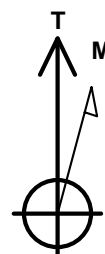
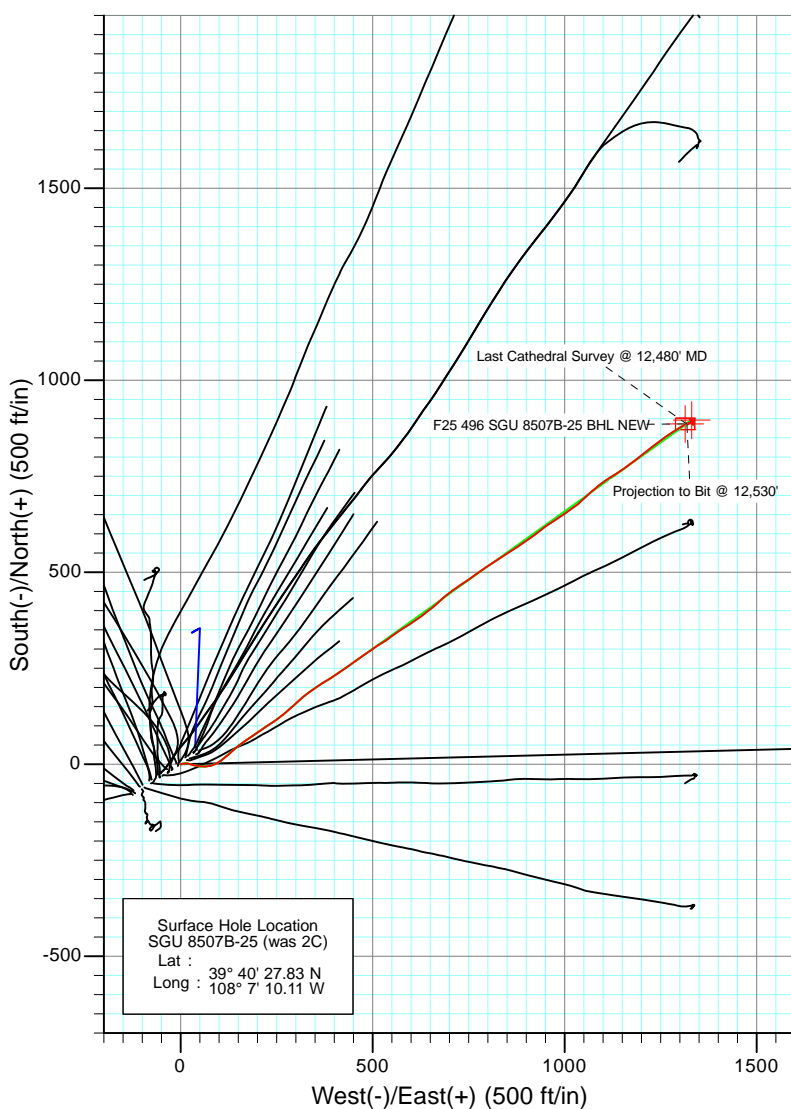
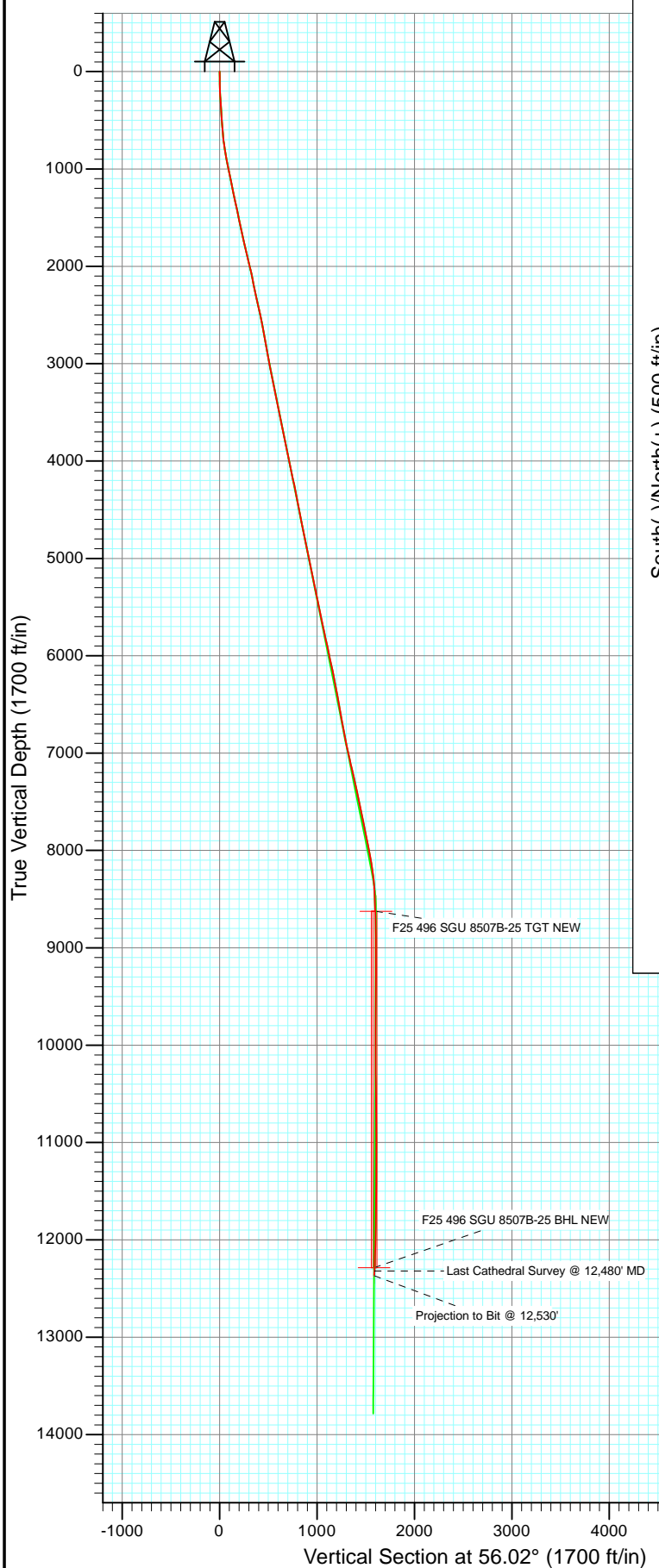




Project: Story Gulch
 Site: F25 496
 Well: SGU 8507B-25 (was 2C)
 Wellbore: DD
 Design: FINAL



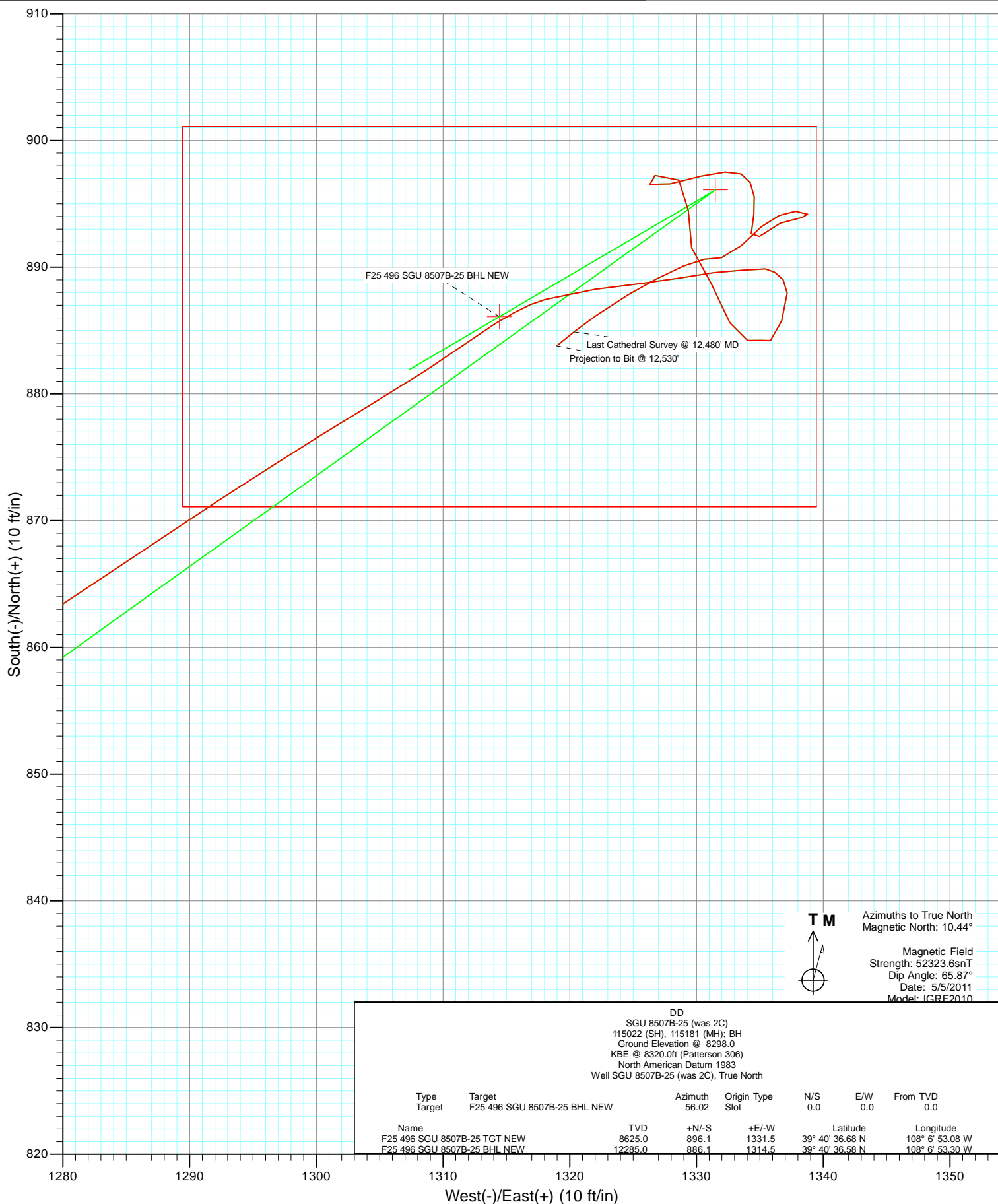
Azimuths to True North
 Magnetic North: 10.44°

Magnetic Field
 Strength: 52323.6snT
 Dip Angle: 65.87°
 Date: 5/5/2011
 Model: IGRF2010

DD SGU 8507B-25 (was 2C) 115022 (SH), 115181 (MH); BH Ground Elevation @ 8298.0 KBE @ 8320.0ft (Patterson 306) North American Datum 1983 Well SGU 8507B-25 (was 2C), True North						
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
Target	F25 496 SGU 8507B-25 BHL NEW	56.02	Slot	0.0	0.0	0.0
Name	Target	TVD	+N/-S	+E/-W	Latitude	Longitude
F25 496 SGU 8507B-25 TGT NEW		8625.0	896.1	1331.5	39° 40' 36.68 N	108° 6' 53.08 W
F25 496 SGU 8507B-25 BHL NEW		12285.0	886.1	1314.5	39° 40' 36.58 N	108° 6' 53.30 W



Project: Story Gulch
 Site: F25 496
 Well: SGU 8507B-25 (was 2C)
 Wellbore: DD
 Design: FINAL



Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8507B-25 (was 2C)
Project:	Story Gulch	TVD Reference:	KBE @ 8320.0ft (Patterson 306)
Site:	F25 496	MD Reference:	KBE @ 8320.0ft (Patterson 306)
Well:	SGU 8507B-25 (was 2C)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	EDM 5000.1 US Multi Users DB

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		F25 496			
Site Position:		Northing:	1,681,091.06 ft	Latitude:	39° 40' 27.10 N
From:	Lat/Long	Easting:	2,262,632.54 ft	Longitude:	108° 7' 11.76 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well	SGU 8507B-25 (was 2C)					
Well Position	+N/-S	0.0 ft	Northing:	1,681,160.48 ft	Latitude:	39° 40' 27.83 N
