

Project Piceance
 Site SKR-698-09-BV
 Well SKR-698-09-BV-03
 Wellbore 698-9-50
 Plan Permit Plan

Chevron USA

SECTION DETAILS

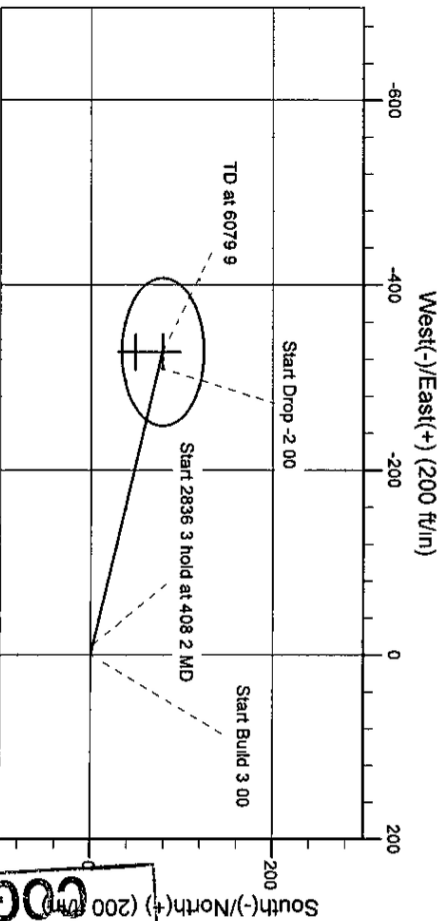
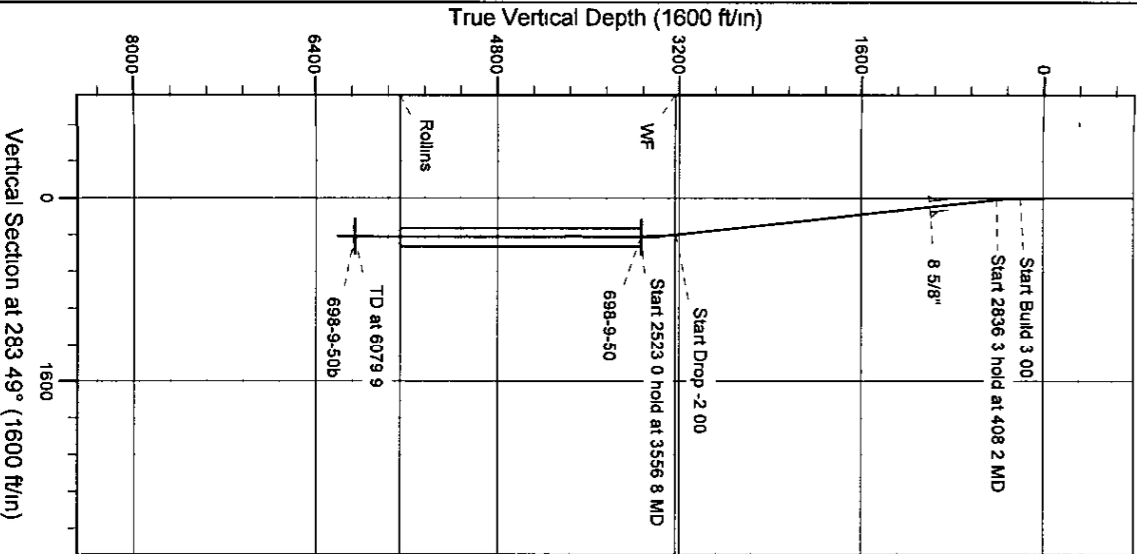
Sac	MD	Inc	Azi	TVD	+N/S	+E/W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	408.2	6.25	283.49	407.8	2.6	-11.0	3.00	283.49	11.3	
4	3244.5	6.25	283.49	3227.2	74.7	-311.1	0.00	0.00	320.0	
5	3556.8	0.00	0.00	3539.0	78.6	-327.7	2.00	180.00	337.0	
6	6079.9	0.00	0.00	6062.0	78.6	-327.7	0.00	0.00	337.0	698-9-50 698-9-50b

WELL DETAILS SKR-698-09-BV-03

+N/S 0.0 +E/W 0.0 Northing 1636121.87 Easting 2201472.48 Ground Level 5863.5 Latitude 39° 32' 44.760 N Longitude 108° 19' 55.586 W Slot 3

