

Coleman Oil & Gas

La Plata County CO

SEC 34-7-34 #1

La Plata 34-7-34 #1

Lateral #2

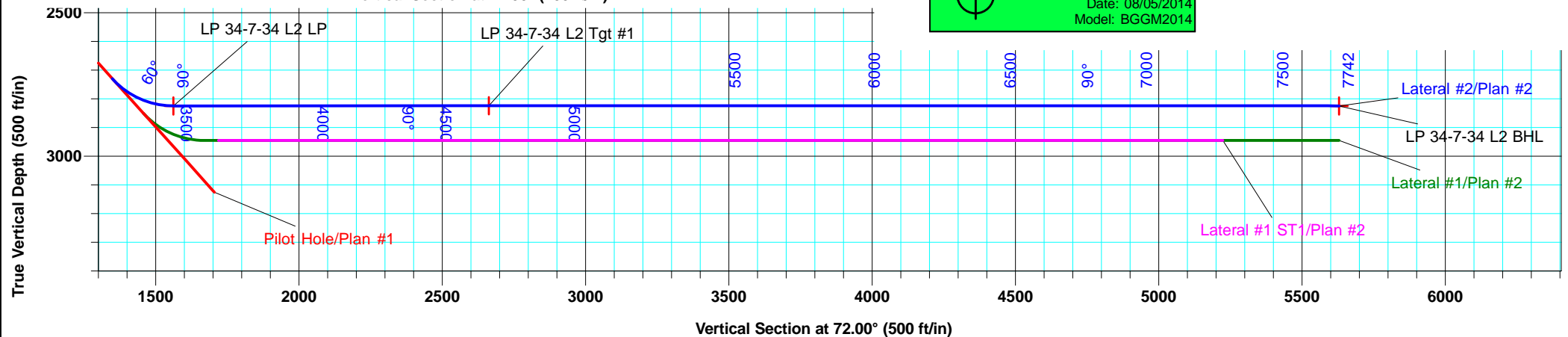
