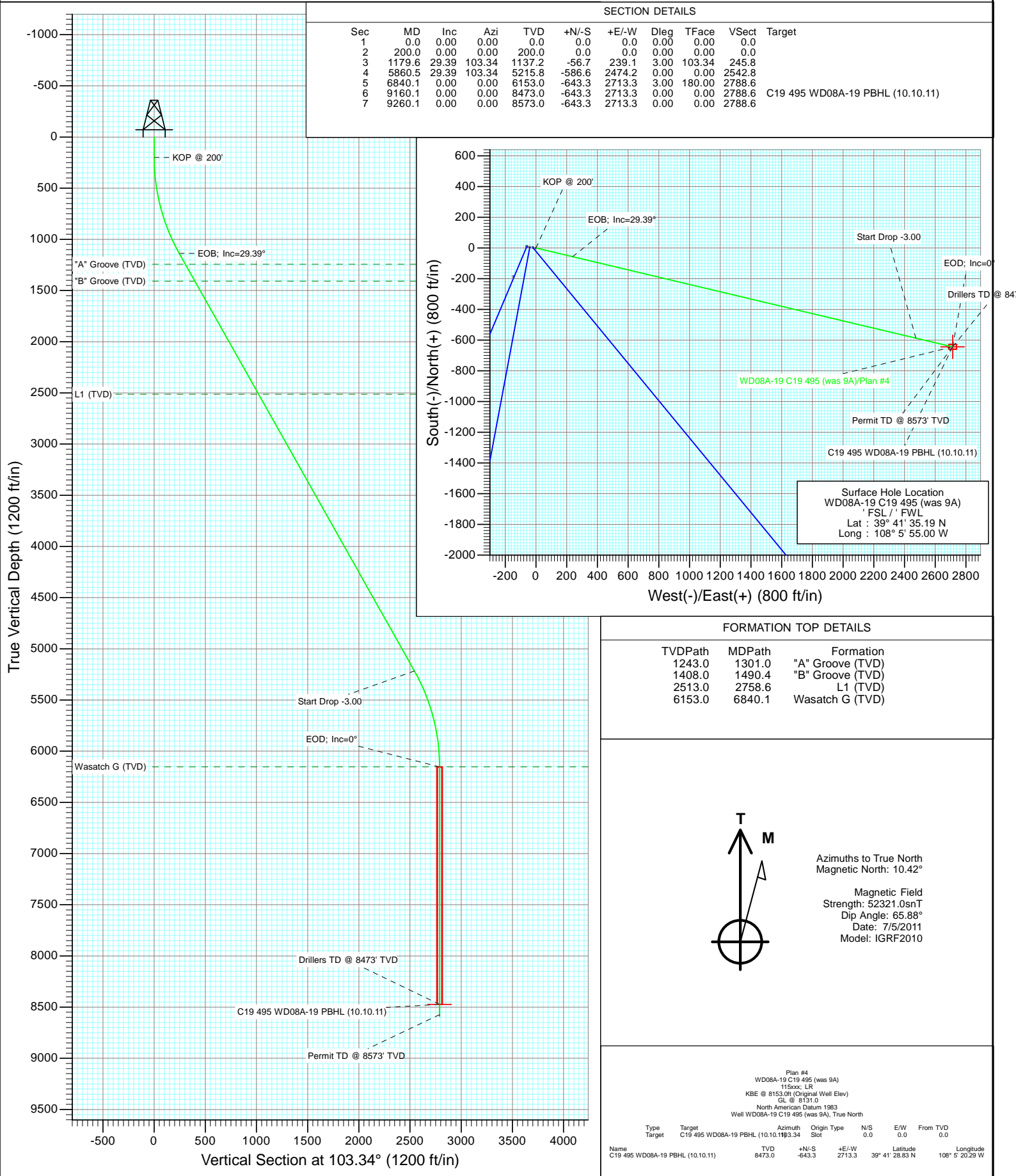


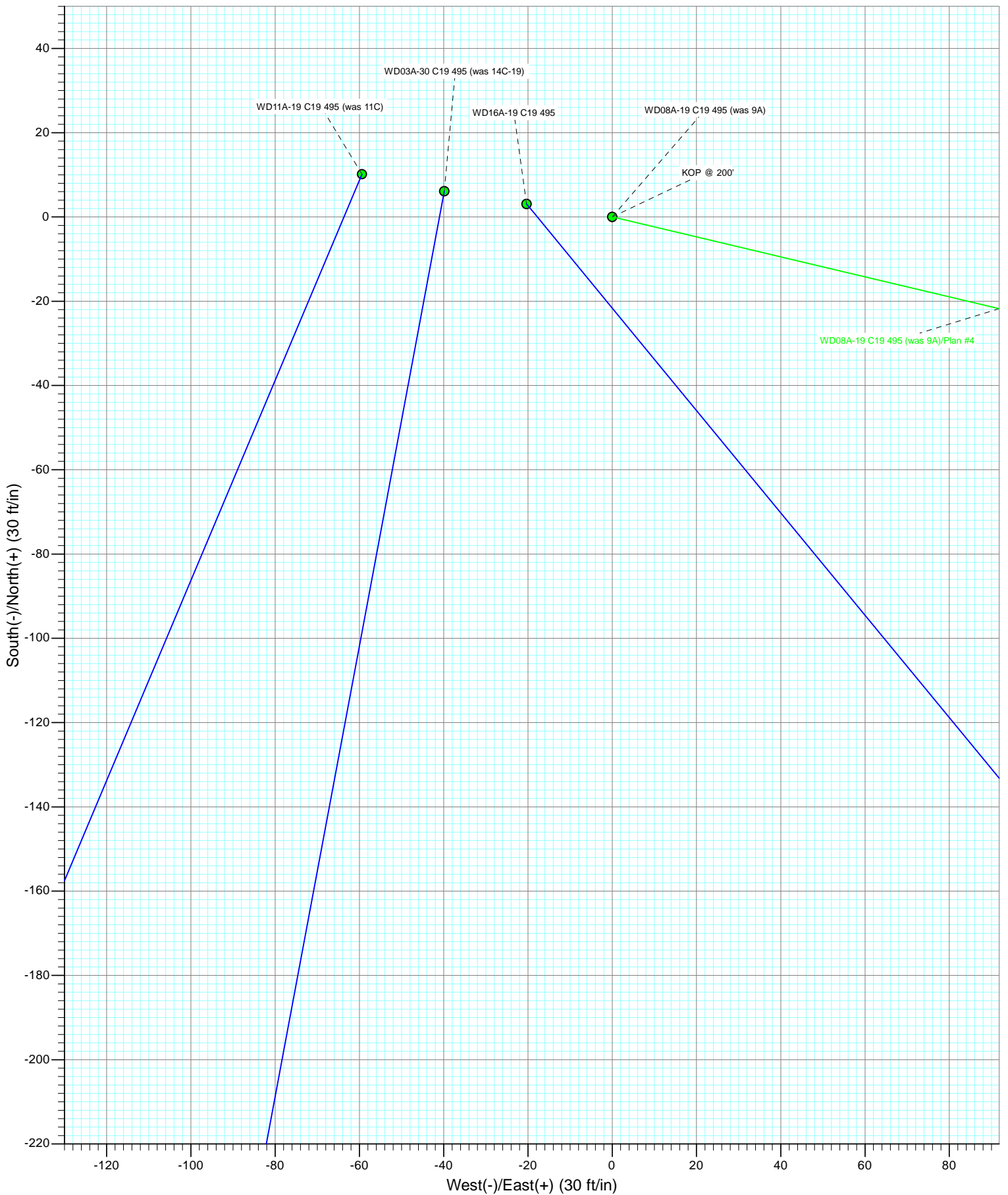


Project: Story Gulch
Site: C19 495
Well: WD08A-19 C19 495 (was 9A)
Wellbore: DD
Design: Plan #4





Project: Story Gulch
Site: C19 495
Well: WD08A-19 C19 495 (was 9A)
Wellbore: DD
Design: Plan #4



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well WD08A-19 C19 495 (was 9A)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8153.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8153.0ft (Original Well Elev)
Site:	C19 495	North Reference:	True
Well:	WD08A-19 C19 495 (was 9A)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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	C19 495			
Site Position:		Northing:	1,687,624.39 ft	Latitude: 39° 41' 33.36 N
From:	Lat/Long	Easting:	2,268,676.50 ft	Longitude: 108° 5' 56.88 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: -1.64 °