	+E/-W	0.0 ft	Easting:	2,262,763.54 ft	Longitude:	108° 7' 10.11 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,298.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/5/2011	10.44	65.87	52,324

Design	DD				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	56.02	

Survey Program	Date	5/19/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
252.0	12,530.0	Survey #1 (DD)	MWD	Geolink MWD	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
252.0	3.10	76.40	251.9	1.6	6.6	6.4	1.23	1.23		
313.0	4.30	81.40	312.7	2.3	10.5	10.0	2.04	1.97		
405.0	5.10	101.20	404.4	2.1	17.9	16.0	1.95	0.87		
498.0	5.90	104.70	497.0	0.0	26.6	22.1	0.93	0.86		
589.0	7.10	104.30	587.4	-2.5	36.6	28.9	1.32	1.32		
682.0	8.20	99.20	679.6	-5.0	48.7	37.6	1.39	1.18		
774.0	9.60	89.10	770.5	-5.9	62.8	48.8	2.27	1.52		
869.0	10.70	75.30	864.0	-3.6	79.3	63.7	2.80	1.16		
964.0	11.40	60.10	957.3	3.3	96.0	81.4	3.14	0.74		
1,060.0	12.20	50.50	1,051.3	14.5	112.0	101.0	2.21	0.83		
1,155.0	11.90	47.00	1,144.2	27.6	126.9	120.7	0.83	-0.32		
1,250.0	11.30	49.30	1,237.2	40.3	141.1	139.6	0.80	-0.63		

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8507B-25 (was 2C)
Project:	Story Gulch	TVD Reference:	KBE @ 8320.0ft (Patterson 306)
Site:	F25 496	MD Reference:	KBE @ 8320.0ft (Patterson 306)
Well:	SGU 8507B-25 (was 2C)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	EDM 5000.1 US Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,345.0	12.30	54.20	1,330.2	52.3	156.4	158.9	1.49	1.05	
1,440.0	12.10	56.50	1,423.1	63.7	172.9	179.0	0.55	-0.21	
1,536.0	11.40	54.40	1,517.1	74.8	189.0	198.5	0.85	-0.73	
1,630.0	12.50	55.40	1,609.0	86.0	204.9	218.0	1.19	1.17	
1,724.0	12.40	57.40	1,700.8	97.2	221.8	238.3	0.47	-0.11	
1,820.0	13.10	56.00	1,794.4	108.8	239.5	259.5	0.80	0.73	
