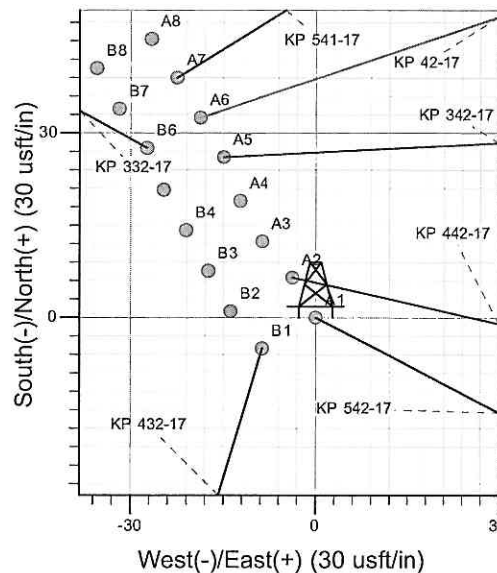
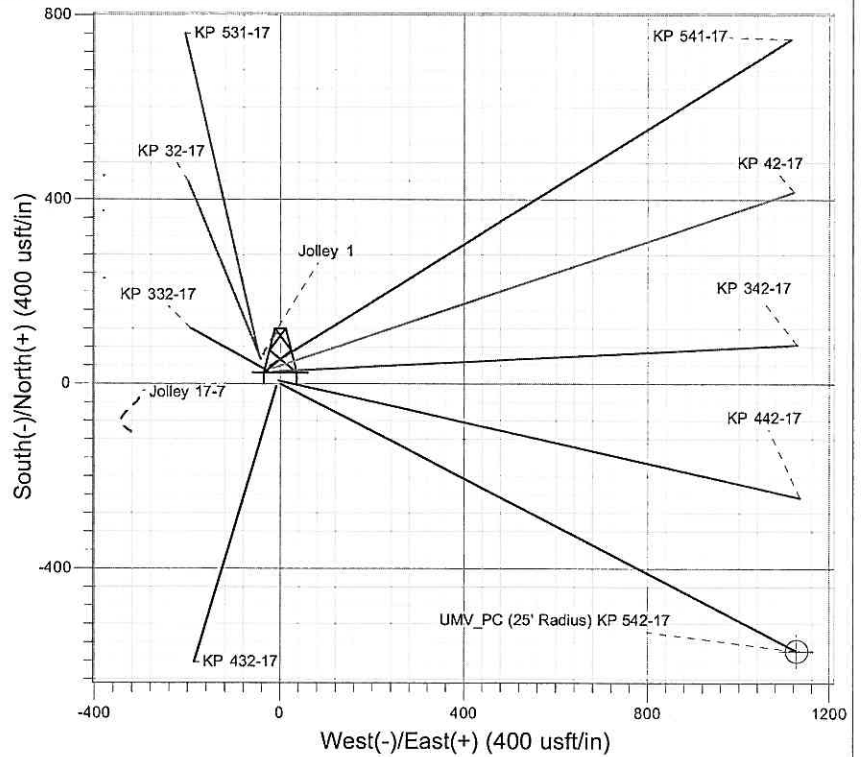
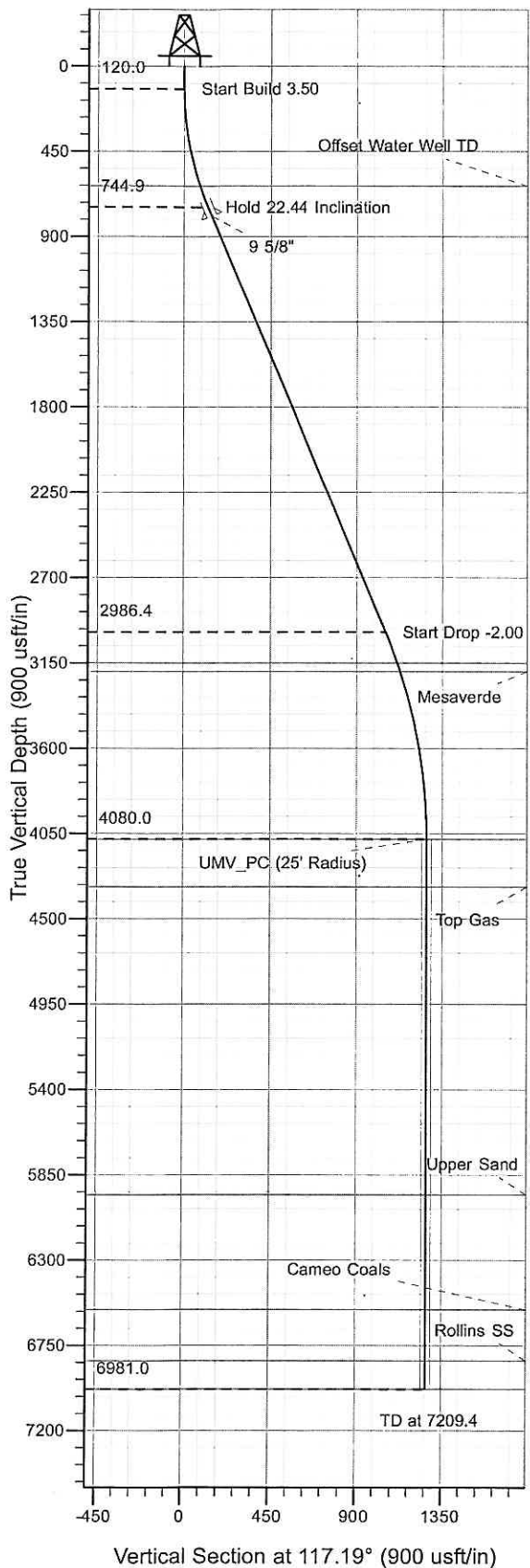




