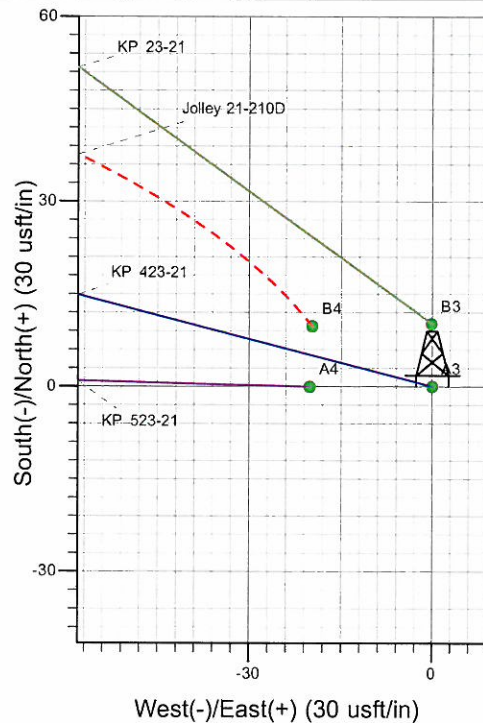
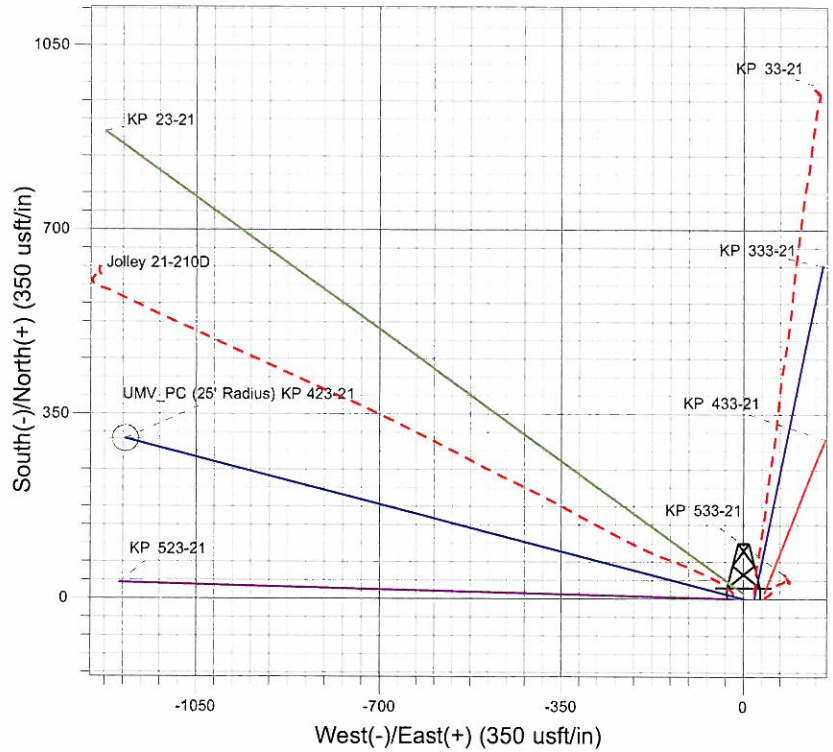
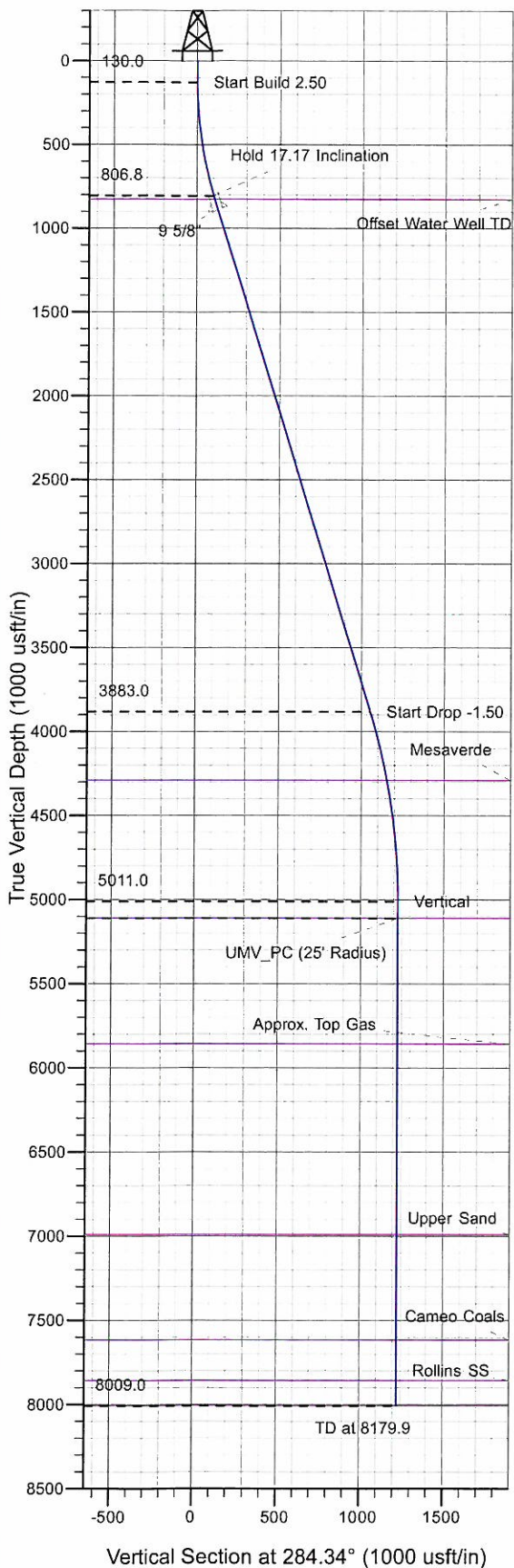