1,915.0	14.20	52.10	1,886.8	122.0	257.6	281.8	1.51	1.16	
2,010.0	13.50	49.60	1,979.0	136.4	275.3	304.5	0.97	-0.74	
2,105.0	12.50	48.50	2,071.6	150.4	291.4	325.7	1.08	-1.05	
2,201.0	11.30	47.20	2,165.5	163.6	306.1	345.3	1.28	-1.25	
2,296.0	11.60	49.80	2,258.6	176.1	320.2	364.0	0.63	0.32	
2,391.0	12.40	53.50	2,351.5	188.4	335.7	383.7	1.17	0.84	
2,486.0	12.70	57.00	2,444.3	200.1	352.7	404.3	0.86	0.32	
2,581.0	11.90	57.90	2,537.1	211.0	369.7	424.5	0.87	-0.84	
2,676.0	10.70	57.20	2,630.2	221.0	385.5	443.1	1.27	-1.26	
2,771.0	10.00	57.20	2,723.7	230.2	399.8	460.2	0.74	-0.74	
2,867.0	10.60	56.60	2,818.2	239.6	414.2	477.4	0.63	0.62	
2,970.0	10.80	54.50	2,919.4	250.4	429.9	496.5	0.43	0.19	
3,081.0	9.60	55.40	3,028.6	261.7	446.0	516.1	1.09	-1.08	
3,172.0	11.20	53.20	3,118.1	271.3	459.4	532.6	1.81	1.76	
3,264.0	11.80	52.10	3,208.3	282.5	473.9	550.9	0.69	0.65	
3,355.0	11.00	57.70	3,297.5	292.8	488.6	568.8	1.50	-0.88	
3,447.0	12.30	58.00	3,387.6	302.7	504.3	587.4	1.41	1.41	
3,538.0	11.30	58.00	3,476.6	312.6	520.1	606.0	1.10	-1.10	
3,630.0	12.50	53.90	3,566.7	323.2	535.8	625.0	1.59	1.30	
3,721.0	11.20	53.50	3,655.7	334.3	550.9	643.6	1.43	-1.43	
3,813.0	11.30	55.20	3,746.0	344.7	565.5	661.6	0.38	0.11	
3,904.0	12.00	58.70	3,835.1	354.7	580.9	679.9	1.09	0.77	
3,996.0	11.20	57.40	3,925.2	364.5	596.6	698.4	0.91	-0.87	
4,087.0	10.90	55.00	4,014.5	374.2	611.1	715.9	0.60	-0.33	
4,179.0	12.60	52.10	4,104.6	385.4	626.1	734.6	1.96	1.85	
4,271.0	12.20	53.10	4,194.4	397.4	641.8	754.3	0.49	-0.43	
4,362.0	11.10	52.50	4,283.6	408.5	656.4	772.6	1.22	-1.21	
4,454.0	10.80	44.50	4,373.9	420.0	669.5	789.9	1.68	-0.33	
4,545.0	10.90	50.10	4,463.3	431.6	682.1	806.8	1.16	0.11	
4,637.0	12.00	52.60	4,553.4	443.0	696.3	825.0	1.31	1.20	
