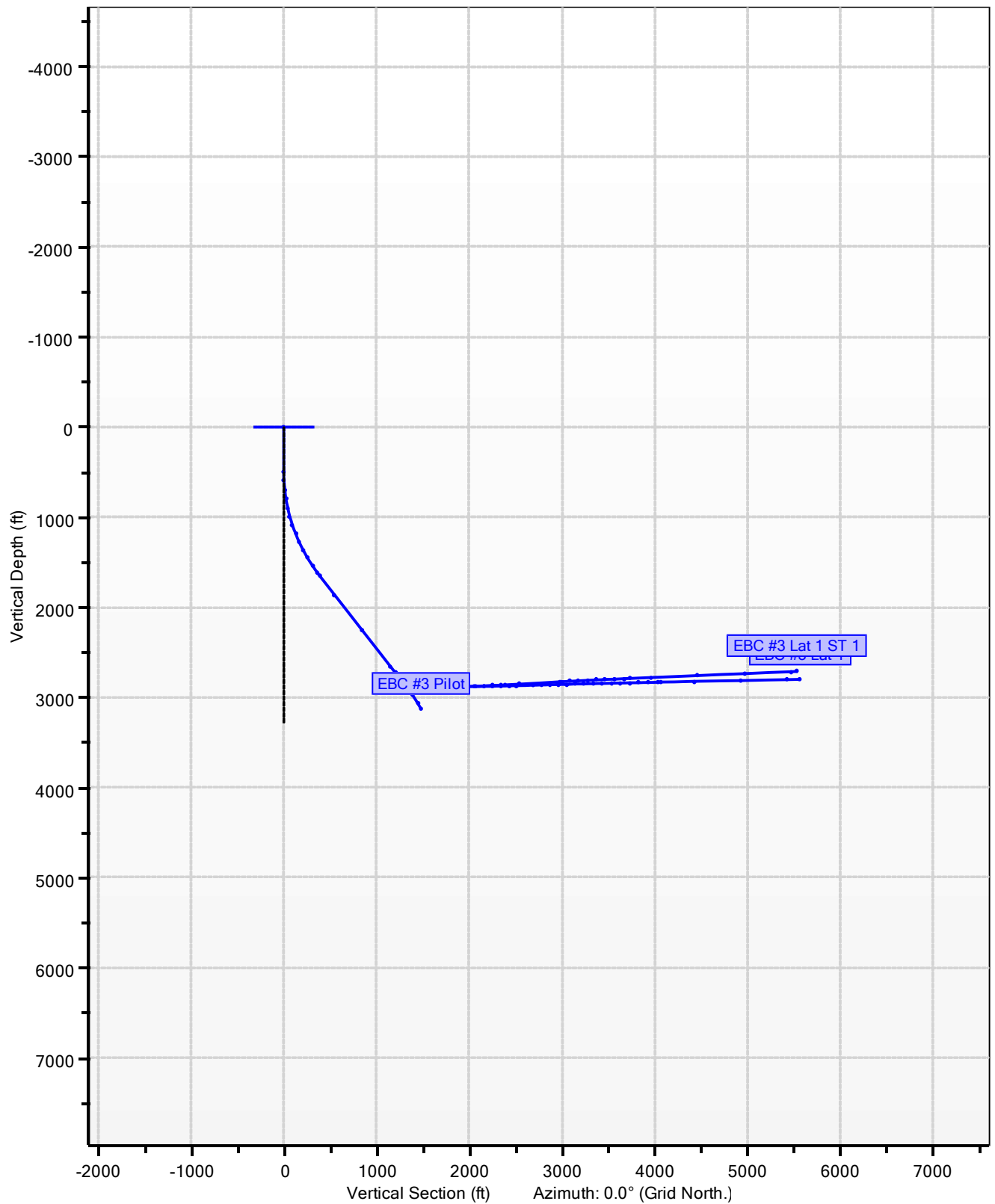


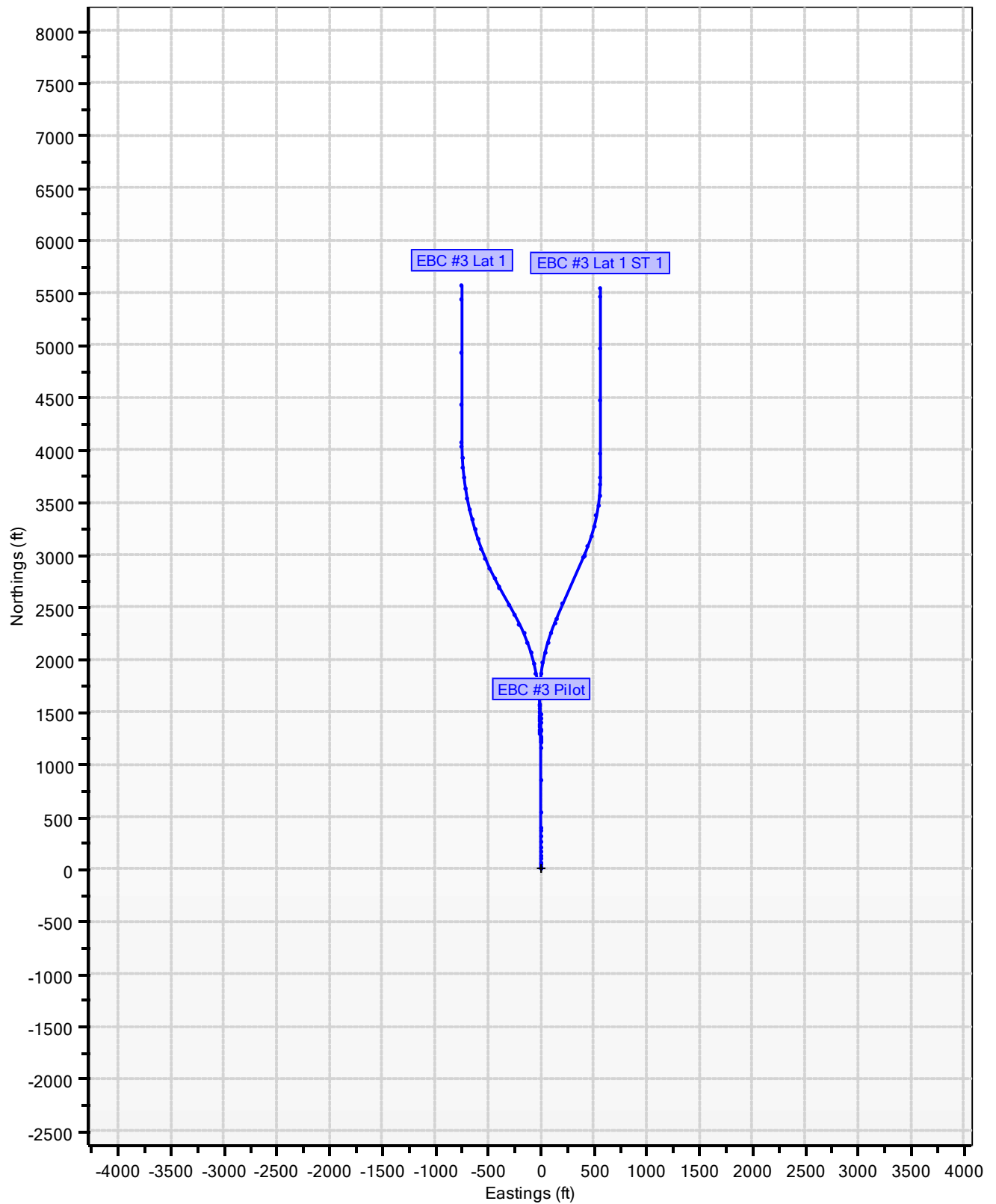
**East Bull Creek Well
EBC Pad 3
EBC #3
EBC #3 Pilot**

Catamount Energy Partners Proposal Report

EBC Pad 3, EBC #3



EBC Pad 3, EBC #3



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	EBC #3
Company:		TVD Reference:	EBC #3
Project:	East Bull Creek Well	MD Reference:	EBC #3
Site:	EBC Pad 3	North reference:	Grid North
Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 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	Latitude: 33.48902771° N
From:	Map	Easting:	0	Longitude: 115.33027986° W
Position Uncertainty:	6946ft	Slot Radius:	0in	Grid Convergence: -6.0°

