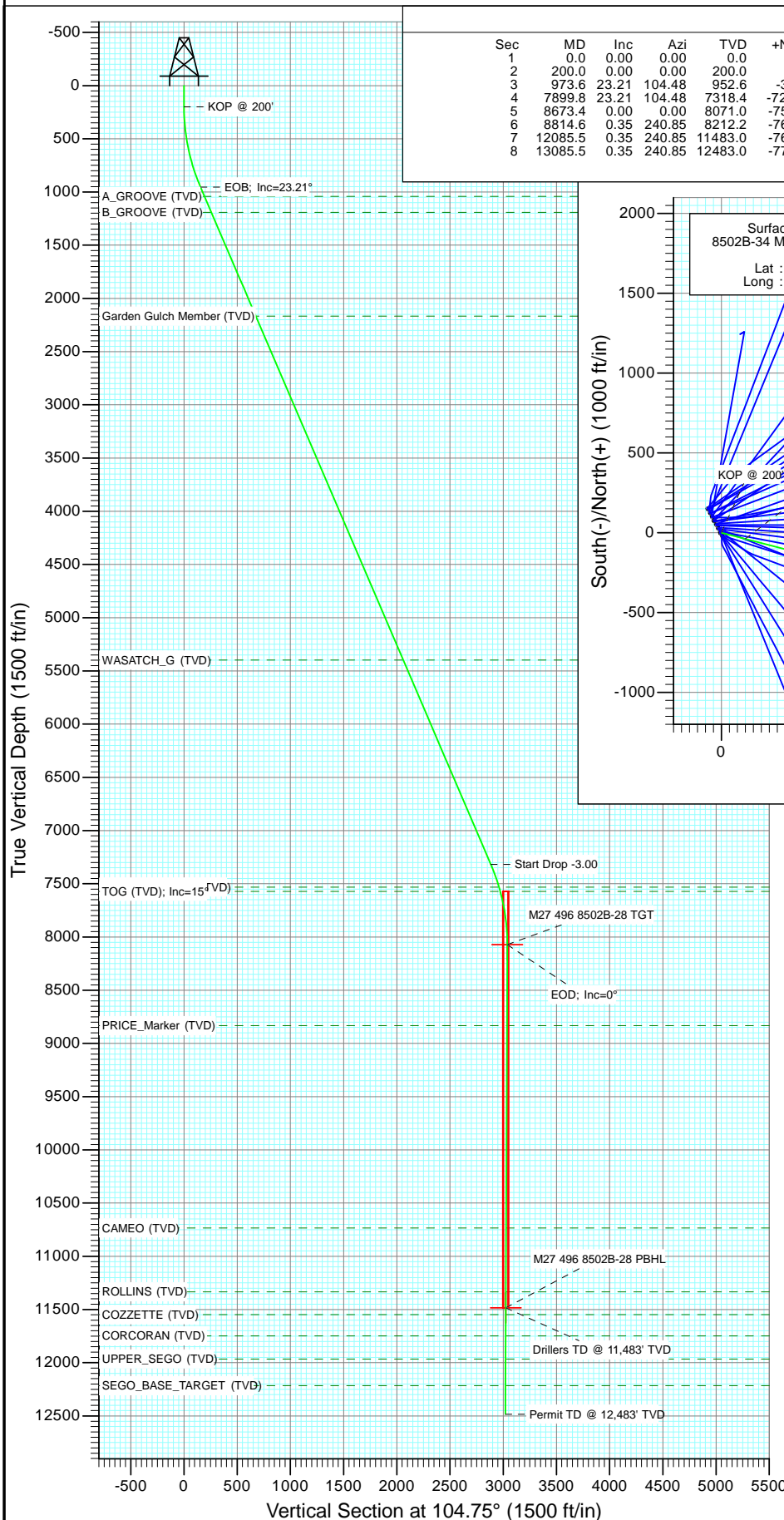


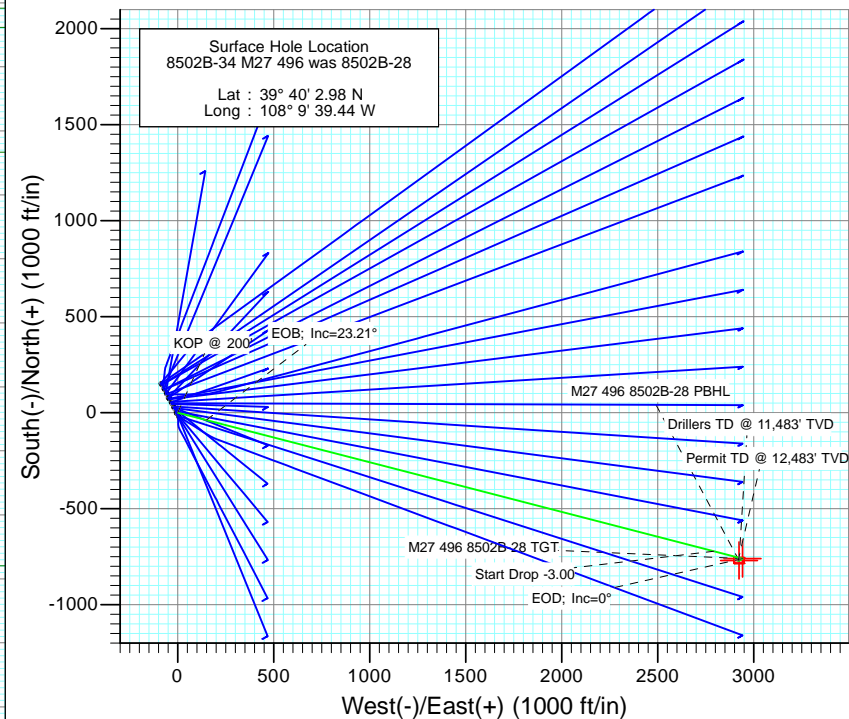


Project: Story Gulch  
Site: S27-T4S-R96W (M27 496)  
Well: 8502B-34 M27 496 was 8502B-28  
Wellbore: DD  
Design: Plan #2



#### 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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	973.6	23.21	104.48	952.6	-38.6	149.6	3.00	104.48	154.5	
4	7899.8	23.21	104.48	7318.4	-721.1	2792.3	0.00	0.00	2883.9	
5	8673.4	0.00	0.00	8071.0	-759.8	2941.9	3.00	180.00	3038.4	M27 496 8502B-28 TGT
6	8814.6	0.35	240.85	8212.2	-760.0	2941.5	0.25	240.85	3038.1	M27 496 8502B-28 PBHL
7	12085.5	0.35	240.85	11483.0	-769.8	2923.9	0.00	0.00	3023.6	
