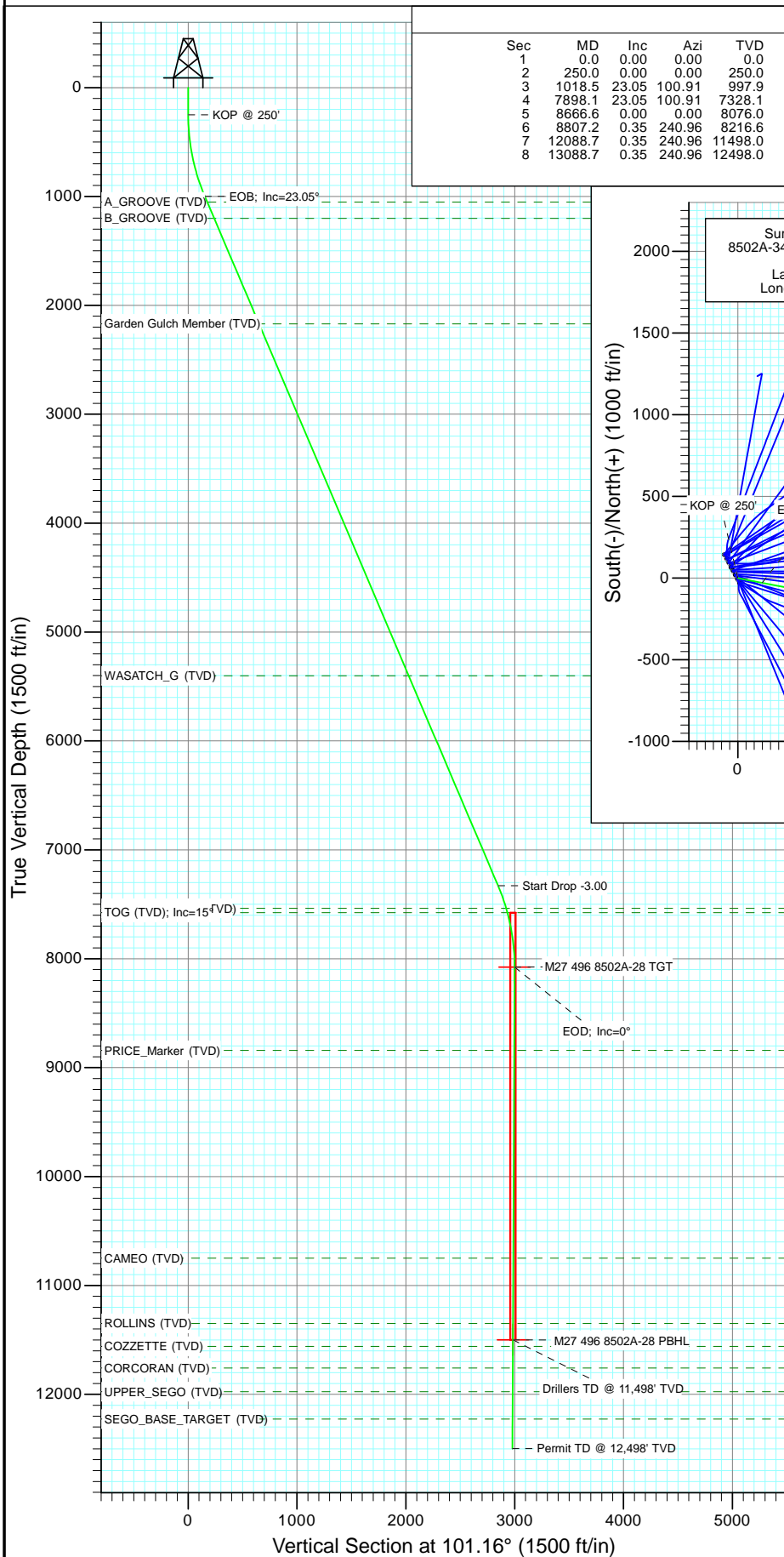


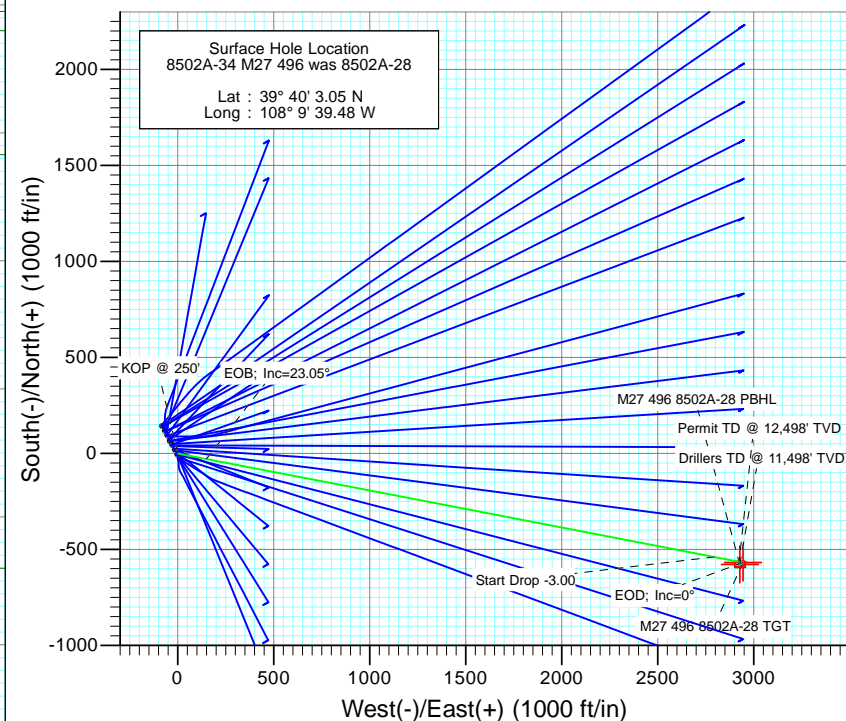


Project: Story Gulch
Site: S27-T4S-R96W (M27 496)
Well: 8502A-34 M27 496 was 8502A-28
Wellbore: DD
Design: Plan #2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	
3	1018.5	23.05	100.91	997.9	-28.9	149.8	3.00	100.91	152.5	
4	7898.1	23.05	100.91	7328.1	-538.7	2795.2	0.00	0.00	2846.6	
5	8666.6	0.00	0.00	8076.0	-567.6	2945.0	3.00	180.00	2999.2	M27 496 8502A-28 TGT
6	8807.2	0.35	240.96	8216.6	-567.8	2944.6	0.25	240.96	2998.8	
7	12088.7	0.35	240.96	11498.0	-577.6	2927.0	0.00	0.00	2983.5	M27 496 8502A-28 PBHL
