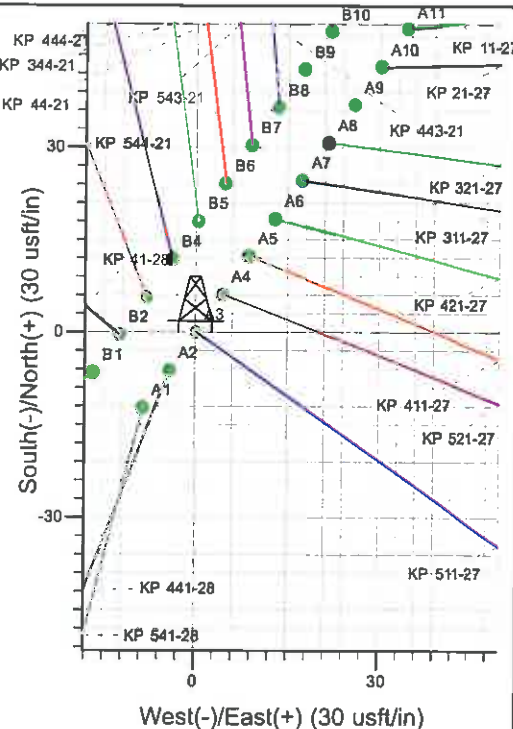
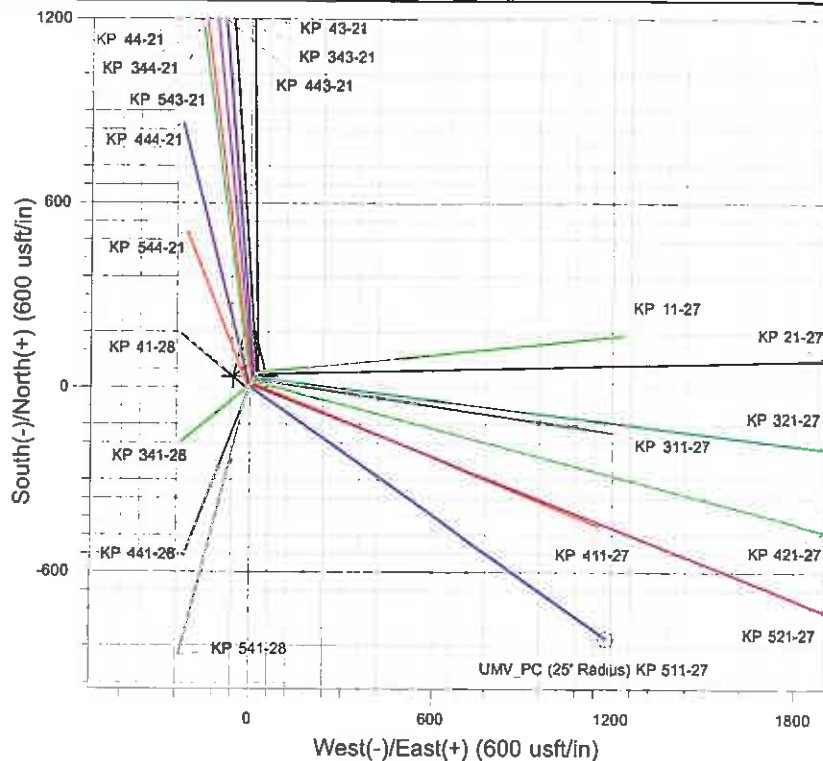
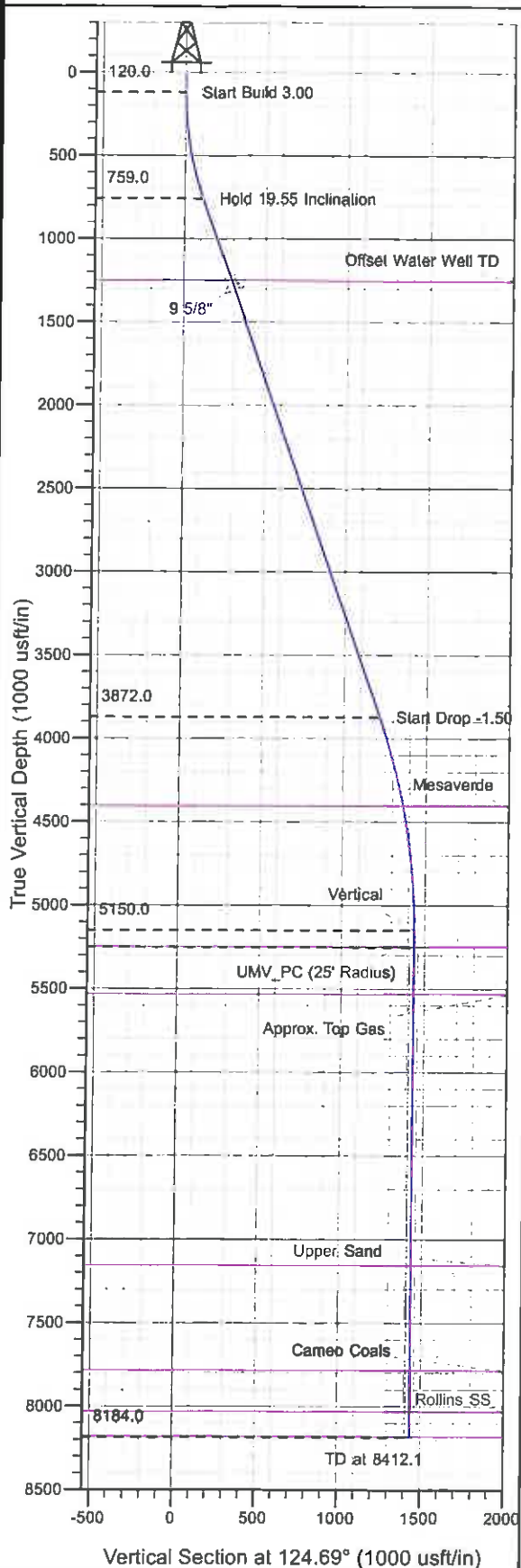




