

Catamount Energy Partners

Standard Planning Report

Lynch 34-6-18 #1

Sec 18U T34N R6W

La Plata County CO

August 21, 2014



Catamount Energy Partners

DIRECTIONAL DRILLING PLAN

Well: Lynch 34-6-18 #1
 STR: Sec 18U T34N R6W
 Location (Ft.): 1774FNL , 211FWL
 Field: Ignacio Blanco Field
 Co, State: La Plata County, Colorado

SECTION DETAILS

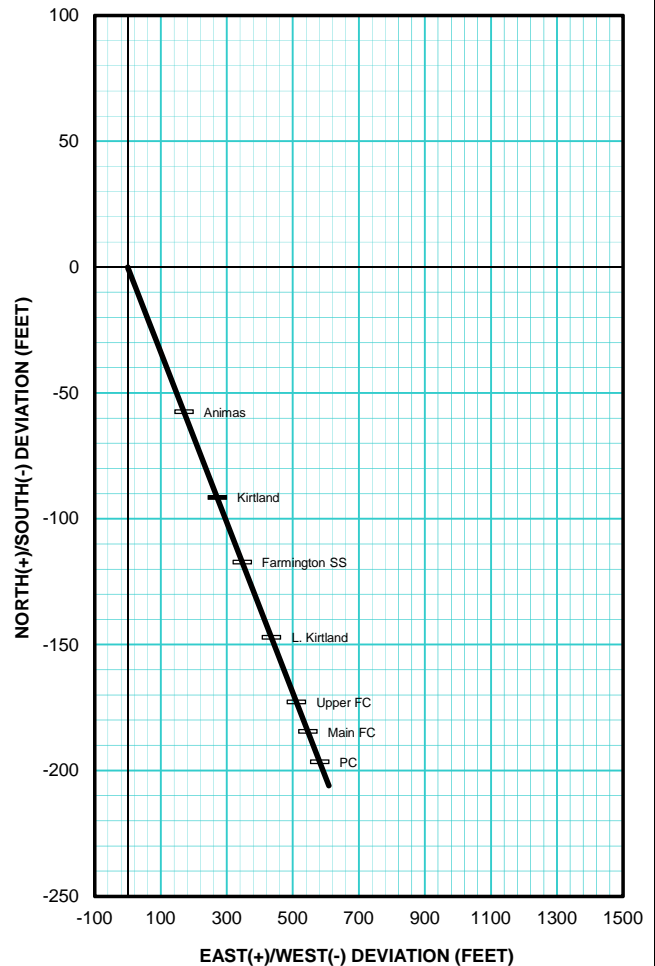
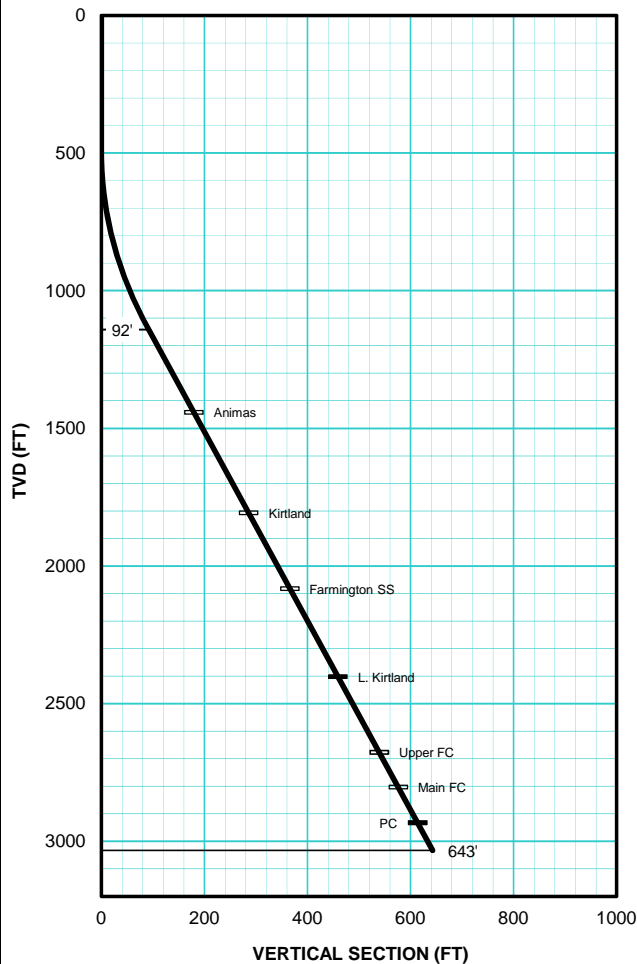
Section	MD	Incl	Azi	TVD	+N/-S	+E/-W	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00
3	1149.96	16.25	108.69	1141.28	-29.33	86.72	91.55
4	3120.39	16.25	108.69	3033.00	-206.00	609.00	642.90 PBHL