8	13088.7	0.35	240.96	12498.0	-580.5	2921.7	0.00	0.00	2978.8	



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1050.0	1075.1	A_GROOVE (TVD)
1200.0	1238.1	B_GROOVE (TVD)
2169.0	2291.2	Garden Gulch Member (TVD)
5400.0	5802.7	WASATCH_G (TVD)
7536.0	8119.1	WILLIAMS_FORK (TVD)
7576.0	8160.7	TOG (TVD); Inc=15°
8842.0	9432.6	PRICE_Marker (TVD)
10748.0	11338.7	CAMEO (TVD)
11348.0	11938.7	ROLLINS (TVD)
11558.0	12148.7	COZZETTE (TVD)
11758.0	12348.7	CORCORAN (TVD)
11975.0	12565.7	UPPER_SEGO (TVD)
12225.0	12815.7	SEGO_BASE_TARGET (TVD)



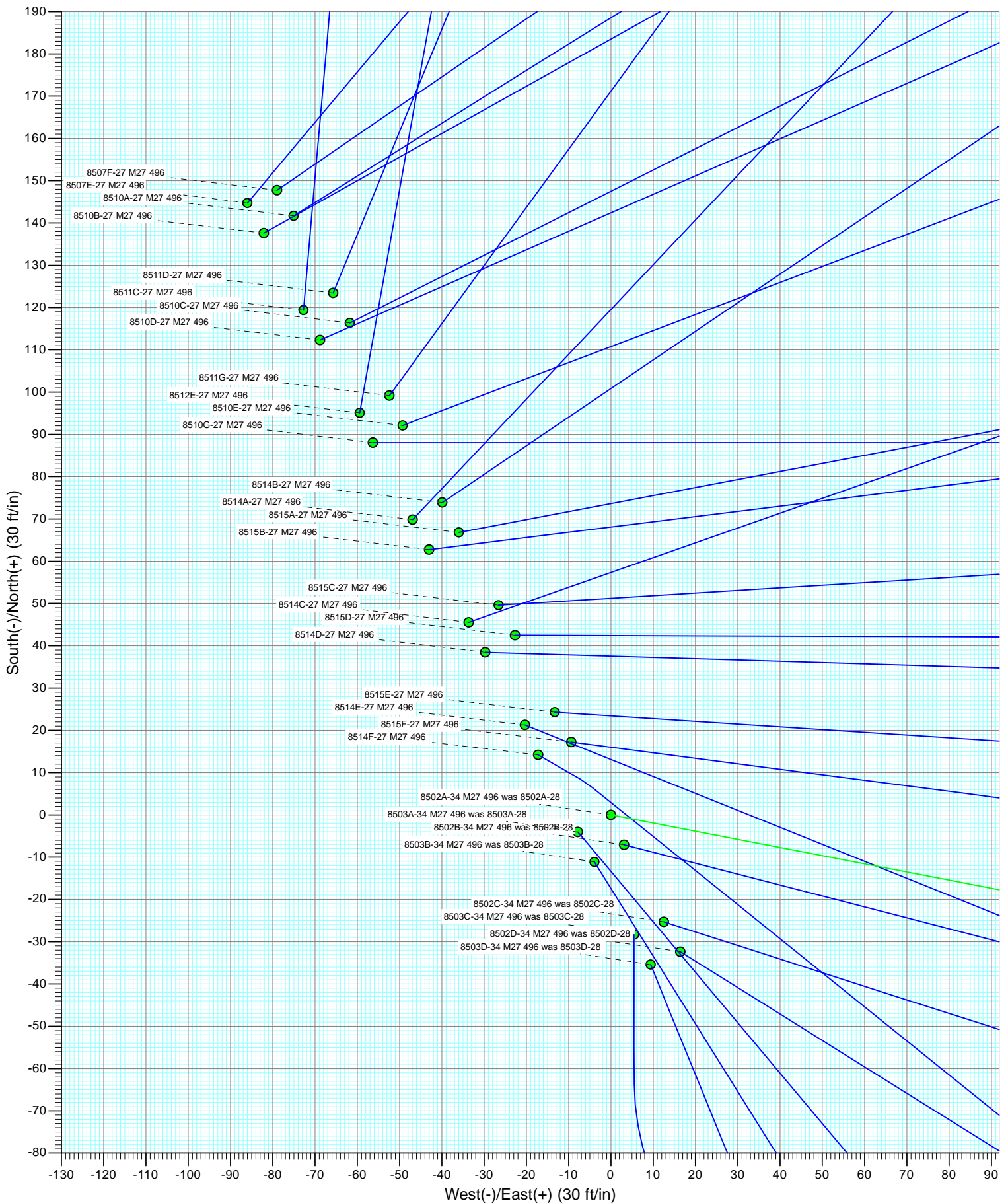
Azimuths to True North
Magnetic North: 10.41°