Well Name: KP 542-17
 Surface Location: KP 32-17 Pad
 North American Datum 1983, US State Plane 1983, Colorado Central Zone
 Ground Elevation: 6171.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1624587.60 2414623.50 39° 31' 47.697 N 107° 34' 31.833 W A1
 KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)



Project: Sec. 17-06S-091W
 Site: KP 32-17 Pad
 Well: KP 542-17
 Design #1 12Mar10 kjs

Azimuths to True North
 Magnetic North: 10.33°
 Magnetic Field
 Strength: 52449.7nT
 Dip Angle: 65.88°
 Date: 3/12/2010
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.50
744.9	761.2	22.44	117.19	-56.6	110.3	124.0	124.0	Hold 22.44 Inclination
2986.4	3186.4	22.44	117.19	-479.6	933.7	1049.7	1049.7	Start Drop -2.00
4080.0	4308.4	0.00	0.00	-578.7	1126.7	1266.6	1266.6	UMV_PC
6981.0	7209.4	0.00	0.00	-578.7	1126.7	1266.6	1266.6	TD at 7209.4

KOKOPELLI FIELD

Sec. 17-06S-091W

KP 32-17 Pad

KP 542-17 - Slot A1

Wellbore #1

Plan: Design #1 12Mar10 kjs

Standard Planning Report - Geographic

30 April, 2010

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 542-17 - Slot A1
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)
Project:	Sec. 17-06S-091W	MD Reference:	KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)
Site:	KP 32-17 Pad	North Reference:	True
Well:	KP 542-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 12Mar10 kjs		

Project	Sec. 17-06S-091W, Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		KP 32-17 Pad			
Site Position:		Northing:	1,624,653.50 usft	Latitude:	39° 31' 48.340 N
From:	Map	Easting:	2,414,587.60 usft	Longitude:	107° 34' 32.310 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.309 °

Well	KP 542-17 - Slot A1					
Well Position	+N/-S	0.0 usft	Northing:	1,624,587.60 usft	Latitude:	39° 31' 47.697 N
	+E/-W	0.0 usft	Easting:	2,414,623.50 usft	Longitude:	107° 34' 31.833 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,171.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/12/2010	10.329	65.880	52,450

Design	Design #1 12Mar10 kjs			
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	117.19

