

BOPCO

Sec 3 T1N R98W

Yellow Creek Federal 3-34-0364 Pad

YCF 3-34-0364

Wellbore #1

Plan: 20° Max, Plan #2

Standard Planning Report - Geographic

13 January, 2011

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well YCF 3-34-0364
Company:	BOPCO	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Project:	Sec 3 T1N R98W	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Yellow Creek Federal 3-34-0364 Pad	North Reference:	True
Well:	YCF 3-34-0364	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	20° Max, Plan #2		

Project	Sec 3 T1N R98W, Rio Blanco County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Yellow Creek Federal 3-34-0364 Pad		
Site Position:		Northing:	382,251.05 m
From:	Lat/Long	Easting:	669,027.40 m
Position Uncertainty:	0.0 ft	Slot Radius:	in
		Latitude:	39° 59' 42.300 N
		Longitude:	108° 22' 25.810 W
		Grid Convergence:	-1.86 °

Well	YCF 3-34-0364		
Well Position	+N/-S	0.0 ft	Northing: 382,251.05 m
	+E/-W	0.0 ft	Easting: 669,027.40 m
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	39° 59' 42.300 N
		Longitude:	108° 22' 25.810 W
		Ground Level:	0.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.76	66.13	52,695

Design	20° Max, Plan #2				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	354.36	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
936.0	0.00	0.00	936.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,936.0	20.00	354.36	1,915.8	171.9	-17.0	2.00	2.00	0.00	354.36	
5,955.6	20.00	354.36	5,693.0	1,540.1	-152.1	0.00	0.00	0.00	0.00	
7,288.9	0.00	0.00	6,999.4	1,769.3	-174.7	1.50	-1.50	0.00	180.00	
12,543.5	0.00	0.00	12,254.0	1,769.3	-174.7	0.00	0.00	0.00	0.00	

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Project:	Sec 3 T1N R98W	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Yellow Creek Federal 3-34-0364 Pad	North Reference:	True
Well:	YCF 3-34-0364	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	20° Max, Plan #2		

