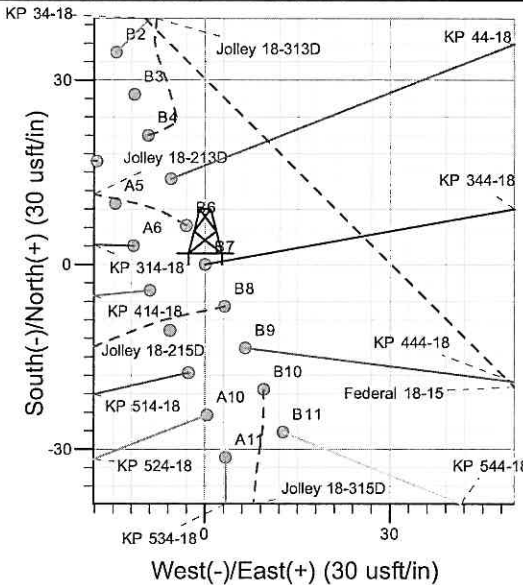
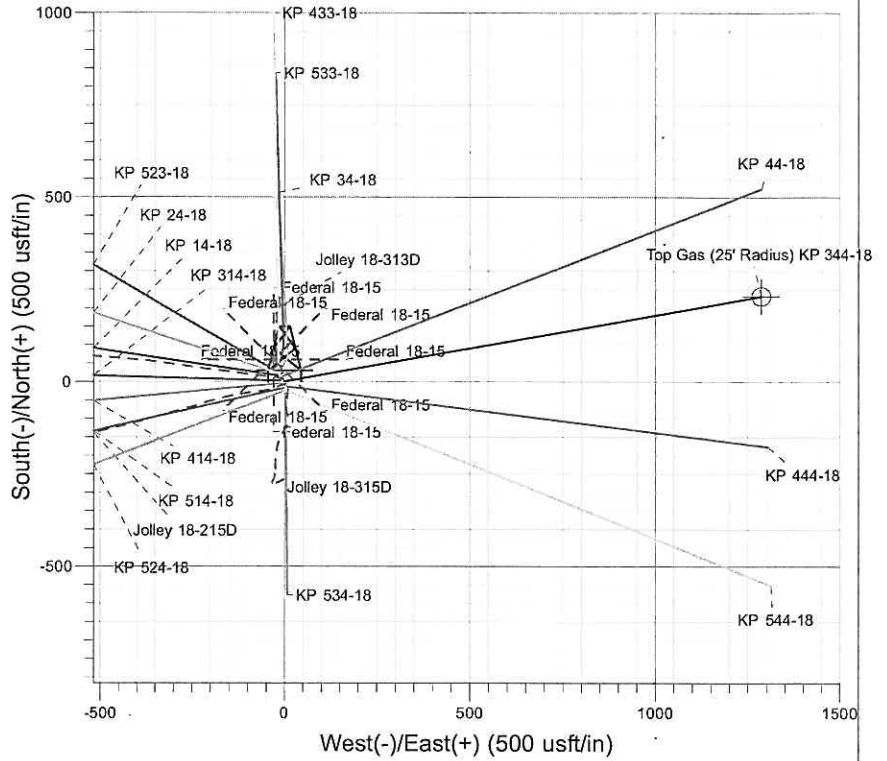
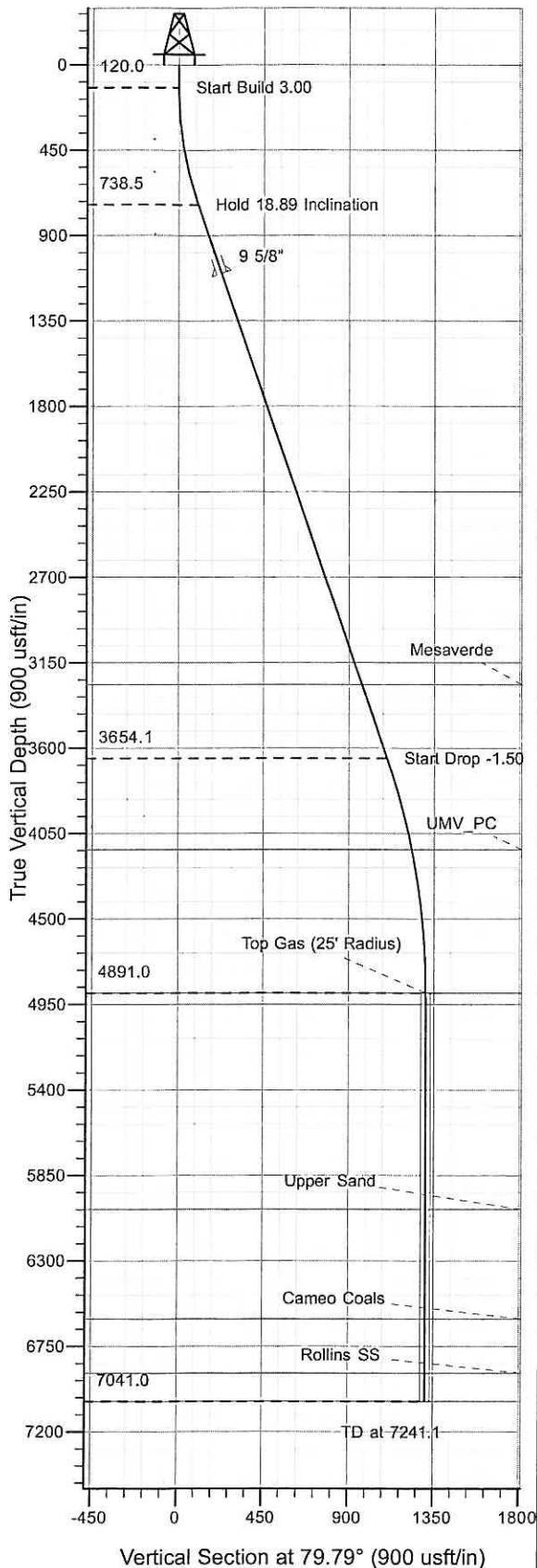