Plan Sections										
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	
761.2	22.44	117.19	744.9	-56.6	110.3	3.50	3.50	0.00	117.186	
3,186.4	22.44	117.19	2,986.4	-479.6	933.7	0.00	0.00	0.00	0.000	
4,308.4	0.00	0.00	4,080.0	-578.7	1,126.7	2.00	-2.00	0.00	180.000	UMV_PC (25' Radius)
7,209.4	0.00	0.00	6,981.0	-578.7	1,126.7	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database: Compass R5000 WIN AUTH
Company: KOKOPELLI FIELD

Project: Sec. 17-06S-091W

Site: KP 32-17 Pad
Well: KP 542-17
Wellbore: Wellbore #1
Design: Design #1 12Mar10 kjs

Local Co-ordinate Reference: Well KP 542-17 - Slot A1
TVD Reference: KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)
MD Reference: KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	1,624,587.60	2,414,623.50	39° 31' 47.697 N	107° 34' 31.833 W
120.0	0.00	0.00	120.0	0.0	0.0	1,624,587.60	2,414,623.50	39° 31' 47.697 N	107° 34' 31.833 W
Start Build 3.50									
642.8	18.30	117.19	634.0	-37.8	73.6	1,624,548.10	2,414,696.26	39° 31' 47.324 N	107° 34' 30.893 W
Offset Water Well TD									
761.2	22.44	117.19	744.9	-56.6	110.3	1,624,528.46	2,414,732.45	39° 31' 47.138 N	107° 34' 30.426 W
Hold 22.44 Inclination									
811.0	22.44	117.19	791.0	-65.3	127.2	1,624,519.38	2,414,749.17	39° 31' 47.052 N	107° 34' 30.210 W
9 5/8"									
3,186.4	22.44	117.19	2,986.4	-479.6	933.7	1,624,086.79	2,415,546.05	39° 31' 42.957 N	107° 34' 19.916 W
Start Drop -2.00									
3,408.7	17.99	117.19	3,195.0	-514.7	1,002.1	1,624,050.15	2,415,613.55	39° 31' 42.610 N	107° 34' 19.044 W
Mesaverde									
4,308.4	0.00	0.00	4,080.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W
UMV_PC - UMV_PC									
4,559.4	0.00	0.00	4,331.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W
Approx. Top Gas									
6,183.4	0.00	0.00	5,955.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W
Upper Sand									
6,790.4	0.00	0.00	6,562.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W
Cameo Coals									
7,059.4	0.00	0.00	6,831.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W
Rollins SS									
7,209.4	0.00	0.00	6,981.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W
TD at 7209.4 - 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
UMV_PC (25' Radius) K - plan hits target center - Circle (radius 25.0)	0.00	0.00	4,080.0	-578.7	1,126.7	1,623,983.30	2,415,736.70	39° 31' 41.977 N	107° 34' 17.453 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
811.0	791.0	9 5/8"	9.625	12.250

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 542-17 - Slot A1
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)
Project:	Sec. 17-06S-091W	MD Reference:	KELLY BUSHING @ 6194.0usft (Cyclone 30 23'KB JMS)
Site:	KP 32-17 Pad	North Reference:	True
Well:	KP 542-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 12Mar10 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Direction (°)	
642.8	634.0	Offset Water Well TD				
3,408.7	3,195.0	Mesaverde				
4,308.4	4,080.0	UMV_PC				
4,559.4	4,331.0	Approx. Top Gas				
6,183.4	5,955.0	Upper Sand				
6,790.4	6,562.0	Cameo Coals				
7,059.4	6,831.0	Rollins SS				
7,209.4	6,981.0	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.0	120.0	0.0	0.0	Start Build 3.50	
761.2	744.9	-56.6	110.3	Hold 22.44 Inclination	
3,186.4	2,986.4	-479.6	933.7	Start Drop -2.00	
4,308.4	4,080.0	-578.7	1,126.7	UMV_PC	
7,209.4	6,981.0	-578.7	1,126.7	TD at 7209.4	