Magnetic Field
Strength: 52276.2snT
Dip Angle: 65.84°
Date: 9/26/2011
Model: IGRF2010

Plan #2							
8502A-34 M27 496 was 8502A-28							
11500: LR							
KBE @ 8121.0ft (Original Well Elev)							
GL @ 8099.0							
North American Datum 1983							
Well 8502A-34 M27 496 was 8502A-28, True North							
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD	
		101.16	Slot	0.0	0.0	0.0	
Name	TVD	+N/-S	+E/-W	Latitude	Longitude		
M27 496 8502A-28 TGT	8076.0	-567.6	2945.0	39° 39' 57.44 N	108° 9' 1.82 W		
M27 496 8502A-28 PBHL	11498.0	-577.6	2927.0	39° 39' 57.34 N	108° 9' 2.05 W		

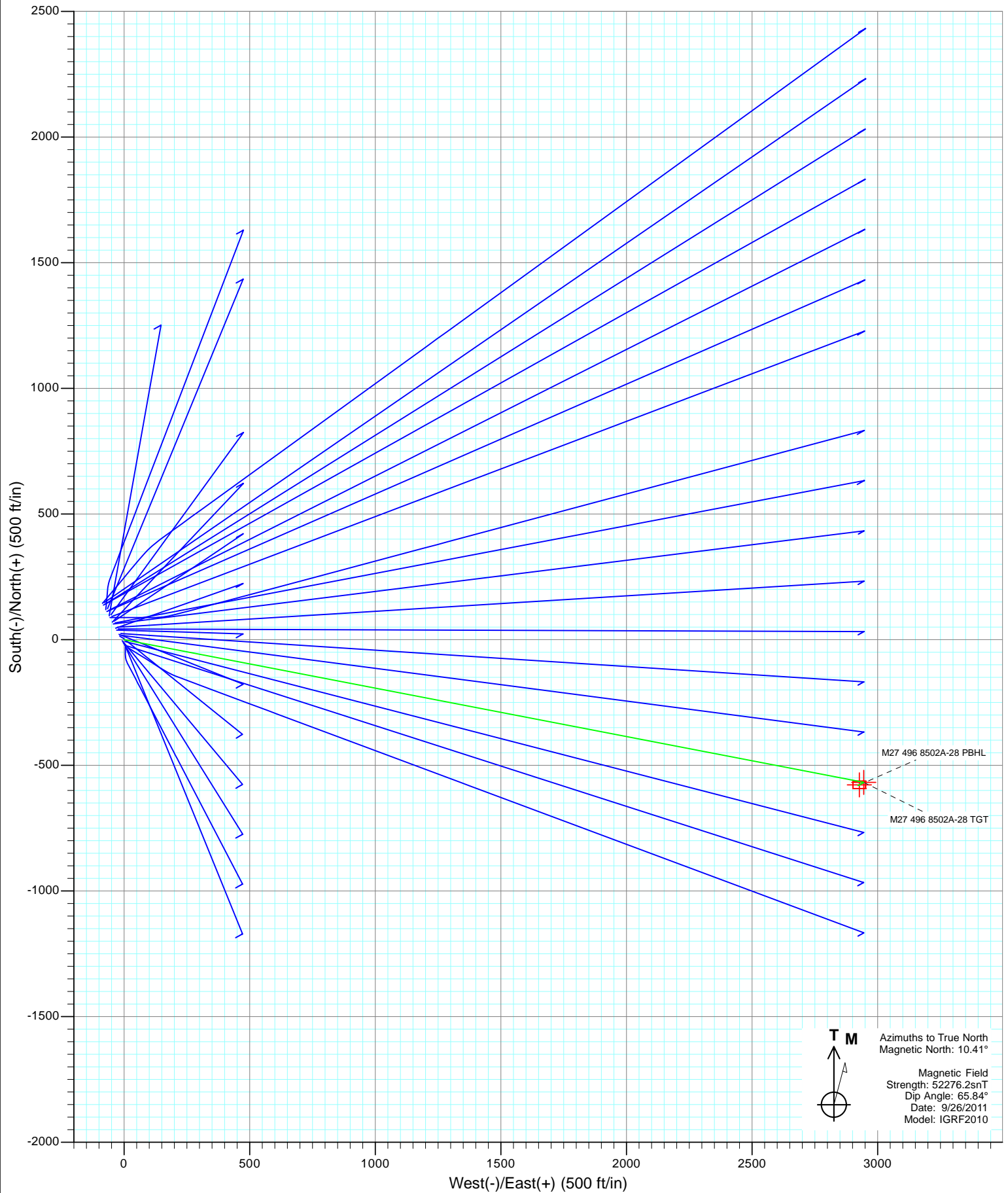


Project: Story Gulch
Site: S27-T4S-R96W (M27 496)
Well: 8502A-34 M27 496 was 8502A-28
Wellbore: DD
Design: Plan #2



