

Catamount Energy Partners

Standard Planning Report

Elsa 34-6-19 #1

Sec 19U T34N R6W

La Plata County CO

August 21, 2014



Catamount Energy Partners

DIRECTIONAL DRILLING PLAN

Well: Elsa 34-6-19 #1
 STR: Sec 19U T34N R6W
 Location (Ft.): 1323FSL , 225FEL
 Field: Ignacio Blanco Field
 Co, State: La Plata County, Colorado

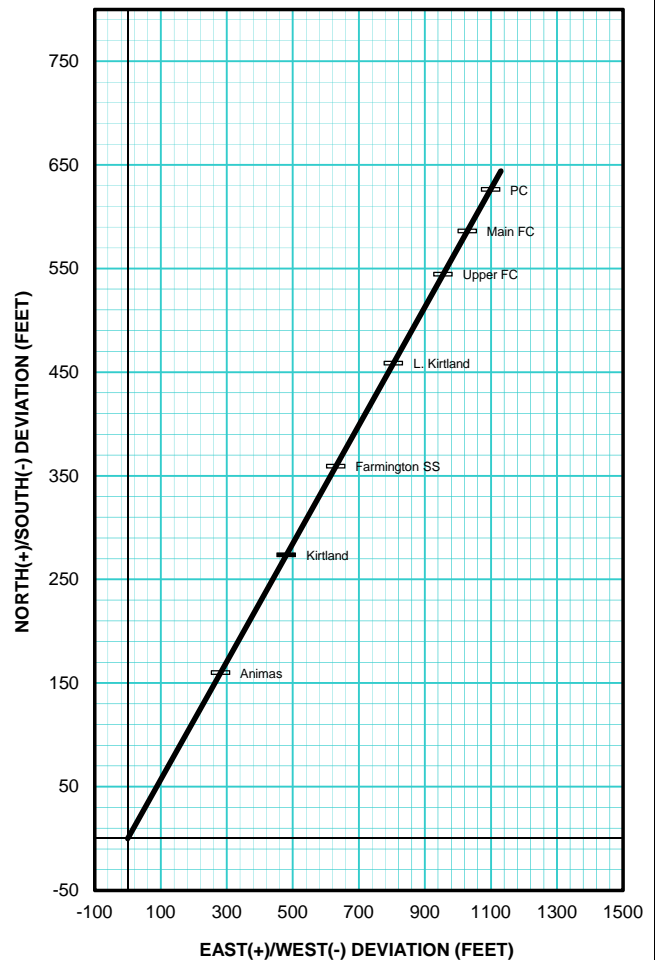
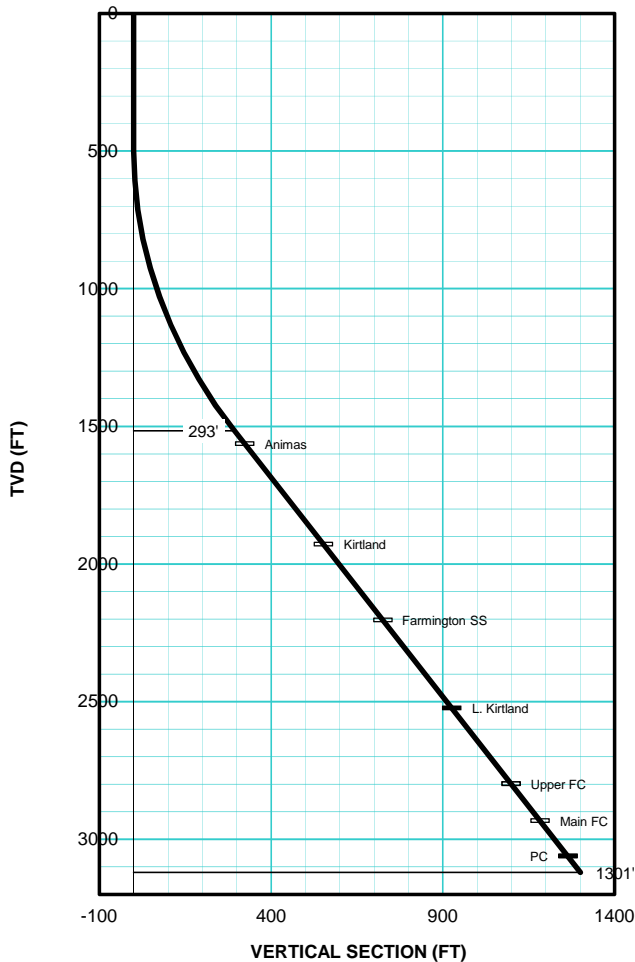
SECTION DETAILS

