

Coleman Oil & Gas

La Plata County CO

SEC 34-7-34 #1

La Plata 34-7-34 #1

Lateral #1 ST1

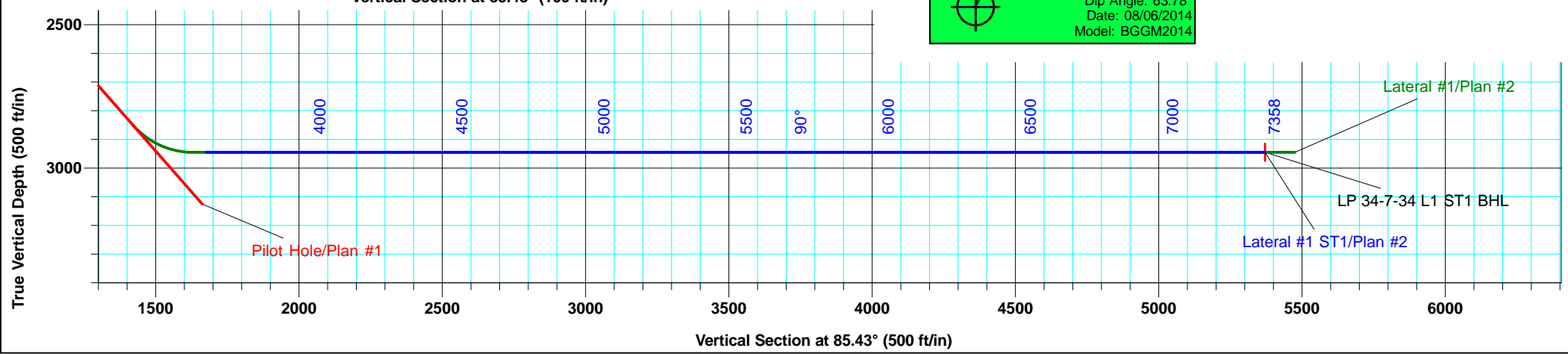
