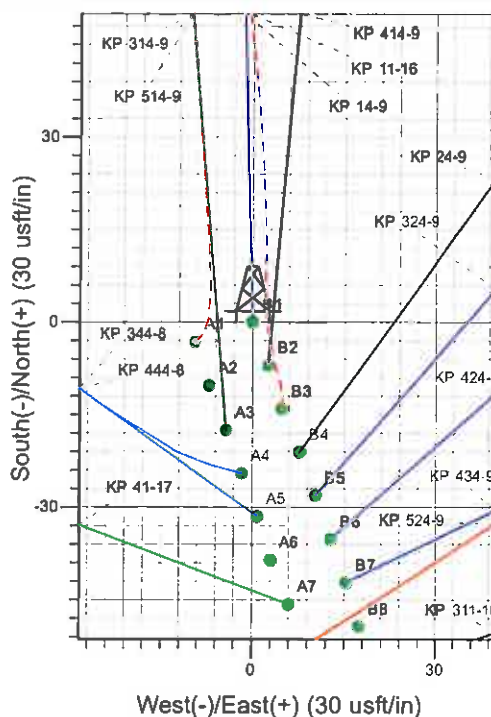
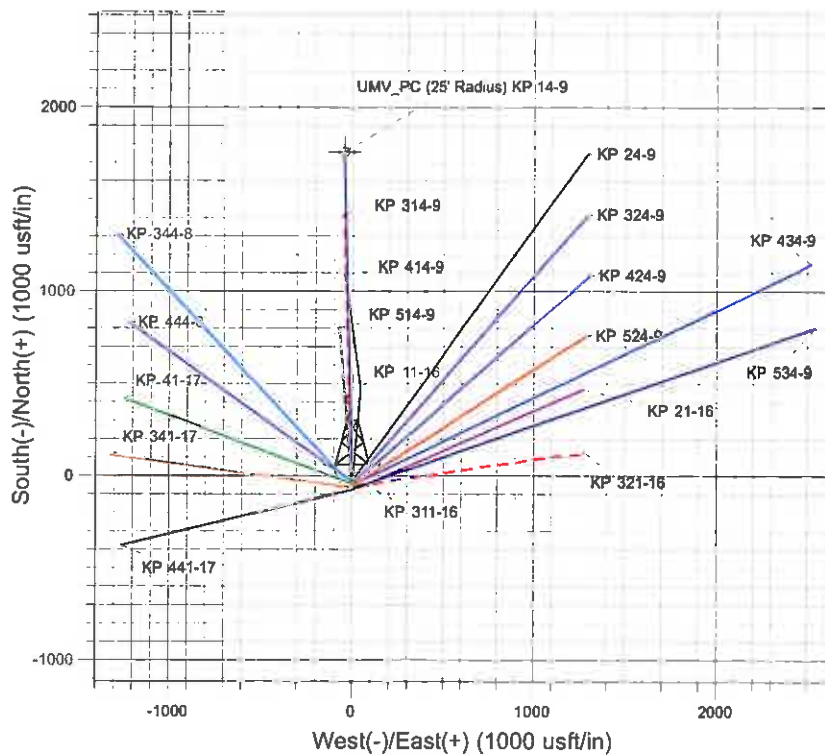
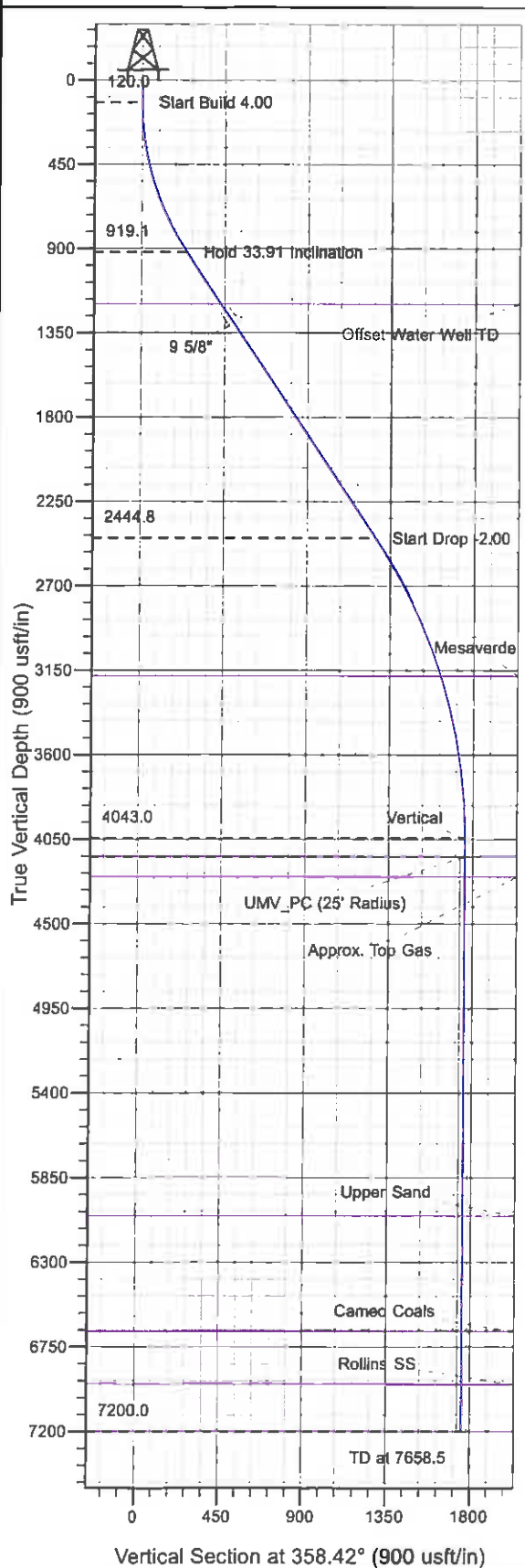




