

Well Details: SKR-598-08-BV-02

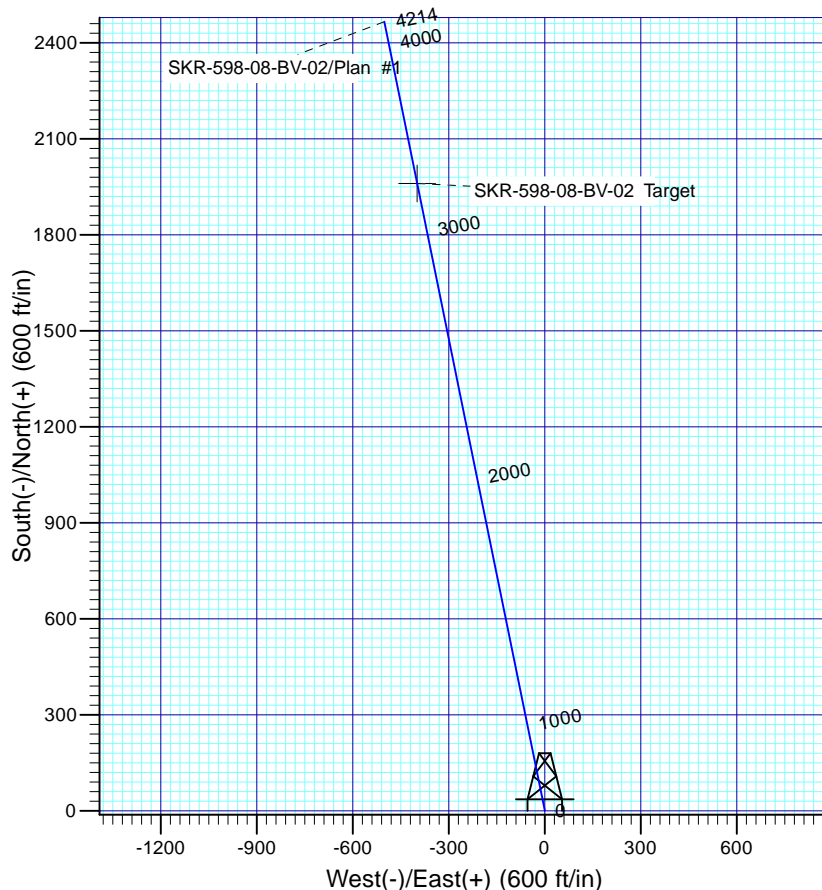
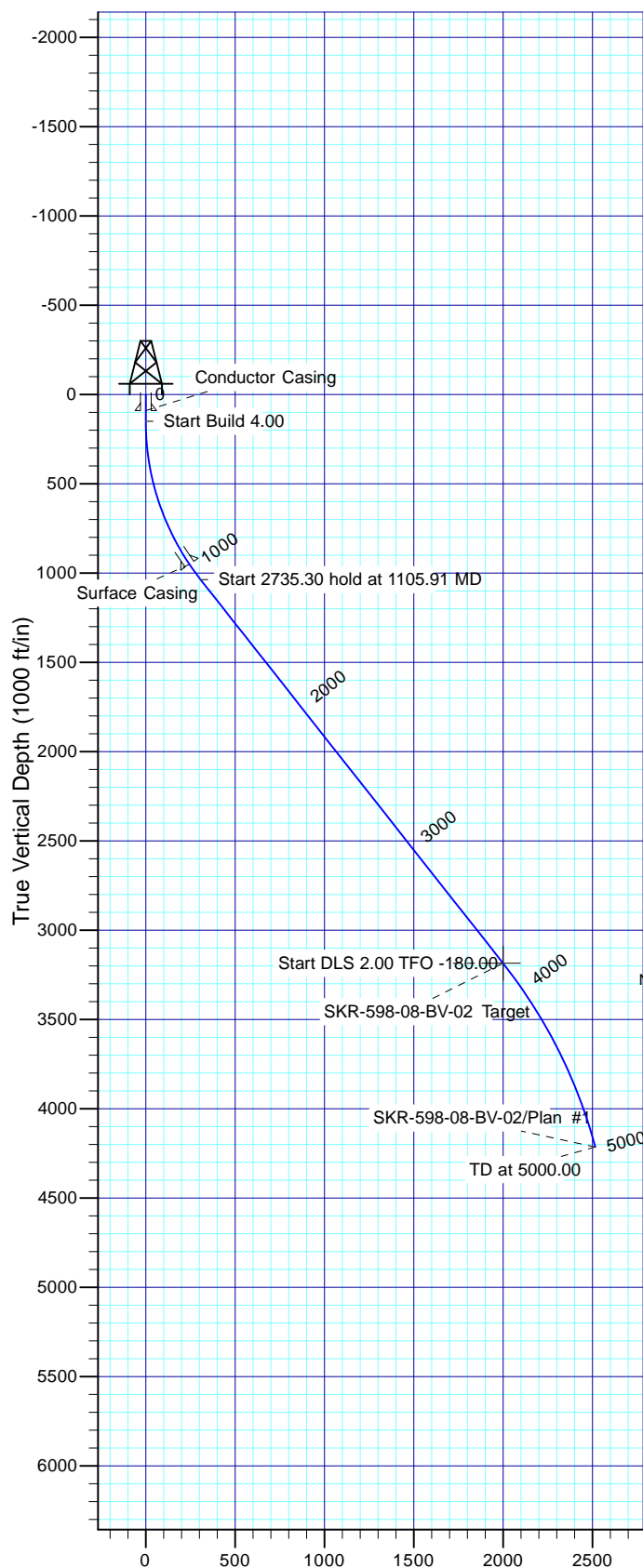
TVD Reference: GL 6549.60' & RKB 12.5' @ 6562.106 Ground Level: 6549.60