Planned Survey

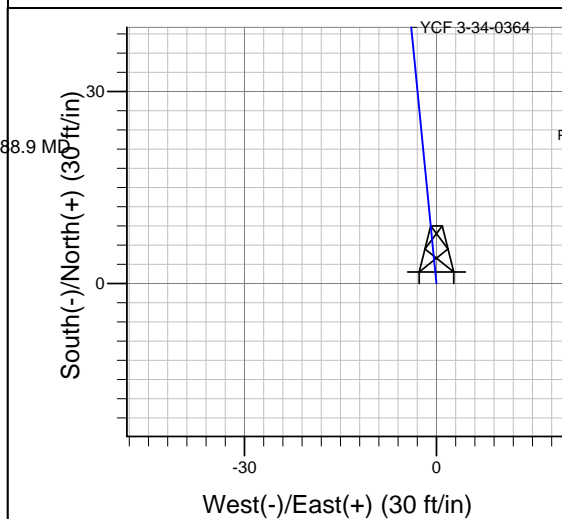
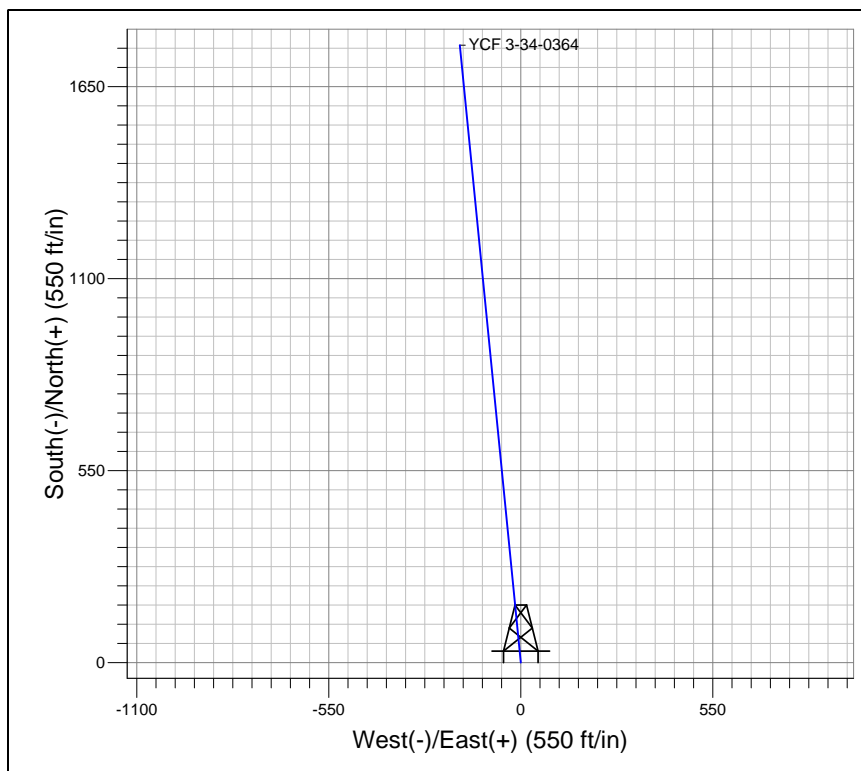
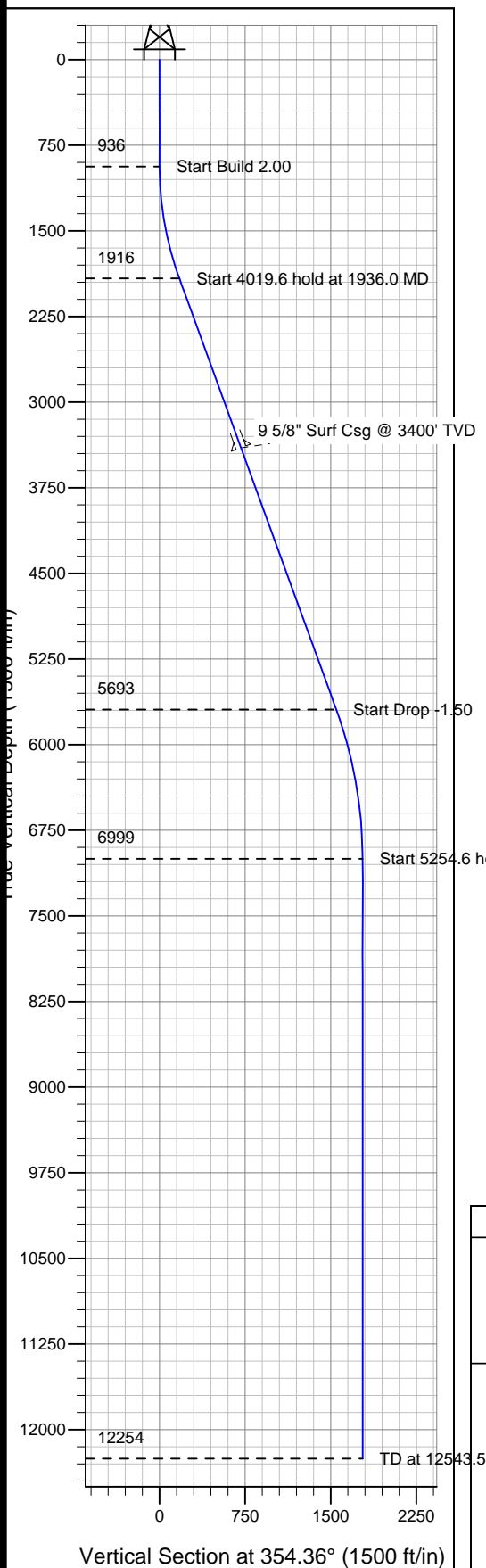
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	382,251.05	669,027.40	39° 59' 42.300 N	108° 22' 25.810 W
936.0	0.00	0.00	936.0	0.0	0.0	382,251.05	669,027.40	39° 59' 42.300 N	108° 22' 25.810 W
1,936.0	20.00	354.36	1,915.8	171.9	-17.0	382,303.59	669,023.93	39° 59' 43.999 N	108° 22' 26.028 W
3,515.4	20.00	354.36	3,400.0	709.5	-70.1	382,467.88	669,013.07	39° 59' 49.312 N	108° 22' 26.710 W
9 5/8" Surf Csg @ 3400' TVD									
5,955.6	20.00	354.36	5,693.0	1,540.1	-152.1	382,721.70	668,996.29	39° 59' 57.519 N	108° 22' 27.764 W
7,089.4	2.99	354.36	6,800.0	1,764.1	-174.2	382,790.17	668,991.76	39° 59' 59.733 N	108° 22' 28.048 W
7,288.9	0.00	0.00	6,999.4	1,769.3	-174.7	382,791.76	668,991.65	39° 59' 59.785 N	108° 22' 28.055 W
10,489.5	0.00	0.00	10,200.0	1,769.3	-174.7	382,791.76	668,991.65	39° 59' 59.785 N	108° 22' 28.055 W
12,543.5	0.00	0.00	12,254.0	1,769.3	-174.7	382,791.76	668,991.65	39° 59' 59.785 N	108° 22' 28.055 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,515.4	3,400.0	9 5/8" Surf Csg @ 3400' TVD	9.625	17.750

Well Name: YCF 3-34-0364
 Surface Location: Yellow Creek Federal 3-34-0364 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 0.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 382251.05 669027.40 39° 59' 42.300 N 108° 22' 25.810 W



Project: Sec 3 T1N R98W
 Site: Yellow Creek Federal 3-34-0364 Pad
 Well: YCF 3-34-0364
 Wellbore: Wellbore #1
 Plan: 20° Max, Plan #2 (YCF 3-34-0364/Wellbore #1)



Azimuths to True North
 Magnetic North: 10.76°

Magnetic Field
 Strength: 52694.7nT
 Dip Angle: 66.13°
 Date: 12/31/2009
 Model: IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	936.0	0.00	0.00	936.0	0.0	0.0	0.00	0.00	0.0	
3	1936.0	20.00	354.36	1915.8	171.9	-17.0	2.00	354.36	172.8	
4	5955.6	20.00	354.36	5693.0	1540.1	-152.1	0.00	0.00	1547.5	
5	7288.9	0.00	0.00	6999.4	1769.3	-174.7	1.50	180.00	1777.9	
6	12543.5	0.00	0.00	12254.0	1769.3	-174.7	0.00	0.00	1777.9	

No annotation data is available.