Well Name: KP 511-27
 Surface Location: KP 41-28 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 7056.0
 +N/-S 0.0 +E/-W 0.0 Northing 1615578.40 Easting 2421180.60 Latitude 39° 30' 20.150 N Longitude 107° 33' 5.569 W Slot A3
 KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)



Project: Sec. 28-T6S-R91W
 Site: KP 41-28 Pad
 Well: KP 511-27
 Design #1 31Jan11 kjs



Azimuths to True North
 Magnetic North: 10.20°
 Magnetic Field
 Strength: 52342.0nT
 Dip Angle: 65.84°
 Date: 1/31/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00
759.0	771.6	19.55	124.69	-62.6	90.5	110.1	110.1	Hold 19.55 Inclination
3872.0	4075.0	19.55	124.69	-691.6	999.3	1215.3	1215.3	Start Drop -1.50
5150.0	5378.1	0.00	0.00	-816.9	1180.3	1435.4	1435.4	Vertical
5250.0	5478.1	0.00	0.00	-816.9	1180.3	1435.4	1435.4	UMV_PC
8184.0	8412.1	0.00	0.00	-816.9	1180.3	1435.4	1435.4	TD at 8412.1

KOKOPELLI FIELD

Sec. 28-T6S-R91W

KP 41-28 Pad

KP 511-27 - Slot A3

Wellbore #1

Plan: Design #1 31Jan11 kjs

Standard Planning Report - Geographic

04 April, 2011

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 511-27 - Slot A3
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 28-T6S-R91W	MD Reference:	KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 41-28 Pad	North Reference:	True
Well:	KP 511-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 31Jan11 kjs		

Project	Sec. 28-T6S-R91W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	KP 41-28 Pad				
Site Position:		Northing:	1,615,566.30 usft	Latitude:	39° 30' 20.028 N
From:	Map	Eastng:	2,421,171.70 usft	Longitude:	107° 33' 5.679 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.294 °

Well	KP 511-27 - Slot A3					
Well Position	+N/-S	0.0 usft	Northing:	1,615,578.40 usft	Latitude:	39° 30' 20.150 N
	+E/-W	0.0 usft	Eastng:	2,421,180.60 usft	Longitude:	107° 33' 5.569 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	7,056.0 usft

