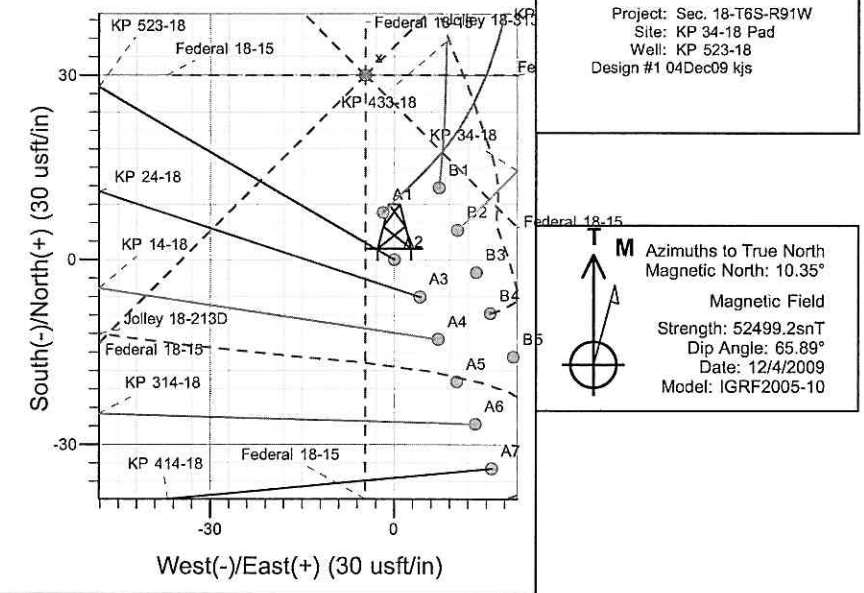
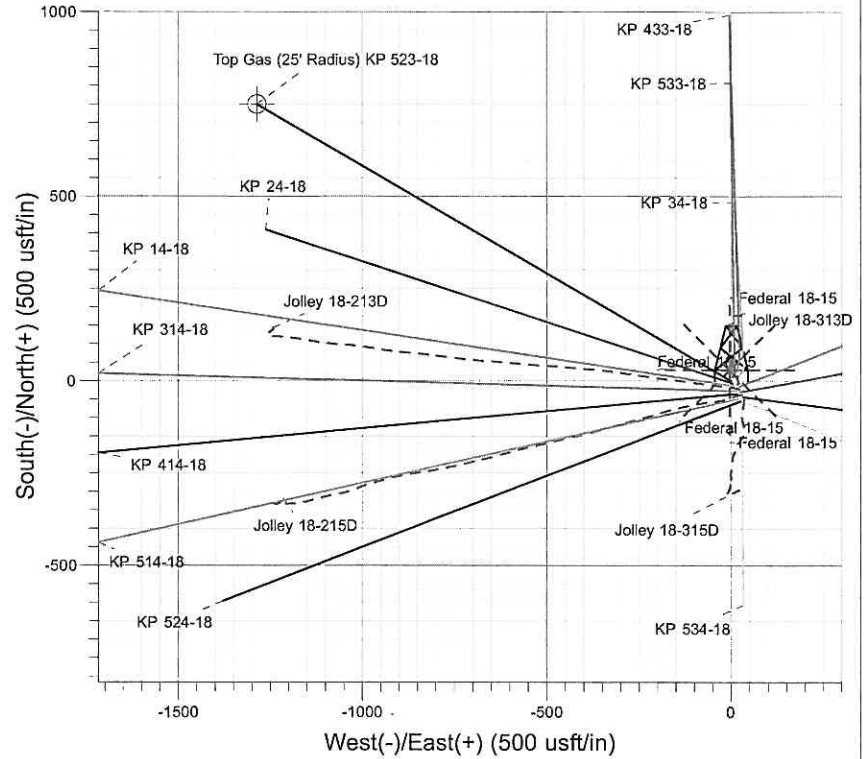
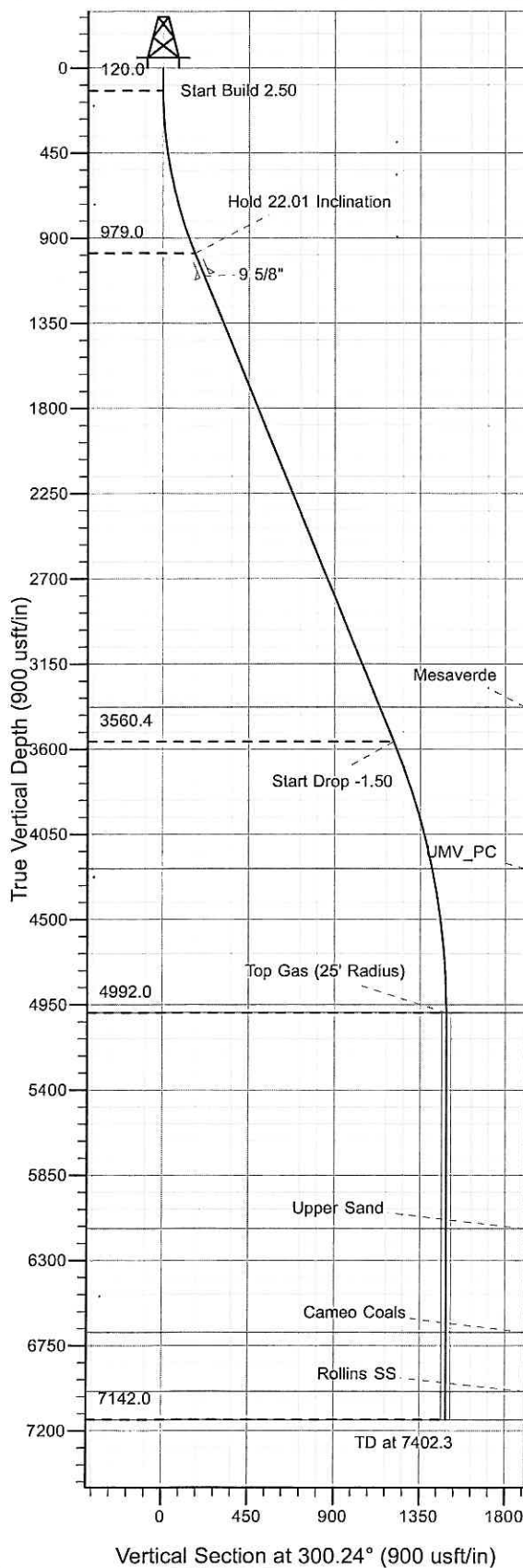