8	13085.5	0.35	240.85	12483.0	-772.8	2918.5	0.00	0.00	3019.1	



#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1041.0	1069.8	A_GROOVE (TVD)
1191.0	1233.0	B_GROOVE (TVD)
2167.0	2294.9	Garden Gulch Member (TVD)
5397.0	5809.3	WASATCH_G (TVD)
7531.0	8125.9	WILLIAMS_FORK (TVD)
7571.0	8167.5	TOG (TVD); Inc=15°
8832.0	9434.4	PRICE_Marker (TVD)
10733.0	11335.4	CAMEO (TVD)
11333.0	11935.5	ROLLINS (TVD)
11548.0	12150.5	COZZETTE (TVD)
11747.0	12349.5	CORCORAN (TVD)
11965.0	12567.5	UPPER_SEGO (TVD)
12215.0	12817.5	SEGO_BASE_TARGET (TVD)



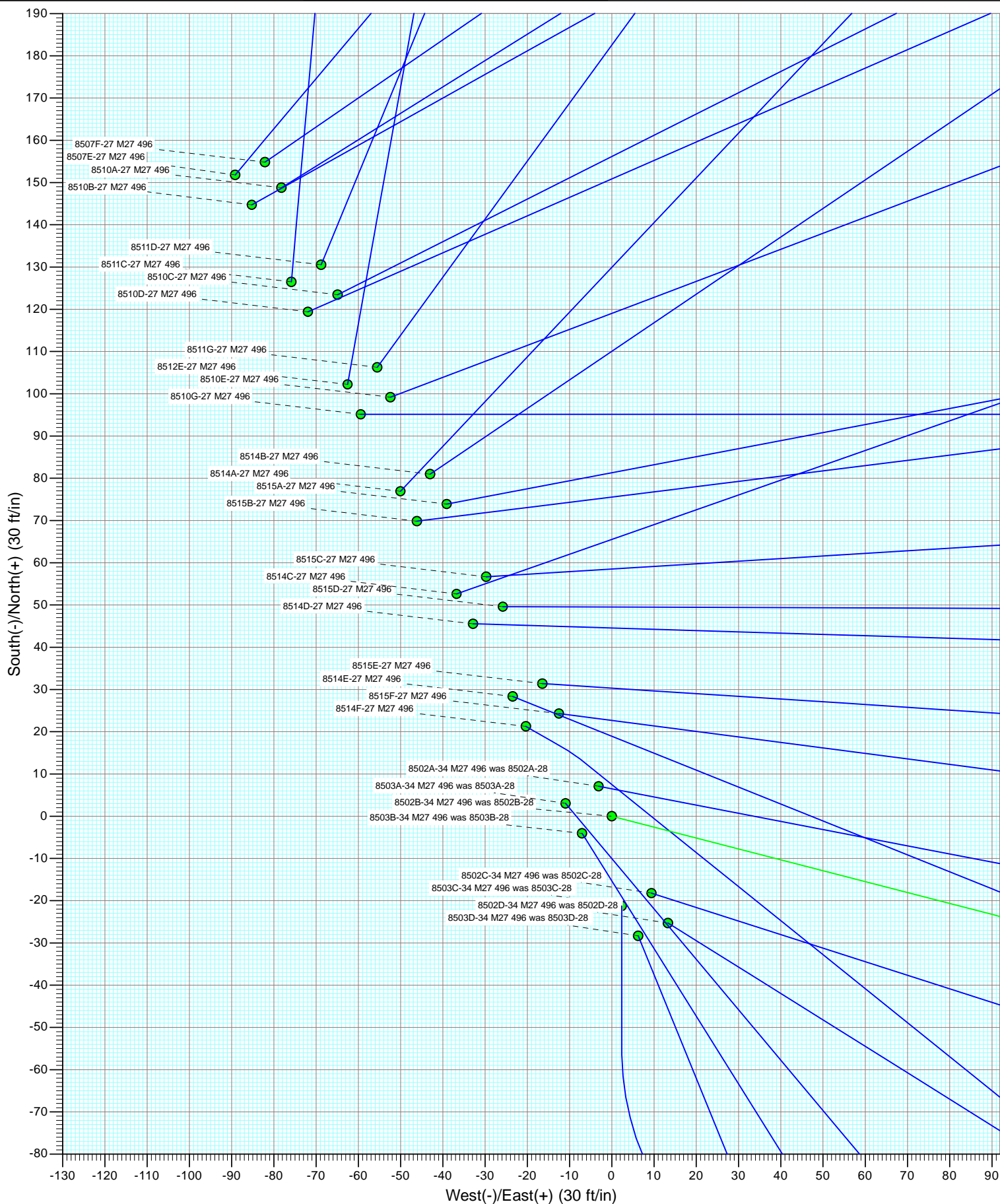
Azimuths to True North  
Magnetic North: 10.41°