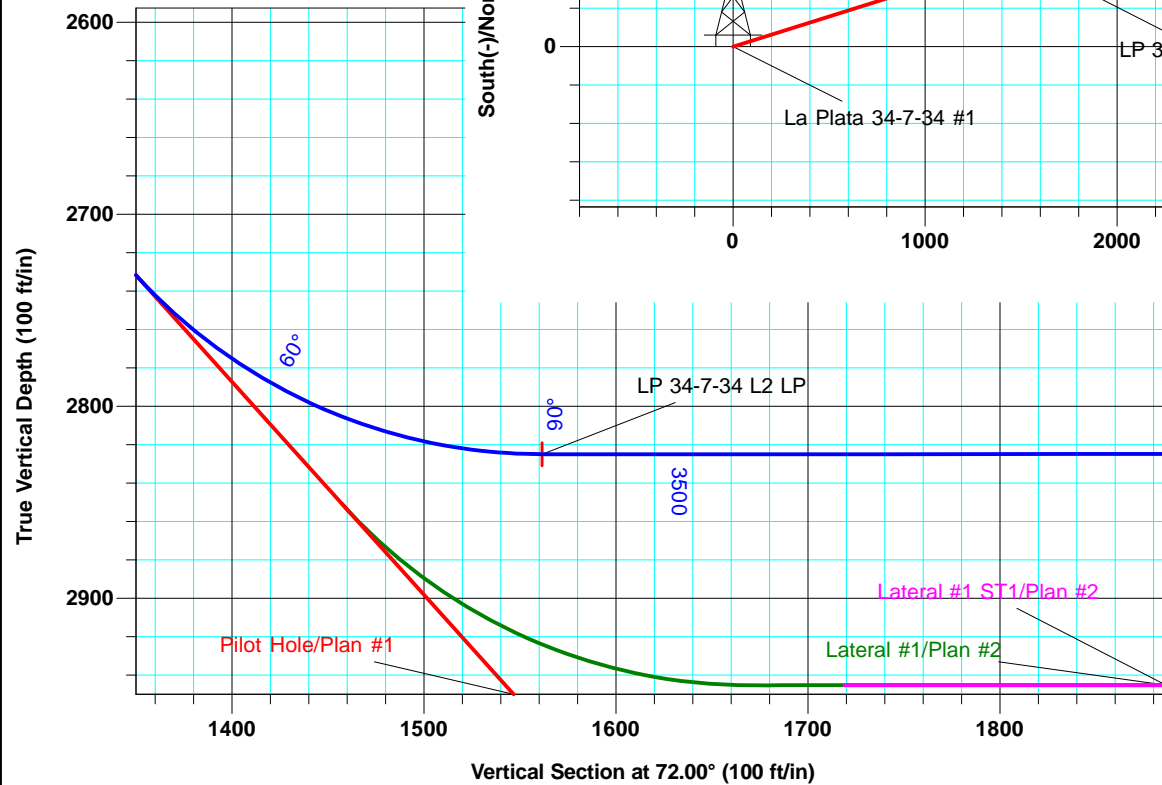
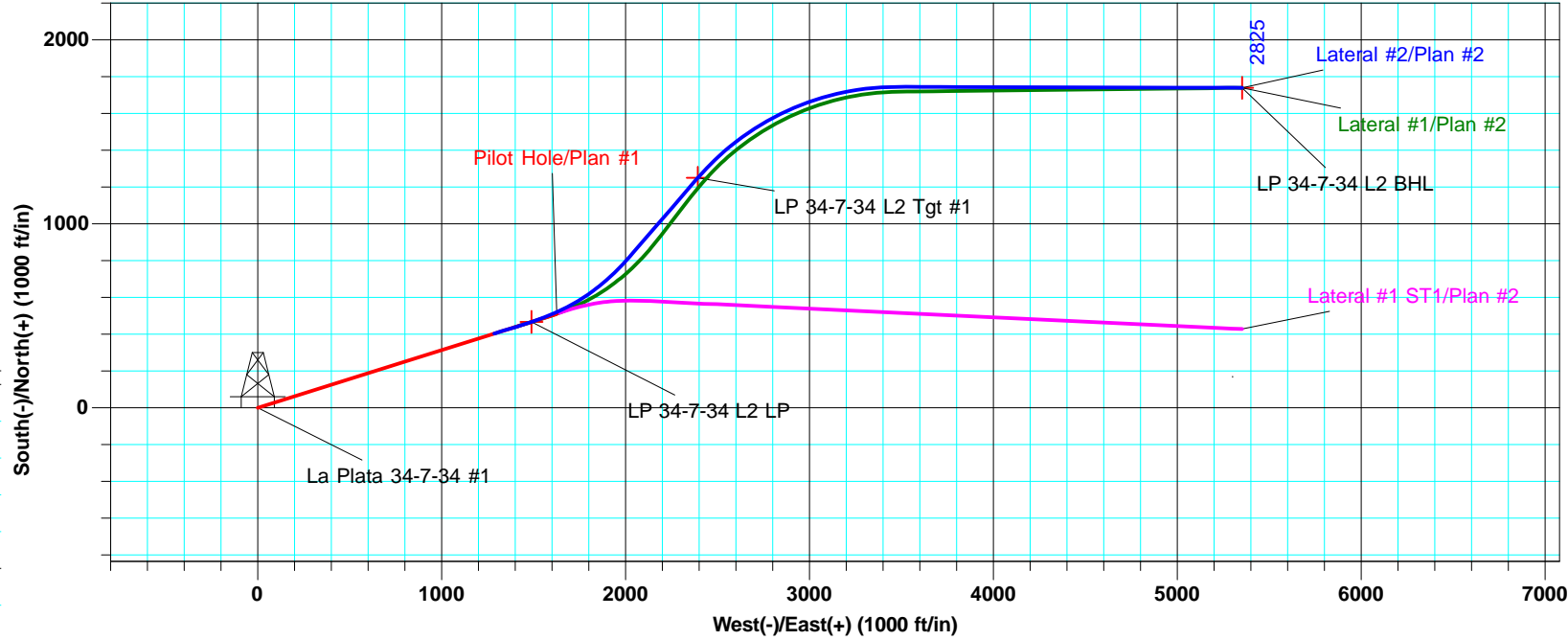
Plan: Plan #2