Well	EBC #3			
Well Position:	+N/-S	1187929ft	Northing:	+1187929
	+E/-W	2445899ft	Easting:	+2445899
Position Uncertainty:		1ft	Wellhead Elevation:	6946ft
			Ground Level:	6930ft

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

Proposal	EBC #3 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	0.0

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					
500	0.0	0.0	500	0	0	0.0	0.0	0.0	0.0	
1741	37.2	0.0	1655	389	0	3.0	3.0	0.0	0.0	
3280	37.2	0.0	2881	1320	0	0.0	0.0	0.0	0.0	EBC 3 Pilot Top Coal
3577	28.3	0.0	3131	1481	0	3.0	-3.0	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	
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	
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	
510	0.3	0.0	510	-6436	0	0	0	0	0.0	3.0	
540	1.2	0.0	540	-6406	0	0	0	0	0.0	3.0	
570	2.1	0.0	570	-6376	1	0	1	1	0.0	3.0	

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Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 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
600	3.0	0.0	600	-6346	3	0	3	3	0.0	3.0	
630	3.9	0.0	630	-6316	4	0	4	4	0.0	3.0	
660	4.8	0.0	660	-6286	7	0	7	7	0.0	3.0	
690	5.7	0.0	690	-6256	9	0	9	9	0.0	3.0	
720	6.6	0.0	720	-6226	13	0	13	13	0.0	3.0	
750	7.5	0.0	749	-6197	16	0	16	16	0.0	3.0	
780	8.4	0.0	779	-6167	20	0	20	20	0.0	3.0	
810	9.3	0.0	809	-6137	25	0	25	25	0.0	3.0	
840	10.2	0.0	838	-6108	30	0	30	30	0.0	3.0	
870	11.1	0.0	868	-6078	36	0	36	36	0.0	3.0	
900	12.0	0.0	897	-6049	42	0	42	42	0.0	3.0	
930	12.9	0.0	926	-6020	48	0	48	48	0.0	3.0	
960	13.8	0.0	956	-5990	55	0	55	55	0.0	3.0	
990	14.7	0.0	985	-5961	63	0	63	63	0.0	3.0	
1020	15.6	0.0	1014	-5932	70	0	70	70	0.0	3.0	
1050	16.5	0.0	1042	-5904	79	0	79	79	0.0	3.0	
1080	17.4	0.0	1071	-5875	87	0	87	87	0.0	3.0	
1110	18.3	0.0	1100	-5846	97	0	97	97	0.0	3.0	
1140	19.2	0.0	1128	-5818	106	0	106	106	0.0	3.0	
1170	20.1	0.0	1156	-5790	116	0	116	116	0.0	3.0	
1200	21.0	0.0	1184	-5762	127	0	127	127	0.0	3.0	
1230	21.9	0.0	1212	-5734	138	0	138	138	0.0	3.0	
1260	22.8	0.0	1240	-5706	149	0	149	149	0.0	3.0	
1290	23.7	0.0	1268	-5678	161	0	161	161	0.0	3.0	
1320	24.6	0.0	1295	-5651	173	0	173	173	0.0	3.0	
1350	25.5	0.0	1322	-5624	186	0	186	186	0.0	3.0	
1380	26.4	0.0	1349	-5597	199	0	199	199	0.0	3.0	
1410	27.3	0.0	1376	-5570	213	0	213	213	0.0	3.0	
1440	28.2	0.0	1403	-5543	227	0	227	227	0.0	3.0	
1470	29.1	0.0	1429	-5517	241	0	241	241	0.0	3.0	
1500	30.0	0.0	1455	-5491	256	0	256	256	0.0	3.0	
1530	30.9	0.0	1481	-5465	271	0	271	271	0.0	3.0	
1560	31.8	0.0	1506	-5440	287	0	287	287	0.0	3.0	
1590	32.7	0.0	1532	-5414	303	0	303	303	0.0	3.0	
1620	33.6	0.0	1557	-5389	319	0	319	319	0.0	3.0	
1650	34.5	0.0	1582	-5364	336	0	336	336	0.0	3.0	
1680	35.4	0.0	1606	-5340	353	0	353	353	0.0	3.0	
1710	36.3	0.0	1631	-5315	371	0	371	371	0.0	3.0	
1740	37.2	0.0	1655	-5291	389	0	389	389	0.0	3.0	
1741	37.2	0.0	1655	-5291	389	0	389	389	0.0	3.0	
1800	37.2	0.0	1702	-5244	425	0	425	425	0.0	0.0	
1900	37.2	0.0	1782	-5164	485	0	485	485	0.0	0.0	
2000	37.2	0.0	1862	-5084	546	0	546	546	0.0	0.0	
2100	37.2	0.0	1941	-5005	606	0	606	606	0.0	0.0	
2200	37.2	0.0	2021	-4925	667	0	667	667	0.0	0.0	
2300	37.2	0.0	2101	-4845	727	0	727	727	0.0	0.0	
2400	37.2	0.0	2180	-4766	788	0	788	788	0.0	0.0	
2464	37.2	0.0	2231	-4715	826	0	826	826	0.0	0.0	Kirtland
2500	37.2	0.0	2260	-4686	848	0	848	848	0.0	0.0	
2578	37.2	0.0	2322	-4624	895	0	895	895	0.0	0.0	Farmington