4,728.0	11.10	52.50	4,642.6	454.1	710.8	843.2	0.99	-0.99	
4,820.0	12.00	56.00	4,732.7	464.8	725.8	861.6	1.24	0.98	
4,911.0	11.10	56.90	4,821.9	474.9	741.0	879.8	1.01	-0.99	
5,003.0	12.10	54.20	4,912.0	485.4	756.2	898.3	1.24	1.09	
5,094.0	11.90	55.40	5,001.0	496.3	771.6	917.2	0.35	-0.22	
5,186.0	10.80	54.40	5,091.2	506.7	786.5	935.3	1.21	-1.20	
5,277.0	11.60	55.30	5,180.5	516.9	800.9	953.0	0.90	0.88	
5,368.0	11.30	59.50	5,269.7	526.6	816.1	971.1	0.97	-0.33	
5,460.0	11.70	57.30	5,359.8	536.2	831.7	989.4	0.65	0.43	
5,552.0	12.40	56.70	5,449.8	546.7	847.8	1,008.6	0.77	0.76	
5,644.0	11.30	56.00	5,539.8	557.1	863.6	1,027.5	1.21	-1.20	
5,735.0	11.30	55.40	5,629.1	567.2	878.3	1,045.3	0.13	0.00	
5,827.0	13.10	55.70	5,719.0	578.2	894.3	1,064.8	1.96	1.96	
5,919.0	11.70	56.80	5,808.8	589.2	910.8	1,084.5	1.54	-1.52	
6,011.0	12.50	52.00	5,898.8	600.4	926.4	1,103.8	1.40	0.87	
6,102.0	11.60	50.90	5,987.8	612.2	941.3	1,122.7	1.02	-0.99	
6,194.0	13.10	56.50	6,077.7	623.8	957.1	1,142.3	2.08	1.63	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8507B-25 (was 2C)
Project:	Story Gulch	TVD Reference:	KBE @ 8320.0ft (Patterson 306)
Site:	F25 496	MD Reference:	KBE @ 8320.0ft (Patterson 306)
Well:	SGU 8507B-25 (was 2C)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	EDM 5000.1 US Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,285.0	12.00	56.80	6,166.5	634.7	973.7	1,162.1	1.21	-1.21	
6,377.0	10.90	55.80	6,256.7	644.8	988.9	1,180.4	1.21	-1.20	
6,469.0	10.00	54.50	6,347.1	654.3	1,002.6	1,197.1	1.01	-0.98	
6,560.0	10.50	55.20	6,436.7	663.7	1,015.8	1,213.3	0.57	0.55	
6,652.0	9.70	53.50	6,527.3	673.1	1,028.9	1,229.4	0.93	-0.87	
6,743.0	11.10	47.30	6,616.8	683.6	1,041.5	1,245.7	1.97	1.54	
