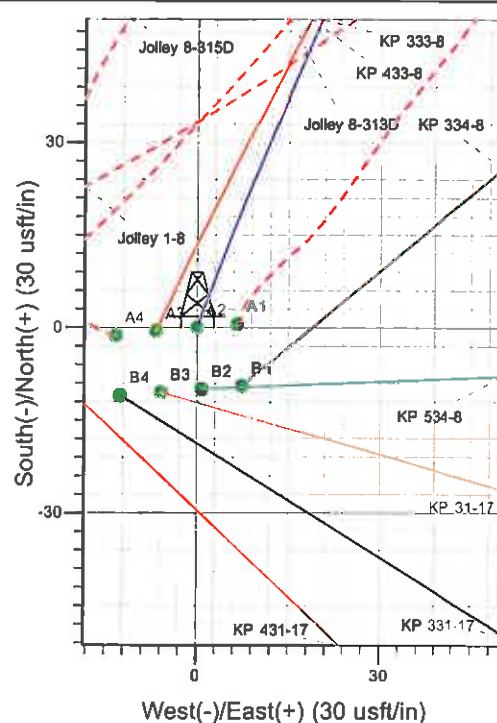
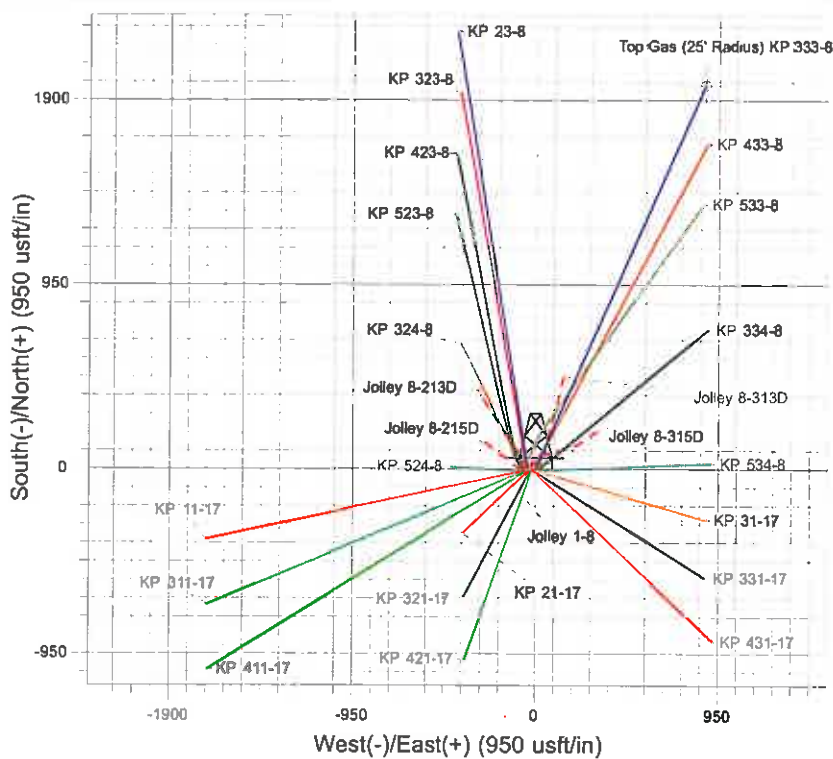
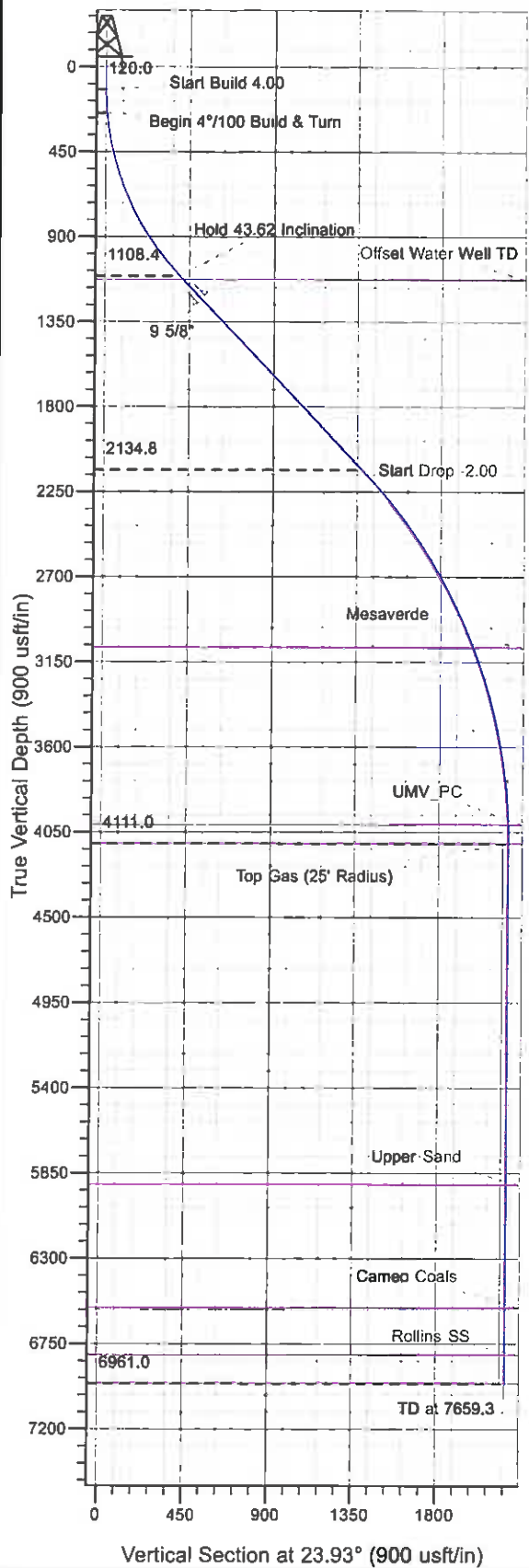




