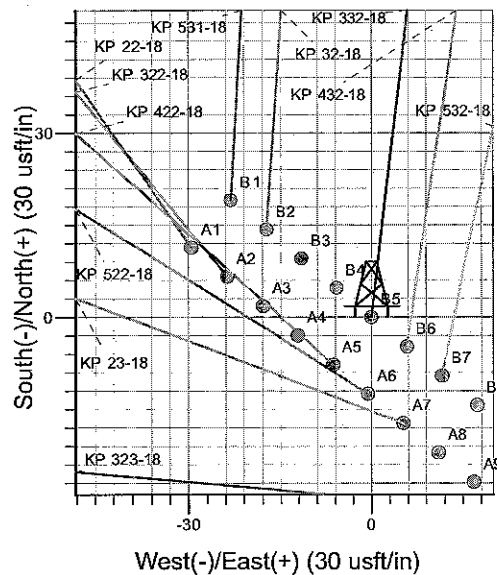
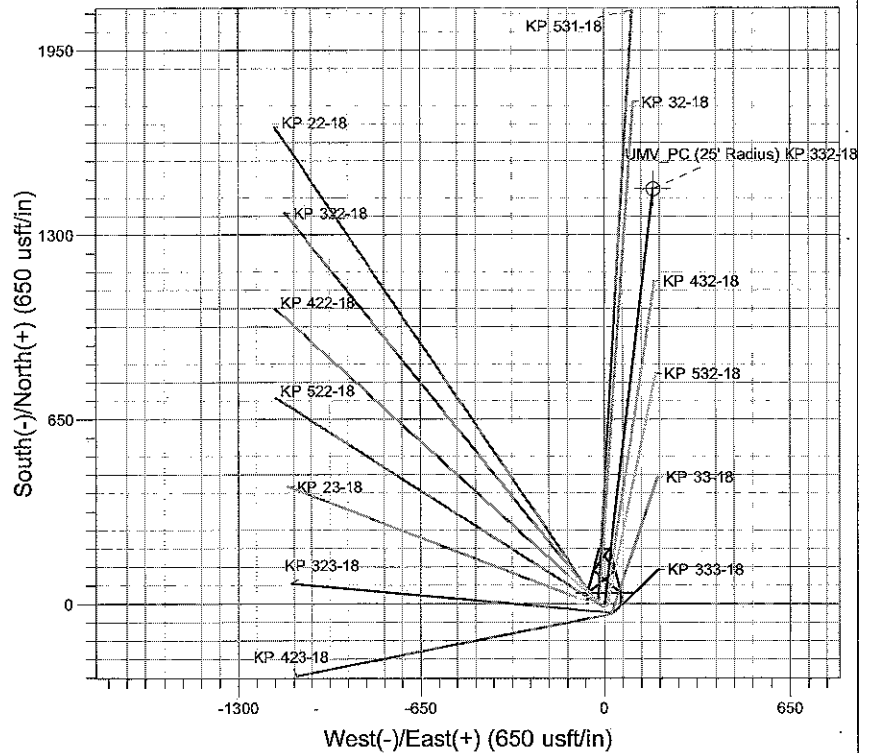
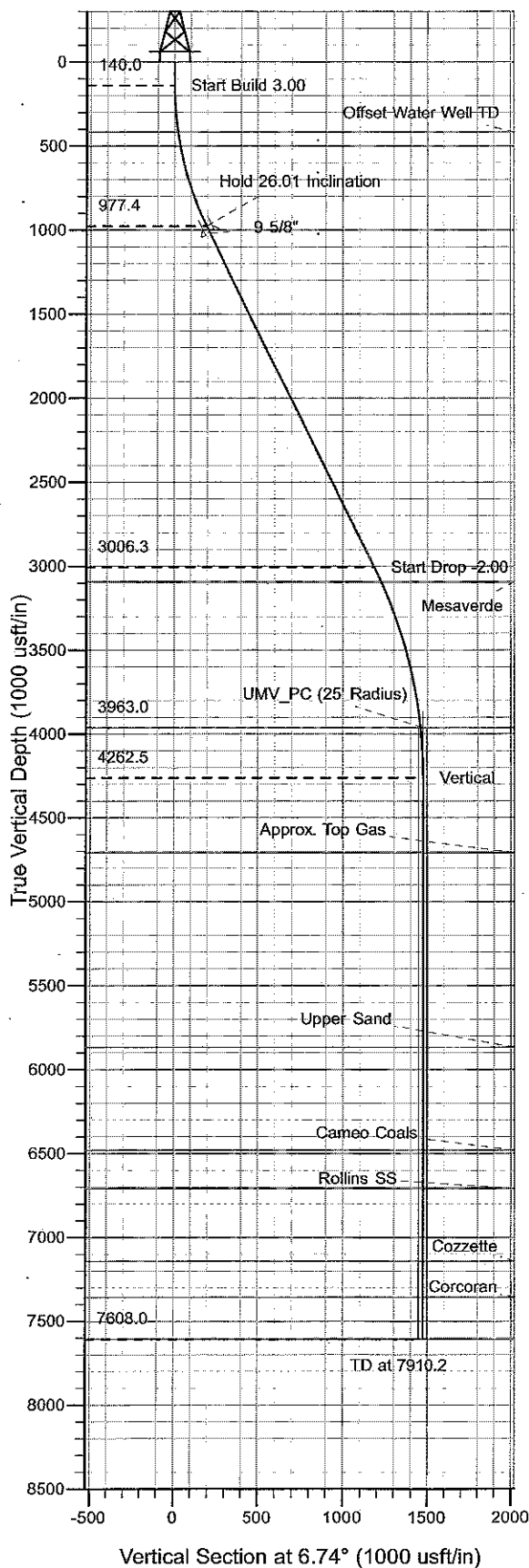




