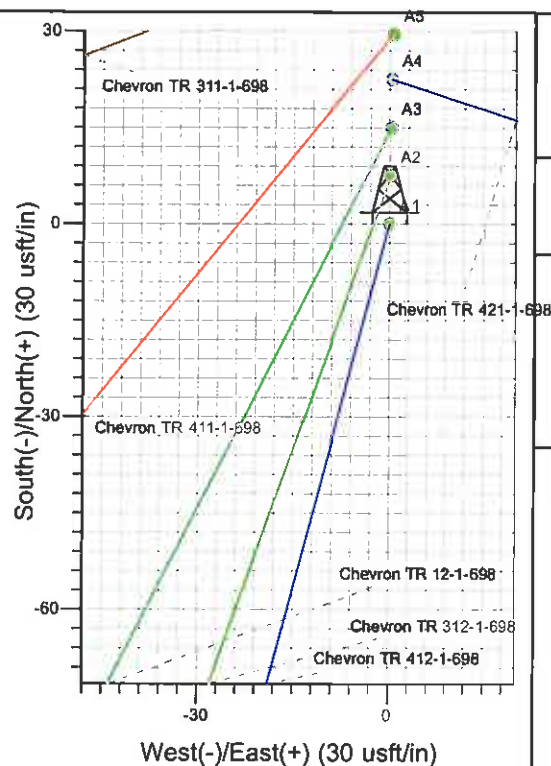
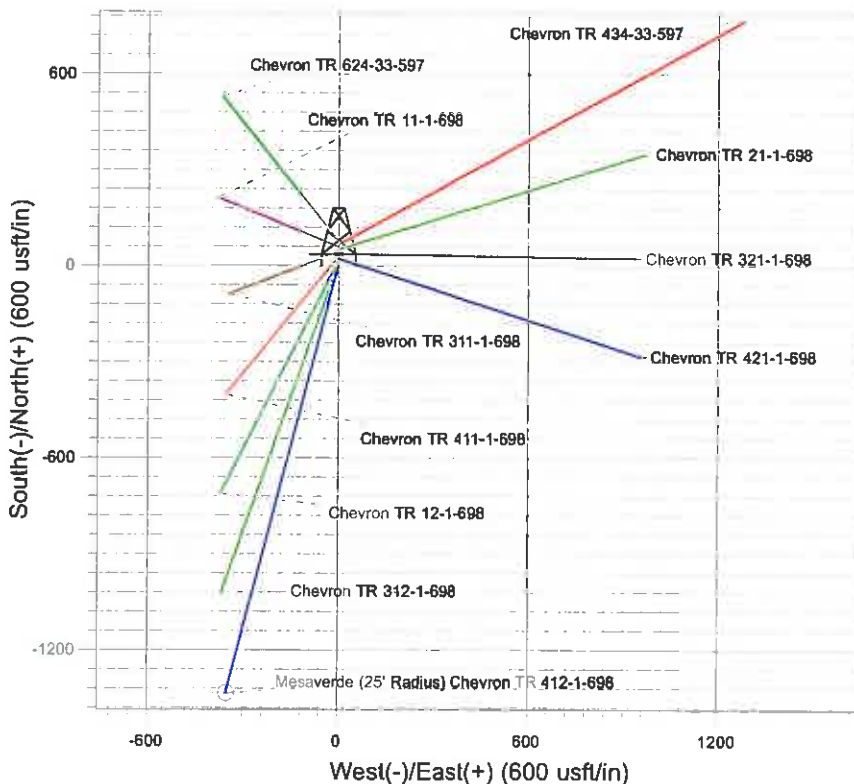
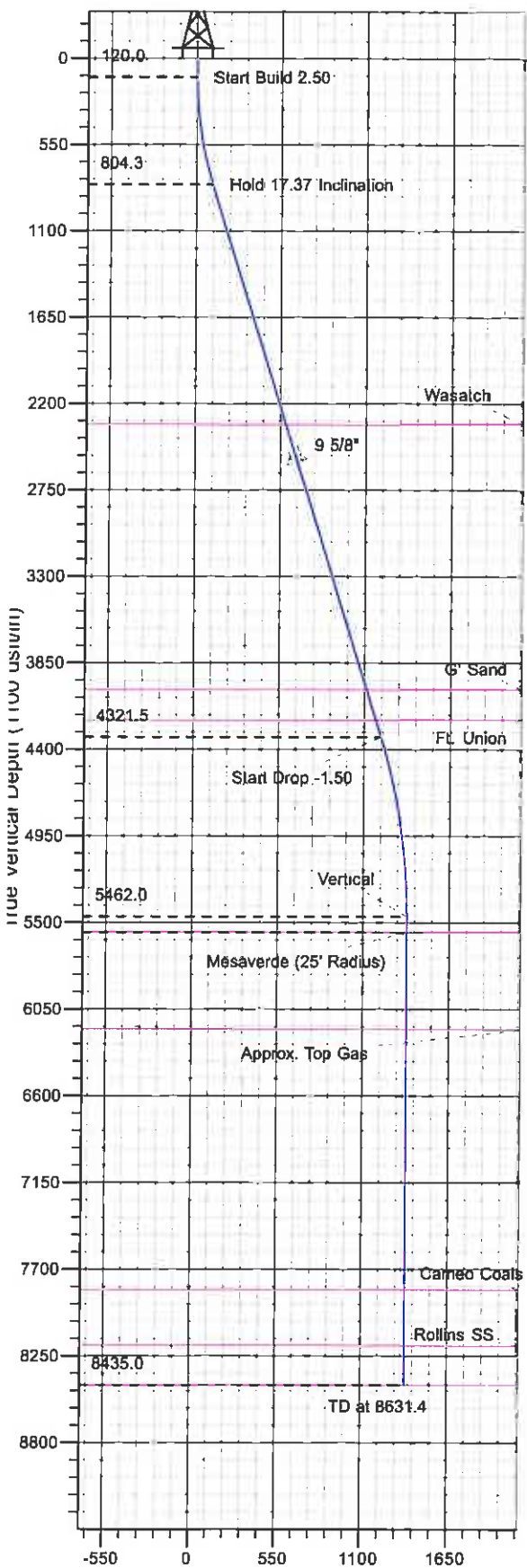