Well	WD08A-19 C19 495 (was 9A)			
Well Position	+N/-S	0.0 ft	Northing:	1,687,805.22 ft
	+E/-W	0.0 ft	Easting:	2,268,828.69 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	8,131.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/5/2011	10.42	65.88	52,321

Design	Plan #4			
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	103.34

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,179.6	29.39	103.34	1,137.2	-56.7	239.1	3.00	3.00	0.00	103.34	
5,860.5	29.39	103.34	5,215.8	-586.6	2,474.2	0.00	0.00	0.00	0.00	
6,840.1	0.00	0.00	6,153.0	-643.3	2,713.3	3.00	-3.00	0.00	180.00	
9,160.1	0.00	0.00	8,473.0	-643.3	2,713.3	0.00	0.00	0.00	0.00	C19 495 WD08A-19 F
9,260.1	0.00	0.00	8,573.0	-643.3	2,713.3	0.00	0.00	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well WD08A-19 C19 495 (was 9A)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8153.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8153.0ft (Original Well Elev)
Site:	C19 495	North Reference:	True
Well:	WD08A-19 C19 495 (was 9A)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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	103.34	300.0	-0.6	2.5	2.6	3.00	3.00	
400.0	6.00	103.34	399.6	-2.4	10.2	10.5	3.00	3.00	
500.0	9.00	103.34	498.8	-5.4	22.9	23.5	3.00	3.00	
600.0	12.00	103.34	597.1	-9.6	40.6	41.7	3.00	3.00	
700.0	15.00	103.34	694.3	-15.0	63.3	65.1	3.00	3.00	
800.0	18.00	103.34	790.2	-21.6	91.0	93.5	3.00	3.00	
900.0	21.00	103.34	884.4	-29.3	123.4	126.9	3.00	3.00	
1,000.0	24.00	103.34	976.8	-38.1	160.7	165.1	3.00	3.00	
1,100.0	27.00	103.34	1,067.1	-48.0	202.5	208.2	3.00	3.00	
1,179.6	29.39	103.34	1,137.2	-56.7	239.1	245.8	3.00	3.00	EOB; Inc=29.39°
1,200.0	29.39	103.34	1,155.0	-59.0	248.9	255.8	0.00	0.00	
1,300.0	29.39	103.34	1,242.1	-70.3	296.6	304.8	0.00	0.00	
1,301.0	29.39	103.34	1,243.0	-70.4	297.1	305.3	0.00	0.00	"A" Groove (TVD)
1,400.0	29.39	103.34	1,329.2	-81.7	344.4	353.9	0.00	0.00	
1,490.4	29.39	103.34	1,408.0	-91.9	387.5	398.3	0.00	0.00	"B" Groove (TVD)
1,500.0	29.39	103.34	1,416.4	-93.0	392.1	403.0	0.00	0.00	
1,600.0	29.39	103.34	1,503.5	-104.3	439.9	452.1	0.00	0.00	
1,700.0	29.39	103.34	1,590.6	-115.6	487.6	501.1	0.00	0.00	
1,800.0	29.39	103.34	1,677.8	-126.9	535.4	550.2	0.00	0.00	
1,900.0	29.39	103.34	1,764.9	-138.3	583.1	599.3	0.00	0.00	
2,000.0	29.39	103.34	1,852.0	-149.6	630.9	648.4	0.00	0.00	
2,100.0	29.39	103.34	1,939.2	-160.9	678.6	697.4	0.00	0.00	
2,200.0	29.39	103.34	2,026.3	-172.2	726.4	746.5	0.00	0.00	
2,300.0	29.39	103.34	2,113.4	-183.5	774.1	795.6	0.00	0.00	
2,400.0	29.39	103.34	2,200.6	-194.9	821.9	844.6	0.00	0.00	
2,500.0	29.39	103.34	2,287.7	-206.2	869.6	893.7	0.00	0.00	
2,600.0	29.39	103.34	2,374.8	-217.5	917.4	942.8	0.00	0.00	
2,700.0	29.39	103.34	2,462.0	-228.8	965.1	991.9	0.00	0.00	
2,758.6	29.39	103.34	2,513.0	-235.5	993.1	1,020.6	0.00	0.00	L1 (TVD)
2,800.0	29.39	103.34	2,549.1	-240.1	1,012.8	1,040.9	0.00	0.00	
2,900.0	29.39	103.34	2,636.2	-251.5	1,060.6	1,090.0	0.00	0.00	