Standard Planning Report

14 November, 2014



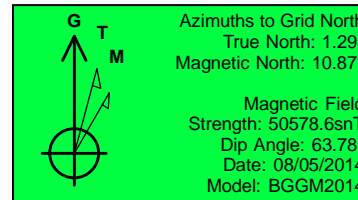
Project: La Plata County CO
 Site: SEC 34-7-34 #1
 Well: La Plata 34-7-34 #1
 Wellbore: Lateral #2
 Design: Plan #2



WELL DETAILS La Plata 34-7-34 #1						
			Ground Level	6726.0		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1179575.80	2385725.20	37° 8' 26.916 N	107° 36' 26.928 W	

SITE DETAILS: SEC 34-7-34 #1	
Site Centre Northing:	1179575.80
Easting:	2385725.20
Positional Uncertainty:	1.0
Convergence:	-1.29
Local North:	Grid

PROJECT DETAILS: La Plata County CO	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Colorado Southern Zone
System Datum:	Mean Sea Level



ALL AZIMUTHS MUST BE CORRECTED TO GRID NORTH
 To convert a Magnetic Direction to a Grid Direction, Add 10.87°
 To convert a True Direction to a Grid Direction, Add 1.29°

Database:	EDM 5000.1 Old	Local Co-ordinate Reference:	Well La Plata 34-7-34 #1
Company:	Coleman Oil & Gas	TVD Reference:	DFE @ 6738.5ft (GL + 12.5')
Project:	La Plata County CO	MD Reference:	DFE @ 6738.5ft (GL + 12.5')
Site:	SEC 34-7-34 #1	North Reference:	Grid
Well:	La Plata 34-7-34 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Project	La Plata County CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Southern Zone		Using geodetic scale factor

Site	SEC 34-7-34 #1		
Site Position:		Northing:	1,179,575.80 usft
From:	Lat/Long	Easting:	2,385,725.21 usft
Position Uncertainty:	1.0 ft	Slot Radius:	6-1/8 "
		Latitude:	37° 8' 26.916 N
		Longitude:	107° 36' 26.928 W
		Grid Convergence:	-1.29 °

Well	La Plata 34-7-34 #1, FC Horizontal		
Well Position	+N/-S	0.0 ft	Northing: 1,179,575.80 usft
	+E/-W	0.0 ft	Easting: 2,385,725.21 usft
Position Uncertainty		1.0 ft	Wellhead Elevation:
			Ground Level: 6,726.0 ft

Wellbore	Lateral #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	08/05/14	9.58	63.78	50,579

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	3,182.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	72.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,182.0	42.02	72.58	2,730.3	403.8	1,286.9	0.00	0.00	0.00	0.00	
3,421.9	90.00	72.58	2,825.0	467.5	1,490.0	20.00	20.00	0.00	0.00	LP 34-7-34 L2 LP
4,055.7	90.02	40.89	2,824.9	810.8	2,013.2	5.00	0.00	-5.00	-89.96	
4,636.7	90.02	40.89	2,824.7	1,250.0	2,393.5	0.00	0.00	0.00	0.00	LP 34-7-34 L2 Tgt #
5,868.1	89.99	90.15	2,824.6	1,744.8	3,480.0	4.00	0.00	4.00	90.04	
7,741.9	89.99	90.15	2,825.0	1,740.0	5,353.7	0.00	0.00	0.00	0.00	LP 34-7-34 L2 BHL