Wellbore	Wellbore #1			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/31/2011	10.200	65.840	52,342

Design	Design #1 31Jan11 kjs			
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Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	124.69

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	
771.6	19.55	124.69	759.0	-62.6	90.5	3.00	3.00	0.00	124.685	
4,075.0	19.55	124.69	3,872.0	-691.6	999.3	0.00	0.00	0.00	0.000	
5,378.1	0.00	0.00	5,150.0	-816.9	1,180.3	1.50	-1.50	0.00	180.000	
5,478.1	0.00	0.00	5,250.0	-816.9	1,180.3	0.00	0.00	0.00	0.000	UMV_PC (25' Radius)
8,412.1	0.00	0.00	8,184.0	-816.9	1,180.3	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 511-27 - Slot A3
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 28-T6S-R91W	MD Reference:	KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 41-28 Pad	North Reference:	True
Well:	KP 511-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 31Jan11 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	1,615,578.40	2,421,180.60	39° 30' 20.150 N	107° 33' 5.569 W	
120.0	0.00	0.00	120.0	0.0	0.0	1,615,578.40	2,421,180.60	39° 30' 20.150 N	107° 33' 5.569 W	
Start Build 3.00										
771.6	19.55	124.69	759.0	-62.6	90.5	1,615,513.73	2,421,269.67	39° 30' 19.530 N	107° 33' 4.415 W	
Hold 19.55 Inclination										
1,293.7	19.55	124.69	1,251.0	-162.0	234.1	1,615,411.11	2,421,411.03	39° 30' 18.548 N	107° 33' 2.582 W	
Offset Water Well TD										
1,357.3	19.55	124.69	1,311.0	-174.2	251.7	1,615,398.60	2,421,428.27	39° 30' 18.428 N	107° 33' 2.359 W	
9 5/8"										
4,075.0	19.55	124.69	3,872.0	-691.6	999.3	1,614,864.42	2,422,164.07	39° 30' 13.314 N	107° 32' 52.820 W	
Start Drop -1.50										
4,632.3	11.19	124.69	4,409.0	-775.6	1,120.7	1,614,777.73	2,422,283.48	39° 30' 12.484 N	107° 32' 51.271 W	
Mesaverde										
5,378.1	0.00	0.00	5,150.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
Vertical										
5,478.1	0.00	0.00	5,250.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
UMV_PC - UMV_PC										
5,762.1	0.00	0.00	5,534.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
Approx. Top Gas										
7,388.1	0.00	0.00	7,160.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
Upper Sand										
8,016.1	0.00	0.00	7,788.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
Cameo Coals										
8,262.1	0.00	0.00	8,034.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
Rollins SS										
8,412.1	0.00	0.00	8,184.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
TD at 8412.1 - TD										

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	5,250.0	-816.9	1,180.3	1,614,735.10	2,422,342.20	39° 30' 12.076 N	107° 32' 50.510 W	
- plan hits target center										
- Circle (radius 25.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,357.3	1,311.0	9 5/8"	9.625	12.250	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 511-27 - Slot A3
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 28-T6S-R91W	MD Reference:	KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 41-28 Pad	North Reference:	True
Well:	KP 511-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 31Jan11 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (")	Dip Direction (")	
1,293.7	1,251.0	Offset Water Well TD				
4,632.3	4,409.0	Mesaverde				
5,478.1	5,250.0	UMV_PC				
5,762.1	5,534.0	Approx. Top Gas				
7,388.1	7,160.0	Upper Sand				
8,016.1	7,788.0	Cameo Coals				
8,262.1	8,034.0	Rollins SS				
8,412.1	8,184.0	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 3.00	
771.6	759.0	-62.6	90.5	Hold 19.55 Inclination	
4,075.0	3,872.0	-691.6	999.3	Start Drop -1.50	
5,378.1	5,150.0	-816.9	1,180.3	Vertical	
5,478.1	5,250.0	-816.9	1,180.3	UMV_PC	
8,412.1	8,184.0	-816.9	1,180.3	TD at 8412.1	