Well Name: KP 14-9
 Surface Location: KP 11-16 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 6632.0
 +N/-S 0.0 +E/-W 0.0 Northing 1625832.40 Easting 2417101.10 Latitude 39° 32' 0.555 N Longitude 107° 34' 0.581 W Slot B1
 KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)



Project: Sec. 16-T6S-R91W
 Site: KP 11-16 Pad
 Well: KP 14-9
 Plan #2 12Aug11 kjs



Azimuths to True North
 Magnetic North: 10.13°
 Magnetic Field
 Strength: 52296.0nT
 Dip Angle: 65.84°
 Date: 9/13/2011
 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 4.00
919.1	967.7	33.91	358.42	243.5	-8.7	243.6	243.6	Hold 33.91 Inclination
2444.8	2806.1	33.91	358.42	1288.7	-35.1	1289.2	1269.2	Start Drop -2.00
4043.0	4501.5	0.00	0.00	1755.7	-48.6	1756.4	1756.4	Vertical
4143.0	4601.5	0.00	0.00	1755.7	-48.6	1756.4	1756.4	UMV_PC
7200.0	7658.5	0.00	0.00	1755.7	-48.6	1756.4	1756.4	TD at 7658.5

KOKOPELLI FIELD

Sec. 16-T6S-R91W

KP 11-16 Pad

KP 14-9 - Slot B1

Wellbore #1

Plan: Plan #2 12Aug11 kjs

Standard Planning Report - Geographic

12 October, 2011

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 14-9 - Slot B1
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Project:	Sec. 16-T6S-R91W	MD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Site:	KP 11-16 Pad	North Reference:	True
Well:	KP 14-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 12Aug11 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 11-16 Pad			
Site Position:		Northing:	1,625,762.90 usft	Latitude:	39° 31' 59.871 N
From:	Map	Easting:	2,417,113.40 usft	Longitude:	107° 34' 0.404 W
Position Uncertainty:	0.0 usft	Slot Radius:	0 "	Grid Convergence:	-1.30 °

Well	KP 14-9 - Slot B1					
Well Position	+N/-S	0.0 usft	Northing:	1,625,832.40 usft	Latitude:	39° 32' 0.555 N
	+E/-W	0.0 usft	Easting:	2,417,101.10 usft	Longitude:	107° 34' 0.581 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,632.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/13/2011	10.13	65.84	52,296

