

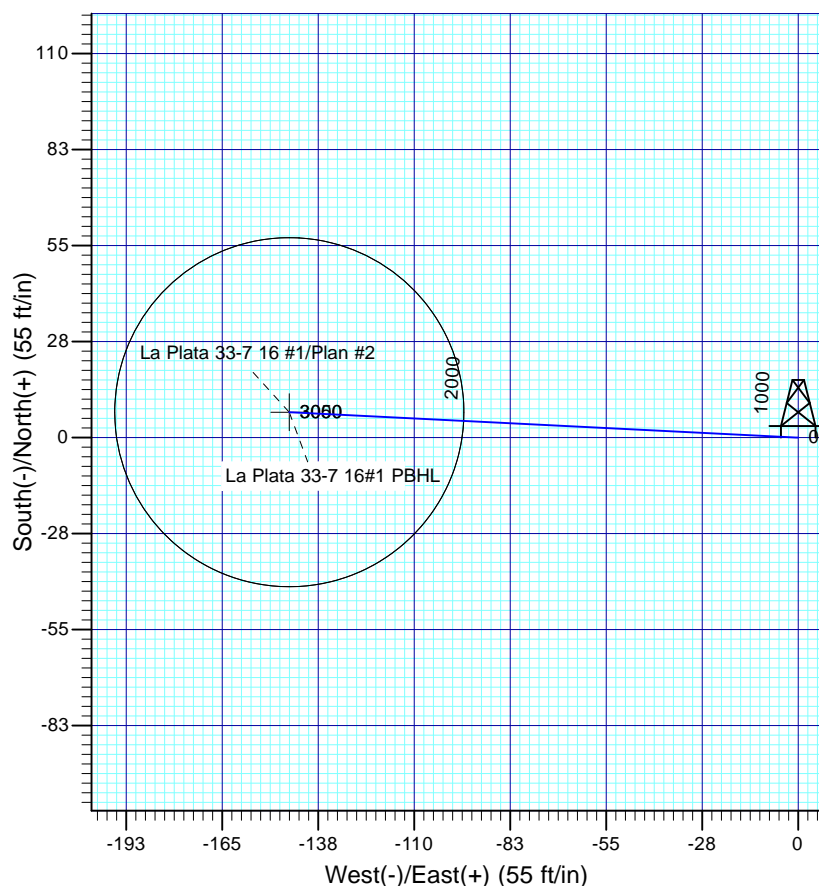
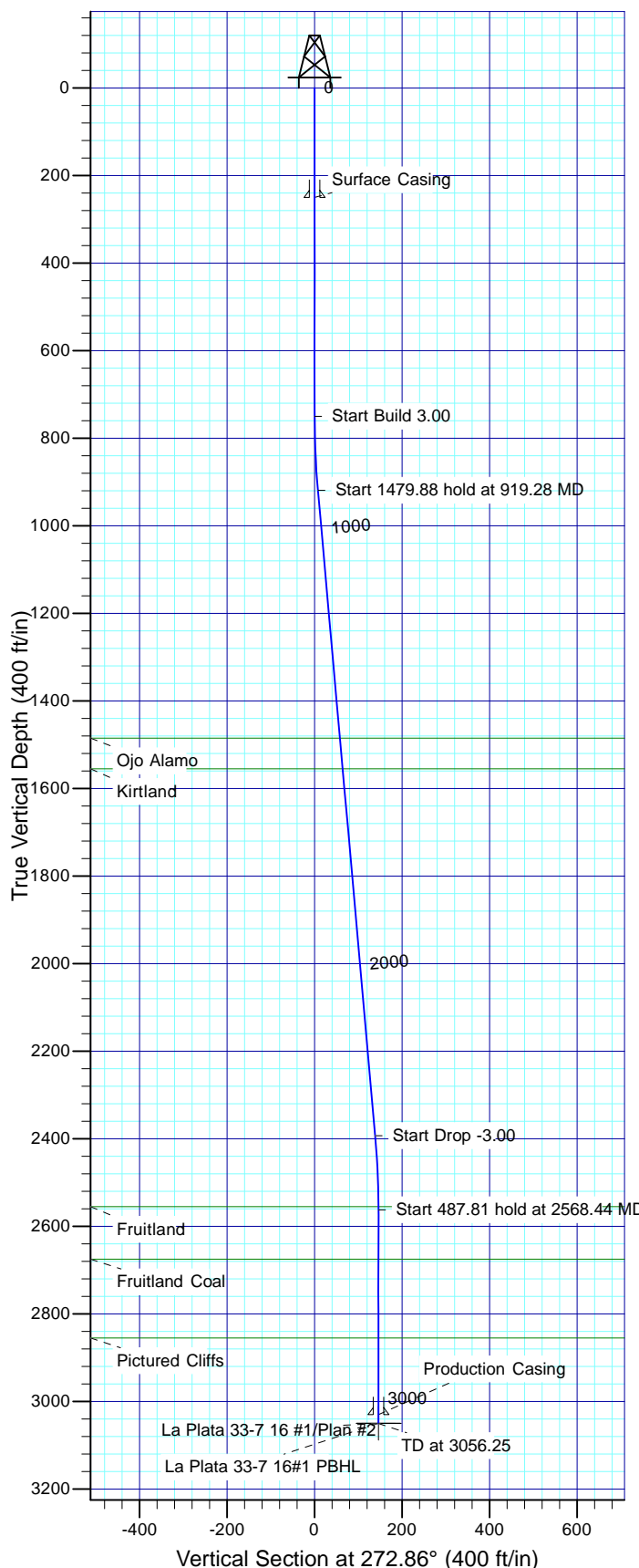
Well Details: La Plata 33-7 16 #1