3,000.0	29.39	103.34	2,723.4	-262.8	1,108.3	1,139.1	0.00	0.00	
3,100.0	29.39	103.34	2,810.5	-274.1	1,156.1	1,188.1	0.00	0.00	
3,200.0	29.39	103.34	2,897.6	-285.4	1,203.8	1,237.2	0.00	0.00	
3,300.0	29.39	103.34	2,984.8	-296.8	1,251.6	1,286.3	0.00	0.00	
3,400.0	29.39	103.34	3,071.9	-308.1	1,299.3	1,335.4	0.00	0.00	
3,500.0	29.39	103.34	3,159.0	-319.4	1,347.1	1,384.4	0.00	0.00	
3,600.0	29.39	103.34	3,246.1	-330.7	1,394.8	1,433.5	0.00	0.00	
3,700.0	29.39	103.34	3,333.3	-342.0	1,442.6	1,482.6	0.00	0.00	
3,800.0	29.39	103.34	3,420.4	-353.4	1,490.3	1,531.6	0.00	0.00	
3,900.0	29.39	103.34	3,507.5	-364.7	1,538.1	1,580.7	0.00	0.00	
4,000.0	29.39	103.34	3,594.7	-376.0	1,585.8	1,629.8	0.00	0.00	
4,100.0	29.39	103.34	3,681.8	-387.3	1,633.6	1,678.9	0.00	0.00	
4,200.0	29.39	103.34	3,768.9	-398.6	1,681.3	1,727.9	0.00	0.00	
4,300.0	29.39	103.34	3,856.1	-410.0	1,729.1	1,777.0	0.00	0.00	
4,400.0	29.39	103.34	3,943.2	-421.3	1,776.8	1,826.1	0.00	0.00	
4,500.0	29.39	103.34	4,030.3	-432.6	1,824.6	1,875.2	0.00	0.00	
4,600.0	29.39	103.34	4,117.5	-443.9	1,872.3	1,924.2	0.00	0.00	
4,700.0	29.39	103.34	4,204.6	-455.3	1,920.1	1,973.3	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well WD08A-19 C19 495 (was 9A)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8153.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8153.0ft (Original Well Elev)
Site:	C19 495	North Reference:	True
Well:	WD08A-19 C19 495 (was 9A)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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	29.39	103.34	4,291.7	-466.6	1,967.8	2,022.4	0.00	0.00	
4,900.0	29.39	103.34	4,378.9	-477.9	2,015.6	2,071.4	0.00	0.00	
5,000.0	29.39	103.34	4,466.0	-489.2	2,063.3	2,120.5	0.00	0.00	
5,100.0	29.39	103.34	4,553.1	-500.5	2,111.1	2,169.6	0.00	0.00	
5,200.0	29.39	103.34	4,640.3	-511.9	2,158.8	2,218.7	0.00	0.00	
5,300.0	29.39	103.34	4,727.4	-523.2	2,206.6	2,267.7	0.00	0.00	
5,400.0	29.39	103.34	4,814.5	-534.5	2,254.3	2,316.8	0.00	0.00	
5,500.0	29.39	103.34	4,901.6	-545.8	2,302.0	2,365.9	0.00	0.00	
5,600.0	29.39	103.34	4,988.8	-557.1	2,349.8	2,414.9	0.00	0.00	
5,700.0	29.39	103.34	5,075.9	-568.5	2,397.5	2,464.0	0.00	0.00	
5,800.0	29.39	103.34	5,163.0	-579.8	2,445.3	2,513.1	0.00	0.00	
5,860.5	29.39	103.34	5,215.8	-586.6	2,474.2	2,542.8	0.00	0.00	Start Drop -3.00
5,900.0	28.20	103.34	5,250.4	-591.0	2,492.7	2,561.8	3.00	-3.00	
6,000.0	25.20	103.34	5,339.7	-601.4	2,536.4	2,606.7	3.00	-3.00	
6,100.0	22.20	103.34	5,431.3	-610.7	2,575.5	2,646.9	3.00	-3.00	
6,200.0	19.20	103.34	5,524.8	-618.8	2,609.9	2,682.3	3.00	-3.00	
6,300.0	16.20	103.34	5,620.0	-625.8	2,639.5	2,712.7	3.00	-3.00	
6,400.0	13.20	103.34	5,716.7	-631.7	2,664.2	2,738.1	3.00	-3.00	
6,500.0	10.20	103.34	5,814.7	-636.4	2,683.9	2,758.4	3.00	-3.00	
6,600.0	7.20	103.34	5,913.5	-639.9	2,698.7	2,773.5	3.00	-3.00	
6,700.0	4.20	103.34	6,013.0	-642.2	2,708.3	2,783.4	3.00	-3.00	
6,800.0	1.20	103.34	6,112.9	-643.2	2,712.9	2,788.1	3.00	-3.00	
6,840.1	0.00	0.00	6,153.0	-643.3	2,713.3	2,788.6	3.00	-3.00	EOD; Inc=0° - Wasatch G (TVD)