Well Name: KP 423-21
 Surface Location: KP 33-21 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 6969.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1617396.80 2419573.80 39° 30' 37.758 N 107° 33' 26.590 W A3
 KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)



Project: Sec. 21-T6S-R91W
 Site: KP 33-21 Pad
 Well: KP 423-21
 Plan #2 06Oct10 kjs

Azimuths to True North
 Magnetic North: 10.36°
 Magnetic Field
 Strength: 52511.6snT
 Dip Angle: 65.89°
 Date: 9/11/2009
 Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
130.0	130.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.50
806.8	817.0	17.18	284.34	25.3	-99.0	102.2	102.2	Hold 17.17 Inclination
3883.0	4036.9	17.18	284.34	260.8	-1020.2	1053.0	1053.0	Start Drop -1.50
5011.0	5181.9	0.00	0.00	303.0	-1185.3	1223.4	1223.4	Vertical
5111.0	5281.9	0.00	0.00	303.0	-1185.3	1223.4	1223.4	UMV_PC
8009.0	8179.9	0.00	0.00	303.0	-1185.3	1223.4	1223.4	TD at 8179.9

KOKOPELLI FIELD

Sec. 21-T6S-R91W

KP 33-21 Pad

KP 423-21 - Slot A3

Wellbore #1

Plan: Plan #2 06Oct10 kjs

Standard Planning Report - Geographic

09 November, 2010

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 423-21 - Slot A3
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)
Project:	Sec. 21-T6S-R91W	MD Reference:	KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)
Site:	KP 33-21 Pad	North Reference:	True
Well:	KP 423-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 06Oct10 kjs		

Project	Sec. 21-T6S-R91W, 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 33-21 Pad			
Site Position:		Northing:	1,617,407.00 usft	Latitude: 39° 30' 37.855 N
From: Map		Easting:	2,419,554.30 usft	Longitude: 107° 33' 26.842 W
Position Uncertainty:	0.0 usft	Slot Radius:	0.000 in	Grid Convergence: -1.298 °

Well	KP 423-21 - Slot A3			
Well Position	+N/-S	0.0 usft	Northing:	1,617,396.80 usft
	+E/-W	0.0 usft	Easting:	2,419,573.80 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	Ground Level: 6,969.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	9/11/2009	10.359	65.892	52,512

Design	Plan #2 06Oct10 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	284.34