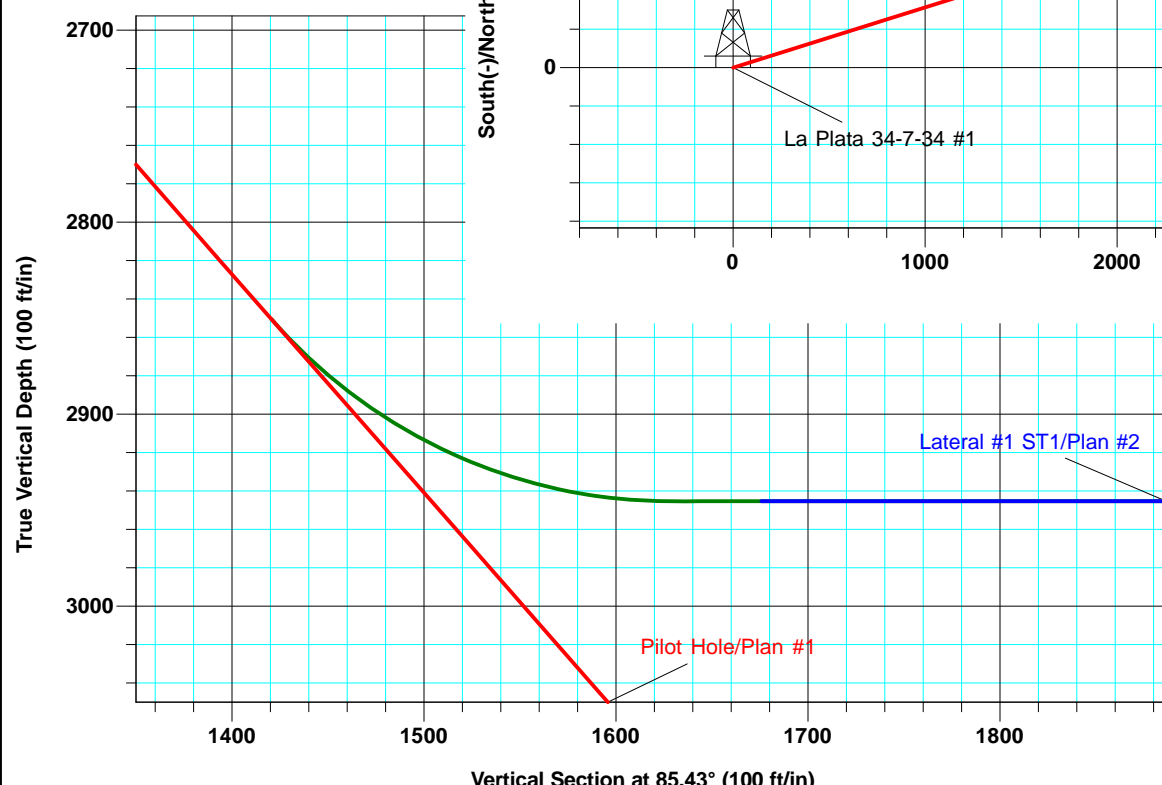
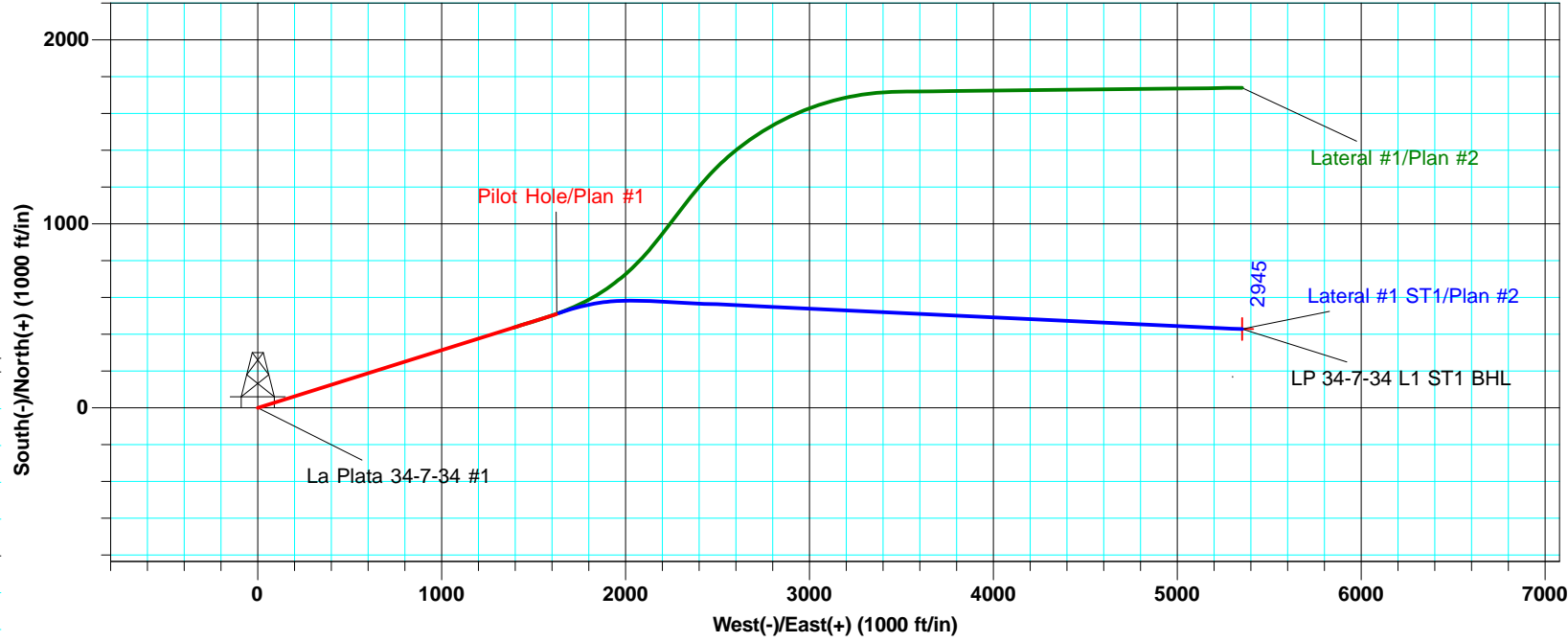
Plan: Plan #2