6,835.0	10.10	45.20	6,707.2	695.2	1,053.7	1,262.4	1.17	-1.09	
6,926.0	11.10	50.10	6,796.6	706.5	1,066.1	1,278.9	1.48	1.10	
7,018.0	11.20	49.70	6,886.9	718.0	1,079.7	1,296.6	0.14	0.11	
7,109.0	12.40	52.20	6,976.0	729.7	1,094.2	1,315.1	1.43	1.32	
7,201.0	12.40	56.90	7,065.8	741.1	1,110.3	1,334.9	1.10	0.00	
7,292.0	13.60	58.00	7,154.5	752.1	1,127.5	1,355.3	1.35	1.32	
7,384.0	13.20	55.40	7,244.0	763.8	1,145.4	1,376.7	0.79	-0.43	
7,475.0	12.30	54.70	7,332.8	775.3	1,161.8	1,396.7	1.00	-0.99	
7,567.0	11.90	54.00	7,422.7	786.5	1,177.5	1,416.0	0.46	-0.43	
7,658.0	11.70	52.30	7,511.8	797.7	1,192.4	1,434.6	0.44	-0.22	
7,750.0	11.10	51.90	7,602.0	808.9	1,206.7	1,452.7	0.66	-0.65	
7,842.0	11.60	49.60	7,692.2	820.3	1,220.7	1,470.8	0.73	0.54	
7,933.0	11.70	50.00	7,781.3	832.2	1,234.8	1,489.0	0.14	0.11	
8,025.0	11.80	56.90	7,871.4	843.3	1,249.8	1,507.7	1.53	0.11	
8,116.0	11.20	56.20	7,960.5	853.3	1,264.9	1,525.9	0.68	-0.66	
8,208.0	10.30	55.90	8,050.9	862.9	1,279.2	1,543.0	0.98	-0.98	
8,299.0	9.80	57.00	8,140.5	871.7	1,292.4	1,558.9	0.59	-0.55	
8,391.0	7.30	59.00	8,231.5	879.0	1,304.0	1,572.6	2.74	-2.72	
8,482.0	5.40	54.70	8,321.9	884.4	1,312.4	1,582.6	2.15	-2.09	
8,574.0	2.70	75.50	8,413.7	887.5	1,318.1	1,589.0	3.29	-2.93	
8,665.0	2.40	81.70	8,504.6	888.3	1,322.0	1,592.7	0.45	-0.33	
8,757.0	2.10	84.20	8,596.5	888.7	1,325.6	1,596.0	0.34	-0.33	
8,848.0	1.80	79.40	8,687.5	889.1	1,328.7	1,598.7	0.38	-0.33	
8,940.0	1.60	82.70	8,779.5	889.6	1,331.4	1,601.2	0.24	-0.22	
9,031.0	1.50	87.70	8,870.4	889.8	1,333.8	1,603.4	0.18	-0.11	
9,123.0	0.50	84.40	8,962.4	889.9	1,335.4	1,604.7	1.09	-1.09	
9,214.0	0.60	131.20	9,053.4	889.6	1,336.2	1,605.2	0.49	0.11	
9,306.0	0.50	132.10	9,145.4	889.0	1,336.8	1,605.4	0.11	-0.11	