Database:	EDM 5000.1 Old	Local Co-ordinate Reference:	Well La Plata 34-7-34 #1
Company:	Coleman Oil & Gas	TVD Reference:	DFE @ 6738.5ft (GL + 12.5')
Project:	La Plata County CO	MD Reference:	DFE @ 6738.5ft (GL + 12.5')
Site:	SEC 34-7-34 #1	North Reference:	Grid
Well:	La Plata 34-7-34 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	360.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	360.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	360.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	360.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	360.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	72.58	600.0	0.8	2.5	2.6	3.00	3.00	0.00
700.0	6.00	72.58	699.6	3.1	10.0	10.5	3.00	3.00	0.00
800.0	9.00	72.58	798.8	7.0	22.4	23.5	3.00	3.00	0.00
900.0	12.00	72.58	897.1	12.5	39.8	41.7	3.00	3.00	0.00
1,000.0	15.00	72.58	994.3	19.5	62.1	65.1	3.00	3.00	0.00
1,100.0	18.00	72.58	1,090.2	28.0	89.2	93.5	3.00	3.00	0.00
1,200.0	21.00	72.58	1,184.4	38.0	121.0	126.8	3.00	3.00	0.00
1,300.0	24.00	72.58	1,276.8	49.4	157.5	165.1	3.00	3.00	0.00
1,400.0	27.00	72.58	1,367.1	62.3	198.6	208.2	3.00	3.00	0.00
1,500.0	30.00	72.58	1,454.9	76.6	244.1	255.9	3.00	3.00	0.00
1,600.0	33.00	72.58	1,540.2	92.2	294.0	308.1	3.00	3.00	0.00
1,700.0	36.00	72.58	1,622.6	109.2	348.0	364.7	3.00	3.00	0.00
1,800.0	39.00	72.58	1,701.9	127.4	406.1	425.6	3.00	3.00	0.00
1,900.8	42.02	72.58	1,778.5	147.0	468.5	491.0	3.00	3.00	0.00
2,000.0	42.02	72.58	1,852.2	166.9	531.9	557.5	0.00	0.00	0.00
2,100.0	42.02	72.58	1,926.5	187.0	595.8	624.4	0.00	0.00	0.00
2,200.0	42.02	72.58	2,000.8	207.0	659.7	691.3	0.00	0.00	0.00
2,300.0	42.02	72.58	2,075.1	227.0	723.5	758.3	0.00	0.00	0.00
2,400.0	42.02	72.58	2,149.4	247.1	787.4	825.2	0.00	0.00	0.00
2,500.0	42.02	72.58	2,223.7	267.1	851.3	892.2	0.00	0.00	0.00