TVD Reference: GL 6577' & RKB 15' @ 6592.00ft Ground Level: 6577.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1167776.14	2385534.78	37° 6' 30.240 N	107° 36' 25.992 W	

T M Azimuths to True North
Magnetic North: 9.66°

Magnetic Field
Strength: 50695.7snT
Dip Angle: 63.77°
Date: 7/23/2013
Model: BGGM2013



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1485.00	1487.45	Ojo Alamo
1555.00	1557.73	Kirtland
2555.00	2561.25	Fruitland
2675.00	2681.25	Fruitland Coal
2855.00	2861.25	Pictured Cliffs

Plan: Plan #2

15:46, December 19 2013
Created By: Janie Collins

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

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
3	919.28	5.08	272.86	919.06	0.37	-7.49	3.00	272.86	7.50	
4	2399.16	5.08	272.86	2393.13	6.91	-138.32	0.00	0.00	138.50	
5	2568.44	0.00	0.00	2562.19	7.28	-145.81	3.00	180.00	145.99	
6	3056.25	0.00	0.00	3050.00	7.28	-145.81	0.00	0.00	145.99	La Plata 33-7 16#1 PBHL

Coleman Oil & Gas Inc.

La Plata County, CO

La Plata

La Plata 33-7 16 #1

OH

Plan: Plan #2

Standard Planning Report

19 December, 2013



Database:	Grand Junction District	Local Co-ordinate Reference:	Well La Plata 33-7 16 #1
Company:	Coleman Oil & Gas Inc.	TVD Reference:	GL 6577' & RKB 15' @ 6592.00ft
Project:	La Plata County, CO	MD Reference:	GL 6577' & RKB 15' @ 6592.00ft
Site:	La Plata	North Reference:	True
Well:	La Plata 33-7 16 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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		
Map Zone:	Colorado Southern Zone		

Site	La Plata				
Site Position:		Northing:	1,167,776.14 usft	Latitude:	37° 6' 30.240 N
From:	Lat/Long	Easting:	2,385,534.78 usft	Longitude:	107° 36' 25.992 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.29 °

Well	La Plata 33-7 16 #1					
Well Position	+N/-S	0.00 ft	Northing:	1,167,776.14 usft	Latitude:	37° 6' 30.240 N
	+E/-W	0.00 ft	Easting:	2,385,534.78 usft	Longitude:	107° 36' 25.992 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,577.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	7/23/2013	9.66	63.77	50,696

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	272.86

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
919.28	5.08	272.86	919.06	0.37	-7.49	3.00	3.00	0.00	272.86	
2,399.16	5.08	272.86	2,393.13	6.91	-138.32	0.00	0.00	0.00	0.00	
2,568.44	0.00	0.00	2,562.19	7.28	-145.81	3.00	-3.00	0.00	180.00	
3,056.25	0.00	0.00	3,050.00	7.28	-145.81	0.00	0.00	0.00	0.00	La Plata 33-7 16#1 PI

