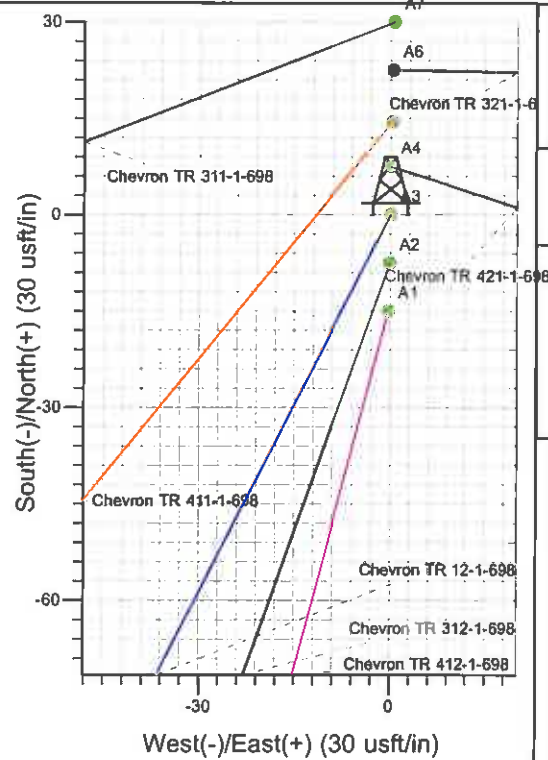
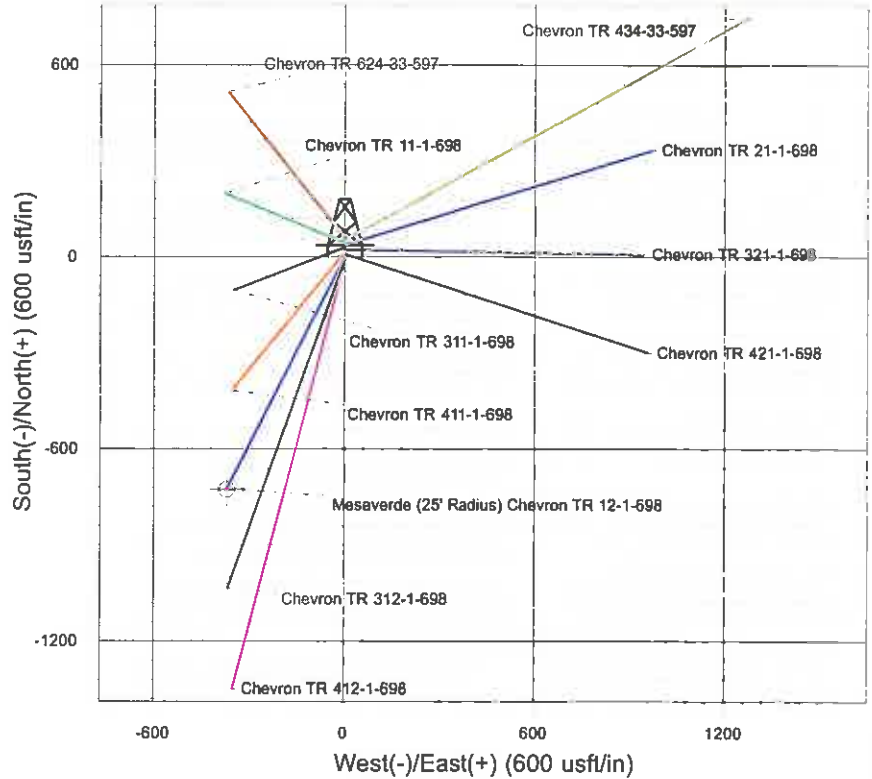
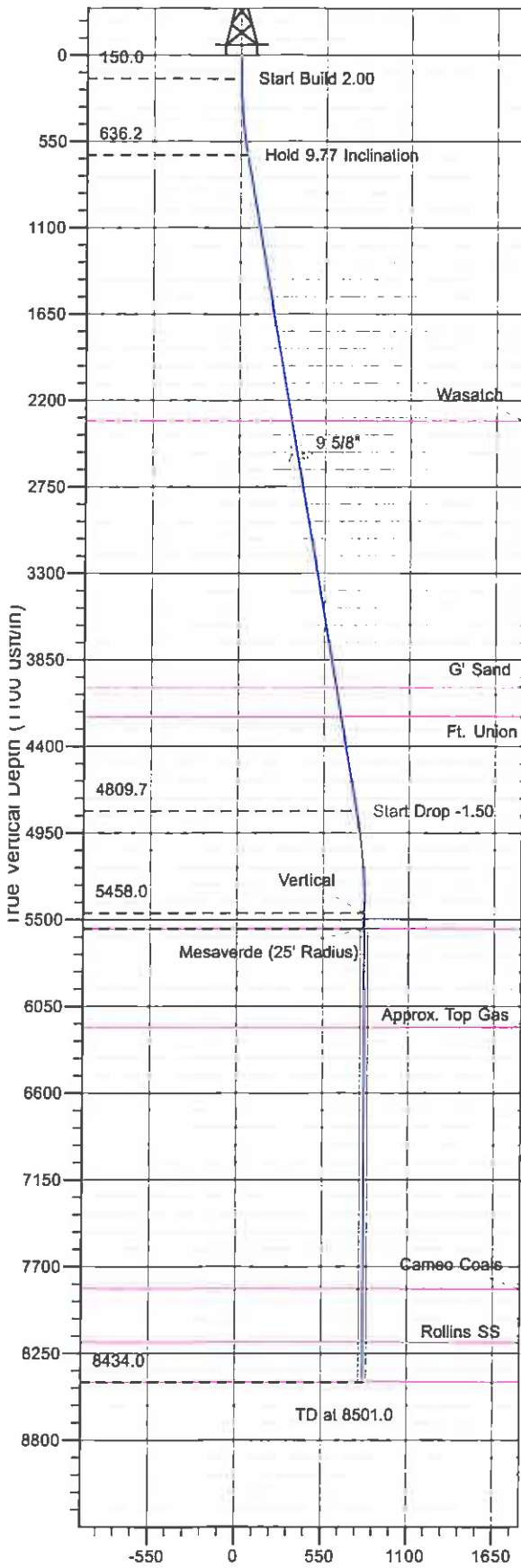