Well Name: KP 332-18
 Surface Location: KP 33-18 Pad
 North American Datum 1983 , US State Plane 1983, Colorado Central Zone
 Ground Elevation: 5850.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1623280.87 2408950.30 39° 31' 33.499 N 107° 35' 43.836 W B5
 KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)



Project: Sec. 18-T6S-R91W
 Site: KP 33-18 Pad
 Well: KP 332-18
 Design #1 02Mar10 kjs

Azimuths to True North
 Magnetic North: 10.32°
 Magnetic Field
 Strength: 52478.0snT
 Dip Angle: 65.89°
 Date: 3/2/2010
 Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
140.0	140.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00
977.4	1006.9	26.01	6.74	192.1	22.7	193.4	193.4	Hold 26.01 Inclination
3006.3	3264.4	26.01	6.74	1175.1	138.8	1183.2	1183.2	Start Drop -2.00
3963.0	4264.7	6.00	6.74	1447.6	171.0	1457.6	1457.6	UMV_PC
4262.5	4564.7	0.00	0.00	1463.1	172.8	1473.3	1473.3	Vertical
7608.0	7910.2	0.00	0.00	1463.1	172.8	1473.3	1473.3	TD at 7910.2

KOKOPELLI FIELD

Sec. 18-T6S-R91W

KP 33-18 Pad

KP 332-18 - Slot B5

Wellbore #1

Plan: Design #1 02Mar10 kjs

Standard Planning Report - Geographic

26 March, 2010

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 332-18 - Slot B5
Company:	KOKEPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)
Site:	KP 33-18 Pad	North Reference:	True
Well:	KP 332-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 02Mar10 kjs		

Project	Sec. 18-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		Using geodetic scale factor

Site	KP 33-18 Pad		
Site Position:		Northing:	1,623,258.60 usft
From:	Map	Easting:	2,408,960.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39° 31' 33.281 N
		Longitude:	107° 35' 43.696 W
		Grid Convergence:	-1.32 °

Well	KP 332-18 - Slot B5		
Well Position	+N/-S	0.0 usft	Northing: 1,623,280.86 usft
	+E/-W	0.0 usft	Easting: 2,408,950.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39° 31' 33.499 N
			Longitude: 107° 35' 43.836 W
			Ground Level: 5,850.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2005-10	3/2/2010	(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
			52,478

Design	Design #1 02Mar10 kjs		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			6.74