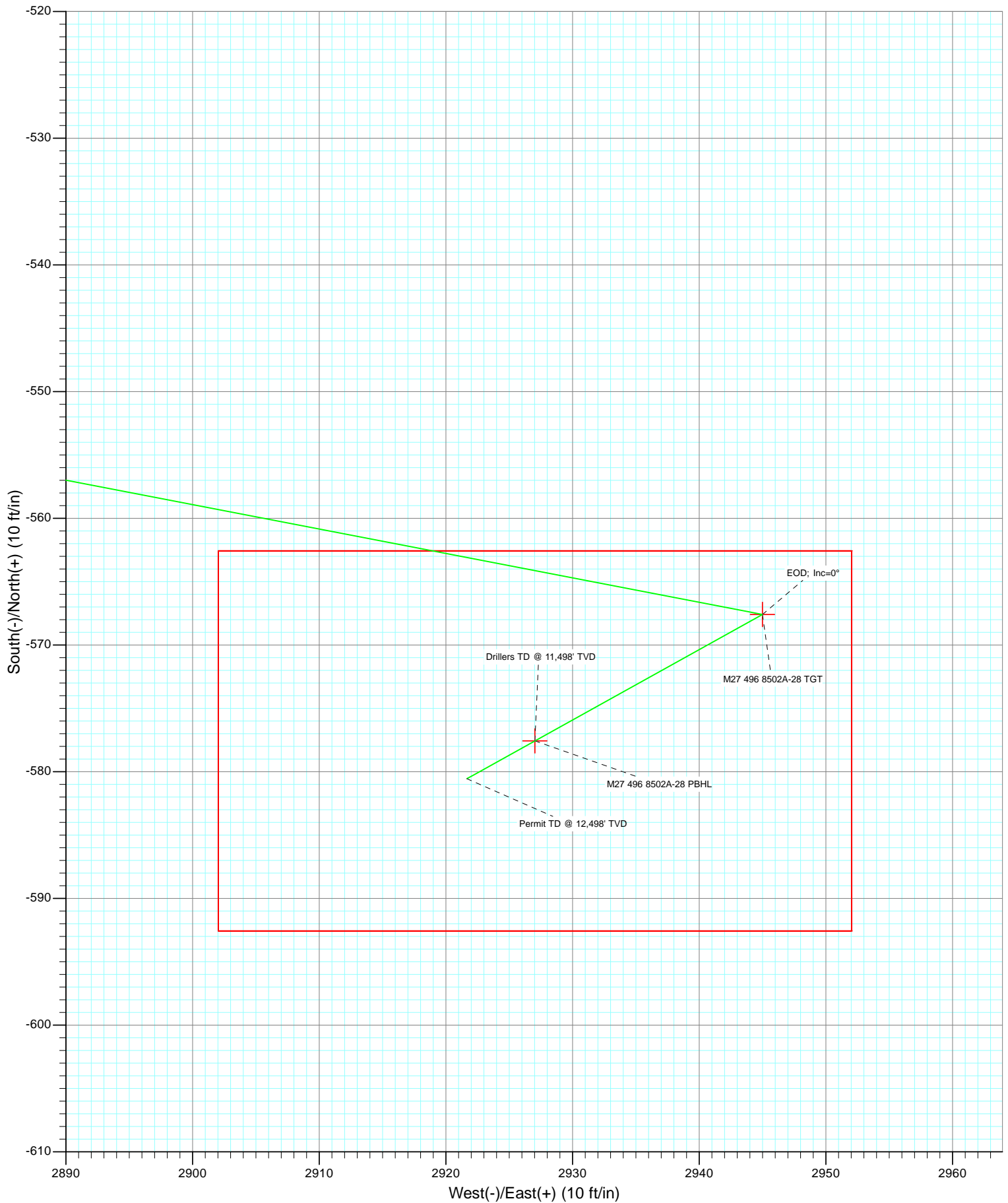


Project: Story Gulch
Site: S27-T4S-R96W (M27 496)
Well: 8502A-34 M27 496 was 8502A-28
Wellbore: DD
Design: Plan #2





Project: Story Gulch
Site: S27-T4S-R96W (M27 496)
Well: 8502A-34 M27 496 was 8502A-28
Wellbore: DD
Design: Plan #2



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8502A-34 M27 496 was 8502A-28
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8121.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8121.0ft (Original Well Elev)
Site:	S27-T4S-R96W (M27 496)	North Reference:	True
Well:	8502A-34 M27 496 was 8502A-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Project	Story Gulch		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	S27-T4S-R96W (M27 496)			
Site Position:		Northing:	1,678,990.24 ft	Latitude: 39° 40' 3.01 N
From:	Lat/Long	Easting:	2,251,008.33 ft	Longitude: 108° 9' 39.57 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: -1.68 °