Surface Location: Chevron TR 11-1-698 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 8284.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1641454.07 2214880.27 39° 33' 41.531 N 108° 17' 6.590 W A3
 KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)



Project: TR 01-06S-098W
 Site: Chevron TR 11-1-698 Pad
 Well: Chevron TR 12-1-698
 Design #1 19May11 kjs

Azimuths to True North
 Magnetic North: 10.50°
 Magnetic Field
 Strength: 52236.5snT
 Dip Angle: 65.74°
 Date: 5/19/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
150.0	150.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.00
636.2	638.6	9.77	207.03	-37.0	-18.9	41.6	41.6	Hold 9.77 Inclination
4809.7	4873.5	9.77	207.03	-677.3	-345.5	760.3	760.3	Start Drop -1.50
5458.0	5525.0	0.00	0.00	-726.7	-370.7	815.8	815.8	Vertical
5558.0	5625.0	0.00	0.00	-726.7	-370.7	815.8	815.8	Mesaverde
8434.0	8501.0	0.00	0.00	-726.7	-370.7	815.8	815.8	TD at 8501.0

PICEANCE HL NAD 83

TR 01-06S-098W

Chevron TR 11-1-698 Pad

Chevron TR 12-1-698 - Slot A3

Wellbore #1

Plan: Design #1 19May11 kjs

Standard Planning Report - Geographic

16 June, 2011

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Chevron TR 12-1-698 - Slot A3
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)
Project:	TR 01-06S-098W	MD Reference:	KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)
Site:	Chevron TR 11-1-698 Pad	North Reference:	True
Well:	Chevron TR 12-1-698	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 19May11 kjs		

Project	TR 01-06S-098W, Garfield County, CO, TR 01-06S-098W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	Chevron TR 11-1-698 Pad		
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Site Position:		Northing:	1,641,468.60 usft	Latitude:	39° 33' 41.675 N
From:	Map	Easting:	2,214,881.00 usft	Longitude:	108° 17' 6.587 W
Position Uncertainty:	0.0 usft	Slot Radius:	0.000 in	Grid Convergence:	-1.757 °

Well	Chevron TR 12-1-698 - Slot A3				
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Well Position	+N/-S	0.0 usft	Northing:	1,641,454.07 usft	Latitude:	39° 33' 41.531 N
	+E/-W	0.0 usft	Easting:	2,214,880.27 usft	Longitude:	108° 17' 6.590 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	8,284.0 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/19/2011	10.498	65.741	52,236