Standard Planning Report

14 November, 2014

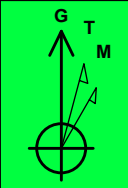


Project: La Plata County CO
 Site: SEC 34-7-34 #1
 Well: La Plata 34-7-34 #1
 Wellbore: Lateral #1 ST1
 Design: Plan #2



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
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Azimuths to Grid North
 True North: 1.29°
 Magnetic North: 10.87°

Magnetic Field
 Strength: 50578.2snT
 Dip Angle: 63.78°
 Date: 08/06/2014
 Model: BGGM2014

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 #1 ST1		
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:	Latitude: 37° 8' 26.916 N
			Longitude: 107° 36' 26.928 W
			Ground Level: 6,726.0 ft

Wellbore	Lateral #1 ST1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	08/06/14	9.58	63.78	50,578

Design	Plan #2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	3,633.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	85.43	

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
3,633.0	90.00	70.12	2,945.4	515.7	1,640.0	0.00	0.00	0.00	0.00	
4,084.7	90.00	92.71	2,945.4	582.7	2,083.7	5.00	0.00	5.00	90.00	
7,358.4	90.00	92.71	2,945.4	428.0	5,353.7	0.00	0.00	0.00	0.00	LP 34-7-34 L1 ST1

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 #1 ST1		
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	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	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	10.2	3.00	3.00	0.00
800.0	9.00	72.58	798.8	7.0	22.4	22.9	3.00	3.00	0.00
900.0	12.00	72.58	897.1	12.5	39.8	40.7	3.00	3.00	0.00
1,000.0	15.00	72.58	994.3	19.5	62.1	63.4	3.00	3.00	0.00
1,100.0	18.00	72.58	1,090.2	28.0	89.2	91.1	3.00	3.00	0.00
1,200.0	21.00	72.58	1,184.4	38.0	121.0	123.7	3.00	3.00	0.00
1,300.0	24.00	72.58	1,276.8	49.4	157.5	161.0	3.00	3.00	0.00
1,400.0	27.00	72.58	1,367.1	62.3	198.6	202.9	3.00	3.00	0.00
1,500.0	30.00	72.58	1,454.9	76.6	244.1	249.5	3.00	3.00	0.00
1,600.0	33.00	72.58	1,540.2	92.2	294.0	300.4	3.00	3.00	0.00
1,700.0	36.00	72.58	1,622.6	109.2	348.0	355.6	3.00	3.00	0.00
1,800.0	39.00	72.58	1,701.9	127.4	406.1	415.0	3.00	3.00	0.00
1,900.8	42.02	72.58	1,778.5	147.0	468.5	478.8	3.00	3.00	0.00
2,000.0	42.02	72.58	1,852.2	166.9	531.9	543.5	0.00	0.00	0.00
