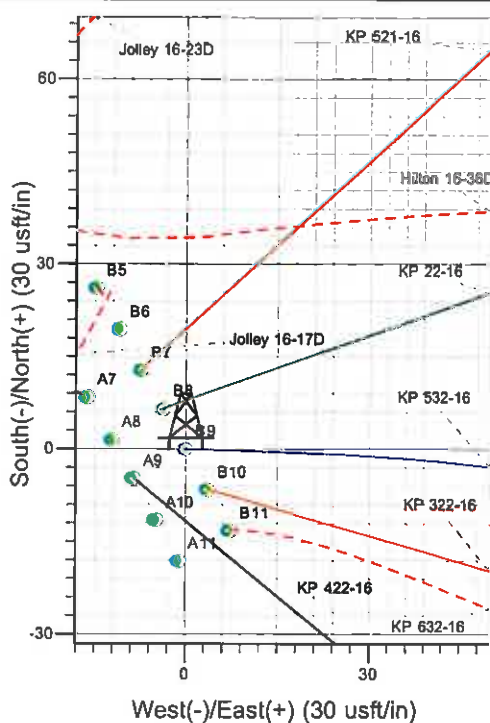
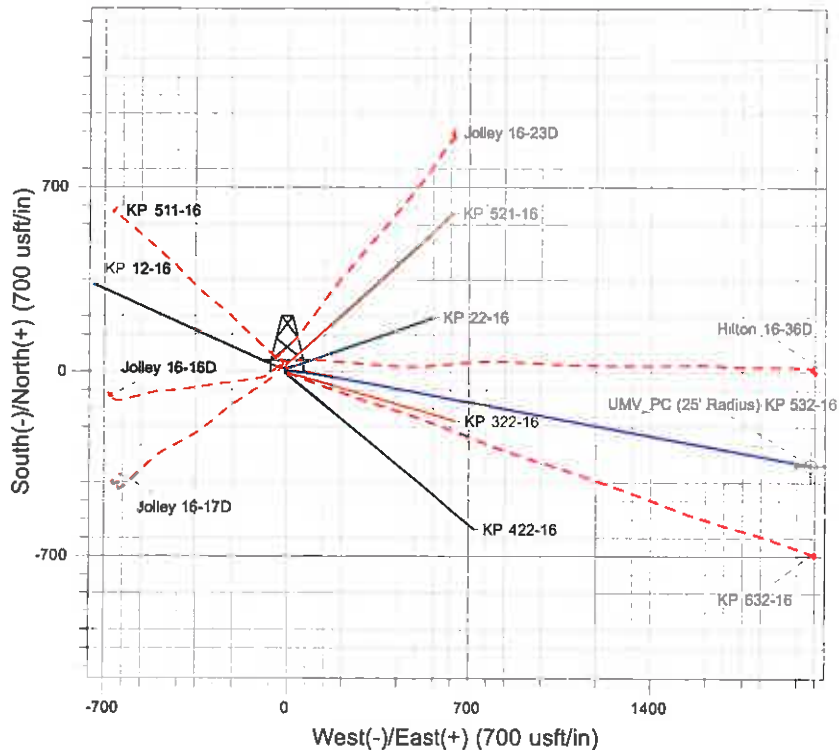
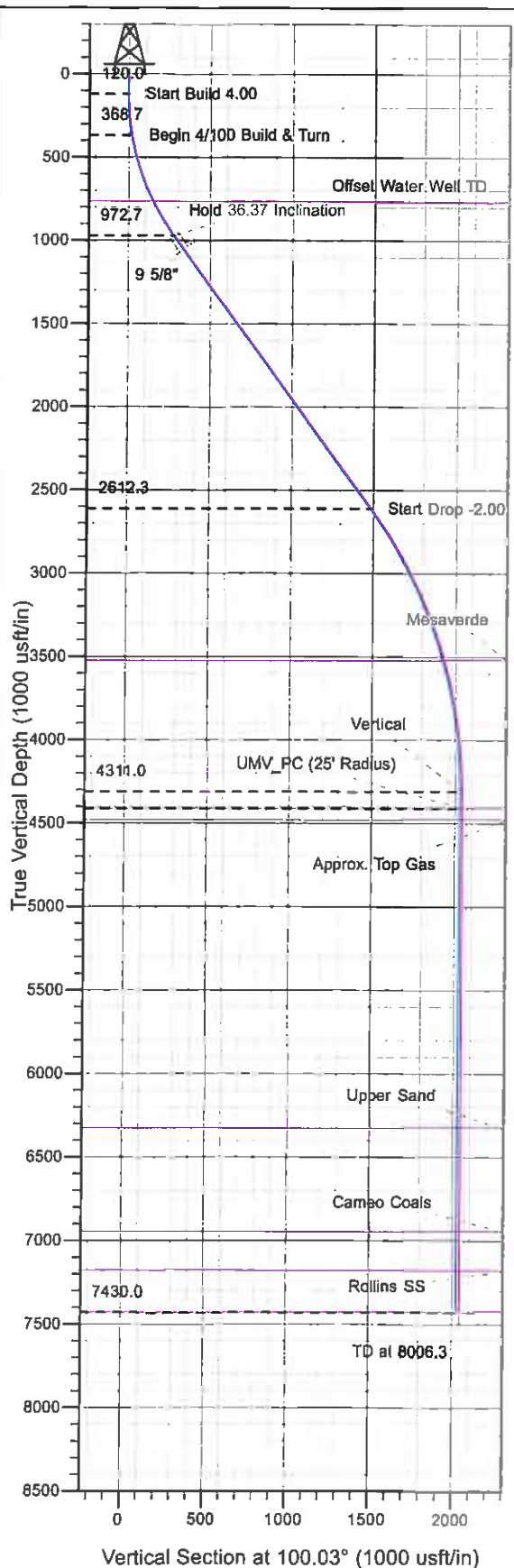