Database:	Grand Junction District	Local Co-ordinate Reference:	Well La Plata 33-7 16 #1
Company:	Coleman Oil & Gas Inc.	TVD Reference:	GL 6577' & RKB 15' @ 6592.00ft
Project:	La Plata County, CO	MD Reference:	GL 6577' & RKB 15' @ 6592.00ft
Site:	La Plata	North Reference:	True
Well:	La Plata 33-7 16 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	1.50	272.86	799.99	0.03	-0.65	0.65	3.00	3.00	0.00
900.00	4.50	272.86	899.85	0.29	-5.88	5.89	3.00	3.00	0.00
919.28	5.08	272.86	919.06	0.37	-7.49	7.50	3.00	3.00	0.00
1,000.00	5.08	272.86	999.46	0.73	-14.62	14.64	0.00	0.00	0.00
1,100.00	5.08	272.86	1,099.07	1.17	-23.47	23.49	0.00	0.00	0.00
1,200.00	5.08	272.86	1,198.68	1.61	-32.31	32.35	0.00	0.00	0.00
1,300.00	5.08	272.86	1,298.28	2.06	-41.15	41.20	0.00	0.00	0.00
1,400.00	5.08	272.86	1,397.89	2.50	-49.99	50.05	0.00	0.00	0.00
1,487.45	5.08	272.86	1,485.00	2.88	-57.72	57.79	0.00	0.00	0.00
Ojo Alamo									
1,500.00	5.08	272.86	1,497.50	2.94	-58.83	58.90	0.00	0.00	0.00
1,557.73	5.08	272.86	1,555.00	3.19	-63.93	64.01	0.00	0.00	0.00
Kirtland									
1,600.00	5.08	272.86	1,597.11	3.38	-67.67	67.75	0.00	0.00	0.00
1,700.00	5.08	272.86	1,696.71	3.82	-76.51	76.61	0.00	0.00	0.00
1,800.00	5.08	272.86	1,796.32	4.26	-85.35	85.46	0.00	0.00	0.00
1,900.00	5.08	272.86	1,895.93	4.70	-94.19	94.31	0.00	0.00	0.00
2,000.00	5.08	272.86	1,995.54	5.15	-103.03	103.16	0.00	0.00	0.00
2,100.00	5.08	272.86	2,095.14	5.59	-111.88	112.02	0.00	0.00	0.00
2,200.00	5.08	272.86	2,194.75	6.03	-120.72	120.87	0.00	0.00	0.00
2,300.00	5.08	272.86	2,294.36	6.47	-129.56	129.72	0.00	0.00	0.00
2,399.16	5.08	272.86	2,393.13	6.91	-138.32	138.50	0.00	0.00	0.00
2,400.00	5.05	272.86	2,393.97	6.91	-138.40	138.57	3.00	-3.00	0.00
2,500.00	2.05	272.86	2,493.76	7.22	-144.59	144.77	3.00	-3.00	0.00
2,561.25	0.22	272.86	2,555.00	7.28	-145.80	145.98	3.00	-3.00	0.00
Fruitland									
2,568.44	0.00	0.00	2,562.19	7.28	-145.81	145.99	3.00	-3.00	0.00
2,600.00	0.00	0.00	2,593.75	7.28	-145.81	145.99	0.00	0.00	0.00
2,681.25	0.00	0.00	2,675.00	7.28	-145.81	145.99	0.00	0.00	0.00
Fruitland Coal									
2,700.00	0.00	0.00	2,693.75	7.28	-145.81	145.99	0.00	0.00	0.00
2,800.00	0.00	0.00	2,793.75	7.28	-145.81	145.99	0.00	0.00	0.00
2,861.25	0.00	0.00	2,855.00	7.28	-145.81	145.99	0.00	0.00	0.00
Pictured Cliffs									
2,900.00	0.00	0.00	2,893.75	7.28	-145.81	145.99	0.00	0.00	0.00
3,000.00	0.00	0.00	2,993.75	7.28	-145.81	145.99	0.00	0.00	0.00
3,036.25	0.00	0.00	3,030.00	7.28	-145.81	145.99	0.00	0.00	0.00
Production Casing									
3,056.25	0.00	0.00	3,050.00	7.28	-145.81	145.99	0.00	0.00	0.00
La Plata 33-7 16#1 PBHL									

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Project:	La Plata County, CO	MD Reference:	GL 6577' & RKB 15' @ 6592.00ft
Site:	La Plata	North Reference:	True
Well:	La Plata 33-7 16 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
La Plata 33-7 16#1 PBH	0.00	0.00	3,050.00	7.28	-145.81	1,167,786.71	2,385,389.17	37° 6' 30.312 N	107° 36' 27.792 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
250.00	250.00	Surface Casing	9.625	12.250	
3,036.25	3,030.00	Production Casing	7.000	8.750	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,487.45	1,485.00	Ojo Alamo		0.00	
1,557.73	1,555.00	Kirtland		0.00	
2,561.25	2,555.00	Fruitland		0.00	
2,681.25	2,675.00	Fruitland Coal		0.00	
2,861.25	2,855.00	Pictured Cliffs		0.00	