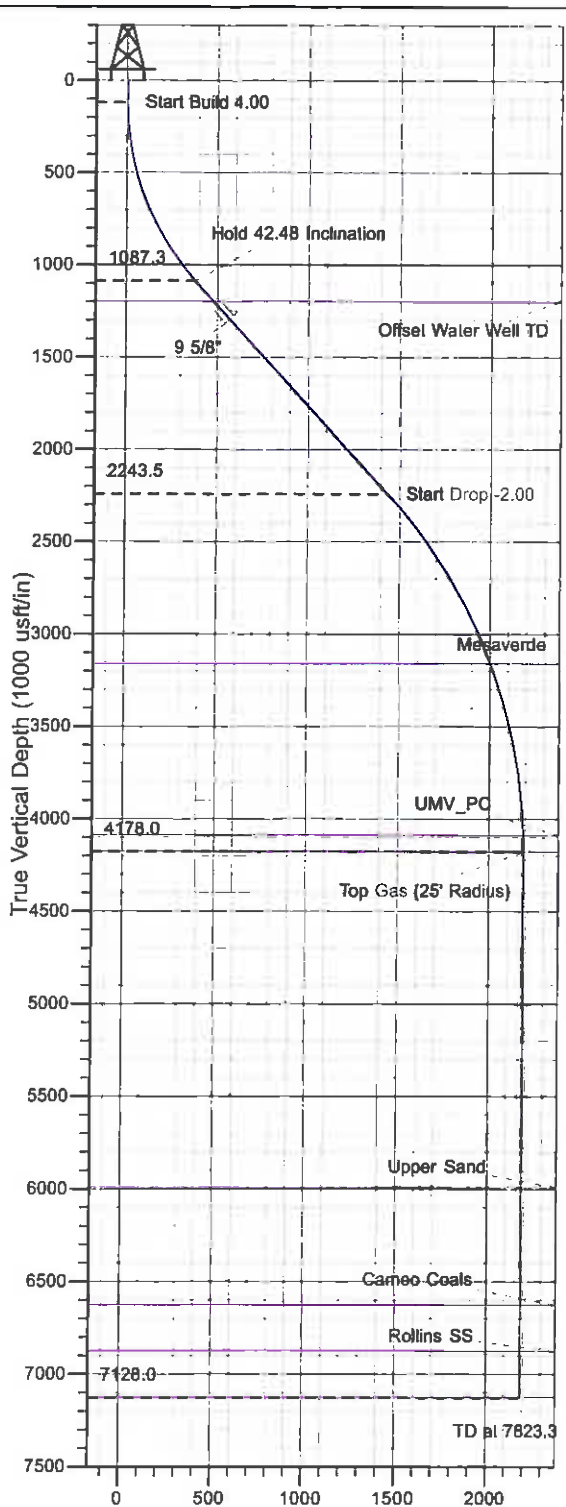
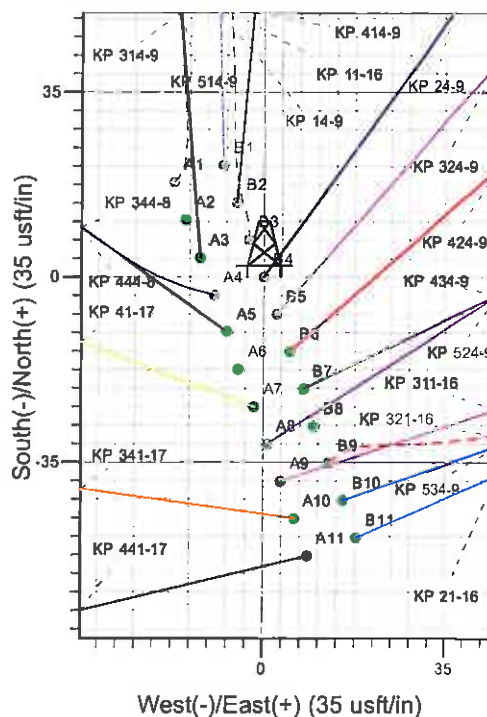
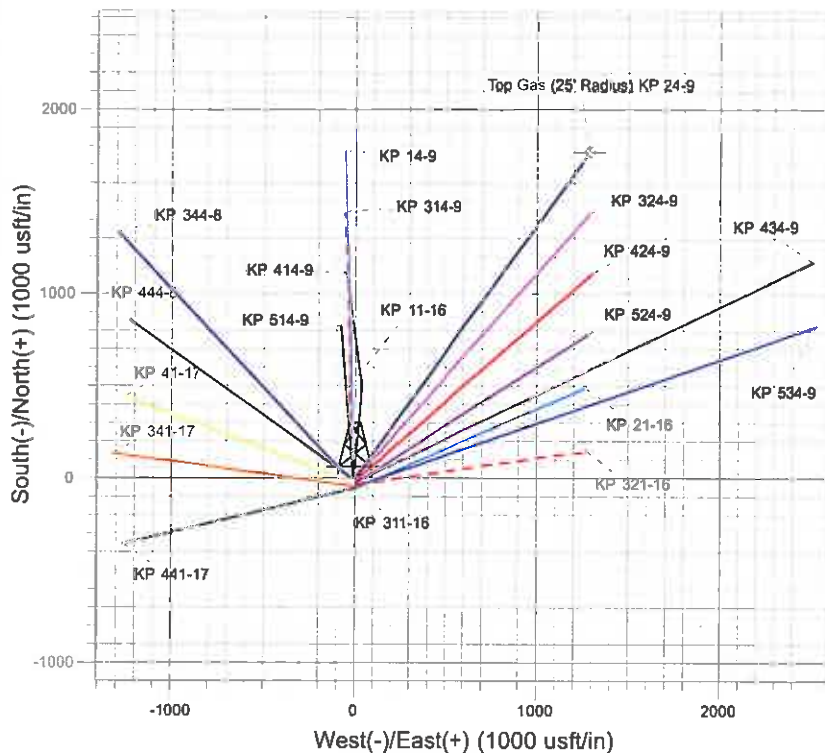