ESTIMATED FORMATION TOP DETAILS

Formation	TVD Path	MD Path	+N/-S	+E/-W
Animas	1443.00	1464.23	-57.51	170.02
Kirtland Shale	1808.00	1844.42	-91.60	270.79
Farmington Sandstone	2083.00	2130.86	-117.28	346.72
Lower Kirtland Shale	2403.00	2464.17	-147.16	435.07
Upper Fruitland Coal	2678.00	2750.62	-172.85	510.99
Main Fruitland Coal	2804.00	2881.86	-184.61	545.78
Pictured Cliffs	2933.00	3016.23	-196.66	581.39

GL: 6858'

KB: 6871'



Lynch 34-6-18 #1, Plan 1

Operator	Catamount Energy Partners			Units	feet, °/100ft		11:09 Thursday, August 21, 2014 Page 1 of 2			
Field	Ignacio Blanco			County	La Plata		Vertical Section Azimuth	110.1		
Well Name	Lynch 34-6-18 #1			State	CO		Survey Calculation Method	Minimum Curvature		
Plan	1			Country			Database	Access		
Location	1774 FNL 211 FWL			MapZone	UTM		Lat Long Ref	NAD83		
Site	S18U T34N R7W			SurfaceX	0		Surface Long	-107.54956		
Slot Name	UWI			SurfaceY	0		Surface Lat	37.19352		
Well Number	API			Z Datum	KB					
Project				Surface Z	6871		Ground Level	6858		
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	6871.00
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00	0.00	0.00	6821.00
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	6771.00
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00	0.00	0.00	6721.00
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00	0.00	0.00	6671.00
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00	0.00	0.00	6621.00
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00	0.00	0.00	6571.00
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00	0.00	0.00	6521.00
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00	0.00	0.00	6471.00
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00	0.00	0.00	6421.00
*** KOP (at MD = 500.00)										
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00	0.00	0.00	6371.00
550.00	1.25	108.7	550.00	-0.17	0.52	2.50	0.55	0.52	-0.17	6321.00
600.00	2.50	108.7	599.97	-0.70	2.07	2.50	2.18	2.07	-0.70	6271.03
650.00	3.75	108.7	649.89	-1.57	4.65	2.50	4.91	4.65	-1.57	6221.11
700.00	5.00	108.7	699.75	-2.79	8.26	2.50	8.72	8.26	-2.79	6171.25
750.00	6.25	108.7	749.50	-4.36	12.90	2.50	13.62	12.90	-4.36	6121.50
800.00	7.50	108.7	799.14	-6.28	18.57	2.50	19.60	18.57	-6.28	6071.86
850.00	8.75	108.7	848.64	-8.55	25.27	2.50	26.67	25.27	-8.55	6022.36
900.00	10.00	108.7	897.97	-11.16	32.98	2.50	34.81	32.98	-11.16	5973.03
950.00	11.25	108.7	947.11	-14.11	41.72	2.50	44.02	41.72	-14.11	5923.89
1000.00	12.50	108.7	996.04	-17.41	51.46	2.50	54.31	51.46	-17.41	5874.96
1050.00	13.75	108.7	1044.74	-21.05	62.22	2.50	65.66	62.22	-21.05	5826.26
1100.00	15.00	108.7	1093.17	-25.02	73.97	2.50	78.07	73.97	-25.02	5777.83
1149.96	16.25	108.7	1141.28	-29.33	86.72	2.50	91.52	86.72	-29.33	5729.72
1150.00	16.25	108.7	1141.32	-29.34	86.73	0.00	91.53	86.73	-29.34	5729.68
1200.00	16.25	108.7	1189.32	-33.82	99.98	0.00	105.52	99.98	-33.82	5681.68
1250.00	16.25	108.7	1237.33	-38.30	113.24	0.00	119.50	113.24	-38.30	5633.67
1300.00	16.25	108.7	1285.33	-42.79	126.49	0.00	133.49	126.49	-42.79	5585.67
1350.00	16.25	108.7	1333.33	-47.27	139.74	0.00	147.48	139.74	-47.27	5537.67
1400.00	16.25	108.7	1381.33	-51.75	153.00	0.00	161.46	153.00	-51.75	5489.67
1450.00	16.25	108.7	1429.34	-56.24	166.25	0.00	175.45	166.25	-56.24	5441.66
1500.00	16.25	108.7	1477.34	-60.72	179.50	0.00	189.44	179.50	-60.72	5393.66
1550.00	16.25	108.7	1525.34	-65.20	192.76	0.00	203.42	192.76	-65.20	5345.66
1600.00	16.25	108.7	1573.35	-69.68	206.01	0.00	217.41	206.01	-69.68	5297.65