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
698-9-50	3539.0	78.6	-327.7	1636200.50	2201144.80	Ellipse (Radii L45 0 M80 0)
698-9-50b	6062.0	48.6	-327.7	1636170.50	2201144.76	Point



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HALLIBURTON**Plan Report for SKR-698-09-BV-03 - Permit Plan**

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)	Toolface Azimuth (°)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00	0 00
100 0	0 00	0 00	100 0	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 0	0 00	0 00	0 00	0 00
Start Build 3 00										
300 0	3 00	278 44	300 0	0 4	-2 6	2 6	3 00	3 00	0 00	278 44
400 0	6 00	278 44	399 6	1 5	-10 3	10 5	3 00	3 00	0 00	0 00
404 4	6 13	278 44	404 0	1 6	-10 8	10 9	3 00	3 00	0 00	0 00
Start 2846 3 hold at 404 4 MD										
500 0	6 13	278 44	499 1	3 1	-20 9	21 1	0 00	0 00	0 00	0 00
600 0	6 13	278 44	598 5	4 7	-31 5	31 8	0 00	0 00	0 00	0 00
700 0	6 13	278 44	697 9	6 2	-42 0	42 5	0 00	0 00	0 00	0 00
800 0	6 13	278 44	797 3	7 8	-52 6	53 2	0 00	0 00	0 00	0 00
900 0	6 13	278 44	896 8	9 4	-63 2	63 9	0 00	0 00	0 00	0 00
1,000 0	6 13	278 44	996 2	10 9	-73 7	74 5	0 00	0 00	0 00	0 00
8 5/8"										
1,100 0	6 13	278 44	1,095 6	12 5	-84 3	85 2	0 00	0 00	0 00	0 00
1,200 0	6 13	278 44	1,195 1	14 1	-94 9	95 9	0 00	0 00	0 00	0 00
1,300 0	6 13	278 44	1,294 5	15 6	-105 4	106 6	0 00	0 00	0 00	0 00
1,400 0	6 13	278 44	1,393 9	17 2	-116 0	117 3	0 00	0 00	0 00	0 00
1,500 0	6 13	278 44	1,493 3	18 8	-126 6	127 9	0 00	0 00	0 00	0 00
1,600 0	6 13	278 44	1,592 8	20 3	-137 1	138 6	0 00	0 00	0 00	0 00
1,700 0	6 13	278 44	1,692 2	21 9	-147 7	149 3	0 00	0 00	0 00	0 00
1,800 0	6 13	278 44	1,791 6	23 5	-158 2	160 0	0 00	0 00	0 00	0 00
1,900 0	6 13	278 44	1,891 1	25 1	-168 8	170 7	0 00	0 00	0 00	0 00
2,000 0	6 13	278 44	1,990 5	26 6	-179 4	181 3	0 00	0 00	0 00	0 00
2,100 0	6 13	278 44	2,089 9	28 2	-189 9	192 0	0 00	0 00	0 00	0 00
2,200 0	6 13	278 44	2,189 3	29 8	-200 5	202 7	0 00	0 00	0 00	0 00
2,300 0	6 13	278 44	2,288 8	31 3	-211 1	213 4	0 00	0 00	0 00	0 00
2,400 0	6 13	278 44	2,388 2	32 9	-221 6	224 1	0 00	0 00	0 00	0 00
2,500 0	6 13	278 44	2,487 6	34 5	-232 2	234 7	0 00	0 00	0 00	0 00
2,600 0	6 13	278 44	2,587 1	36 0	-242 8	245 4	0 00	0 00	0 00	0 00
2,700 0	6 13	278 44	2,686 5	37 6	-253 3	256 1	0 00	0 00	0 00	0 00
2,800 0	6 13	278 44	2,785 9	39 2	-263 9	266 8	0 00	0 00	0 00	0 00
2,900 0	6 13	278 44	2,885 3	40 7	-274 5	277 5	0 00	0 00	0 00	0 00
3,000 0	6 13	278 44	2,984 8	42 3	-285 0	288 1	0 00	0 00	0 00	0 00
3,100 0	6 13	278 44	3,084 2	43 9	-295 6	298 8	0 00	0 00	0 00	0 00
3,200 0	6 13	278 44	3,183 6	45 4	-306 2	309 5	0 00	0 00	0 00	0 00
3,250 7	6 13	278 44	3,234 0	46 2	-311 5	314 9	0 00	0 00	0 00	0 00
Start Drop -2 00										
3,256 2	6 02	278 44	3,239 5	46 3	-312 1	315 5	2 00	-2 00	0 00	180 00
WF										
3,300 0	5 15	278 44	3,283 1	46 9	-316 3	319 8	2 00	-2 00	0 00	-180 00
3,400 0	3 15	278 44	3,382 8	48 0	-323 5	327 0	2 00	-2 00	0 00	180 00
3,500 0	1 15	278 44	3,482 7	48 5	-327 2	330 7	2 00	-2 00	0 00	180 00
3,557 3	0 00	0 00	3,540 0	48 6	-327 7	331 3	2 00	-2 00	0 00	180 00
Start 2622 0 hold at 3557 3 MD - 698-9-50										
3,600 0	0 00	0 00	3,582 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
3,700 0	0 00	0 00	3,682 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
3,800 0	0 00	0 00	3,782 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
3,900 0	0 00	0 00	3,882 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,000 0	0 00	0 00	3,982 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,100 0	0 00	0 00	4,082 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,200 0	0 00	0 00	4,182 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,300 0	0 00	0 00	4,282 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,400 0	0 00	0 00	4,382 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,500 0	0 00	0 00	4,482 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,600 0	0 00	0 00	4,582 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00
4,700 0	0 00	0 00	4,682 7	48 6	-327 7	331 3	0 00	0 00	0 00	0 00