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1664497.53	2179227.28	39° 37' 18.113 N	108° 24' 51.038 W	



Azimuths to True North
Magnetic North: 10.28°

Magnetic Field
Strength: 52111.0snT
Dip Angle: 65.73°
Date: 5/2/2013
Model: IGRF200510



FORMATION TOP DETAILS

No formation data is available

Plan: Plan #1

17:11, May 02 2013
Created By: Janie Collins

PROJECT DETAILS: Garfield County, CO (NAD83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	
3	1105.91	38.24	348.49	1036.52	301.12	-61.30	4.00	348.49	307.30	
4	3841.21	38.24	348.49	3185.00	1960.00	-399.00	0.00	0.00	2000.20	SKR-598-08-BV-02 Target
5	5000.00	15.06	348.49	4213.65	2465.82	-501.98	2.00	-180.00	2516.40	



Chevron

Garfield County, CO (NAD83)

Skinner Ridge Field

SKR-598-08-BV-02

OH

Plan: Plan #1

Standard Planning Report

02 May, 2013





Database:	Grand Junction District	Local Co-ordinate Reference:	Well SKR-598-08-BV-02
Company:	Chevron	TVD Reference:	GL 6549.60' & RKB 12.5' @ 6562.10ft
Project:	Garfield County, CO (NAD83)	MD Reference:	GL 6549.60' & RKB 12.5' @ 6562.10ft
Site:	Skinner Ridge Field	North Reference:	True
Well:	SKR-598-08-BV-02	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Garfield County, CO (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Skinner Ridge Field			
Site Position:		Northing:	1,664,493.63 usft	Latitude:	39° 37' 18.075 N
From:	Lat/Long	Easting:	2,179,228.12 usft	Longitude:	108° 24' 51.026 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.84 °

Well	SKR-598-08-BV-02					
Well Position	+N/-S	3.86 ft	Northing:	1,664,497.52 usft	Latitude:	39° 37' 18.113 N
	+E/-W	-0.97 ft	Easting:	2,179,227.28 usft	Longitude:	108° 24' 51.038 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,549.60 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/2/2013	10.28	65.73	52,111

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	348.49

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	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,105.91	38.24	348.49	1,036.52	301.12	-61.30	4.00	4.00	0.00	348.49	
3,841.21	38.24	348.49	3,185.00	1,960.00	-399.00	0.00	0.00	0.00	0.00	SKR-598-08-BV-02 T&
5,000.00	15.06	348.49	4,213.65	2,465.82	-501.98	2.00	-2.00	0.00	-180.00	