2,100.0	42.02	72.58	1,926.5	187.0	595.8	608.8	0.00	0.00	0.00
2,200.0	42.02	72.58	2,000.8	207.0	659.7	674.1	0.00	0.00	0.00
2,300.0	42.02	72.58	2,075.1	227.0	723.5	739.3	0.00	0.00	0.00
2,400.0	42.02	72.58	2,149.4	247.1	787.4	804.6	0.00	0.00	0.00
2,500.0	42.02	72.58	2,223.7	267.1	851.3	869.9	0.00	0.00	0.00
2,600.0	42.02	72.58	2,298.0	287.2	915.2	935.1	0.00	0.00	0.00
2,700.0	42.02	72.58	2,372.2	307.2	979.0	1,000.4	0.00	0.00	0.00
2,800.0	42.02	72.58	2,446.5	327.2	1,042.9	1,065.7	0.00	0.00	0.00
2,900.0	42.02	72.58	2,520.8	347.3	1,106.8	1,130.9	0.00	0.00	0.00
3,000.0	42.02	72.58	2,595.1	367.3	1,170.6	1,196.2	0.00	0.00	0.00
3,100.0	42.02	72.58	2,669.4	387.4	1,234.5	1,261.5	0.00	0.00	0.00
3,200.0	42.02	72.58	2,743.7	407.4	1,298.4	1,326.7	0.00	0.00	0.00
3,302.7	42.02	72.58	2,820.0	428.0	1,364.0	1,393.8	0.00	0.00	0.00
3,344.0	42.02	72.58	2,850.7	436.3	1,390.4	1,420.7	0.00	0.00	0.00
3,350.0	43.22	72.58	2,855.1	437.5	1,394.2	1,424.7	20.00	20.00	0.00
3,375.0	48.22	72.58	2,872.5	442.8	1,411.3	1,442.1	20.00	20.00	0.00
3,400.0	53.22	72.58	2,888.3	448.6	1,429.8	1,461.0	20.00	20.00	0.00
3,425.0	58.22	72.58	2,902.4	454.8	1,449.5	1,481.1	20.00	20.00	0.00
3,450.0	63.22	72.58	2,914.6	461.3	1,470.3	1,502.4	20.00	20.00	0.00
3,475.0	68.22	72.58	2,924.9	468.2	1,492.0	1,524.6	20.00	20.00	0.00
3,500.0	73.22	72.58	2,933.2	475.2	1,514.5	1,547.6	20.00	20.00	0.00
3,525.0	78.22	72.58	2,939.3	482.5	1,537.6	1,571.2	20.00	20.00	0.00
3,550.0	83.22	72.58	2,943.4	489.9	1,561.2	1,595.2	20.00	20.00	0.00
3,575.0	88.22	72.58	2,945.2	497.3	1,584.9	1,619.5	20.00	20.00	0.00
3,583.9	90.00	72.58	2,945.4	500.0	1,593.4	1,628.2	20.00	20.00	0.00
3,600.0	90.00	71.77	2,945.4	504.9	1,608.8	1,643.9	5.00	0.00	-5.00
3,633.0	90.00	70.12	2,945.4	515.7	1,640.0	1,675.8	5.00	0.00	-5.00
3,700.0	90.00	73.47	2,945.4	536.6	1,703.6	1,740.9	5.00	0.00	5.00
3,800.0	90.00	78.47	2,945.4	560.8	1,800.6	1,839.5	5.00	0.00	5.00
3,900.0	90.00	83.47	2,945.4	576.5	1,899.3	1,939.2	5.00	0.00	5.00
4,000.0	90.00	88.47	2,945.4	583.6	1,999.0	2,039.2	5.00	0.00	5.00
4,084.7	90.00	92.71	2,945.4	582.7	2,083.7	2,123.5	5.00	0.00	5.00
4,100.0	90.00	92.71	2,945.4	582.0	2,099.0	2,138.7	0.00	0.00	0.00