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	
130.0	0.00	0.00	130.0	0.0	0.0	0.00	0.00	0.00	0.000	
817.0	17.18	284.34	806.8	25.3	-99.0	2.50	2.50	0.00	284.342	
4,036.9	17.18	284.34	3,883.0	260.8	-1,020.2	0.00	0.00	0.00	0.000	
5,181.9	0.00	0.00	5,011.0	303.0	-1,185.3	1.50	-1.50	0.00	180.000	
5,281.9	0.00	0.00	5,111.0	303.0	-1,185.3	0.00	0.00	0.00	0.000	UMV_PC (25' Radius)
8,179.9	0.00	0.00	8,009.0	303.0	-1,185.3	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 423-21 - Slot A3
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)
Project:	Sec. 21-T6S-R91W	MD Reference:	KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)
Site:	KP 33-21 Pad	North Reference:	True
Well:	KP 423-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 06Oct10 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	1,617,396.80	2,419,573.80	39° 30' 37.758 N	107° 33' 26.590 W	
130.0	0.00	0.00	130.0	0.0	0.0	1,617,396.80	2,419,573.80	39° 30' 37.758 N	107° 33' 26.590 W	
Start Build 2.50										
817.0	17.18	284.34	806.8	25.3	-99.0	1,617,424.35	2,419,475.38	39° 30' 38.008 N	107° 33' 27.854 W	
Hold 17.17 Inclination										
838.2	17.18	284.34	827.0	26.9	-105.1	1,617,426.03	2,419,469.36	39° 30' 38.024 N	107° 33' 27.931 W	
Offset Water Well TD										
901.0	17.18	284.34	887.0	31.5	-123.0	1,617,431.03	2,419,451.50	39° 30' 38.069 N	107° 33' 28.160 W	
9 5/8"										
4,036.9	17.18	284.34	3,883.0	260.8	-1,020.2	1,617,680.67	2,418,559.75	39° 30' 40.336 N	107° 33' 39.608 W	
Start Drop -1.50										
4,457.6	10.87	284.34	4,291.0	286.1	-1,118.9	1,617,708.14	2,418,461.64	39° 30' 40.585 N	107° 33' 40.867 W	
Mesaverde										
5,181.9	0.00	0.00	5,011.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
Vertical										
5,281.9	0.00	0.00	5,111.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
UMV_PC - UMV_PC										
6,029.9	0.00	0.00	5,859.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
Approx. Top Gas										
7,161.9	0.00	0.00	6,991.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
Upper Sand										
7,788.9	0.00	0.00	7,618.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
Cameo Coals										
8,029.9	0.00	0.00	7,859.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
Rollins SS										
8,179.9	0.00	0.00	8,009.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
TD at 8179.9 - TD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
UMV_PC (25' Radius) K	0.00	0.00	5,111.0	303.0	-1,185.3	1,617,726.60	2,418,395.70	39° 30' 40.753 N	107° 33' 41.714 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Circle (radius 25.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
901.0	887.0	9 5/8"	9.625	12.250	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 423-21 - Slot A3
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)
Project:	Sec. 21-T6S-R91W	MD Reference:	KELLY BUSHING @ 6995.0usft (Nabors 574 (26' KB) kjs)
Site:	KP 33-21 Pad	North Reference:	True
Well:	KP 423-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 06Oct10 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
838.2	827.0	Offset Water Well TD				
4,457.6	4,291.0	Mesaverde				
5,281.9	5,111.0	UMV_PC				
6,029.9	5,859.0	Approx. Top Gas				
7,161.9	6,991.0	Upper Sand				
7,788.9	7,618.0	Cameo Coals				
8,029.9	7,859.0	Rollins SS				
8,179.9	8,009.0	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
130.0	130.0	0.0	0.0	Start Build 2.50	
817.0	806.8	25.3	-99.0	Hold 17.17 Inclination	
4,036.9	3,883.0	260.8	-1,020.2	Start Drop -1.50	
5,181.9	5,011.0	303.0	-1,185.3	Vertical	
5,281.9	5,111.0	303.0	-1,185.3	UMV_PC	
8,179.9	8,009.0	303.0	-1,185.3	TD at 8179.9	