Section	MD	Incl	Azi	TVD	+N/-S	+E/-W	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00
3	1571.51	32.15	60.32	1516.18	144.97	254.37	292.78
4	3465.72	32.15	60.32	3120.00	644.00	1130.00	1300.63 PBHL

ESTIMATED FORMATION TOP DETAILS

Formation	TVD Path	MD Path	+N/-S	+E/-W
Animas	1564.00	1627.99	159.85	280.48
Kirtland Shale	1929.00	2059.08	273.42	479.76
Farmington Sandstone	2204.00	2383.87	358.99	629.90
Lower Kirtland Shale	2524.00	2761.81	458.55	804.61
Upper Fruitland Coal	2799.00	3086.60	544.12	954.75
Main Fruitland Coal	2933.00	3244.86	585.81	1027.90
Pictured Cliffs	3062.00	3397.21	625.95	1098.33

GL: 6975'
 KB: 6988'



Elsa 34-6-19 #1, Plan 1

Operator	Catamount Energy Partners			Units	feet, °/100ft		15:11 Thursday, August 21, 2014 Page 1 of 3			
Field	Ignacio Blanco			County	La Plata		Vertical Section Azimuth 60.3			
Well Name	Elsa 34-6-19 #1			State	CO		Survey Calculation Method Minimum Curvature			
Plan	1			Country			Database Access			
Location	1323 FSL 225 FEL			MapZone	UTM		Lat Long Ref	NAD83		
Site	S19U T34N R6W			SurfaceX	0		Surface Long	37.17266		
Slot Name	UWI			SurfaceY	0		Surface Lat	107.53366		
Well Number	API			Z Datum	KB					
Project				Surface Z	6988		Ground Level	6975		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00	0.00	0.00	6988.00
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00	0.00	0.00	6938.00
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	6888.00
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00	0.00	0.00	6838.00
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00	0.00	0.00	6788.00
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00	0.00	0.00	6738.00
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00	0.00	0.00	6688.00
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00	0.00	0.00	6638.00
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00	0.00	0.00	6588.00
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00	0.00	0.00	6538.00
*** KOPO (at MD = 500.00)										
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00	0.00	0.00	6488.00
550.00	1.50	60.3	549.99	0.32	0.57	3.00	0.65	0.57	0.32	6438.01
600.00	3.00	60.3	599.95	1.30	2.27	3.00	2.62	2.27	1.30	6388.05
650.00	4.50	60.3	649.85	2.92	5.12	3.00	5.89	5.12	2.92	6338.15
700.00	6.00	60.3	699.63	5.18	9.09	3.00	10.46	9.09	5.18	6288.37
750.00	7.50	60.3	749.29	8.09	14.20	3.00	16.34	14.20	8.09	6238.71
800.00	9.00	60.3	798.77	11.64	20.43	3.00	23.51	20.43	11.64	6189.23
850.00	10.50	60.3	848.04	15.84	27.79	3.00	31.98	27.79	15.84	6139.96
900.00	12.00	60.3	897.08	20.66	36.26	3.00	41.74	36.26	20.66	6090.92
950.00	13.50	60.3	945.85	26.13	45.85	3.00	52.77	45.85	26.13	6042.15
1000.00	15.00	60.3	994.31	32.22	56.54	3.00	65.08	56.54	32.22	5993.69
1050.00	16.50	60.3	1042.43	38.94	68.33	3.00	78.65	68.33	38.94	5945.57
1100.00	18.00	60.3	1090.18	46.28	81.21	3.00	93.48	81.21	46.28	5897.82
1150.00	19.50	60.3	1137.52	54.24	95.18	3.00	109.55	95.18	54.24	5850.48
1200.00	21.00	60.3	1184.43	62.81	110.21	3.00	126.85	110.21	62.81	5803.57
1250.00	22.50	60.3	1230.87	71.98	126.31	3.00	145.38	126.31	71.98	5757.13
1300.00	24.00	60.3	1276.81	81.76	143.45	3.00	165.12	143.45	81.76	5711.19
1350.00	25.50	60.3	1322.22	92.12	161.64	3.00	186.05	161.64	92.12	5665.78
1400.00	27.00	60.3	1367.06	103.07	180.85	3.00	208.16	180.85	103.07	5620.94
1450.00	28.50	60.3	1411.31	114.60	201.08	3.00	231.44	201.08	114.60	5576.69
1500.00	30.00	60.3	1454.93	126.69	222.30	3.00	255.87	222.30	126.69	5533.07
1550.00	31.50	60.3	1497.90	139.35	244.52	3.00	281.44	244.52	139.35	5490.10
1571.51	32.15	60.3	1516.18	144.97	254.37	3.00	292.78	254.37	144.97	5471.82
1600.00	32.15	60.3	1540.30	152.47	267.54	0.00	307.94	267.54	152.47	5447.70