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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 #1 ST1		
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)
4,200.0	90.00	92.71	2,945.4	577.2	2,198.9	2,237.9	0.00	0.00	0.00
4,300.0	90.00	92.71	2,945.4	572.5	2,298.8	2,337.1	0.00	0.00	0.00
4,400.0	90.00	92.71	2,945.4	567.8	2,398.7	2,436.3	0.00	0.00	0.00
4,500.0	90.00	92.71	2,945.4	563.1	2,498.5	2,535.5	0.00	0.00	0.00
4,600.0	90.00	92.71	2,945.4	558.3	2,598.4	2,634.7	0.00	0.00	0.00
4,700.0	90.00	92.71	2,945.4	553.6	2,698.3	2,733.9	0.00	0.00	0.00
4,800.0	90.00	92.71	2,945.4	548.9	2,798.2	2,833.0	0.00	0.00	0.00
4,900.0	90.00	92.71	2,945.4	544.2	2,898.1	2,932.2	0.00	0.00	0.00
5,000.0	90.00	92.71	2,945.4	539.4	2,998.0	3,031.4	0.00	0.00	0.00
5,100.0	90.00	92.71	2,945.4	534.7	3,097.9	3,130.6	0.00	0.00	0.00
5,200.0	90.00	92.71	2,945.4	530.0	3,197.8	3,229.8	0.00	0.00	0.00
5,300.0	90.00	92.71	2,945.4	525.3	3,297.6	3,329.0	0.00	0.00	0.00
5,400.0	90.00	92.71	2,945.4	520.5	3,397.5	3,428.2	0.00	0.00	0.00
5,500.0	90.00	92.71	2,945.4	515.8	3,497.4	3,527.4	0.00	0.00	0.00
5,600.0	90.00	92.71	2,945.4	511.1	3,597.3	3,626.6	0.00	0.00	0.00
5,700.0	90.00	92.71	2,945.4	506.4	3,697.2	3,725.8	0.00	0.00	0.00
5,800.0	90.00	92.71	2,945.4	501.6	3,797.1	3,825.0	0.00	0.00	0.00
5,900.0	90.00	92.71	2,945.4	496.9	3,897.0	3,924.2	0.00	0.00	0.00
6,000.0	90.00	92.71	2,945.4	492.2	3,996.9	4,023.4	0.00	0.00	0.00
6,100.0	90.00	92.71	2,945.4	487.5	4,096.8	4,122.6	0.00	0.00	0.00
6,200.0	90.00	92.71	2,945.4	482.7	4,196.6	4,221.8	0.00	0.00	0.00
6,300.0	90.00	92.71	2,945.4	478.0	4,296.5	4,321.0	0.00	0.00	0.00
6,400.0	90.00	92.71	2,945.4	473.3	4,396.4	4,420.2	0.00	0.00	0.00
6,500.0	90.00	92.71	2,945.4	468.6	4,496.3	4,519.3	0.00	0.00	0.00
6,600.0	90.00	92.71	2,945.4	463.8	4,596.2	4,618.5	0.00	0.00	0.00
6,700.0	90.00	92.71	2,945.4	459.1	4,696.1	4,717.7	0.00	0.00	0.00
6,800.0	90.00	92.71	2,945.4	454.4	4,796.0	4,816.9	0.00	0.00	0.00
6,900.0	90.00	92.71	2,945.4	449.7	4,895.9	4,916.1	0.00	0.00	0.00
7,000.0	90.00	92.71	2,945.4	444.9	4,995.8	5,015.3	0.00	0.00	0.00
7,100.0	90.00	92.71	2,945.4	440.2	5,095.6	5,114.5	0.00	0.00	0.00
7,200.0	90.00	92.71	2,945.4	435.5	5,195.5	5,213.7	0.00	0.00	0.00
7,300.0	90.00	92.71	2,945.4	430.8	5,295.4	5,312.9	0.00	0.00	0.00
7,358.4	90.00	92.71	2,945.4	428.0	5,353.7	5,370.8	0.00	0.00	0.00
LP 34-7-34 L1 ST1 BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP 34-7-34 L1 ST1 Bt - hit/miss target - Shape - Point	0.00	360.00	2,945.4	428.0	5,353.7	1,180,003.81	2,391,079.04	37° 8' 32.336 N	107° 35' 20.943 W