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	
140.0	0.00	0.00	140.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,006.9	26.01	6.74	977.4	192.1	22.7	3.00	3.00	0.00	6.74	
3,264.4	26.01	6.74	3,006.3	1,175.1	138.8	0.00	0.00	0.00	0.00	
4,264.7	6.00	6.74	3,963.0	1,447.6	171.0	2.00	-2.00	0.00	180.00	UMV_PC (25' Radius)
4,564.7	0.00	0.00	4,262.5	1,463.1	172.8	2.00	-2.00	-2.25	180.00	
7,910.2	0.00	0.00	7,608.0	1,463.1	172.8	0.00	0.00	0.00	0.00	

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Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 332-18 - Slot B5
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)
Site:	KP 33-18 Pad	North Reference:	True
Well:	KP 332-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 02Mar10 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	1,623,280.86	2,408,950.30	39° 31' 33.499 N	107° 35' 43.836 W
140.0	0.00	0.00	140.0	0.0	0.0	1,623,280.86	2,408,950.30	39° 31' 33.499 N	107° 35' 43.836 W
Start Build 3.00									
419.0	8.37	6.74	418.0	20.2	2.4	1,623,301.00	2,408,953.15	39° 31' 33.698 N	107° 35' 43.806 W
Offset Water Well TD									
1,006.9	26.01	6.74	977.4	192.1	22.7	1,623,472.33	2,408,977.40	39° 31' 35.397 N	107° 35' 43.547 W
Hold 26.01 Inclination									
1,056.0	26.01	6.74	1,021.6	213.4	25.2	1,623,493.66	2,408,980.42	39° 31' 35.608 N	107° 35' 43.515 W
9 5/8"									
3,264.4	26.01	6.74	3,006.3	1,175.1	138.8	1,624,452.37	2,409,116.14	39° 31' 45.112 N	107° 35' 42.065 W
Start Drop -2.00									
3,359.0	24.11	6.74	3,092.0	1,214.9	143.5	1,624,492.04	2,409,121.76	39° 31' 45.505 N	107° 35' 42.005 W
Mesaverde									
4,264.7	6.00	6.74	3,963.0	1,447.6	171.0	1,624,724.04	2,409,154.60	39° 31' 47.805 N	107° 35' 41.654 W
UMV_PC - UMW_PC									
4,564.7	0.00	0.00	4,262.5	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Vertical									
5,011.2	0.00	0.00	4,709.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Approx. Top Gas									
6,170.2	0.00	0.00	5,868.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Upper Sand									
6,782.2	0.00	0.00	6,480.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Cameo Coals									
7,011.2	0.00	0.00	6,709.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Rollins SS									
7,445.2	0.00	0.00	7,143.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Cozzette									
7,660.2	0.00	0.00	7,358.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
Corcoran									
7,910.2	0.00	0.00	7,608.0	1,463.1	172.8	1,624,739.58	2,409,156.80	39° 31' 47.959 N	107° 35' 41.631 W
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	3,963.0	1,460.8	172.6	1,624,737.20	2,409,156.50	39° 31' 47.935 N	107° 35' 41.634 W
- hit/miss target									
- Shape									
- plan misses target center by 13.2usft at 4265.4usft MD (3963.7 TVD, 1447.6 N, 171.0 E)									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,056.0	1,021.6	9 5/8"	9-5/8	12-1/4	

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Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 332-18 - Slot B5
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5873.0usft (Cyclone 30 (23' KB) kjs)
Site:	KP 33-18 Pad	North Reference:	True
Well:	KP 332-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 02Mar10 kjs		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
419.0	418.0	Offset Water Well TD			
3,359.0	3,092.0	Mesaverde			
4,264.7	3,963.0	UMV_PC			
5,011.2	4,709.0	Approx. Top Gas			
6,170.2	5,868.0	Upper Sand			
6,782.2	6,480.0	Cameo Coals			
7,011.2	6,709.0	Rollins SS			
7,445.2	7,143.0	Cozzette			
7,660.2	7,358.0	Corcoran			
7,910.2	7,608.0	TD			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
140.0	140.0	0.0	0.0	Start Build 3.00	
1,006.9	977.4	192.1	22.7	Hold 26.01 Inclination	
3,264.4	3,006.3	1,175.1	138.8	Start Drop -2.00	
4,264.7	3,963.0	1,447.6	171.0	UMV_PC	
4,564.7	4,262.5	1,463.1	172.8	Vertical	
7,910.2	7,608.0	1,463.1	172.8	TD at 7910.2	