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

Plan #2									
8502B-34 M27 496 was 8502B-28									
11500: LR									
KBE @ 8121.0ft (Original Well Elev)									
GL @ 8099.0									
North American Datum 1983									
Well 8502B-34 M27 496 was 8502B-28, True North									
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD			
M27 496 8502B-28 TGT	TVD	8071.0	+N/-S	-759.8	2941.9	39° 39' 55.47 N	108° 9' 1.82 W		
M27 496 8502B-28 PBHL	TVD	11483.0	+N/-S	-769.8	2923.9	39° 39' 55.37 N	108° 9' 2.05 W		

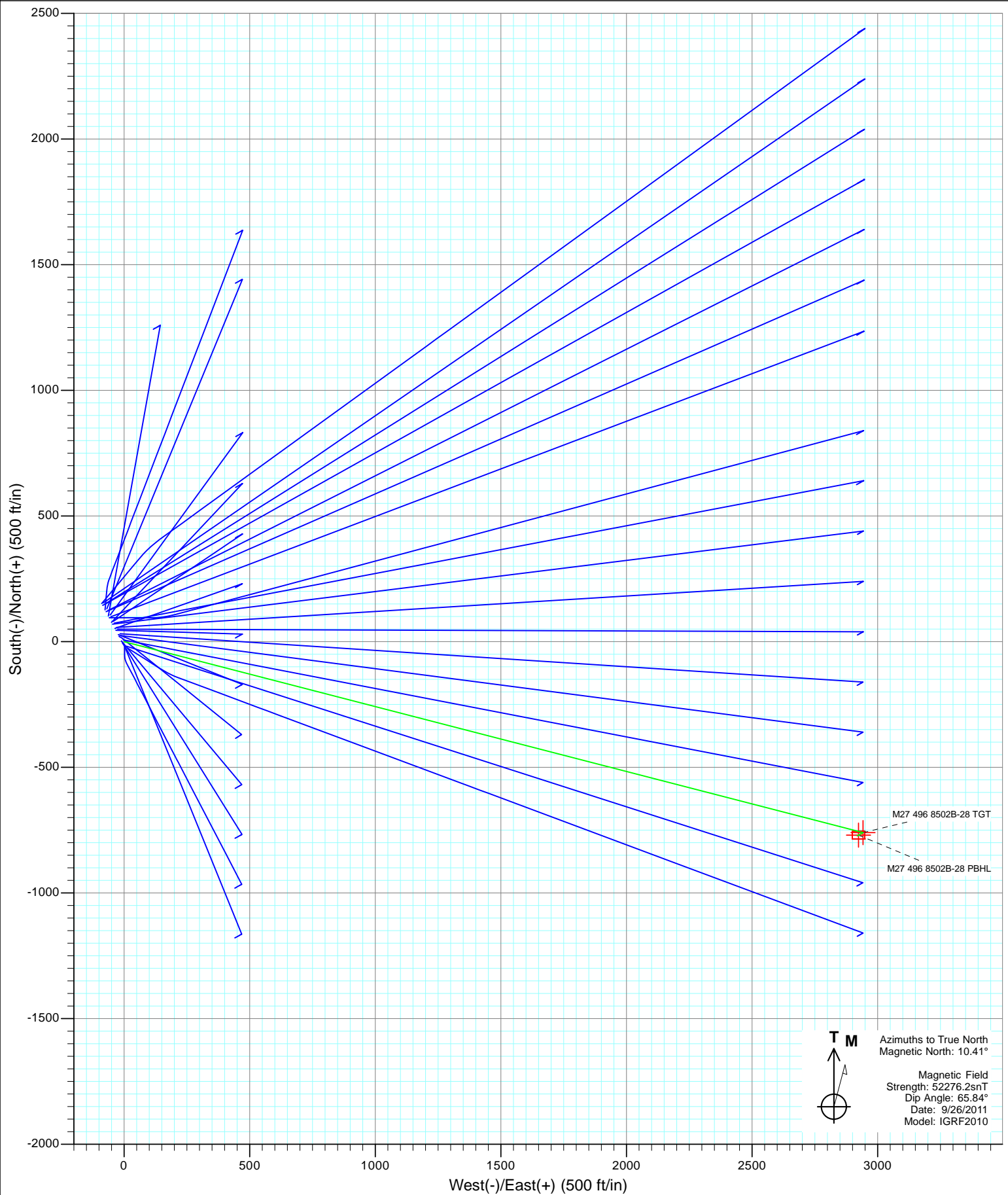


Project: Story Gulch  
Site: S27-T4S-R96W (M27 496)  
Well: 8502B-34 M27 496 was 8502B-28  
Wellbore: DD  
Design: Plan #2