Elsa 34-6-19 #1, Plan 1

Operator	Catamount Energy Partners			Units	feet, °/100ft		15:11 Thursday, August 21, 2014 Page 2 of 3			
Field	Ignacio Blanco			County	La Plata		Vertical Section Azimuth 60.3			
Well Name	Elsa 34-6-19 #1			State	CO		Survey Calculation Method Minimum Curvature			
Plan	1			Country			Database Access			
Location	1323 FSL 225 FEL			MapZone	UTM		Lat Long Ref	NAD83		
Site	S19U T34N R6W			SurfaceX	0		Surface Long	37.17266		
Slot Name	UWI			SurfaceY	0		Surface Lat	107.53366		
Well Number	API			Z Datum	KB					
Project				Surface Z	6988		Ground Level	6975		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
1650.00	32.15	60.3	1582.63	165.65	290.65	0.00	334.54	290.65	165.65	5405.37
1700.00	32.15	60.3	1624.97	178.82	313.77	0.00	361.14	313.77	178.82	5363.03
1750.00	32.15	60.3	1667.30	191.99	336.88	0.00	387.75	336.88	191.99	5320.70
1800.00	32.15	60.3	1709.64	205.16	359.99	0.00	414.35	359.99	205.16	5278.36
1850.00	32.15	60.3	1751.97	218.34	383.11	0.00	440.95	383.11	218.34	5236.03
1900.00	32.15	60.3	1794.31	231.51	406.22	0.00	467.56	406.22	231.51	5193.69
1950.00	32.15	60.3	1836.64	244.68	429.33	0.00	494.16	429.33	244.68	5151.36
2000.00	32.15	60.3	1878.98	257.85	452.45	0.00	520.77	452.45	257.85	5109.02
2050.00	32.15	60.3	1921.31	271.03	475.56	0.00	547.37	475.56	271.03	5066.69
2100.00	32.15	60.3	1963.65	284.20	498.67	0.00	573.97	498.67	284.20	5024.35
2150.00	32.15	60.3	2005.98	297.37	521.79	0.00	600.58	521.79	297.37	4982.02
2200.00	32.15	60.3	2048.32	310.54	544.90	0.00	627.18	544.90	310.54	4939.68
2250.00	32.15	60.3	2090.65	323.72	568.01	0.00	653.78	568.01	323.72	4897.35
2300.00	32.15	60.3	2132.99	336.89	591.13	0.00	680.39	591.13	336.89	4855.01
2350.00	32.15	60.3	2175.32	350.06	614.24	0.00	706.99	614.24	350.06	4812.68
2400.00	32.15	60.3	2217.66	363.24	637.35	0.00	733.59	637.35	363.24	4770.34
2450.00	32.15	60.3	2259.99	376.41	660.47	0.00	760.20	660.47	376.41	4728.01
2500.00	32.15	60.3	2302.33	389.58	683.58	0.00	786.80	683.58	389.58	4685.67
2550.00	32.15	60.3	2344.66	402.75	706.69	0.00	813.40	706.69	402.75	4643.34