Well	8502A-34 M27 496 was 8502A-28			
Well Position	+N/-S	0.0 ft	Northing:	1,678,994.06 ft
	+E/-W	0.0 ft	Easting:	2,251,015.48 ft
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft
			Ground Level:	8,099.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/26/2011	10.41	65.84	52,276

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	101.16

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,018.5	23.05	100.91	997.9	-28.9	149.8	3.00	3.00	0.00	100.91	
7,898.1	23.05	100.91	7,328.1	-538.7	2,795.2	0.00	0.00	0.00	0.00	
8,666.6	0.00	0.00	8,076.0	-567.6	2,945.0	3.00	-3.00	0.00	180.00	M27 496 8502A-28 T
8,807.2	0.35	240.96	8,216.6	-567.8	2,944.6	0.25	0.25	-84.67	240.96	
12,088.7	0.35	240.96	11,498.0	-577.6	2,927.0	0.00	0.00	0.00	0.00	M27 496 8502A-28 PI
13,088.7	0.35	240.96	12,498.0	-580.5	2,921.7	0.00	0.00	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8502A-34 M27 496 was 8502A-28
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8121.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8121.0ft (Original Well Elev)
Site:	S27-T4S-R96W (M27 496)	North Reference:	True
Well:	8502A-34 M27 496 was 8502A-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
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)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250'
300.0	1.50	100.91	300.0	-0.1	0.6	0.7	3.00	3.00	
400.0	4.50	100.91	399.8	-1.1	5.8	5.9	3.00	3.00	
500.0	7.50	100.91	499.3	-3.1	16.0	16.3	3.00	3.00	
600.0	10.50	100.91	598.0	-6.1	31.4	32.0	3.00	3.00	
700.0	13.50	100.91	695.8	-10.0	51.8	52.8	3.00	3.00	
800.0	16.50	100.91	792.4	-14.9	77.2	78.6	3.00	3.00	
900.0	19.50	100.91	887.5	-20.7	107.6	109.5	3.00	3.00	
1,000.0	22.50	100.91	980.9	-27.5	142.8	145.4	3.00	3.00	
1,018.5	23.05	100.91	997.9	-28.9	149.8	152.5	3.00	3.00	EOB; Inc=23.05°
1,075.1	23.05	100.91	1,050.0	-33.1	171.5	174.7	0.00	0.00	A_GROOVE (TVD)
1,100.0	23.05	100.91	1,072.9	-34.9	181.1	184.5	0.00	0.00	
1,200.0	23.05	100.91	1,164.9	-42.3	219.6	223.6	0.00	0.00	
1,238.1	23.05	100.91	1,200.0	-45.1	234.2	238.5	0.00	0.00	B_GROOVE (TVD)
1,300.0	23.05	100.91	1,256.9	-49.7	258.0	262.8	0.00	0.00	
1,400.0	23.05	100.91	1,349.0	-57.1	296.5	301.9	0.00	0.00	
1,500.0	23.05	100.91	1,441.0	-64.6	334.9	341.1	0.00	0.00	
1,600.0	23.05	100.91	1,533.0	-72.0	373.4	380.3	0.00	0.00	
1,700.0	23.05	100.91	1,625.0	-79.4	411.8	419.4	0.00	0.00	
1,800.0	23.05	100.91	1,717.0	-86.8	450.3	458.6	0.00	0.00	
1,900.0	23.05	100.91	1,809.0	-94.2	488.8	497.7	0.00	0.00	
2,000.0	23.05	100.91	1,901.0	-101.6	527.2	536.9	0.00	0.00	
2,100.0	23.05	100.91	1,993.1	-109.0	565.7	576.1	0.00	0.00	
2,200.0	23.05	100.91	2,085.1	-116.4	604.1	615.2	0.00	0.00	
2,291.2	23.05	100.91	2,169.0	-123.2	639.2	650.9	0.00	0.00	Garden Gulch Member (TVD)
2,300.0	23.05	100.91	2,177.1	-123.8	642.6	654.4	0.00	0.00	
2,400.0	23.05	100.91	2,269.1	-131.3	681.0	693.5	0.00	0.00	
2,500.0	23.05	100.91	2,361.1	-138.7	719.5	732.7	0.00	0.00	
2,600.0	23.05	100.91	2,453.1	-146.1	757.9	771.9	0.00	0.00	
2,700.0	23.05	100.91	2,545.1	-153.5	796.4	811.0	0.00	0.00	
2,800.0	23.05	100.91	2,637.1	-160.9	834.8	850.2	0.00	0.00	
2,900.0	23.05	100.91	2,729.2	-168.3	873.3	889.3	0.00	0.00	
3,000.0	23.05	100.91	2,821.2	-175.7	911.7	928.5	0.00	0.00	
3,100.0	23.05	100.91	2,913.2	-183.1	950.2	967.7	0.00	0.00	
3,200.0	23.05	100.91	3,005.2	-190.5	988.6	1,006.8	0.00	0.00	
3,300.0	23.05	100.91	3,097.2	-198.0	1,027.1	1,046.0	0.00	0.00	
3,400.0	23.05	100.91	3,189.2	-205.4	1,065.5	1,085.1	0.00	0.00	
3,500.0	23.05	100.91	3,281.2	-212.8	1,104.0	1,124.3	0.00	0.00	
3,600.0	23.05	100.91	3,373.2	-220.2	1,142.5	1,163.5	0.00	0.00	
3,700.0	23.05	100.91	3,465.3	-227.6	1,180.9	1,202.6	0.00	0.00	
3,800.0	23.05	100.91	3,557.3	-235.0	1,219.4	1,241.8	0.00	0.00	
3,900.0	23.05	100.91	3,649.3	-242.4	1,257.8	1,280.9	0.00	0.00	
4,000.0	23.05	100.91	3,741.3	-249.8	1,296.3	1,320.1	0.00	0.00	