18-65-91W

Well Name: KP 344-18
Surface Location: KP 34-18 Pad
North American Datum 1983, US State Plane 1983, Colorado Central Zone
Ground Elevation: 5919.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1621914.50 2409154.00 39° 31' 20.044 N 107° 35' 40.835 W B7
KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)



Project: Sec. 18-T6S-R91W
Site: KP 34-18 Pad
Well: KP 344-18
Design #1 07Dec09 kjs

T M Azimuths to True North
Magnetic North: 10.35°
Magnetic Field
Strength: 52498.3nT
Dip Angle: 65.89°
Date: 12/7/2009
Model: IGRF2005-10

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 3.00
738.5	749.8	18.89	79.79	18.2	101.3	102.9	102.9	Hold 18.89 Inclination
3654.1	3831.5	18.89	79.79	195.2	1083.4	1100.8	1100.8	Start Drop -1.50
4891.0	5091.1	0.00	0.00	231.7	1285.9	1306.7	1306.7	Top Gas
7041.0	7241.1	0.00	0.00	231.7	1285.9	1306.7	1306.7	TD at 7241.1

KOKOPELLI FIELD

Sec. 18-T6S-R91W

KP 34-18 Pad

KP 344-18 - Slot B7

Wellbore #1

Plan: Design #1 07Dec09 kjs

Standard Planning Report - Geographic

14 January, 2010

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 344-18 - Slot B7
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 34-18 Pad	North Reference:	True
Well:	KP 344-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Dec09 kjs		

Project	Sec. 18-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 34-18 Pad			
Site Position:		Northing:	1,621,893.85 usft	Latitude:	39° 31' 19.842 N
From:	Map	Easting:	2,409,163.01 usft	Longitude:	107° 35' 40.714 W
Position Uncertainty:	0.0 usft	Slot Radius:	0 "	Grid Convergence:	-1.32 °

Well	KP 344-18 - Slot B7					
Well Position	+N/-S	0.0 usft	Northing:	1,621,914.50 usft	Latitude:	39° 31' 20.044 N
	+E/-W	0.0 usft	Easting:	2,409,154.00 usft	Longitude:	107° 35' 40.835 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,919.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/7/2009	10.35	65.89	52,498

Design	Design #1 07Dec09 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	79.79