Well Name: KP 333-8
 Surface Location: KP 24-8 Pad
 North American Datum 1983, US State Plane 1983, Colorado Central Zone
 Ground Elevation: 6526.0
 +N/-S 0.0 +E/-W 0.0 Northing 1626664.50 Easting 2413509.50 Latitude 39° 32' 7.967 N Longitude 107° 34' 46.654 W Slot A2
 KELLY BUSHING @ 6548.0usft (Cyclone 17)



Project: Sec. 08-T6S-R91W
 Site: KP 24-8 Pad
 Well: KP 333-8
 Design #1 04May11 kjs

M Azimuths to True North
 Magnetic North: 10.16°
 Magnetic Field
 Strength: 52364.7nT
 Dip Angle: 65.86°
 Date: 5/4/2011
 Model: IGRF200510

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
244.8	245.0	5.00	20.00	5.1	1.9	5.4	5.5	Begin 4 1/100 Build & Turn
1108.4	1210.8	43.62	24.02	362.6	157.8	395.4	395.5	Hold 43.62 Inclination
2134.8	2628.4	43.62	24.02	1255.9	555.8	1373.4	1373.5	Start Drop -2.00
4111.0	4809.3	0.00	0.00	1978.2	877.7	2164.1	2164.2	Top Gas
6961.0	7659.3	0.00	0.00	1978.2	877.7	2164.1	2164.2	TD at 7659.3

KOKOPELLI FIELD

Sec. 08-T6S-R91W

KP 24-8 Pad

KP 333-8 - Slot A2

Wellbore #1

Plan: Design #1 04May11 kjs

Standard Planning Report - Geographic

23 June, 2011

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 333-8 - Slot A2
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6548.0usft (Cyclone 17 ()
Project:	Sec. 08-T6S-R91W	MD Reference:	KELLY BUSHING @ 6548.0usft (Cyclone 17 ()
Site:	KP 24-8 Pad	North Reference:	True
Well:	KP 333-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 04May11 kjs		

Project	Sec. 08-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 24-8 Pad			
Site Position:		Northing:	1,626,664.90 usft	Latitude: 39° 32' 7.973 N
From:	Map	Easting:	2,413,516.10 usft	Longitude: 107° 34' 46.570 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence: -1.312 °

Well	KP 333-8 - Slot A2			
Well Position	+N/-S	0.0 usft	Northing:	1,626,664.50 usft
	+E/-W	0.0 usft	Easting:	2,413,509.50 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	Ground Level: 6,526.0 usft

Wellbore	Wellbore #1			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/4/2011	10.156	65.865	52,365

Design	Design #1 04May11 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	23.93