Plan Report for SKR-698-09-BV-03 - Permit Plan

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)	Toolface Azimuth (°)
4,800.0	0.00	0.00	4,782.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
4,900.0	0.00	0.00	4,882.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,000.0	0.00	0.00	4,982.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,100.0	0.00	0.00	5,082.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,200.0	0.00	0.00	5,182.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,300.0	0.00	0.00	5,282.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,400.0	0.00	0.00	5,382.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,500.0	0.00	0.00	5,482.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,600.0	0.00	0.00	5,582.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,678.7	0.00	0.00	5,661.5	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
Rollins										
5,700.0	0.00	0.00	5,682.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,800.0	0.00	0.00	5,782.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
5,900.0	0.00	0.00	5,882.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
6,000.0	0.00	0.00	5,982.7	48.6	-327.7	331.3	0.00	0.00	0.00	0.00
6,079.3	0.00	0.00	6,062.0	48.6	-327.7	331.3	0.00	0.00	0.00	0.00

TD at 6079.3 - 698-9-50b

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	Start Build 3.00
404.4	404.0	1.6	-10.8	Start 2846.3 hold at 404.4 MD
3,250.7	3,234.0	46.2	-311.5	Start Drop -2.00
3,557.3	3,540.0	48.6	-327.7	Start 2522.0 hold at 3557.3 MD
6,079.3	6,062.0	48.6	-327.7	TD at 6079.3

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	698-9-50	278.44	Slot	0.0	0.0	0.0

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.0	6,079.3	Permit Plan	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,000.0	996.2	8 5/8"	8-5/8	12-1/4

HALLIBURTON**Plan Report for SKR-698-09-BV-03 - Permit Plan****Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,256.2	3,239.5	WF		0.00	
5,678.7	5,661.5	Rollins		0.00	

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
698-9-50	3,540.0	48.6	-327.7	Ellipse
698-9-50b	6,062.0	48.6	-327.7	Point

HALLIBURTON**North Reference Sheet for SKR-698-09-BV - SKR-698-09-BV-03 - 698-9-50**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RFE @ 5888.5 ft (Original Well Elev). Northing and Easting are relative to SKR-698-09-BV-03 - Slot Slot 3.

Coordinate System is US State Plane 1983, Colorado Central Zone using datum North American Datum 1983, ellipsoid GRS 1980.

Projection method is Lambert Conformal Conic (2 parallel).

Central Meridian is -105° 50', Longitude Origin 0° 0' 0.000 E°, Latitude Origin 39° 45' 0.000 N°.

False Easting 3,000,000.00 ft, False Northing 1,000,000.00 ft, Scale Reduction 0.99998598.

Grid Coordinates of Well: 1,636,121.87 ft N, 2,201,472.48 ft E.

Geographical Coordinates of Well: 39° 32' 44.76" N, 108° 19' 55.59" W.

Grid Convergence at Surface is -1.79°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 6,079.26 ft.

the Bottom Hole Displacement is 331.31 ft in the Direction of 278.44° (Grid).

Magnetic Convergence at surface is -12.70° (10 July 2008, BGGM2007).