Surface Location: Chevron TR 11-1-698 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 8284.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1641439.09 2214879.51 39° 33' 41.383 N 108° 17' 6.594 W A1
 KELLY BUSHING @ 8308.0usft (H&P 278 (24' RKB) kjs)

TR 412-1-698



Project: TR 01-06S-098W
 Site: Chevron TR 11-1-698 Pad
 Well: Chevron TR 412-1-698
 Design #1 19May11 kjs

Azimuths to True North
 Magnetic North: 10.50°
 Magnetic Field
 Strength: 52236.4nT
 Dip Angle: 65.74°
 Date: 5/19/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.50
804.3	814.9	17.37	194.76	-101.1	-26.6	104.5	104.5	Hold 17.37 Inclination
4321.5	4500.2	17.37	194.76	-1165.2	-306.9	1204.9	1204.9	Start Drop -1.50
5462.0	5658.4	0.00	0.00	-1333.7	-351.3	1379.2	1379.2	Vertical
5562.0	5758.4	0.00	0.00	-1333.7	-351.3	1379.2	1379.2	Mesaverde
8435.0	8631.4	0.00	0.00	-1333.7	-351.3	1379.2	1379.2	TD at 8631.4

PICEANCE HL NAD 83

TR 01-06S-098W

Chevron TR 11-1-698 Pad

Chevron TR 412-1-698 - Slot A1

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 412-1-698 - Slot A1
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 412-1-698	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 412-1-698 - Slot A1				
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Well Position	+N/-S	0.0 usft	Northing:	1,641,439.08 usft	Latitude:	39° 33' 41.383 N
	+E/-W	0.0 usft	Easting:	2,214,879.51 usft	Longitude:	108° 17' 6.594 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	194.76