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Well:	EBC #3	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	EBC #3 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
2600	37.2	0.0	2340	-4606	909	0	909	909	0.0	0.0	
2700	37.2	0.0	2419	-4527	969	0	969	969	0.0	0.0	
2800	37.2	0.0	2499	-4447	1030	0	1030	1030	0.0	0.0	
2900	37.2	0.0	2578	-4368	1090	0	1090	1090	0.0	0.0	
2932	37.2	0.0	2604	-4342	1110	0	1110	1110	0.0	0.0	Lower Kirtland
3000	37.2	0.0	2658	-4288	1151	0	1151	1151	0.0	0.0	
3100	37.2	0.0	2738	-4208	1211	0	1211	1211	0.0	0.0	
3200	37.2	0.0	2817	-4129	1272	0	1272	1272	0.0	0.0	
3280	37.2	0.0	2881	-4065	1320	0	1320	1320	0.0	0.0	Fruitland EBC 3 Pilot Top Coal
3300	36.6	0.0	2897	-4049	1332	0	1332	1332	0.0	3.0	
3330	35.7	0.0	2921	-4025	1350	0	1350	1350	0.0	3.0	
3360	34.8	0.0	2946	-4000	1367	0	1367	1367	0.0	3.0	
3383	34.1	0.0	2965	-3981	1380	0	1380	1380	0.0	3.0	Pictured Cliffs
3390	33.9	0.0	2971	-3975	1384	0	1384	1384	0.0	3.0	
3420	33.0	0.0	2996	-3950	1401	0	1401	1401	0.0	3.0	
3450	32.1	0.0	3021	-3925	1417	0	1417	1417	0.0	3.0	
3480	31.2	0.0	3046	-3900	1432	0	1432	1432	0.0	3.0	
3510	30.3	0.0	3072	-3874	1448	0	1448	1448	0.0	3.0	
3540	29.4	0.0	3098	-3848	1463	0	1463	1463	0.0	3.0	
3570	28.5	0.0	3124	-3822	1477	0	1477	1477	0.0	3.0	
3577	28.3	0.0	3131	-3815	1481	0	1481	1481	0.0	3.0	

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 3 Pilot Top Coal					2881	1320	0	+1189249	+2445899	37.17091658° N 107.40176888° W
- proposal hits the target center										
- Point										

Formations							Dip Angle (°)	Dip Direction (°)
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name					
16	16	-6930	Animas				0.0	0.0
2464	2231	-4715	Kirtland				0.0	0.0
2578	2322	-4624	Farmington				0.0	0.0
2932	2604	-4342	Lower Kirtland				0.0	0.0
3280	2881	-4065	Fruitland				0.0	0.0
3383	2965	-3981	Pictured Cliffs				0.0	0.0

Checked By:	Approved By:	Date:
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