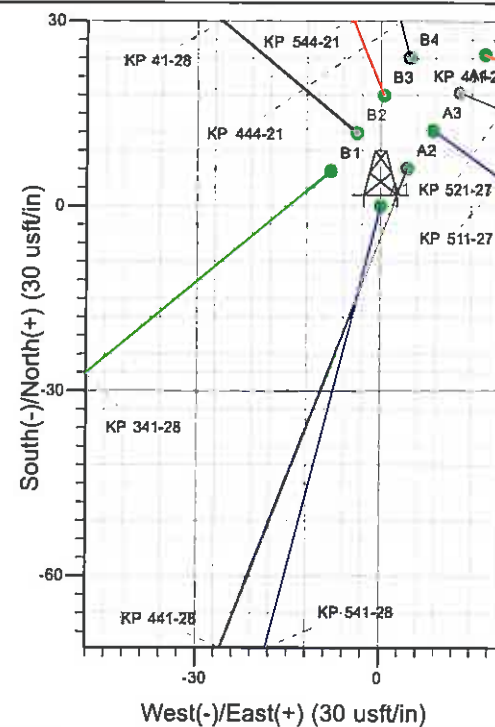
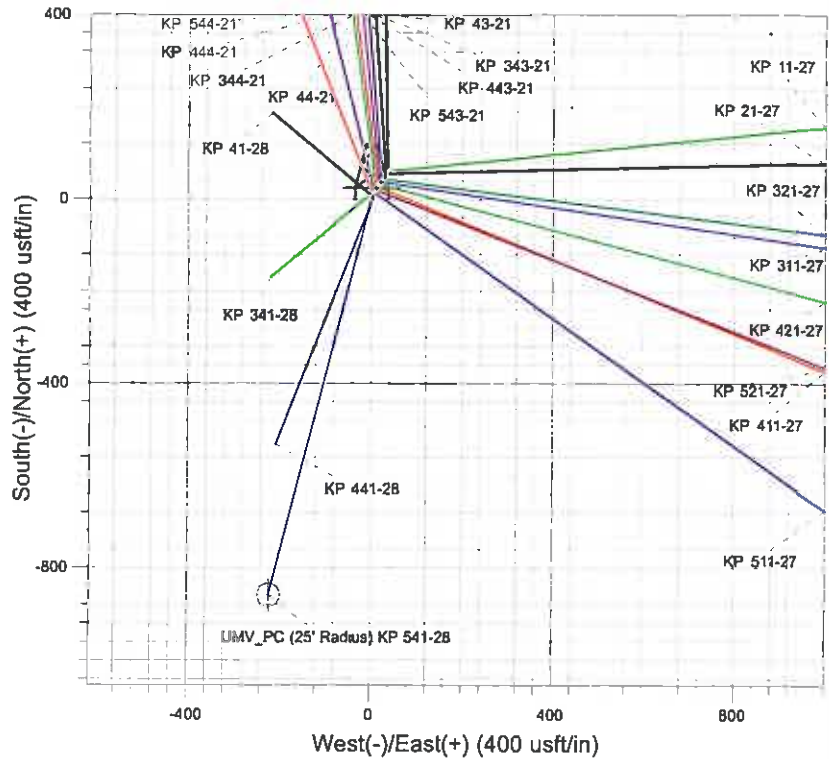
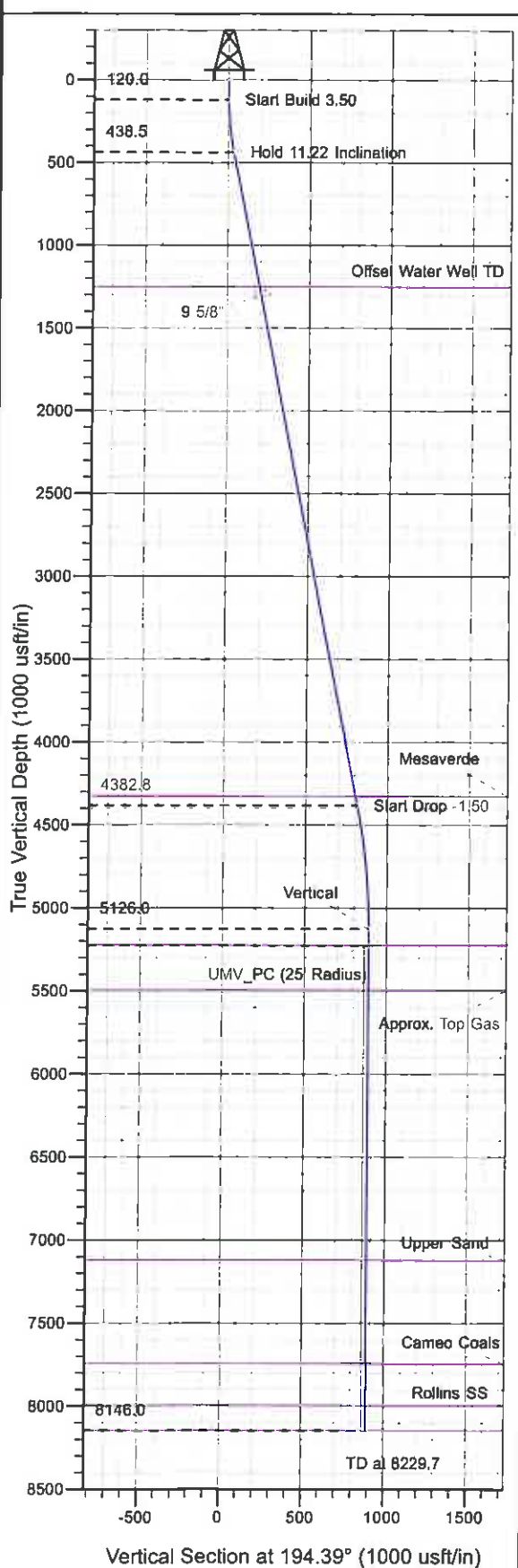