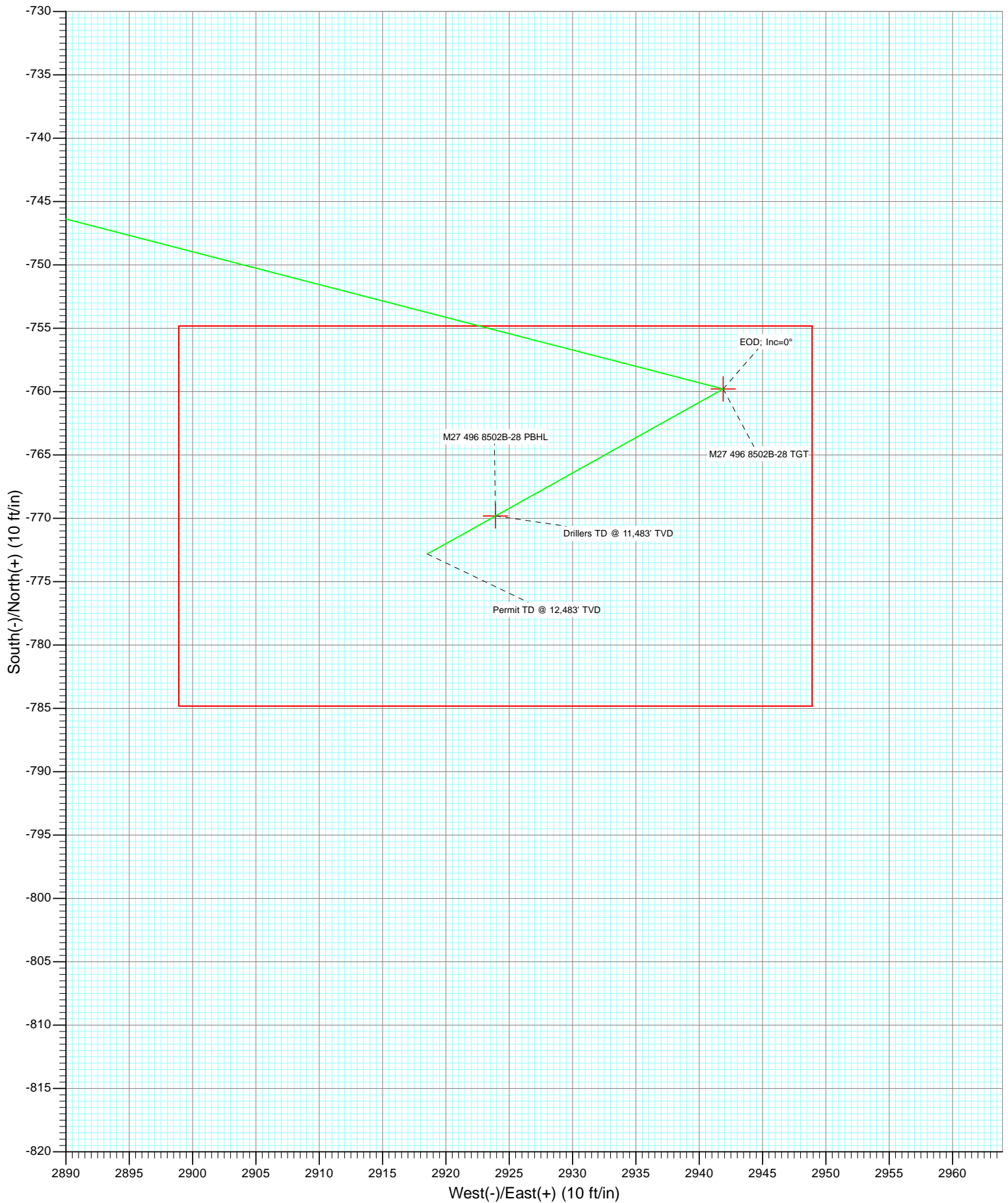


Project: Story Gulch  
Site: S27-T4S-R96W (M27 496)  
Well: 8502B-34 M27 496 was 8502B-28  
Wellbore: DD  
Design: Plan #2





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



# Cathedral Energy Services

## Planning Report

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

<b>Project</b>	Story Gulch		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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	8502B-34 M27 496 was 8502B-28					
Well Position	+N/-S	0.0 ft	Northing:	1,678,986.89 ft	Latitude:	39° 40' 2.98 N
	+E/-W	0.0 ft	Easting:	2,251,018.40 ft	Longitude:	108° 9' 39.44 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,099.0 ft