Well Name: KP 532-16
 Surface Location: KP 22-16 Pad
 North American Datum 1983 US State Plane 1983 Colorado Central Zone
 Ground Elevation: 6674.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1624719.20 2417731.50 39° 31' 49.698 N 107° 33' 52.214 W B9
 KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)



Project: Sec. 16-T6S-R91W
 Site: KP 22-16 Pad
 Well: KP 532-16
 Plan #2 10Aug11 kjs



Azimuths to True North
 Magnetic North: 10.36°
 Magnetic Field
 Strength: 52522.4nT
 Dip Angle: 65.91°
 Date: 9/17/2009
 Model: IGRF2005-10

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 4.00
368.7	370.0	10.00	92.00	-0.8	21.7	21.5	21.6	Begin 4/100 Build & Turn
972.7	1032.7	36.37	100.35	-38.8	277.1	279.6	280.1	Hold 36.37 Inclination
2612.3	3068.9	36.37	100.35	-255.8	1464.8	1487.0	1487.5	Start Drop -2.00
4311.0	4887.3	0.00	0.00	-356.0	2013.7	2044.9	2045.4	Vertical
4411.0	4987.3	0.00	0.00	-356.0	2013.7	2044.9	2045.4	UMV_PC
7430.0	8006.3	0.00	0.00	-356.0	2013.7	2044.9	2045.4	TD at 8006.3

KOKOPELLI FIELD

Sec. 16-T6S-R91W

KP 22-16 Pad

KP 532-16 - Slot B9

Wellbore #1

Plan: Plan #2 10Aug11 kjs

Standard Planning Report - Geographic

16 September, 2011

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 532-16 - Slot B9
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 16-T6S-R91W	MD Reference:	KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 22-16 Pad	North Reference:	True
Well:	KP 532-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 10Aug11 kjs		

Project	Sec. 16-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 22-16 Pad				
Site Position:		Northing:	1,624,771.94 usf	Latitude:	39° 31' 50.213 N
From:	Lat/Long	Easting:	2,417,703.43 usf	Longitude:	107° 33' 52.587 W
Position Uncertainty:	0.0 usf	Slot Radius:	13-3/16 "	Grid Convergence:	-1.30 "

Well	KP 532-16 - Slot B9					
Well Position	+N/-S	0.0 usft	Northing:	1,624,719.20 usft	Latitude:	39° 31' 49.698 N
	+E/-W	0.0 usft	Easting:	2,417,731.50 usft	Longitude:	107° 33' 52.214 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,674.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	9/17/2009	10.36	65.91	52,522

Design	Plan #2 10Aug11 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	100.03