9,397.0	1.00	178.90	9,236.4	888.0	1,337.2	1,605.1	0.83	0.55	
9,489.0	1.80	197.70	9,328.4	885.8	1,336.7	1,603.5	0.99	0.87	
9,581.0	0.60	247.70	9,420.3	884.2	1,335.8	1,601.9	1.62	-1.30	
9,672.0	0.50	301.20	9,511.3	884.2	1,335.1	1,601.3	0.55	-0.11	
9,764.0	0.90	252.40	9,603.3	884.2	1,334.0	1,600.4	0.74	0.43	
9,855.0	2.20	336.20	9,694.3	885.6	1,332.6	1,600.0	2.51	1.43	
9,949.0	2.00	332.70	9,788.2	888.7	1,331.2	1,600.6	0.25	-0.21	
10,041.0	2.00	329.80	9,880.2	891.5	1,329.6	1,600.8	0.11	0.00	
10,132.0	2.10	18.80	9,971.1	894.5	1,329.4	1,602.3	1.87	0.11	
10,224.0	1.90	301.80	10,063.1	896.9	1,328.6	1,603.0	2.71	-0.22	
10,316.0	0.90	232.50	10,155.1	897.2	1,326.7	1,601.6	1.95	-1.09	
10,407.0	0.40	147.80	10,246.1	896.5	1,326.3	1,600.9	1.04	-0.55	
10,498.0	1.80	77.60	10,337.1	896.6	1,327.9	1,602.2	1.88	1.54	
10,590.0	1.40	74.60	10,429.0	897.2	1,330.4	1,604.7	0.44	-0.43	
10,682.0	1.00	88.10	10,521.0	897.5	1,332.3	1,606.4	0.53	-0.43	
10,773.0	0.60	111.80	10,612.0	897.4	1,333.5	1,607.3	0.56	-0.44	
10,865.0	0.70	151.10	10,704.0	896.7	1,334.2	1,607.6	0.49	0.11	
10,956.0	0.80	176.20	10,795.0	895.6	1,334.6	1,607.2	0.37	0.11	
11,048.0	0.90	184.20	10,887.0	894.2	1,334.5	1,606.4	0.17	0.11	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8507B-25 (was 2C)
Project:	Story Gulch	TVD Reference:	KBE @ 8320.0ft (Patterson 306)
Site:	F25 496	MD Reference:	KBE @ 8320.0ft (Patterson 306)
Well:	SGU 8507B-25 (was 2C)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	EDM 5000.1 US Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
11,139.0	1.10	190.90	10,977.9	892.6	1,334.3	1,605.4	0.25	0.22	
11,231.0	1.30	50.70	11,069.9	892.4	1,335.0	1,605.8	2.45	0.22	
11,322.0	1.20	65.50	11,160.9	893.5	1,336.6	1,607.7	0.37	-0.11	
11,414.0	1.00	87.30	11,252.9	893.9	1,338.3	1,609.4	0.50	-0.22	