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

<b>Design</b>	Plan #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	104.75

<b>Plan Sections</b>										
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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
973.6	23.21	104.48	952.6	-38.6	149.6	3.00	3.00	0.00	104.48	
7,899.8	23.21	104.48	7,318.4	-721.1	2,792.3	0.00	0.00	0.00	0.00	
8,673.4	0.00	0.00	8,071.0	-759.8	2,941.9	3.00	-3.00	0.00	180.00	M27 496 8502B-28 T
8,814.6	0.35	240.85	8,212.2	-760.0	2,941.5	0.25	0.25	-84.37	240.85	
12,085.5	0.35	240.85	11,483.0	-769.8	2,923.9	0.00	0.00	0.00	0.00	M27 496 8502B-28 PI
13,085.5	0.35	240.85	12,483.0	-772.8	2,918.5	0.00	0.00	0.00	0.00	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8502B-34 M27 496 was 8502B-28
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Site:</b>	S27-T4S-R96W (M27 496)	<b>North Reference:</b>	True
<b>Well:</b>	8502B-34 M27 496 was 8502B-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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	KOP @ 200'
300.0	3.00	104.48	300.0	-0.7	2.5	2.6	3.00	3.00	
400.0	6.00	104.48	399.6	-2.6	10.1	10.5	3.00	3.00	
500.0	9.00	104.48	498.8	-5.9	22.8	23.5	3.00	3.00	
600.0	12.00	104.48	597.1	-10.4	40.4	41.7	3.00	3.00	
700.0	15.00	104.48	694.3	-16.3	63.0	65.1	3.00	3.00	
800.0	18.00	104.48	790.2	-23.4	90.5	93.5	3.00	3.00	
900.0	21.00	104.48	884.4	-31.7	122.8	126.9	3.00	3.00	
973.6	23.21	104.48	952.6	-38.6	149.6	154.5	3.00	3.00	EOB; Inc=23.21°
1,000.0	23.21	104.48	976.9	-41.2	159.7	164.9	0.00	0.00	
1,069.8	23.21	104.48	1,041.0	-48.1	186.3	192.4	0.00	0.00	A_GROOVE (TVD)
1,100.0	23.21	104.48	1,068.8	-51.1	197.9	204.4	0.00	0.00	
1,200.0	23.21	104.48	1,160.7	-61.0	236.0	243.8	0.00	0.00	
1,233.0	23.21	104.48	1,191.0	-64.2	248.6	256.7	0.00	0.00	B_GROOVE (TVD)
1,300.0	23.21	104.48	1,252.6	-70.8	274.2	283.2	0.00	0.00	
1,400.0	23.21	104.48	1,344.5	-80.7	312.3	322.6	0.00	0.00	
1,500.0	23.21	104.48	1,436.4	-90.5	350.5	362.0	0.00	0.00	
1,600.0	23.21	104.48	1,528.3	-100.4	388.6	401.4	0.00	0.00	
1,700.0	23.21	104.48	1,620.2	-110.2	426.8	440.8	0.00	0.00	
1,800.0	23.21	104.48	1,712.2	-120.1	464.9	480.2	0.00	0.00	
1,900.0	23.21	104.48	1,804.1	-129.9	503.1	519.6	0.00	0.00	
2,000.0	23.21	104.48	1,896.0	-139.8	541.2	559.0	0.00	0.00	
2,100.0	23.21	104.48	1,987.9	-149.6	579.4	598.4	0.00	0.00	
2,200.0	23.21	104.48	2,079.8	-159.5	617.6	637.8	0.00	0.00	
2,294.9	23.21	104.48	2,167.0	-168.8	653.8	675.2	0.00	0.00	Garden Gulch Member (TVD)
2,300.0	23.21	104.48	2,171.7	-169.3	655.7	677.2	0.00	0.00	
2,400.0	23.21	104.48	2,263.6	-179.2	693.9	716.6	0.00	0.00	
2,500.0	23.21	104.48	2,355.5	-189.1	732.0	756.0	0.00	0.00	
2,600.0	23.21	104.48	2,447.4	-198.9	770.2	795.4	0.00	0.00	
2,700.0	23.21	104.48	2,539.3	-208.8	808.3	834.8	0.00	0.00	
2,800.0	23.21	104.48	2,631.2	-218.6	846.5	874.2	0.00	0.00	
2,900.0	23.21	104.48	2,723.1	-228.5	884.6	913.7	0.00	0.00	
3,000.0	23.21	104.48	2,815.1	-238.3	922.8	953.1	0.00	0.00	
3,100.0	23.21	104.48	2,907.0	-248.2	960.9	992.5	0.00	0.00	
3,200.0	23.21	104.48	2,998.9	-258.0	999.1	1,031.9	0.00	0.00	
3,300.0	23.21	104.48	3,090.8	-267.9	1,037.3	1,071.3	0.00	0.00	
3,400.0	23.21	104.48	3,182.7	-277.7	1,075.4	1,110.7	0.00	0.00	
3,500.0	23.21	104.48	3,274.6	-287.6	1,113.6	1,150.1	0.00	0.00	
3,600.0	23.21	104.48	3,366.5	-297.4	1,151.7	1,189.5	0.00	0.00	
3,700.0	23.21	104.48	3,458.4	-307.3	1,189.9	1,228.9	0.00	0.00	
3,800.0	23.21	104.48	3,550.3	-317.2	1,228.0	1,268.3	0.00	0.00	
3,900.0	23.21	104.48	3,642.2	-327.0	1,266.2	1,307.7	0.00	0.00	
4,000.0	23.21	104.48	3,734.1	-336.9	1,304.3	1,347.1	0.00	0.00	
4,100.0	23.21	104.48	3,826.0	-346.7	1,342.5	1,386.5	0.00	0.00	
4,200.0	23.21	104.48	3,918.0	-356.6	1,380.6	1,425.9	0.00	0.00	
4,300.0	23.21	104.48	4,009.9	-366.4	1,418.8	1,465.3	0.00	0.00	
4,400.0	23.21	104.48	4,101.8	-376.3	1,456.9	1,504.7	0.00	0.00	