2600.00	32.15	60.3	2387.00	415.93	729.81	0.00	840.01	729.81	415.93	4601.00
2650.00	32.15	60.3	2429.33	429.10	752.92	0.00	866.61	752.92	429.10	4558.67
2700.00	32.15	60.3	2471.67	442.27	776.03	0.00	893.21	776.03	442.27	4516.33
2750.00	32.15	60.3	2514.00	455.44	799.15	0.00	919.82	799.15	455.44	4474.00
2800.00	32.15	60.3	2556.34	468.62	822.26	0.00	946.42	822.26	468.62	4431.66
2850.00	32.15	60.3	2598.67	481.79	845.37	0.00	973.02	845.37	481.79	4389.33
2900.00	32.15	60.3	2641.01	494.96	868.49	0.00	999.63	868.49	494.96	4346.99
2950.00	32.15	60.3	2683.34	508.13	891.60	0.00	1026.23	891.60	508.13	4304.66
3000.00	32.15	60.3	2725.68	521.31	914.71	0.00	1052.84	914.71	521.31	4262.32
3050.00	32.15	60.3	2768.01	534.48	937.83	0.00	1079.44	937.83	534.48	4219.99
3100.00	32.15	60.3	2810.35	547.65	960.94	0.00	1106.04	960.94	547.65	4177.65
3150.00	32.15	60.3	2852.68	560.82	984.05	0.00	1132.65	984.05	560.82	4135.32
3200.00	32.15	60.3	2895.02	574.00	1007.17	0.00	1159.25	1007.17	574.00	4092.98
3250.00	32.15	60.3	2937.35	587.17	1030.28	0.00	1185.85	1030.28	587.17	4050.65
3300.00	32.15	60.3	2979.69	600.34	1053.39	0.00	1212.46	1053.39	600.34	4008.31
3350.00	32.15	60.3	3022.02	613.51	1076.51	0.00	1239.06	1076.51	613.51	3965.98

Elsa 34-6-19 #1, Plan 1

Operator	Catamount Energy Partners	Units	feet, °/100ft	15:11 Thursday, August 21, 2014	Page 3 of 3
Field	Ignacio Blanco	County	La Plata	Vertical Section Azimuth	60.3
Well Name	Elsa 34-6-19 #1	State	CO	Survey Calculation Method	Minimum Curvature
Plan	1	Country		Database	Access

Location	1323 FSL 225 FEL	MapZone	UTM	Lat Long Ref	NAD83
Site	S19U T34N R6W	SurfaceX	0	Surface Long	37.17266
Slot Name	UWI	SurfaceY	0	Surface Lat	107.53366
Well Number	API	Z Datum	KB		
Project		Surface Z	6988	Ground Level	6975

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
3400.00	32.15	60.3	3064.36	626.69	1099.62	0.00	1265.66	1099.62	626.69	3923.64
3450.00	32.15	60.3	3106.69	639.86	1122.74	0.00	1292.27	1122.74	639.86	3881.31
3465.72	32.15	60.3	3120.00	644.00	1130.00	0.00	1300.63	1130.00	644.00	3868.00