Lynch 34-6-18 #1, Plan 1

Operator	Catamount Energy Partners			Units	feet, °/100ft		11:09 Thursday, August 21, 2014 Page 2 of 2			
Field	Ignacio Blanco			County	La Plata		Vertical Section Azimuth		110.1	
Well Name	Lynch 34-6-18 #1			State	CO		Survey Calculation Method		Minimum Curvature	
Plan	1			Country			Database	Access		
Location	1774 FNL 211 FWL			MapZone	UTM		Lat Long Ref	NAD83		
Site	S18U T34N R7W			SurfaceX	0		Surface Long	-107.54956		
Slot Name	UWI			SurfaceY	0		Surface Lat	37.19352		
Well Number	API			Z Datum	KB					
Project				Surface Z	6871		Ground Level	6858		
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	16.25	108.7	1621.35	-74.17	219.26	0.00	231.39	219.26	-74.17	5249.65
1700.00	16.25	108.7	1669.35	-78.65	232.51	0.00	245.38	232.51	-78.65	5201.65
1750.00	16.25	108.7	1717.35	-83.13	245.77	0.00	259.37	245.77	-83.13	5153.65
1800.00	16.25	108.7	1765.36	-87.62	259.02	0.00	273.35	259.02	-87.62	5105.64
1850.00	16.25	108.7	1813.36	-92.10	272.27	0.00	287.34	272.27	-92.10	5057.64
1900.00	16.25	108.7	1861.36	-96.58	285.53	0.00	301.33	285.53	-96.58	5009.64
1950.00	16.25	108.7	1909.36	-101.06	298.78	0.00	315.31	298.78	-101.06	4961.64
2000.00	16.25	108.7	1957.37	-105.55	312.03	0.00	329.30	312.03	-105.55	4913.63
2050.00	16.25	108.7	2005.37	-110.03	325.28	0.00	343.29	325.28	-110.03	4865.63
2100.00	16.25	108.7	2053.37	-114.51	338.54	0.00	357.27	338.54	-114.51	4817.63
2150.00	16.25	108.7	2101.38	-119.00	351.79	0.00	371.26	351.79	-119.00	4769.62
2200.00	16.25	108.7	2149.38	-123.48	365.04	0.00	385.24	365.04	-123.48	4721.62
2250.00	16.25	108.7	2197.38	-127.96	378.30	0.00	399.23	378.30	-127.96	4673.62
2300.00	16.25	108.7	2245.38	-132.45	391.55	0.00	413.22	391.55	-132.45	4625.62
2350.00	16.25	108.7	2293.39	-136.93	404.80	0.00	427.20	404.80	-136.93	4577.61
2400.00	16.25	108.7	2341.39	-141.41	418.06	0.00	441.19	418.06	-141.41	4529.61
2450.00	16.25	108.7	2389.39	-145.89	431.31	0.00	455.18	431.31	-145.89	4481.61
2500.00	16.25	108.7	2437.39	-150.38	444.56	0.00	469.16	444.56	-150.38	4433.61
2550.00	16.25	108.7	2485.40	-154.86	457.81	0.00	483.15	457.81	-154.86	4385.60
2600.00	16.25	108.7	2533.40	-159.34	471.07	0.00	497.14	471.07	-159.34	4337.60
2650.00	16.25	108.7	2581.40	-163.83	484.32	0.00	511.12	484.32	-163.83	4289.60
2700.00	16.25	108.7	2629.41	-168.31	497.57	0.00	525.11	497.57	-168.31	4241.59
2750.00	16.25	108.7	2677.41	-172.79	510.83	0.00	539.10	510.83	-172.79	4193.59
2800.00	16.25	108.7	2725.41	-177.27	524.08	0.00	553.08	524.08	-177.27	4145.59
2850.00	16.25	108.7	2773.41	-181.76	537.33	0.00	567.07	537.33	-181.76	4097.59
2900.00	16.25	108.7	2821.42	-186.24	550.58	0.00	581.05	550.58	-186.24	4049.58
2950.00	16.25	108.7	2869.42	-190.72	563.84	0.00	595.04	563.84	-190.72	4001.58
3000.00	16.25	108.7	2917.42	-195.21	577.09	0.00	609.03	577.09	-195.21	3953.58
3050.00	16.25	108.7	2965.42	-199.69	590.34	0.00	623.01	590.34	-199.69	3905.58
3100.00	16.25	108.7	3013.43	-204.17	603.60	0.00	637.00	603.60	-204.17	3857.57
3120.39	16.25	108.7	3033.00	-206.00	609.00	0.00	642.70	609.00	-206.00	3838.00