Well Name: KP 523-18
 Surface Location: KP 34-18 Pad
 North American Datum 1983 , US State Plane 1983, Colorado Central Zone
 Ground Elevation: 5919.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1621944.80 2409129.80 39° 31' 20.338 N 107° 35' 41.153 W A2
 KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)



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 2.50
979.0	1000.5	22.01	300.24	84.1	-144.3	167.1	167.1	Hold 22.01 Inclination
3560.4	3784.8	22.01	300.24	609.7	-1045.9	1210.6	1210.6	Start Drop -1.50
4992.0	5252.3	0.00	0.00	749.9	-1286.5	1489.1	1489.1	Top Gas
7142.0	7402.3	0.00	0.00	749.9	-1286.5	1489.1	1489.1	TD at 7402.3

KOKOPELLI FIELD

Sec. 18-T6S-R91W

KP 34-18 Pad

KP 523-18 - Slot A2

Wellbore #1

Plan: Design #1 04Dec09 kjs

Standard Planning Report - Geographic

14 January, 2010

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 523-18 - Slot A2
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 34-18 Pad	North Reference:	True
Well:	KP 523-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 04Dec09 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 34-18 Pad		
Site Position:		Northing:	1,621,893.85 usft
From:	Map	Easting:	2,409,163.01 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0 "
		Latitude:	39° 31' 19.842 N
		Longitude:	107° 35' 40.714 W
		Grid Convergence:	-1.32 °

Well	KP 523-18 - Slot A2		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/4/2009	10.35	65.89	52,499

Design	Design #1 04Dec09 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	300.24