2,600.0	42.02	72.58	2,298.0	287.2	915.2	959.1	0.00	0.00	0.00
2,700.0	42.02	72.58	2,372.2	307.2	979.0	1,026.0	0.00	0.00	0.00
2,800.0	42.02	72.58	2,446.5	327.2	1,042.9	1,093.0	0.00	0.00	0.00
2,900.0	42.02	72.58	2,520.8	347.3	1,106.8	1,159.9	0.00	0.00	0.00
3,000.0	42.02	72.58	2,595.1	367.3	1,170.6	1,226.9	0.00	0.00	0.00
3,100.0	42.02	72.58	2,669.4	387.4	1,234.5	1,293.8	0.00	0.00	0.00
3,182.0	42.02	72.58	2,730.3	403.8	1,286.9	1,348.7	0.00	0.00	0.00
3,200.0	45.62	72.58	2,743.3	407.5	1,298.8	1,361.2	20.00	20.00	0.00
3,225.0	50.62	72.58	2,760.0	413.1	1,316.5	1,379.8	20.00	20.00	0.00
3,250.0	55.62	72.58	2,775.0	419.1	1,335.6	1,399.7	20.00	20.00	0.00
3,275.0	60.62	72.58	2,788.2	425.4	1,355.9	1,421.0	20.00	20.00	0.00
3,300.0	65.62	72.58	2,799.5	432.1	1,377.1	1,443.3	20.00	20.00	0.00
3,325.0	70.62	72.58	2,808.8	439.1	1,399.3	1,466.5	20.00	20.00	0.00
3,350.0	75.62	72.58	2,816.1	446.2	1,422.1	1,490.4	20.00	20.00	0.00
3,375.0	80.62	72.58	2,821.2	453.5	1,445.4	1,514.8	20.00	20.00	0.00
3,400.0	85.62	72.58	2,824.2	461.0	1,469.1	1,539.6	20.00	20.00	0.00
3,421.9	90.00	72.58	2,825.0	467.5	1,490.0	1,561.5	20.00	20.00	0.00
LP 34-7-34 L2 LP									
3,500.0	90.00	68.67	2,825.0	493.4	1,563.6	1,639.6	5.00	0.00	-5.00
3,600.0	90.01	63.67	2,825.0	533.8	1,655.1	1,739.0	5.00	0.00	-5.00
3,700.0	90.01	58.67	2,825.0	582.0	1,742.7	1,837.2	5.00	0.00	-5.00
3,800.0	90.01	53.67	2,825.0	637.7	1,825.7	1,933.4	5.00	0.00	-5.00
3,900.0	90.02	48.67	2,825.0	700.3	1,903.6	2,026.8	5.00	0.00	-5.00
4,000.0	90.02	43.67	2,824.9	769.6	1,975.7	2,116.8	5.00	0.00	-5.00
4,055.7	90.02	40.89	2,824.9	810.8	2,013.2	2,165.2	5.00	0.00	-5.00
4,100.0	90.02	40.89	2,824.9	844.3	2,042.2	2,203.1	0.00	0.00	0.00
4,200.0	90.02	40.89	2,824.8	919.9	2,107.6	2,288.7	0.00	0.00	0.00
4,300.0	90.02	40.89	2,824.8	995.5	2,173.1	2,374.4	0.00	0.00	0.00