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Company:	Chevron	TVD Reference:	GL 6549.60' & RKB 12.5' @ 6562.10ft
Project:	Garfield County, CO (NAD83)	MD Reference:	GL 6549.60' & RKB 12.5' @ 6562.10ft
Site:	Skinner Ridge Field	North Reference:	True
Well:	SKR-598-08-BV-02	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
90.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00
Conductor Casing									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2.00	348.49	199.99	0.86	-0.17	0.87	4.00	4.00	0.00
300.00	6.00	348.49	299.73	7.69	-1.57	7.85	4.00	4.00	0.00
400.00	10.00	348.49	398.73	21.32	-4.34	21.76	4.00	4.00	0.00
500.00	14.00	348.49	496.53	41.69	-8.49	42.55	4.00	4.00	0.00
600.00	18.00	348.49	592.63	68.70	-13.98	70.11	4.00	4.00	0.00
700.00	22.00	348.49	686.58	102.21	-20.81	104.30	4.00	4.00	0.00
800.00	26.00	348.49	777.92	142.05	-28.92	144.97	4.00	4.00	0.00
900.00	30.00	348.49	866.20	188.05	-38.28	191.90	4.00	4.00	0.00
1,000.00	34.00	348.49	950.98	239.96	-48.85	244.89	4.00	4.00	0.00
Surface Casing									
1,100.00	38.00	348.49	1,031.87	297.55	-60.57	303.65	4.00	4.00	0.00
1,105.91	38.24	348.49	1,036.52	301.12	-61.30	307.30	4.00	4.00	0.00
1,200.00	38.24	348.49	1,110.42	358.19	-72.92	365.53	0.00	0.00	0.00
1,300.00	38.24	348.49	1,188.97	418.83	-85.26	427.42	0.00	0.00	0.00
1,400.00	38.24	348.49	1,267.52	479.48	-97.61	489.31	0.00	0.00	0.00
1,500.00	38.24	348.49	1,346.06	540.13	-109.95	551.21	0.00	0.00	0.00
1,600.00	38.24	348.49	1,424.61	600.77	-122.30	613.10	0.00	0.00	0.00
1,700.00	38.24	348.49	1,503.16	661.42	-134.65	674.99	0.00	0.00	0.00
1,800.00	38.24	348.49	1,581.70	722.07	-146.99	736.88	0.00	0.00	0.00
1,900.00	38.24	348.49	1,660.25	782.72	-159.34	798.77	0.00	0.00	0.00
2,000.00	38.24	348.49	1,738.79	843.36	-171.68	860.66	0.00	0.00	0.00
2,100.00	38.24	348.49	1,817.34	904.01	-184.03	922.55	0.00	0.00	0.00
2,200.00	38.24	348.49	1,895.89	964.66	-196.38	984.44	0.00	0.00	0.00
2,300.00	38.24	348.49	1,974.43	1,025.30	-208.72	1,046.33	0.00	0.00	0.00
2,400.00	38.24	348.49	2,052.98	1,085.95	-221.07	1,108.22	0.00	0.00	0.00
2,500.00	38.24	348.49	2,131.53	1,146.60	-233.41	1,170.11	0.00	0.00	0.00
2,600.00	38.24	348.49	2,210.07	1,207.24	-245.76	1,232.00	0.00	0.00	0.00
2,700.00	38.24	348.49	2,288.62	1,267.89	-258.11	1,293.90	0.00	0.00	0.00
2,800.00	38.24	348.49	2,367.17	1,328.54	-270.45	1,355.79	0.00	0.00	0.00
2,900.00	38.24	348.49	2,445.71	1,389.18	-282.80	1,417.68	0.00	0.00	0.00
3,000.00	38.24	348.49	2,524.26	1,449.83	-295.14	1,479.57	0.00	0.00	0.00
3,100.00	38.24	348.49	2,602.80	1,510.48	-307.49	1,541.46	0.00	0.00	0.00
3,200.00	38.24	348.49	2,681.35	1,571.12	-319.84	1,603.35	0.00	0.00	0.00
3,300.00	38.24	348.49	2,759.90	1,631.77	-332.18	1,665.24	0.00	0.00	0.00
3,400.00	38.24	348.49	2,838.44	1,692.42	-344.53	1,727.13	0.00	0.00	0.00
3,500.00	38.24	348.49	2,916.99	1,753.07	-356.87	1,789.02	0.00	0.00	0.00
3,600.00	38.24	348.49	2,995.54	1,813.71	-369.22	1,850.91	0.00	0.00	0.00
3,700.00	38.24	348.49	3,074.08	1,874.36	-381.57	1,912.80	0.00	0.00	0.00
3,800.00	38.24	348.49	3,152.63	1,935.01	-393.91	1,974.69	0.00	0.00	0.00
3,841.21	38.24	348.49	3,185.00	1,960.00	-399.00	2,000.20	0.00	0.00	0.00
SKR-598-08-BV-02 Target									
3,900.00	37.06	348.49	3,231.55	1,995.19	-406.16	2,036.11	2.00	-2.00	0.00
4,000.00	35.06	348.49	3,312.38	2,052.86	-417.90	2,094.97	2.00	-2.00	0.00
4,100.00	33.06	348.49	3,395.22	2,107.74	-429.08	2,150.97	2.00	-2.00	0.00
4,200.00	31.06	348.49	3,479.97	2,159.76	-439.67	2,204.05	2.00	-2.00	0.00
4,300.00	29.06	348.49	3,566.51	2,208.84	-449.66	2,254.14	2.00	-2.00	0.00
4,400.00	27.06	348.49	3,654.75	2,254.93	-459.04	2,301.18	2.00	-2.00	0.00
4,500.00	25.06	348.49	3,744.58	2,297.98	-467.81	2,345.11	2.00	-2.00	0.00



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Site:	Skinner Ridge Field	North Reference:	True
Well:	SKR-598-08-BV-02	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
4,600.00	23.06	348.49	3,835.89	2,337.93	-475.94	2,385.88	2.00	-2.00	0.00
4,700.00	21.06	348.49	3,928.56	2,374.73	-483.43	2,423.44	2.00	-2.00	0.00
4,800.00	19.06	348.49	4,022.49	2,408.34	-490.28	2,457.73	2.00	-2.00	0.00
4,900.00	17.06	348.49	4,117.56	2,438.72	-496.46	2,488.74	2.00	-2.00	0.00
5,000.00	15.06	348.49	4,213.65	2,465.82	-501.98	2,516.40	2.00	-2.00	0.00

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									
SKR-598-08-BV-02 Targ	0.00	0.00	3,185.00	1,960.00	-399.00	1,666,469.31	2,178,891.34	39° 37' 37.484 N	108° 24' 56.138 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
90.00	90.00	Conductor Casing	16.000	16.000	
1,000.00	950.98	Surface Casing	8.625	12.250	