4,100.0	23.05	100.91	3,833.3	-257.2	1,334.7	1,359.3	0.00	0.00	
4,200.0	23.05	100.91	3,925.3	-264.7	1,373.2	1,398.4	0.00	0.00	
4,300.0	23.05	100.91	4,017.3	-272.1	1,411.6	1,437.6	0.00	0.00	
4,400.0	23.05	100.91	4,109.4	-279.5	1,450.1	1,476.8	0.00	0.00	
4,500.0	23.05	100.91	4,201.4	-286.9	1,488.5	1,515.9	0.00	0.00	
4,600.0	23.05	100.91	4,293.4	-294.3	1,527.0	1,555.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8502A-34 M27 496 was 8502A-28
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8121.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8121.0ft (Original Well Elev)
Site:	S27-T4S-R96W (M27 496)	North Reference:	True
Well:	8502A-34 M27 496 was 8502A-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
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)	Comments / Formations
4,700.0	23.05	100.91	4,385.4	-301.7	1,565.4	1,594.2	0.00	0.00	
4,800.0	23.05	100.91	4,477.4	-309.1	1,603.9	1,633.4	0.00	0.00	
4,900.0	23.05	100.91	4,569.4	-316.5	1,642.3	1,672.6	0.00	0.00	
5,000.0	23.05	100.91	4,661.4	-323.9	1,680.8	1,711.7	0.00	0.00	
5,100.0	23.05	100.91	4,753.4	-331.4	1,719.3	1,750.9	0.00	0.00	
5,200.0	23.05	100.91	4,845.5	-338.8	1,757.7	1,790.0	0.00	0.00	
5,300.0	23.05	100.91	4,937.5	-346.2	1,796.2	1,829.2	0.00	0.00	
5,400.0	23.05	100.91	5,029.5	-353.6	1,834.6	1,868.4	0.00	0.00	
5,500.0	23.05	100.91	5,121.5	-361.0	1,873.1	1,907.5	0.00	0.00	
5,600.0	23.05	100.91	5,213.5	-368.4	1,911.5	1,946.7	0.00	0.00	
5,700.0	23.05	100.91	5,305.5	-375.8	1,950.0	1,985.8	0.00	0.00	
5,800.0	23.05	100.91	5,397.5	-383.2	1,988.4	2,025.0	0.00	0.00	
5,802.7	23.05	100.91	5,400.0	-383.4	1,989.5	2,026.0	0.00	0.00	WASATCH_G (TVD)
5,900.0	23.05	100.91	5,489.6	-390.6	2,026.9	2,064.2	0.00	0.00	
6,000.0	23.05	100.91	5,581.6	-398.0	2,065.3	2,103.3	0.00	0.00	
6,100.0	23.05	100.91	5,673.6	-405.5	2,103.8	2,142.5	0.00	0.00	
6,200.0	23.05	100.91	5,765.6	-412.9	2,142.2	2,181.6	0.00	0.00	
6,300.0	23.05	100.91	5,857.6	-420.3	2,180.7	2,220.8	0.00	0.00	
6,400.0	23.05	100.91	5,949.6	-427.7	2,219.1	2,260.0	0.00	0.00	
6,500.0	23.05	100.91	6,041.6	-435.1	2,257.6	2,299.1	0.00	0.00	
6,600.0	23.05	100.91	6,133.6	-442.5	2,296.1	2,338.3	0.00	0.00	
6,700.0	23.05	100.91	6,225.7	-449.9	2,334.5	2,377.4	0.00	0.00	
6,800.0	23.05	100.91	6,317.7	-457.3	2,373.0	2,416.6	0.00	0.00	
6,900.0	23.05	100.91	6,409.7	-464.7	2,411.4	2,455.8	0.00	0.00	
7,000.0	23.05	100.91	6,501.7	-472.2	2,449.9	2,494.9	0.00	0.00	
7,100.0	23.05	100.91	6,593.7	-479.6	2,488.3	2,534.1	0.00	0.00	
7,200.0	23.05	100.91	6,685.7	-487.0	2,526.8	2,573.2	0.00	0.00	
7,300.0	23.05	100.91	6,777.7	-494.4	2,565.2	2,612.4	0.00	0.00	
7,400.0	23.05	100.91	6,869.7	-501.8	2,603.7	2,651.6	0.00	0.00	
7,500.0	23.05	100.91	6,961.8	-509.2	2,642.1	2,690.7	0.00	0.00	
7,600.0	23.05	100.91	7,053.8	-516.6	2,680.6	2,729.9	0.00	0.00	
7,700.0	23.05	100.91	7,145.8	-524.0	2,719.0	2,769.0	0.00	0.00	
7,800.0	23.05	100.91	7,237.8	-531.4	2,757.5	2,808.2	0.00	0.00	
7,898.1	23.05	100.91	7,328.1	-538.7	2,795.2	2,846.6	0.00	0.00	Start Drop -3.00
7,900.0	23.00	100.91	7,329.8	-538.9	2,795.9	2,847.4	3.00	-3.00	
8,000.0	20.00	100.91	7,422.8	-545.8	2,831.9	2,884.0	3.00	-3.00	
8,100.0	17.00	100.91	7,517.7	-551.8	2,863.1	2,915.7	3.00	-3.00	
8,119.1	16.42	100.91	7,536.0	-552.8	2,868.5	2,921.2	3.00	-3.00	WILLIAMS_FORK (TVD)
8,160.7	15.18	100.91	7,576.0	-555.0	2,879.6	2,932.6	3.00	-3.00	TOG (TVD); Inc=15°
8,200.0	14.00	100.91	7,614.0	-556.9	2,889.3	2,942.5	3.00	-3.00	
8,300.0	11.00	100.91	7,711.6	-560.9	2,910.6	2,964.1	3.00	-3.00	
8,400.0	8.00	100.91	7,810.3	-564.1	2,926.8	2,980.6	3.00	-3.00	
8,500.0	5.00	100.91	7,909.6	-566.2	2,937.9	2,991.9	3.00	-3.00	
8,600.0	2.00	100.91	8,009.4	-567.4	2,943.9	2,998.0	3.00	-3.00	
8,666.6	0.00	0.00	8,076.0	-567.6	2,945.0	2,999.2	3.00	-3.00	EOD; Inc=0°
8,700.0	0.08	240.96	8,109.4	-567.6	2,945.0	2,999.1	0.25	0.25	
8,807.2	0.35	240.96	8,216.6	-567.8	2,944.6	2,998.8	0.25	0.25	