11,506.0	0.50	304.30	11,344.9	894.2	1,338.8	1,609.9	1.56	-0.54	
11,597.0	0.80	270.10	11,435.9	894.4	1,337.8	1,609.2	0.53	0.33	
11,689.0	0.90	243.00	11,527.9	894.1	1,336.5	1,608.0	0.45	0.11	
11,780.0	1.20	234.00	11,618.9	893.2	1,335.1	1,606.3	0.38	0.33	
11,872.0	1.50	220.90	11,710.8	891.7	1,333.6	1,604.2	0.47	0.33	
11,963.0	1.00	265.10	11,801.8	890.8	1,332.0	1,602.4	1.15	-0.55	
12,054.0	0.70	264.80	11,892.8	890.6	1,330.6	1,601.2	0.33	-0.33	
12,146.0	1.50	245.90	11,984.8	890.1	1,329.0	1,599.5	0.94	0.87	
12,238.0	1.50	243.00	12,076.8	889.1	1,326.8	1,597.1	0.08	0.00	
12,329.0	1.70	238.50	12,167.7	887.8	1,324.6	1,594.6	0.26	0.22	
12,421.0	2.10	235.90	12,259.7	886.2	1,322.0	1,591.5	0.44	0.43	
12,480.0	2.00	230.90	12,318.6	884.9	1,320.3	1,589.4	0.35	-0.17	Last Cathedral Survey @ 12,480' MD
12,530.0	2.00	230.90	12,368.6	883.8	1,319.0	1,587.7	0.00	0.00	Projection to Bit @ 12,530'

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
F25 496 SGU 8507B-25	0.00	0.00	12,285.0	886.1	1,314.5	1,682,008.31	2,264,102.99	39° 40' 36.58 N	108° 6' 53.30 W
- survey misses target center by 6.8ft at 12446.5ft MD (12285.2 TVD, 885.6 N, 1321.3 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
F25 496 SGU 8507B-25	0.00	0.00	8,625.0	896.1	1,331.5	1,682,017.82	2,264,120.32	39° 40' 36.68 N	108° 6' 53.08 W
- survey misses target center by 8.7ft at 8785.7ft MD (8625.2 TVD, 888.8 N, 1326.6 E)									
- Point									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,480.0	12,318.6	884.9	1,320.3	Last Cathedral Survey @ 12,480' MD
12,530.0	12,368.6	883.8	1,319.0	Projection to Bit @ 12,530'

Checked By: _____	Approved By: _____	Date: _____
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