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	
245.0	5.00	20.00	244.8	5.1	1.9	4.00	4.00	0.00	20.000	
1,210.8	43.62	24.02	1,108.4	362.6	157.8	4.00	4.00	0.42	4.440	
2,628.4	43.62	24.02	2,134.8	1,255.9	555.8	0.00	0.00	0.00	0.000	
4,809.3	0.00	0.00	4,111.0	1,978.2	877.7	2.00	-2.00	0.00	180.000	Top Gas (25' Radius)
7,659.3	0.00	0.00	6,961.0	1,978.2	877.7	0.00	0.00	0.00	0.000	TD / PBHL KP 333-8

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 333-8 - Slot A2
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6548.0usft (Cyclone 17)
Project:	Sec. 08-T6S-R91W	MD Reference:	() KELLY BUSHING @ 6548.0usft (Cyclone 17)
Site:	KP 24-8 Pad	North Reference:	() True
Well:	KP 333-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 04May11 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	1,626,664.50	2,413,509.50	39° 32' 7.967 N	107° 34' 46.654 W
120.0	0.00	0.00	120.0	0.0	0.0	1,626,664.50	2,413,509.50	39° 32' 7.967 N	107° 34' 46.654 W
Start Build 4.00									
245.0	5.00	20.00	244.8	5.1	1.9	1,626,669.57	2,413,511.48	39° 32' 8.018 N	107° 34' 46.630 W
Begin 4"100 Build & Turn									
1,210.8	43.62	24.02	1,108.4	362.6	157.8	1,627,023.37	2,413,675.55	39° 32' 11.551 N	107° 34' 44.640 W
Hold 43.62 Inclination									
1,239.2	43.62	24.02	1,129.0	380.5	165.8	1,627,041.07	2,413,683.93	39° 32' 11.728 N	107° 34' 44.538 W
Offset Water Well TD									
1,377.3	43.62	24.02	1,229.0	467.5	204.5	1,627,127.19	2,413,724.69	39° 32' 12.588 N	107° 34' 44.043 W
9 5/8"									
2,628.4	43.62	24.02	2,134.8	1,255.9	555.8	1,627,907.26	2,414,093.91	39° 32' 20.379 N	107° 34' 39.559 W
Start Drop -2.00									
3,752.5	21.14	24.02	3,078.0	1,802.1	799.2	1,628,447.80	2,414,349.76	39° 32' 25.776 N	107° 34' 36.452 W
Mesaverde									
4,711.2	1.96	24.02	4,013.0	1,976.6	877.0	1,628,620.48	2,414,431.49	39° 32' 27.503 N	107° 34' 35.459 W
UMV_PC									
4,809.3	0.00	0.00	4,111.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
Top Gas - Approx. Top Gas									
6,612.3	0.00	0.00	5,914.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
Upper Sand									
7,260.3	0.00	0.00	6,562.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
Cameo Coals									
7,509.3	0.00	0.00	6,811.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
Rollins SS									
7,659.3	0.00	0.00	6,961.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
TD at 7659.3 - 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	4,111.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
- plan hits target center									
- Circle (radius 25.0)									
TD / PBHL KP 333-8	0.00	0.00	6,961.0	1,978.2	877.7	1,628,622.00	2,414,432.20	39° 32' 27.518 N	107° 34' 35.451 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,377.3	1,229.0	9 5/8"	9.625	12.250	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 333-8 - Slot A2
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 6548.0usft (Cyclone 17)
Project:	Sec. 08-T6S-R91W	MD Reference:	()
Site:	KP 24-8 Pad	North Reference:	KELLY BUSHING @ 6548.0usft (Cyclone 17)
Well:	KP 333-8	Survey Calculation Method:	()
Wellbore:	Wellbore #1		True
Design:	Design #1 04May11 kjs		Minimum Curvature

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,239.2	1,129.0	Offset Water Well TD				
3,752.5	3,078.0	Mesaverde				
4,711.2	4,013.0	UMV_PC				
4,809.3	4,111.0	Approx. Top Gas				
6,612.3	5,914.0	Upper Sand				
7,260.3	6,562.0	Cameo Coals				
7,509.3	6,811.0	Rollins SS				
7,659.3	6,961.0	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	
245.0	244.8	5.1	1.9	Begin 4°/100 Build & Turn	
1,210.8	1,108.4	362.6	157.8	Hold 43.62 Inclination	
2,628.4	2,134.8	1,255.9	555.8	Start Drop -2.00	
4,809.3	4,111.0	1,978.2	877.7	Top Gas	
7,659.3	6,961.0	1,978.2	877.7	TD at 7659.3	