Design	Design #1 19May11 kjs				
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Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	207.03	

Plan Sections										
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.000	
150.0	0.00	0.00	150.0	0.0	0.0	0.00	0.00	0.00	0.000	
638.6	9.77	207.03	636.2	-37.0	-18.9	2.00	2.00	0.00	207.026	
4,873.5	9.77	207.03	4,809.7	-677.3	-345.5	0.00	0.00	0.00	0.000	
5,525.0	0.00	0.00	5,458.0	-726.7	-370.7	1.50	-1.50	0.00	180.000	
5,625.0	0.00	0.00	5,558.0	-726.7	-370.7	0.00	0.00	0.00	0.000	Mesaverde (25' Radii
8,501.0	0.00	0.00	8,434.0	-726.7	-370.7	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Chevron TR 12-1-698 - Slot A3
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)
Project:	TR 01-06S-098W	MD Reference:	KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)
Site:	Chevron TR 11-1-698 Pad	North Reference:	True
Well:	Chevron TR 12-1-698	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 19May11 kjs		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,641,454.07	2,214,880.27	39° 33' 41.531 N	108° 17' 6.590 W
150.0	0.00	0.00	150.0	0.0	0.0	1,641,454.07	2,214,880.27	39° 33' 41.531 N	108° 17' 6.590 W
Start Build 2.00									
638.6	9.77	207.03	636.2	-37.0	-18.9	1,641,417.64	2,214,860.26	39° 33' 41.165 N	108° 17' 6.831 W
Hold 9.77 Inclination									
2,359.3	9.77	207.03	2,332.0	-297.2	-151.6	1,641,161.67	2,214,719.64	39° 33' 38.594 N	108° 17' 8.526 W
Wasatch									
2,609.0	9.77	207.03	2,578.0	-334.9	-170.8	1,641,124.53	2,214,699.24	39° 33' 38.221 N	108° 17' 8.772 W
9 5/8"									
4,079.3	9.77	207.03	4,027.0	-557.2	-284.2	1,640,905.81	2,214,579.09	39° 33' 36.024 N	108° 17' 10.219 W
G' Sand									
4,270.1	9.77	207.03	4,215.0	-586.1	-299.0	1,640,877.44	2,214,563.50	39° 33' 35.739 N	108° 17' 10.407 W
Ft. Union									
4,873.5	9.77	207.03	4,809.7	-677.3	-345.5	1,640,787.67	2,214,514.18	39° 33' 34.837 N	108° 17' 11.002 W
Start Drop -1.50									
5,525.0	0.00	0.00	5,458.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W
Vertical									
5,625.0	0.00	0.00	5,558.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W
Mesaverde - Mesaverde									
6,252.0	0.00	0.00	6,185.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W
Approx. Top Gas									
7,911.0	0.00	0.00	7,844.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W
Cameo Coals									
8,251.0	0.00	0.00	8,184.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W
Rollins SS									
8,501.0	0.00	0.00	8,434.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W
TD at 8501.0 - TD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Mesaverde (25' Radius) - plan hits target center - Circle (radius 25.0)	0.00	0.00	5,558.0	-726.7	-370.7	1,640,739.10	2,214,487.50	39° 33' 34.349 N	108° 17' 11.323 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,609.0	2,578.0	9 5/8"	9.625	12.250

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Chevron TR 12-1-698 - Slot A3
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)
Project:	TR 01-06S-098W	MD Reference:	KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)
Site:	Chevron TR 11-1-698 Pad	North Reference:	True
Well:	Chevron TR 12-1-698	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 19May11 kjs		

Formations:						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,359.3	2,332.0	Wasatch				
4,079.3	4,027.0	G' Sand				
4,270.1	4,215.0	Fl. Union				
5,625.0	5,558.0	Mesaverde				
6,252.0	6,185.0	Approx. Top Gas				
7,911.0	7,844.0	Cameo Coals				
8,251.0	8,184.0	Rollins SS				
8,501.0	8,434.0	TD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
150.0	150.0	0.0	0.0	Start Build 2.00
638.6	636.2	-37.0	-18.9	Hold 9.77 Inclination
4,873.5	4,809.7	-677.3	-345.5	Start Drop -1.50
5,525.0	5,458.0	-726.7	-370.7	Vertical
5,625.0	5,558.0	-726.7	-370.7	Mesaverde
8,501.0	8,434.0	-726.7	-370.7	TD at 8501.0