Well Name: KP 541-28
 Surface Location: KP 41-28 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 7056.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1615566.30 2421171.70 39° 30' 20.028 N 107° 33' 5.679 W A1
 KELLY BUSHING @ 7079.0usft (Cyclone 30 (23' RKB) kjs)



Project: Sec. 28-T6S-R91W
 Site: KP 41-28 Pad
 Well: KP 541-28
 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 3.50
438.5	440.6	11.22	194.39	-30.3	-7.8	31.3	31.3	Hold 11.22 Inclination
4382.8	4461.7	11.22	194.39	-788.2	-202.2	813.7	813.7	Start Drop -1.50
5126.0	5209.7	0.00	0.00	-858.9	-220.4	886.7	886.7	Vertical
5226.0	5309.7	0.00	0.00	-858.9	-220.4	886.7	886.7	UMV_PC
8146.0	8229.7	0.00	0.00	-858.9	-220.4	886.7	886.7	TD at 8229.7

KOKOPELLI FIELD

Sec. 28-T6S-R91W

KP 41-28 Pad

KP 541-28 - Slot A1

Wellbore #1

Plan: Design #1 31Jan11 kjs

Standard Planning Report - Geographic

01 April, 2011

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 541-28 - Slot A1
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 541-28	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	Easting:	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 541-28 - Slot A1					
Well Position	+N/-S	0.0 usft	Northing:	1,615,566.30 usft	Latitude:	39° 30' 20.028 N
	+E/-W	0.0 usft	Easting:	2,421,171.70 usft	Longitude:	107° 33' 5.679 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
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	194.39

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	
440.6	11.22	194.39	438.5	-30.3	-7.8	3.50	3.50	0.00	194.390	
4,461.7	11.22	194.39	4,382.8	-788.2	-202.2	0.00	0.00	0.00	0.000	
5,209.7	0.00	0.00	5,126.0	-858.9	-220.4	1.50	-1.50	0.00	180.000	
5,309.7	0.00	0.00	5,226.0	-858.9	-220.4	0.00	0.00	0.00	0.000	UMV_PC (25' Radius)
8,229.7	0.00	0.00	8,146.0	-858.9	-220.4	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 541-28 - Slot A1
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 541-28	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	1,615,566.30	2,421,171.70	39° 30' 20.028 N	107° 33' 5.679 W
120.0	0.00	0.00	120.0	0.0	0.0	1,615,566.30	2,421,171.70	39° 30' 20.028 N	107° 33' 5.679 W
Start Build 3.50									
440.6	11.22	194.39	438.5	-30.3	-7.8	1,615,536.17	2,421,163.25	39° 30' 19.726 N	107° 33' 5.779 W
Hold 11.22 Inclination									
1,268.9	11.22	194.39	1,251.0	-186.4	-47.8	1,615,381.00	2,421,119.68	39° 30' 18.186 N	107° 33' 6.290 W
Offset Water Well TD									
1,330.0	11.22	194.39	1,311.0	-197.9	-50.8	1,615,369.54	2,421,116.46	39° 30' 18.072 N	107° 33' 6.327 W
9 5/8"									
4,405.8	11.22	194.39	4,328.0	-777.7	-199.5	1,614,793.34	2,420,954.68	39° 30' 12.342 N	107° 33' 8.225 W
Mesaverde									
4,461.7	11.22	194.39	4,382.8	-788.2	-202.2	1,614,782.88	2,420,951.74	39° 30' 12.238 N	107° 33' 8.259 W
Start Drop -1.50									
5,209.7	0.00	0.00	5,126.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
Vertical									
5,309.7	0.00	0.00	5,226.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
UMV_PC - UMW_PC									
5,579.7	0.00	0.00	5,496.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
Approx. Top Gas									
7,205.7	0.00	0.00	7,122.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
Upper Sand									
7,830.7	0.00	0.00	7,747.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
Cameo Coals									
8,079.7	0.00	0.00	7,996.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
Rollins SS									
8,229.7	0.00	0.00	8,146.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 W
TD at 8229.7 - 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	5,226.0	-858.9	-220.4	1,614,712.60	2,420,932.00	39° 30' 11.539 N	107° 33' 8.491 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)
1,330.0	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 541-28 - Slot A1
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 541-28	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 (")	
1,268.9	1,251.0	Offset Water Well TD				
4,405.8	4,328.0	Mesaverde				
5,309.7	5,226.0	UMV_PC				
5,579.7	5,496.0	Approx. Top Gas				
7,205.7	7,122.0	Upper Sand				
7,830.7	7,747.0	Cameo Coals				
8,079.7	7,996.0	Rollins SS				
8,229.7	8,146.0	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 3.50	
440.6	438.5	-30.3	-7.8	Hold 11.22 Inclination	
4,461.7	4,382.8	-788.2	-202.2	Start Drop -1.50	
5,209.7	5,126.0	-858.9	-220.4	Vertical	
5,309.7	5,226.0	-858.9	-220.4	UMV_PC	
8,229.7	8,146.0	-858.9	-220.4	TD at 8229.7	