8,900.0	0.35	240.96	8,309.4	-568.1	2,944.1	2,998.4	0.00	0.00	
9,000.0	0.35	240.96	8,409.4	-568.4	2,943.6	2,997.9	0.00	0.00	
9,100.0	0.35	240.96	8,509.4	-568.7	2,943.1	2,997.5	0.00	0.00	
9,200.0	0.35	240.96	8,609.4	-569.0	2,942.5	2,997.0	0.00	0.00	
9,300.0	0.35	240.96	8,709.4	-569.3	2,942.0	2,996.5	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8502A-34 M27 496 was 8502A-28
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8121.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8121.0ft (Original Well Elev)
Site:	S27-T4S-R96W (M27 496)	North Reference:	True
Well:	8502A-34 M27 496 was 8502A-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
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)	Comments / Formations
9,400.0	0.35	240.96	8,809.4	-569.6	2,941.4	2,996.1	0.00	0.00	
9,432.6	0.35	240.96	8,842.0	-569.7	2,941.3	2,995.9	0.00	0.00	PRICE_Marker (TVD)
9,500.0	0.35	240.96	8,909.4	-569.9	2,940.9	2,995.6	0.00	0.00	
9,600.0	0.35	240.96	9,009.4	-570.2	2,940.4	2,995.1	0.00	0.00	
9,700.0	0.35	240.96	9,109.4	-570.5	2,939.8	2,994.7	0.00	0.00	
9,800.0	0.35	240.96	9,209.4	-570.8	2,939.3	2,994.2	0.00	0.00	
9,900.0	0.35	240.96	9,309.4	-571.1	2,938.8	2,993.7	0.00	0.00	
10,000.0	0.35	240.96	9,409.4	-571.3	2,938.2	2,993.2	0.00	0.00	
10,100.0	0.35	240.96	9,509.4	-571.6	2,937.7	2,992.8	0.00	0.00	
10,200.0	0.35	240.96	9,609.4	-571.9	2,937.2	2,992.3	0.00	0.00	
10,300.0	0.35	240.96	9,709.4	-572.2	2,936.6	2,991.8	0.00	0.00	
10,400.0	0.35	240.96	9,809.4	-572.5	2,936.1	2,991.4	0.00	0.00	
10,500.0	0.35	240.96	9,909.4	-572.8	2,935.5	2,990.9	0.00	0.00	
10,600.0	0.35	240.96	10,009.4	-573.1	2,935.0	2,990.4	0.00	0.00	
10,700.0	0.35	240.96	10,109.4	-573.4	2,934.5	2,990.0	0.00	0.00	
10,800.0	0.35	240.96	10,209.4	-573.7	2,933.9	2,989.5	0.00	0.00	
10,900.0	0.35	240.96	10,309.4	-574.0	2,933.4	2,989.0	0.00	0.00	
11,000.0	0.35	240.96	10,409.4	-574.3	2,932.9	2,988.6	0.00	0.00	
11,100.0	0.35	240.96	10,509.4	-574.6	2,932.3	2,988.1	0.00	0.00	
11,200.0	0.35	240.96	10,609.4	-574.9	2,931.8	2,987.6	0.00	0.00	
11,300.0	0.35	240.96	10,709.3	-575.2	2,931.3	2,987.2	0.00	0.00	
11,338.7	0.35	240.96	10,748.0	-575.3	2,931.0	2,987.0	0.00	0.00	CAMEO (TVD)
11,400.0	0.35	240.96	10,809.3	-575.5	2,930.7	2,986.7	0.00	0.00	
11,500.0	0.35	240.96	10,909.3	-575.8	2,930.2	2,986.2	0.00	0.00	
11,600.0	0.35	240.96	11,009.3	-576.1	2,929.6	2,985.8	0.00	0.00	
11,700.0	0.35	240.96	11,109.3	-576.4	2,929.1	2,985.3	0.00	0.00	
11,800.0	0.35	240.96	11,209.3	-576.7	2,928.6	2,984.8	0.00	0.00	
11,900.0	0.35	240.96	11,309.3	-577.0	2,928.0	2,984.3	0.00	0.00	
11,938.7	0.35	240.96	11,348.0	-577.1	2,927.8	2,984.2	0.00	0.00	ROLLINS (TVD)
12,000.0	0.35	240.96	11,409.3	-577.3	2,927.5	2,983.9	0.00	0.00	
12,088.7	0.35	240.96	11,498.0	-577.6	2,927.0	2,983.5	0.00	0.00	Drillers TD @ 11,498' TVD
12,100.0	0.35	240.96	11,509.3	-577.6	2,927.0	2,983.4	0.00	0.00	
12,148.7	0.35	240.96	11,558.0	-577.7	2,926.7	2,983.2	0.00	0.00	COZZETTE (TVD)
12,200.0	0.35	240.96	11,609.3	-577.9	2,926.4	2,982.9	0.00	0.00	
12,300.0	0.35	240.96	11,709.3	-578.2	2,925.9	2,982.5	0.00	0.00	
12,348.7	0.35	240.96	11,758.0	-578.3	2,925.6	2,982.2	0.00	0.00	CORCORAN (TVD)
12,400.0	0.35	240.96	11,809.3	-578.5	2,925.4	2,982.0	0.00	0.00	
12,500.0	0.35	240.96	11,909.3	-578.8	2,924.8	2,981.5	0.00	0.00	
12,565.7	0.35	240.96	11,975.0	-579.0	2,924.5	2,981.2	0.00	0.00	UPPER_SEGO (TVD)
12,600.0	0.35	240.96	12,009.3	-579.1	2,924.3	2,981.1	0.00	0.00	
12,700.0	0.35	240.96	12,109.3	-579.4	2,923.7	2,980.6	0.00	0.00	
12,800.0	0.35	240.96	12,209.3	-579.7	2,923.2	2,980.1	0.00	0.00	
12,815.7	0.35	240.96	12,225.0	-579.7	2,923.1	2,980.1	0.00	0.00	SEGO_BASE_TARGET (TVD)
12,900.0	0.35	240.96	12,309.3	-580.0	2,922.7	2,979.7	0.00	0.00	
13,000.0	0.35	240.96	12,409.3	-580.3	2,922.1	2,979.2	0.00	0.00	
13,088.7	0.35	240.96	12,498.0	-580.5	2,921.7	2,978.8	0.00	0.00	Permit TD @ 12,498' TVD