6,900.0	0.00	0.00	6,212.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,000.0	0.00	0.00	6,312.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,100.0	0.00	0.00	6,412.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,200.0	0.00	0.00	6,512.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,300.0	0.00	0.00	6,612.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,400.0	0.00	0.00	6,712.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,500.0	0.00	0.00	6,812.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,600.0	0.00	0.00	6,912.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,700.0	0.00	0.00	7,012.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,800.0	0.00	0.00	7,112.9	-643.3	2,713.3	2,788.6	0.00	0.00	
7,900.0	0.00	0.00	7,212.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,000.0	0.00	0.00	7,312.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,100.0	0.00	0.00	7,412.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,200.0	0.00	0.00	7,512.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,300.0	0.00	0.00	7,612.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,400.0	0.00	0.00	7,712.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,500.0	0.00	0.00	7,812.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,600.0	0.00	0.00	7,912.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,700.0	0.00	0.00	8,012.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,800.0	0.00	0.00	8,112.9	-643.3	2,713.3	2,788.6	0.00	0.00	
8,900.0	0.00	0.00	8,212.9	-643.3	2,713.3	2,788.6	0.00	0.00	
9,000.0	0.00	0.00	8,312.9	-643.3	2,713.3	2,788.6	0.00	0.00	
9,100.0	0.00	0.00	8,412.9	-643.3	2,713.3	2,788.6	0.00	0.00	
9,160.1	0.00	0.00	8,473.0	-643.3	2,713.3	2,788.6	0.00	0.00	Drillers TD @ 8473' TVD - C19 495 WD08A-19
9,200.0	0.00	0.00	8,512.9	-643.3	2,713.3	2,788.6	0.00	0.00	
9,260.1	0.00	0.00	8,573.0	-643.3	2,713.3	2,788.6	0.00	0.00	Permit TD @ 8573' TVD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well WD08A-19 C19 495 (was 9A)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8153.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8153.0ft (Original Well Elev)
Site:	C19 495	North Reference:	True
Well:	WD08A-19 C19 495 (was 9A)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #4		

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)		
C19 495 WD08A-19 PBI	0.00	0.00	8,473.0	-643.3	2,713.3	1,687,084.55	2,271,522.52	39° 41' 28.83 N	108° 5' 20.29 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)			(°)	(°)	
1,301.0	1,243.0	"A" Groove (TVD)		0.00		
1,490.4	1,408.0	"B" Groove (TVD)		0.00		
2,758.6	2,513.0	L1 (TVD)		0.00		
6,840.1	6,153.0	Wasatch G (TVD)		0.00		

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'	
1,179.6	1,137.2	-56.7	239.1	EOB; Inc=29.39°	
5,860.5	5,215.8	-586.6	2,474.2	Start Drop -3.00	
6,840.1	6,153.0	-643.3	2,713.3	EOD; Inc=0°	
9,160.1	8,473.0	-643.3	2,713.3	Drillers TD @ 8473' TVD	
9,260.1	8,573.0	-643.3	2,713.3	Permit TD @ 8573' TVD	