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	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.00	
370.0	10.00	92.00	368.7	-0.8	21.7	4.00	4.00	0.00	92.00	
1,032.7	36.37	100.35	972.7	-38.8	277.1	4.00	3.98	1.26	11.13	
3,068.9	36.37	100.35	2,612.3	-255.8	1,464.8	0.00	0.00	0.00	0.00	
4,887.3	0.00	0.00	4,311.0	-356.0	2,013.7	2.00	-2.00	0.00	180.00	
8,006.3	0.00	0.00	7,430.0	-356.0	2,013.7	0.00	0.00	0.00	0.00 TD / PBHL KP 532-16	

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 532-16 - Slot B9
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 16-T6S-R91W	MD Reference:	KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 22-16 Pad	North Reference:	True
Well:	KP 532-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 10Aug11 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	1,624,719.20	2,417,731.50	39° 31' 49.698 N	107° 33' 52.214 W
120.0	0.00	0.00	120.0	0.0	0.0	1,624,719.20	2,417,731.50	39° 31' 49.698 N	107° 33' 52.214 W
Start Build 4.00									
370.0	10.00	92.00	368.7	-0.8	21.7	1,624,717.94	2,417,753.23	39° 31' 49.690 N	107° 33' 51.936 W
Begin 4/100 Build & Turn									
791.1	26.72	99.14	767.0	-17.2	152.7	1,624,698.53	2,417,883.78	39° 31' 49.528 N	107° 33' 50.265 W
Offset Water Well TD									
1,032.7	36.37	100.35	972.7	-38.8	277.1	1,624,674.15	2,418,007.65	39° 31' 49.315 N	107° 33' 48.677 W
Hold 36.37 Inclination									
1,133.0	36.37	100.35	1,053.4	-49.4	335.6	1,624,662.13	2,418,065.90	39° 31' 49.209 N	107° 33' 47.930 W
9 5/8"									
3,068.9	36.37	100.35	2,612.3	-255.8	1,464.8	1,624,430.22	2,419,190.14	39° 31' 47.169 N	107° 33' 33.518 W
Start Drop -2.00									
4,087.9	15.99	100.35	3,522.0	-336.1	1,904.7	1,624,339.88	2,419,628.10	39° 31' 46.375 N	107° 33' 27.904 W
Mesaverde									
4,887.3	0.00	0.00	4,311.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
Vertical									
4,987.3	0.00	0.00	4,411.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
UMV_PC - UMV_PC - UMV_PC (25' Radius) KP 532-16									
5,056.3	0.00	0.00	4,480.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
Approx. Top Gas									
6,903.3	0.00	0.00	6,327.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
Upper Sand									
7,524.3	0.00	0.00	6,948.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
Cameo Coals									
7,756.3	0.00	0.00	7,180.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
Rollins SS									
8,006.3	0.00	0.00	7,430.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
TD at 8006.3 - TD - TD / PBHL KP 532-16									

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									
UMV_PC (25' Radius) K	0.00	0.00	4,411.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
- plan hits target center									
- Circle (radius 25.0)									
TD / PBHL KP 532-16	0.00	0.00	7,430.0	-356.0	2,013.7	1,624,317.50	2,419,736.60	39° 31' 46.178 N	107° 33' 26.513 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,133.0	1,053.4	9 5/8"	9-5/8	12-1/4	

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 532-16 - Slot B9
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 16-T6S-R91W	MD Reference:	KELLY BUSHING @ 6697.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 22-16 Pad	North Reference:	True
Well:	KP 532-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 10Aug11 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
791.1	767.0	Offset Water Well TD				
4,087.9	3,522.0	Mesaverde				
4,987.3	4,411.0	UMV_PC				
5,056.3	4,480.0	Approx. Top Gas				
6,903.3	6,327.0	Upper Sand				
7,524.3	6,948.0	Cameo Coals				
7,756.3	7,180.0	Rollins SS				
8,006.3	7,430.0	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 4.00	
370.0	368.7	-0.8	21.7	Begin 4/100 Build & Turn	
1,032.7	972.7	-38.8	277.1	Hold 36.37 Inclination	
3,068.9	2,612.3	-255.8	1,464.8	Start Drop -2.00	
4,887.3	4,311.0	-356.0	2,013.7	Vertical	
4,987.3	4,411.0	-356.0	2,013.7	UMV_PC	
8,006.3	7,430.0	-356.0	2,013.7	TD at 8006.3	