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	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.000	
814.9	17.37	194.76	804.3	-101.1	-26.6	2.50	2.50	0.00	194.757	
4,500.2	17.37	194.76	4,321.5	-1,165.2	-306.9	0.00	0.00	0.00	0.000	
5,658.4	0.00	0.00	5,462.0	-1,333.7	-351.3	1.50	-1.50	0.00	180.000	
5,758.4	0.00	0.00	5,562.0	-1,333.7	-351.3	0.00	0.00	0.00	0.000	Mesaverde (25' Radiu
8,631.4	0.00	0.00	8,435.0	-1,333.7	-351.3	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Chevron TR 412-1-698 - Slot A1
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 412-1-698	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	1,641,439.08	2,214,879.51	39° 33' 41.383 N	108° 17' 6.594 W
120.0	0.00	0.00	120.0	0.0	0.0	1,641,439.08	2,214,879.51	39° 33' 41.383 N	108° 17' 6.594 W
Start Build 2.50									
814.9	17.37	194.76	804.3	-101.1	-26.6	1,641,338.85	2,214,849.80	39° 33' 40.384 N	108° 17' 6.934 W
Hold 17.37 Inclination									
2,417.7	17.37	194.76	2,334.0	-563.9	-148.5	1,640,880.01	2,214,713.77	39° 33' 35.810 N	108° 17' 8.491 W
Wasatch									
2,668.0	17.37	194.76	2,572.9	-636.2	-167.6	1,640,808.36	2,214,692.52	39° 33' 35.095 N	108° 17' 8.734 W
9 5/8"									
4,186.4	17.37	194.76	4,022.0	-1,074.6	-283.0	1,640,373.69	2,214,563.66	39° 33' 30.762 N	108° 17' 10.208 W
G' Sand									
4,388.6	17.37	194.76	4,215.0	-1,133.0	-298.4	1,640,315.80	2,214,546.50	39° 33' 30.185 N	108° 17' 10.404 W
Ft. Union									
4,500.2	17.37	194.76	4,321.5	-1,165.2	-306.9	1,640,283.86	2,214,537.03	39° 33' 29.867 N	108° 17' 10.513 W
Start Drop -1.50									
5,658.4	0.00	0.00	5,462.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
Vertical									
5,758.4	0.00	0.00	5,562.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
Mesaverde - Mesaverde									
6,376.4	0.00	0.00	6,180.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
Approx. Top Gas									
8,027.4	0.00	0.00	7,831.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
Cameo Coals									
8,381.4	0.00	0.00	8,185.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
Rollins SS									
8,631.4	0.00	0.00	8,435.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
TD at 8631.4									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Mesaverde (25' Radius)	0.00	0.00	5,562.0	-1,333.7	-351.3	1,640,116.80	2,214,487.50	39° 33' 28.201 N	108° 17' 11.079 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,668.0	2,572.9	9 5/8"	9.625	12.250

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Chevron TR 412-1-698 - Slot A1
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 412-1-698	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 (")
2,417.7	2,334.0	Wasatch			
4,186.4	4,022.0	G' Sand			
4,388.6	4,215.0	Ft. Union			
5,758.4	5,562.0	Mesaverde			
6,376.4	6,180.0	Approx. Top Gas			
8,027.4	7,831.0	Carneo Coals			
8,381.4	8,185.0	Rollins SS			

Plan Annotations:

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.0	120.0	0.0	0.0	Start Build 2.50
814.9	804.3	-101.1	-26.6	Hold 17.37 Inclination
4,500.2	4,321.5	-1,165.2	-306.9	Start Drop -1.50
5,658.4	5,462.0	-1,333.7	-351.3	Vertical
5,758.4	5,562.0	-1,333.7	-351.3	Mesaverde
8,631.4	8,435.0	-1,333.7	-351.3	TD at 8631.4