Well Name: KP 24-9
 Surface Location: KP 11-16 Pad
 North American Datum 1983, US State Plane 1983 Colorado Central Zone
 Ground Elevation: 6632.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1625811.10 2417108.30 39° 32' 0.347 N 107° 34' 0.483 W B4
 KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)



Vertical Section at 36.06° (1000 usft/in)



Project: Sec. 16-T6S-R91W
 Site: KP 11-16 Pad
 Well: KP 24-9
 Plan #2 12Aug11 kjs



Azimuths to True North
 Magnetic North: 10.22°
 Magnetic Field
 Strength: 52365.6nT
 Dip Angle: 65.86°
 Date: 1/6/2011
 Model: IGRF2010

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 4.00
1087.3	1181.9	42.48	36.06	303.9	221.3	375.9	375.9	Hold 42.48 Inclination
2243.5	2749.5	42.48	36.06	1159.6	844.4	1434.5	1434.5	Start Drop -2.00
4178.0	4873.3	0.00	0.00	1767.4	1286.9	2186.3	2186.3	Top Gas
7128.0	7823.3	0.00	0.00	1767.4	1286.9	2186.3	2186.3	TD at 7823.3

KOKOPELLI FIELD

Sec. 16-T6S-R91W

KP 11-16 Pad

KP 24-9 - Slot B4

Wellbore #1

Plan: Plan #2 12Aug11 kjs

Standard Planning Report - Geographic

13 October, 2011

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 24-9 - Slot B4
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 24-9	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 24-9 - Slot B4			
Well Position	+N/-S	0.0 usft	Northing:	1,625,811.10 usft
	+E/-W	0.0 usft	Easting:	2,417,108.30 usft
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	1/6/2011	10.22	65.86	52,366