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	
1,000.5	22.01	300.24	979.0	84.1	-144.3	2.50	2.50	0.00	300.24	
3,784.8	22.01	300.24	3,560.4	609.7	-1,045.9	0.00	0.00	0.00	0.00	
5,252.3	0.00	0.00	4,992.0	749.9	-1,286.5	1.50	-1.50	0.00	180.00	Top Gas (25' Radius)
7,402.3	0.00	0.00	7,142.0	749.9	-1,286.5	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database: Compass R5000 WIN AUTH
Company: KOKOPELLI FIELD

Project: Sec. 18-T6S-R91W

Site: KP 34-18 Pad
Well: KP 523-18
Wellbore: Wellbore #1
Design: Design #1 04Dec09 kjs

Local Co-ordinate Reference: Well KP 523-18 - Slot A2
TVD Reference: KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
MD Reference: KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
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	1,621,944.80	2,409,129.80	39° 31' 20.338 N	107° 35' 41.153 W
120.0	0.00	0.00	120.0	0.0	0.0	1,621,944.80	2,409,129.80	39° 31' 20.338 N	107° 35' 41.153 W
Start Build 2.50									
1,000.5	22.01	300.24	979.0	84.1	-144.3	1,622,032.23	2,408,987.46	39° 31' 21.169 N	107° 35' 42.995 W
Hold 22.01 Inclination									
1,131.0	22.01	300.24	1,100.0	108.8	-186.6	1,622,057.83	2,408,945.77	39° 31' 21.413 N	107° 35' 43.534 W
9 5/8"									
3,587.0	22.01	300.24	3,377.0	572.3	-981.9	1,622,539.58	2,408,161.42	39° 31' 25.994 N	107° 35' 53.683 W
Mesaverde									
3,784.8	22.01	300.24	3,560.4	609.7	-1,045.9	1,622,578.38	2,408,098.25	39° 31' 26.363 N	107° 35' 54.501 W
Start Drop -1.50									
4,487.2	11.48	300.24	4,232.0	711.4	-1,220.5	1,622,684.13	2,407,926.08	39° 31' 27.369 N	107° 35' 56.728 W
UMV_PC									
5,252.3	0.00	0.00	4,992.0	749.9	-1,286.5	1,622,724.10	2,407,861.00	39° 31' 27.749 N	107° 35' 57.570 W
Top Gas - Approx. Top Gas									
6,392.3	0.00	0.00	6,132.0	749.9	-1,286.5	1,622,724.10	2,407,861.00	39° 31' 27.749 N	107° 35' 57.570 W
Upper Sand									
6,940.3	0.00	0.00	6,680.0	749.9	-1,286.5	1,622,724.10	2,407,861.00	39° 31' 27.749 N	107° 35' 57.570 W
Cameo Coals									
7,252.3	0.00	0.00	6,992.0	749.9	-1,286.5	1,622,724.10	2,407,861.00	39° 31' 27.749 N	107° 35' 57.570 W
Rollins SS									
7,402.3	0.00	0.00	7,142.0	749.9	-1,286.5	1,622,724.10	2,407,861.00	39° 31' 27.749 N	107° 35' 57.570 W
TD at 7402.3 - 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
Top Gas (25' Radius) KF - plan hits target center - Circle (radius 25.0)	0.00	0.00	4,992.0	749.9	-1,286.5	1,622,724.10	2,407,861.00	39° 31' 27.749 N	107° 35' 57.570 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,131.0	1,100.0	9 5/8"	9-5/8	12-1/4

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 523-18 - Slot A2
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 34-18 Pad	North Reference:	True
Well:	KP 523-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 04Dec09 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,587.0	3,377.0	Mesaverde				
4,487.2	4,232.0	UMV_PC				
5,252.3	4,992.0	Approx. Top Gas				
6,392.3	6,132.0	Upper Sand				
6,940.3	6,680.0	Cameo Coals				
7,252.3	6,992.0	Rollins SS				
7,402.3	7,142.0	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 2.50	
1,000.5	979.0	84.1	-144.3	Hold 22.01 Inclination	
3,784.8	3,560.4	609.7	-1,045.9	Start Drop -1.50	
5,252.3	4,992.0	749.9	-1,286.5	Top Gas	
7,402.3	7,142.0	749.9	-1,286.5	TD at 7402.3	