Design	Plan #2 12Aug11 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	358.42

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	
967.7	33.91	358.42	919.1	243.5	-6.7	4.00	4.00	0.00	358.42	
2,806.1	33.91	358.42	2,444.8	1,268.7	-35.1	0.00	0.00	0.00	0.00	
4,501.5	0.00	0.00	4,043.0	1,755.7	-48.6	2.00	-2.00	0.00	180.00	
4,601.5	0.00	0.00	4,143.0	1,755.7	-48.6	0.00	0.00	0.00	0.00	UMV_PC (25' Radius)
7,658.5	0.00	0.00	7,200.0	1,755.7	-48.6	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 14-9 - Slot B1
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Project:	Sec. 16-T6S-R91W	MD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Site:	KP 11-16 Pad	North Reference:	True
Well:	KP 14-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 12Aug11 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	1,625,832.40	2,417,101.10	39° 32' 0.555 N	107° 34' 0.581 W
120.0	0.00	0.00	120.0	0.0	0.0	1,625,832.40	2,417,101.10	39° 32' 0.555 N	107° 34' 0.581 W
Start Build 4.00									
967.7	33.91	358.42	919.1	243.5	-6.7	1,626,076.01	2,417,099.91	39° 32' 2.962 N	107° 34' 0.667 W
Hold 33.91 Inclination									
1,301.4	33.91	358.42	1,196.0	429.6	-11.9	1,626,262.14	2,417,099.00	39° 32' 4.801 N	107° 34' 0.733 W
Offset Water Well TD									
1,421.9	33.91	358.42	1,296.0	496.8	-13.7	1,626,329.36	2,417,098.67	39° 32' 5.465 N	107° 34' 0.756 W
9 5/8"									
2,806.1	33.91	358.42	2,444.8	1,268.7	-35.1	1,627,101.58	2,417,094.89	39° 32' 13.095 N	107° 34' 1.029 W
Start Drop -2.00									
3,626.0	17.51	358.42	3,181.0	1,623.0	-44.9	1,627,456.04	2,417,093.15	39° 32' 16.597 N	107° 34' 1.154 W
Mesaverde									
4,501.5	0.00	0.00	4,043.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
Vertical									
4,601.5	0.00	0.00	4,143.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
UMV_PC - UMV_PC - UMV_PC (25' Radius) KP 14-9									
4,708.5	0.00	0.00	4,250.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
Approx. Top Gas									
6,512.5	0.00	0.00	6,054.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
Upper Sand									
7,127.5	0.00	0.00	6,669.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
Cameo Coals									
7,408.5	0.00	0.00	6,950.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
Rolline SS									
7,658.5	0.00	0.00	7,200.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W
TD at 7658.5 - 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
UMV_PC (25' Radius) K - plan hits target center - Circle (radius 25.0)	0.00	0.00	4,143.0	1,755.7	-48.6	1,627,588.80	2,417,092.50	39° 32' 17.908 N	107° 34' 1.201 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,421.9	1,296.0	9 5/8"	9-5/8	12-1/4	

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 14-9 - Slot B1
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Project:	Sec. 16-T6S-R91W	MD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Site:	KP 11-16 Pad	North Reference:	True
Well:	KP 14-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 12Aug11 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,301.4	1,196.0	Offset Water Well TD				
3,626.0	3,181.0	Mesaverde				
4,601.5	4,143.0	UMV_PC				
4,708.5	4,250.0	Approx. Top Gas				
6,512.5	6,054.0	Upper Sand				
7,127.5	6,669.0	Cameo Coals				
7,408.5	6,950.0	Rollins SS				
7,658.5	7,200.0	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	
967.7	919.1	243.5	-6.7	Hold 33.91 Inclination	
2,806.1	2,444.8	1,268.7	-35.1	Start Drop -2.00	
4,501.5	4,043.0	1,755.7	-48.6	Vertical	
4,601.5	4,143.0	1,755.7	-48.6	UMV_PC	
7,658.5	7,200.0	1,755.7	-48.6	TD at 7658.5	