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	
749.8	18.89	79.79	738.5	18.2	101.3	3.00	3.00	0.00	79.79	
3,831.5	18.89	79.79	3,654.1	195.2	1,083.4	0.00	0.00	0.00	0.00	
5,091.1	0.00	0.00	4,891.0	231.7	1,285.9	1.50	-1.50	0.00	180.00	Top Gas (25' Radius)
7,241.1	0.00	0.00	7,041.0	231.7	1,285.9	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 344-18 - Slot B7
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 34-18 Pad	North Reference:	True
Well:	KP 344-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Dec09 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	1,621,914.50	2,409,154.00	39° 31' 20.044 N	107° 35' 40.835 W	
120.0	0.00	0.00	120.0	0.0	0.0	1,621,914.50	2,409,154.00	39° 31' 20.044 N	107° 35' 40.835 W	
Start Build 3.00										
749.8	18.89	79.79	738.5	18.2	101.3	1,621,930.41	2,409,255.67	39° 31' 20.224 N	107° 35' 39.543 W	
Hold 18.89 Inclination										
1,131.9	18.89	79.79	1,100.0	40.2	223.1	1,621,949.54	2,409,377.92	39° 31' 20.441 N	107° 35' 37.989 W	
9 5/8"										
3,419.2	18.89	79.79	3,264.0	171.5	952.0	1,622,064.04	2,410,109.67	39° 31' 21.739 N	107° 35' 28.687 W	
Mesaverde										
3,831.5	18.89	79.79	3,654.1	195.2	1,083.4	1,622,084.68	2,410,241.56	39° 31' 21.973 N	107° 35' 27.010 W	
Start Drop -1.50										
4,330.1	11.42	79.79	4,135.0	218.3	1,211.6	1,622,104.82	2,410,370.25	39° 31' 22.202 N	107° 35' 25.374 W	
UMV_PC										
5,091.1	0.00	0.00	4,891.0	231.7	1,285.9	1,622,116.50	2,410,444.90	39° 31' 22.334 N	107° 35' 24.425 W	
Top Gas - Approx. Top Gas										
6,229.1	0.00	0.00	6,029.0	231.7	1,285.9	1,622,116.50	2,410,444.90	39° 31' 22.334 N	107° 35' 24.425 W	
Upper Sand										
6,806.1	0.00	0.00	6,606.0	231.7	1,285.9	1,622,116.50	2,410,444.90	39° 31' 22.334 N	107° 35' 24.425 W	
Cameo Coals										
7,091.1	0.00	0.00	6,891.0	231.7	1,285.9	1,622,116.50	2,410,444.90	39° 31' 22.334 N	107° 35' 24.425 W	
Rollins SS										
7,241.1	0.00	0.00	7,041.0	231.7	1,285.9	1,622,116.50	2,410,444.90	39° 31' 22.334 N	107° 35' 24.425 W	
TD at 7241.1 - 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										
Top Gas (25' Radius) KF	0.00	0.00	4,891.0	231.7	1,285.9	1,622,116.50	2,410,444.90	39° 31' 22.334 N	107° 35' 24.425 W	
- plan hits target center										
- Circle (radius 25.0)										

Casing Points							Casing Diameter (")	Hole Diameter (")
Measured Depth (usft)	Vertical Depth (usft)	Name						
1,131.9	1,100.0	9 5/8"					9-5/8	12-1/4

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well KP 344-18 - Slot B7
Company:	KOKOPELLI FIELD	TVD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Project:	Sec. 18-T6S-R91W	MD Reference:	KELLY BUSHING @ 5942.0usft (Cyclone 30 (23' RKB) kjs)
Site:	KP 34-18 Pad	North Reference:	True
Well:	KP 344-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Dec09 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,419.2	3,264.0	Mesaverde				
4,330.1	4,135.0	UMV_PC				
5,091.1	4,891.0	Approx. Top Gas				
6,229.1	6,029.0	Upper Sand				
6,806.1	6,606.0	Cameo Coals				
7,091.1	6,891.0	Rollins SS				
7,241.1	7,041.0	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	
749.8	738.5	18.2	101.3	Hold 18.89 Inclination	
3,831.5	3,654.1	195.2	1,083.4	Start Drop -1.50	
5,091.1	4,891.0	231.7	1,285.9	Top Gas	
7,241.1	7,041.0	231.7	1,285.9	TD at 7241.1	