4,500.0	23.21	104.48	4,193.7	-386.1	1,495.1	1,544.1	0.00	0.00	
4,600.0	23.21	104.48	4,285.6	-396.0	1,533.3	1,583.5	0.00	0.00	
4,700.0	23.21	104.48	4,377.5	-405.8	1,571.4	1,623.0	0.00	0.00	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8502B-34 M27 496 was 8502B-28
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Site:</b>	S27-T4S-R96W (M27 496)	<b>North Reference:</b>	True
<b>Well:</b>	8502B-34 M27 496 was 8502B-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
4,800.0	23.21	104.48	4,469.4	-415.7	1,609.6	1,662.4	0.00	0.00	
4,900.0	23.21	104.48	4,561.3	-425.5	1,647.7	1,701.8	0.00	0.00	
5,000.0	23.21	104.48	4,653.2	-435.4	1,685.9	1,741.2	0.00	0.00	
5,100.0	23.21	104.48	4,745.1	-445.3	1,724.0	1,780.6	0.00	0.00	
5,200.0	23.21	104.48	4,837.0	-455.1	1,762.2	1,820.0	0.00	0.00	
5,300.0	23.21	104.48	4,928.9	-465.0	1,800.3	1,859.4	0.00	0.00	
5,400.0	23.21	104.48	5,020.9	-474.8	1,838.5	1,898.8	0.00	0.00	
5,500.0	23.21	104.48	5,112.8	-484.7	1,876.6	1,938.2	0.00	0.00	
5,600.0	23.21	104.48	5,204.7	-494.5	1,914.8	1,977.6	0.00	0.00	
5,700.0	23.21	104.48	5,296.6	-504.4	1,953.0	2,017.0	0.00	0.00	
5,800.0	23.21	104.48	5,388.5	-514.2	1,991.1	2,056.4	0.00	0.00	
5,809.3	23.21	104.48	5,397.0	-515.1	1,994.6	2,060.1	0.00	0.00	WASATCH_G (TVD)
5,900.0	23.21	104.48	5,480.4	-524.1	2,029.3	2,095.8	0.00	0.00	
6,000.0	23.21	104.48	5,572.3	-533.9	2,067.4	2,135.2	0.00	0.00	
6,100.0	23.21	104.48	5,664.2	-543.8	2,105.6	2,174.6	0.00	0.00	
6,200.0	23.21	104.48	5,756.1	-553.6	2,143.7	2,214.0	0.00	0.00	
6,300.0	23.21	104.48	5,848.0	-563.5	2,181.9	2,253.4	0.00	0.00	
6,400.0	23.21	104.48	5,939.9	-573.4	2,220.0	2,292.8	0.00	0.00	
6,500.0	23.21	104.48	6,031.8	-583.2	2,258.2	2,332.3	0.00	0.00	
6,600.0	23.21	104.48	6,123.8	-593.1	2,296.3	2,371.7	0.00	0.00	
6,700.0	23.21	104.48	6,215.7	-602.9	2,334.5	2,411.1	0.00	0.00	
6,800.0	23.21	104.48	6,307.6	-612.8	2,372.6	2,450.5	0.00	0.00	
6,900.0	23.21	104.48	6,399.5	-622.6	2,410.8	2,489.9	0.00	0.00	
7,000.0	23.21	104.48	6,491.4	-632.5	2,449.0	2,529.3	0.00	0.00	
7,100.0	23.21	104.48	6,583.3	-642.3	2,487.1	2,568.7	0.00	0.00	
7,200.0	23.21	104.48	6,675.2	-652.2	2,525.3	2,608.1	0.00	0.00	
7,300.0	23.21	104.48	6,767.1	-662.0	2,563.4	2,647.5	0.00	0.00	
7,400.0	23.21	104.48	6,859.0	-671.9	2,601.6	2,686.9	0.00	0.00	
7,500.0	23.21	104.48	6,950.9	-681.7	2,639.7	2,726.3	0.00	0.00	
7,600.0	23.21	104.48	7,042.8	-691.6	2,677.9	2,765.7	0.00	0.00	
7,700.0	23.21	104.48	7,134.7	-701.5	2,716.0	2,805.1	0.00	0.00	
7,800.0	23.21	104.48	7,226.7	-711.3	2,754.2	2,844.5	0.00	0.00	
7,899.8	23.21	104.48	7,318.4	-721.1	2,792.3	2,883.9	0.00	0.00	Start Drop -3.00
8,000.0	20.20	104.48	7,411.5	-730.4	2,828.1	2,920.9	3.00	-3.00	
8,100.0	17.20	104.48	7,506.2	-738.4	2,859.2	2,953.0	3.00	-3.00	
8,125.9	16.42	104.48	7,531.0	-740.3	2,866.4	2,960.5	3.00	-3.00	WILLIAMS_FORK (TVD)
8,167.5	15.18	104.48	7,571.0	-743.1	2,877.4	2,971.8	3.00	-3.00	TOG (TVD); Inc=15°
8,200.0	14.20	104.48	7,602.4	-745.2	2,885.4	2,980.0	3.00	-3.00	
8,300.0	11.20	104.48	7,700.0	-750.7	2,906.7	3,002.0	3.00	-3.00	
8,400.0	8.20	104.48	7,798.5	-754.9	2,923.0	3,018.9	3.00	-3.00	
8,500.0	5.20	104.48	7,897.8	-757.8	2,934.3	3,030.5	3.00	-3.00	
8,600.0	2.20	104.48	7,997.6	-759.4	2,940.5	3,037.0	3.00	-3.00	
8,673.4	0.00	0.00	8,071.0	-759.8	2,941.9	3,038.4	3.00	-3.00	EOD; Inc=0°
8,700.0	0.07	240.85	8,097.6	-759.8	2,941.9	3,038.4	0.25	0.25	
8,800.0	0.32	240.85	8,197.6	-760.0	2,941.6	3,038.1	0.25	0.25	
8,814.6	0.35	240.85	8,212.2	-760.0	2,941.5	3,038.1	0.25	0.25	
8,900.0	0.35	240.85	8,297.6	-760.3	2,941.1	3,037.7	0.00	0.00	
9,000.0	0.35	240.85	8,397.6	-760.6	2,940.5	3,037.3	0.00	0.00	
9,100.0	0.35	240.85	8,497.6	-760.9	2,940.0	3,036.8	0.00	0.00	
9,200.0	0.35	240.85	8,597.6	-761.2	2,939.4	3,036.4	0.00	0.00	
9,300.0	0.35	240.85	8,697.6	-761.5	2,938.9	3,035.9	0.00	0.00	
9,400.0	0.35	240.85	8,797.6	-761.8	2,938.4	3,035.5	0.00	0.00	



# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8502B-34 M27 496 was 8502B-28
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Site:</b>	S27-T4S-R96W (M27 496)	<b>North Reference:</b>	True
<b>Well:</b>	8502B-34 M27 496 was 8502B-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
9,434.4	0.35	240.85	8,832.0	-761.9	2,938.2	3,035.3	0.00	0.00	PRICE_Marker (TVD)
9,500.0	0.35	240.85	8,897.6	-762.1	2,937.8	3,035.0	0.00	0.00	
9,600.0	0.35	240.85	8,997.6	-762.4	2,937.3	3,034.6	0.00	0.00	
9,700.0	0.35	240.85	9,097.6	-762.7	2,936.8	3,034.2	0.00	0.00	
9,800.0	0.35	240.85	9,197.6	-763.0	2,936.2	3,033.7	0.00	0.00	
9,900.0	0.35	240.85	9,297.6	-763.3	2,935.7	3,033.3	0.00	0.00	
10,000.0	0.35	240.85	9,397.6	-763.6	2,935.1	3,032.8	0.00	0.00	
10,100.0	0.35	240.85	9,497.6	-763.9	2,934.6	3,032.4	0.00	0.00	
10,200.0	0.35	240.85	9,597.6	-764.2	2,934.1	3,031.9	0.00	0.00	
10,300.0	0.35	240.85	9,697.6	-764.5	2,933.5	3,031.5	0.00	0.00	
10,400.0	0.35	240.85	9,797.6	-764.8	2,933.0	3,031.0	0.00	0.00	
10,500.0	0.35	240.85	9,897.6	-765.1	2,932.5	3,030.6	0.00	0.00	
10,600.0	0.35	240.85	9,997.6	-765.4	2,931.9	3,030.2	0.00	0.00	
10,700.0	0.35	240.85	10,097.6	-765.7	2,931.4	3,029.7	0.00	0.00	
10,800.0	0.35	240.85	10,197.6	-766.0	2,930.8	3,029.3	0.00	0.00	
10,900.0	0.35	240.85	10,297.6	-766.3	2,930.3	3,028.8	0.00	0.00	
11,000.0	0.35	240.85	10,397.6	-766.6	2,929.8	3,028.4	0.00	0.00	
11,100.0	0.35	240.85	10,497.6	-766.9	2,929.2	3,027.9	0.00	0.00	
11,200.0	0.35	240.85	10,597.6	-767.2	2,928.7	3,027.5	0.00	0.00	
11,300.0	0.35	240.85	10,697.6	-767.5	2,928.1	3,027.0	0.00	0.00	
11,335.4	0.35	240.85	10,733.0	-767.6	2,928.0	3,026.9	0.00	0.00	CAMEO (TVD)
11,400.0	0.35	240.85	10,797.6	-767.8	2,927.6	3,026.6	0.00	0.00	
11,500.0	0.35	240.85	10,897.5	-768.1	2,927.1	3,026.2	0.00	0.00	
11,600.0	0.35	240.85	10,997.5	-768.4	2,926.5	3,025.7	0.00	0.00	
11,700.0	0.35	240.85	11,097.5	-768.7	2,926.0	3,025.3	0.00	0.00	
11,800.0	0.35	240.85	11,197.5	-769.0	2,925.5	3,024.8	0.00	0.00	
11,900.0	0.35	240.85	11,297.5	-769.3	2,924.9	3,024.4	0.00	0.00	
11,935.5	0.35	240.85	11,333.0	-769.4	2,924.7	3,024.2	0.00	0.00	ROLLINS (TVD)
12,000.0	0.35	240.85	11,397.5	-769.6	2,924.4	3,023.9	0.00	0.00	
12,085.5	0.35	240.85	11,483.0	-769.8	2,923.9	3,023.6	0.00	0.00	Drillers TD @ 11,483' TVD
12,100.0	0.35	240.85	11,497.5	-769.9	2,923.8	3,023.5	0.00	0.00	
12,150.5	0.35	240.85	11,548.0	-770.0	2,923.6	3,023.3	0.00	0.00	COZZETTE (TVD)
12,200.0	0.35	240.85	11,597.5	-770.2	2,923.3	3,023.1	0.00	0.00	
12,300.0	0.35	240.85	11,697.5	-770.5	2,922.8	3,022.6	0.00	0.00	
12,349.5	0.35	240.85	11,747.0	-770.6	2,922.5	3,022.4	0.00	0.00	CORCORAN (TVD)
12,400.0	0.35	240.85	11,797.5	-770.8	2,922.2	3,022.2	0.00	0.00	
12,500.0	0.35	240.85	11,897.5	-771.1	2,921.7	3,021.7	0.00	0.00	
12,567.5	0.35	240.85	11,965.0	-771.3	2,921.3	3,021.4	0.00	0.00	UPPER_SEGO (TVD)
12,600.0	0.35	240.85	11,997.5	-771.4	2,921.1	3,021.3	0.00	0.00	
12,700.0	0.35	240.85	12,097.5	-771.7	2,920.6	3,020.8	0.00	0.00	
12,800.0	0.35	240.85	12,197.5	-772.0	2,920.1	3,020.4	0.00	0.00	
12,817.5	0.35	240.85	12,215.0	-772.0	2,920.0	3,020.3	0.00	0.00	SEGO_BASE_TARGET (TVD)
12,900.0	0.35	240.85	12,297.5	-772.3	2,919.5	3,019.9	0.00	0.00	
13,000.0	0.35	240.85	12,397.5	-772.6	2,919.0	3,019.5	0.00	0.00	
13,085.5	0.35	240.85	12,483.0	-772.8	2,918.5	3,019.1	0.00	0.00	Permit TD @ 12,483' TVD



# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8502B-34 M27 496 was 8502B-28
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	KBE @ 8121.0ft (Original Well Elev)
<b>Site:</b>	S27-T4S-R96W (M27 496)	<b>North Reference:</b>	True
<b>Well:</b>	8502B-34 M27 496 was 8502B-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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 8502B-28 PBH	0.00	0.00	11,483.0	-769.8	2,923.9	1,678,131.77	2,253,918.52	39° 39' 55.37 N	108° 9' 2.05 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
M27 496 8502B-28 TGT	0.00	0.00	8,071.0	-759.8	2,941.9	1,678,141.27	2,253,936.78	39° 39' 55.47 N	108° 9' 1.82 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,069.8	1,041.0	A_GROOVE (TVD)				
1,233.0	1,191.0	B_GROOVE (TVD)				
2,294.9	2,167.0	Garden Gulch Member (TVD)				
5,809.3	5,397.0	WASATCH_G (TVD)				
8,125.9	7,531.0	WILLIAMS_FORK (TVD)				
8,167.5	7,571.0	TOG (TVD); Inc=15°				
9,434.4	8,832.0	PRICE_Marker (TVD)				
11,335.4	10,733.0	CAMEO (TVD)				
11,935.5	11,333.0	ROLLINS (TVD)				
12,150.5	11,548.0	COZZETTE (TVD)				
12,349.5	11,747.0	CORCORAN (TVD)				
12,567.5	11,965.0	UPPER_SEGO (TVD)				
12,817.5	12,215.0	SEGO_BASE_TARGET (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
973.6	952.6	-38.6	149.6	EOB; Inc=23.21°
7,899.8	7,318.4	-721.1	2,792.3	Start Drop -3.00
8,673.4	8,071.0	-759.8	2,941.9	EOD; Inc=0°
12,085.5	11,483.0	-769.8	2,923.9	Drillers TD @ 11,483' TVD
13,085.5	12,483.0	-772.8	2,918.5	Permit TD @ 12,483' TVD