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	36.06

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	
1,181.9	42.48	36.06	1,087.3	303.9	221.3	4.00	4.00	0.00	36.06	
2,749.5	42.48	36.06	2,243.5	1,159.6	844.4	0.00	0.00	0.00	0.00	
4,873.3	0.00	0.00	4,178.0	1,767.4	1,286.9	2.00	-2.00	0.00	180.00	Top Gas (25' Radius)
7,823.3	0.00	0.00	7,128.0	1,767.4	1,286.9	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well KP 24-9 - Slot B4
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 24-9	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	1,625,811.10	2,417,108.30	39° 32' 0.347 N	107° 34' 0.483 W
120.0	0.00	0.00	120.0	0.0	0.0	1,625,811.10	2,417,108.30	39° 32' 0.347 N	107° 34' 0.483 W
Start Build 4.00									
1,181.9	42.48	36.06	1,087.3	303.9	221.3	1,626,109.88	2,417,336.44	39° 32' 3.350 N	107° 33' 57.658 W
Hold 42.48 Inclination									
1,329.3	42.48	36.06	1,196.0	384.4	279.9	1,626,189.00	2,417,396.85	39° 32' 4.145 N	107° 33' 56.911 W
Offset Water Well TD									
1,464.9	42.48	36.06	1,296.0	458.4	333.8	1,626,261.77	2,417,452.41	39° 32' 4.677 N	107° 33' 56.223 W
9 5/8"									
2,749.5	42.48	36.06	2,243.5	1,159.6	844.4	1,626,951.23	2,417,978.84	39° 32' 11.808 N	107° 33' 49.705 W
Start Drop -2.00									
3,833.6	20.79	36.06	3,161.0	1,616.6	1,177.1	1,627,400.49	2,418,321.87	39° 32' 16.324 N	107° 33' 45.458 W
Mesaverde									
4,784.3	1.78	36.06	4,089.0	1,766.3	1,286.1	1,627,547.70	2,418,434.26	39° 32' 17.804 N	107° 33' 44.066 W
UMV_PC									
4,873.3	0.00	0.00	4,178.0	1,767.4	1,286.9	1,627,548.80	2,418,435.10	39° 32' 17.815 N	107° 33' 44.056 W
Top Gas - Approx. Top Gas - Top Gas (25' Radius) KP 24-9									
6,687.3	0.00	0.00	5,992.0	1,767.4	1,286.9	1,627,548.80	2,418,435.10	39° 32' 17.815 N	107° 33' 44.056 W
Upper Sand									
7,323.3	0.00	0.00	6,628.0	1,767.4	1,286.9	1,627,548.80	2,418,435.10	39° 32' 17.815 N	107° 33' 44.056 W
Cameo Coals									
7,573.3	0.00	0.00	6,878.0	1,767.4	1,286.9	1,627,548.80	2,418,435.10	39° 32' 17.815 N	107° 33' 44.056 W
Rollins SS									
7,823.3	0.00	0.00	7,128.0	1,767.4	1,286.9	1,627,548.80	2,418,435.10	39° 32' 17.815 N	107° 33' 44.056 W
TD at 7823.3 - 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									
Top Gas (25' Radius) KF	0.00	0.00	4,178.0	1,767.4	1,286.9	1,627,548.80	2,418,435.10	39° 32' 17.815 N	107° 33' 44.056 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,464.9	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 24-9 - Slot B4
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Project:	Sec. 16-T6S-R01W	MD Reference:	KELLY BUSHING @ 6654.0usft (Cyclone 17 (22' RKB) kjs)
Site:	KP 11-16 Pad	North Reference:	True
Well:	KP 24-9	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 (°)	
1,329.3	1,196.0	Offset Water Well TD				
3,833.6	3,161.0	Mesaverde				
4,784.3	4,089.0	UMV_PC				
4,873.3	4,178.0	Approx. Top Gas				
6,687.3	5,992.0	Upper Sand				
7,323.3	6,626.0	Cameo Coals				
7,573.3	6,878.0	Rollins SS				
7,823.3	7,128.0	TD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.0	120.0	0.0	0.0	Start Build 4.00
1,181.9	1,087.3	303.9	221.3	Hold 42.48 Inclination
2,749.5	2,243.5	1,159.6	844.4	Start Drop -2.00
4,873.3	4,178.0	1,767.4	1,286.9	Top Gas
7,823.3	7,128.0	1,767.4	1,286.9	TD at 7823.3