Cathedral Energy Services

Planning Report

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Project:	Story Gulch	MD Reference:	KBE @ 8121.0ft (Original Well Elev)
Site:	S27-T4S-R96W (M27 496)	North Reference:	True
Well:	8502A-34 M27 496 was 8502A-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
M27 496 8502A-28 TGT	0.00	0.00	8,076.0	-567.6	2,945.0	1,678,340.47	2,253,942.59	39° 39' 57.44 N	108° 9' 1.82 W
- plan hits target center									
- Point									
M27 496 8502A-28 PBH	0.00	0.00	11,498.0	-577.6	2,927.0	1,678,331.02	2,253,924.33	39° 39' 57.34 N	108° 9' 2.05 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,075.1	1,050.0	A_GROOVE (TVD)				
1,238.1	1,200.0	B_GROOVE (TVD)				
2,291.2	2,169.0	Garden Gulch Member (TVD)				
5,802.7	5,400.0	WASATCH_G (TVD)				
8,119.1	7,536.0	WILLIAMS_FORK (TVD)				
8,160.7	7,576.0	TOG (TVD); Inc=15°				
9,432.6	8,842.0	PRICE_Marker (TVD)				
11,338.7	10,748.0	CAMEO (TVD)				
11,938.7	11,348.0	ROLLINS (TVD)				
12,148.7	11,558.0	COZZETTE (TVD)				
12,348.7	11,758.0	CORCORAN (TVD)				
12,565.7	11,975.0	UPPER_SEGO (TVD)				
12,815.7	12,225.0	SEGO_BASE_TARGET (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
250.0	250.0	0.0	0.0	KOP @ 250'
1,018.5	997.9	-28.9	149.8	EOB; Inc=23.05°
7,898.1	7,328.1	-538.7	2,795.2	Start Drop -3.00
8,666.6	8,076.0	-567.6	2,945.0	EOD; Inc=0°
12,088.7	11,498.0	-577.6	2,927.0	Drillers TD @ 11,498' TVD
13,088.7	12,498.0	-580.5	2,921.7	Permit TD @ 12,498' TVD