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Site:	SEC 34-7-34 #1	North Reference:	Grid
Well:	La Plata 34-7-34 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.0	90.02	40.89	2,824.8	1,071.1	2,238.6	2,460.0	0.00	0.00	0.00
4,500.0	90.02	40.89	2,824.7	1,146.7	2,304.0	2,545.6	0.00	0.00	0.00
4,600.0	90.02	40.89	2,824.7	1,222.2	2,369.5	2,631.2	0.00	0.00	0.00
4,636.7	90.02	40.89	2,824.7	1,250.0	2,393.5	2,662.7	0.00	0.00	0.00
LP 34-7-34 L2 Tgt #1									
4,700.0	90.02	43.42	2,824.7	1,296.9	2,436.0	2,717.6	4.00	0.00	4.00
4,800.0	90.02	47.42	2,824.6	1,367.1	2,507.2	2,807.0	4.00	0.00	4.00
4,900.0	90.01	51.42	2,824.6	1,432.1	2,583.1	2,899.3	4.00	0.00	4.00
5,000.0	90.01	55.42	2,824.6	1,491.7	2,663.4	2,994.1	4.00	0.00	4.00
5,100.0	90.01	59.42	2,824.6	1,545.5	2,747.7	3,090.8	4.00	0.00	4.00
5,200.0	90.01	63.42	2,824.5	1,593.4	2,835.5	3,189.1	4.00	0.00	4.00
5,300.0	90.00	67.42	2,824.5	1,635.0	2,926.4	3,288.4	4.00	0.00	4.00
5,400.0	90.00	71.42	2,824.5	1,670.1	3,020.0	3,388.3	4.00	0.00	4.00
5,500.0	90.00	75.42	2,824.5	1,698.6	3,115.8	3,488.3	4.00	0.00	4.00
5,600.0	89.99	79.42	2,824.5	1,720.4	3,213.4	3,587.8	4.00	0.00	4.00
5,700.0	89.99	83.42	2,824.5	1,735.3	3,312.2	3,686.4	4.00	0.00	4.00
5,800.0	89.99	87.42	2,824.6	1,743.3	3,411.9	3,783.7	4.00	0.00	4.00
5,868.1	89.99	90.15	2,824.6	1,744.8	3,480.0	3,848.9	4.00	0.00	4.00
5,900.0	89.99	90.15	2,824.6	1,744.7	3,511.9	3,879.2	0.00	0.00	0.00
6,000.0	89.99	90.15	2,824.6	1,744.4	3,611.9	3,974.2	0.00	0.00	0.00
6,100.0	89.99	90.15	2,824.6	1,744.2	3,711.9	4,069.2	0.00	0.00	0.00
6,200.0	89.99	90.15	2,824.7	1,743.9	3,811.9	4,164.2	0.00	0.00	0.00
6,300.0	89.99	90.15	2,824.7	1,743.7	3,911.9	4,259.3	0.00	0.00	0.00
6,400.0	89.99	90.15	2,824.7	1,743.4	4,011.9	4,354.3	0.00	0.00	0.00
6,500.0	89.99	90.15	2,824.7	1,743.1	4,111.9	4,449.3	0.00	0.00	0.00
6,600.0	89.99	90.15	2,824.7	1,742.9	4,211.9	4,544.3	0.00	0.00	0.00
6,700.0	89.99	90.15	2,824.8	1,742.6	4,311.9	4,639.4	0.00	0.00	0.00
6,800.0	89.99	90.15	2,824.8	1,742.4	4,411.9	4,734.4	0.00	0.00	0.00
6,900.0	89.99	90.15	2,824.8	1,742.1	4,511.9	4,829.4	0.00	0.00	0.00
7,000.0	89.99	90.15	2,824.8	1,741.9	4,611.9	4,924.4	0.00	0.00	0.00
7,100.0	89.99	90.15	2,824.9	1,741.6	4,711.9	5,019.5	0.00	0.00	0.00
7,200.0	89.99	90.15	2,824.9	1,741.4	4,811.9	5,114.5	0.00	0.00	0.00
7,300.0	89.99	90.15	2,824.9	1,741.1	4,911.9	5,209.5	0.00	0.00	0.00
7,400.0	89.99	90.15	2,824.9	1,740.9	5,011.9	5,304.5	0.00	0.00	0.00
7,500.0	89.99	90.15	2,824.9	1,740.6	5,111.9	5,399.6	0.00	0.00	0.00
7,600.0	89.99	90.15	2,825.0	1,740.4	5,211.9	5,494.6	0.00	0.00	0.00
7,700.0	89.99	90.15	2,825.0	1,740.1	5,311.9	5,589.6	0.00	0.00	0.00
7,741.9	89.99	90.15	2,825.0	1,740.0	5,353.7	5,629.4	0.00	0.00	0.00
LP 34-7-34 L2 BHL									

Database:	EDM 5000.1 Old	Local Co-ordinate Reference:	Well La Plata 34-7-34 #1
Company:	Coleman Oil & Gas	TVD Reference:	DFE @ 6738.5ft (GL + 12.5')
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Site:	SEC 34-7-34 #1	North Reference:	Grid
Well:	La Plata 34-7-34 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP 34-7-34 L2 Tgt #1 - plan hits target center - Point	0.00	360.00	2,824.7	1,250.0	2,393.5	1,180,825.82	2,388,118.75	37° 8' 39.805 N	107° 35' 57.722 W
LP 34-7-34 L2 BHL - plan hits target center - Point	0.00	360.00	2,825.0	1,740.0	5,353.7	1,181,315.83	2,391,079.04	37° 8' 45.304 N	107° 35' 21.305 W
LP 34-7-34 L2 LP - plan hits target center - Point	0.00	360.00	2,825.0	467.5	1,490.0	1,180,043.33	2,387,215.19	37° 8' 31.869 N	107° 36' 8.661 W