

# **Bass**

**Sec 2 T1S R98W**

**Yellow Creek Federal XOM 2-22 Pad**

**YCF 2-22-0216**

**Wellbore #1**

**Plan: Plan #1**

## **Survey Report - Geographic**

**23 May, 2008**

# New Tech

## Survey Report - Geographic

<b>Company:</b>	Bass	<b>Local Co-ordinate Reference:</b>	Well YCF 2-22-0216
<b>Project:</b>	Sec 2 T1S R98W	<b>TVD Reference:</b>	WELL @ 6335.0ft (Original Well Elev)
<b>Site:</b>	Yellow Creek Federal XOM 2-22 Pad	<b>MD Reference:</b>	WELL @ 6335.0ft (Original Well Elev)
<b>Well:</b>	YCF 2-22-0216	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM 2003.16 Single User Db

<b>Project</b>	Sec 2 T1S R98W, Rio Blanco County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site	Yellow Creek Federal XOM 2-22 Pad				
Site Position:		Northing:	1,256,189.47 ft	Latitude:	40° 0' 4.130 N
From:	Lat/Long	Easting:	2,198,757.56 ft	Longitude:	108° 21' 38.000 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-1.85 °

Well	YCF 2-22-0216					
Well Position	+N-S	0.0 ft	Northing:	1,256,196.96 ft	Latitude:	40° 0' 4.190 N
	+E-W	0.0 ft	Easting:	2,198,713.42 ft	Longitude:	108° 21' 38.570 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,310.0ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	9/24/2007	11.05	66.19	52,869

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	225.55	

<b>Survey Tool Program</b>	<b>Date</b>	5/23/2008			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	12,687.5	Plan #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Planned Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Map Northing (ft)</b>	<b>Map Easting (ft)</b>	<b>Latitude</b>	<b>Longitude</b>	
0.0	0.00	0.00	0.0	0.0	0.0	1,256,196.96	2,198,713.42	40° 0' 4.190 N	108° 21' 38.570 W	
120.0	0.00	0.00	120.0	0.0	0.0	1,256,196.96	2,198,713.42	40° 0' 4.190 N	108° 21' 38.570 W	
984.9	17.30	225.55	971.9	-90.7	-92.5	1,256,109.26	2,198,618.03	40° 0' 3.293 N	108° 21' 39.759 W	
6,667.3	17.30	225.55	6,397.2	-1,273.9	-1,298.8	1,254,965.65	2,197,374.28	39° 59' 51.600 N	108° 21' 55.258 W	
7,820.5	0.00	0.00	7,533.0	-1,394.9	-1,422.1	1,254,848.71	2,197,247.10	39° 59' 50.405 N	108° 21' 56.843 W	
12,687.5	0.00	0.00	12,400.0	-1,394.9	-1,422.1	1,254,848.71	2,197,247.10	39° 59' 50.405 N	108° 21' 56.843 W	

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## Survey Report - Geographic

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<b>Site:</b>	Yellow Creek Federal XOM 2-22 Pad	<b>MD Reference:</b>	WELL @ 6335.0ft (Original Well Elev)
<b>Well:</b>	YCF 2-22-0216	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM 2003.16 Single User Db

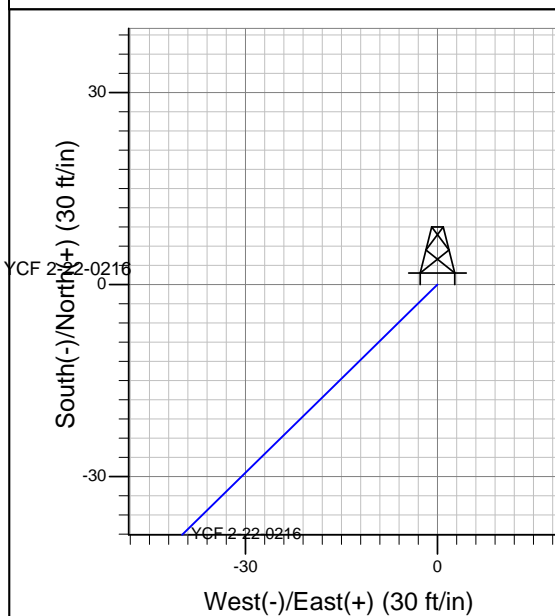
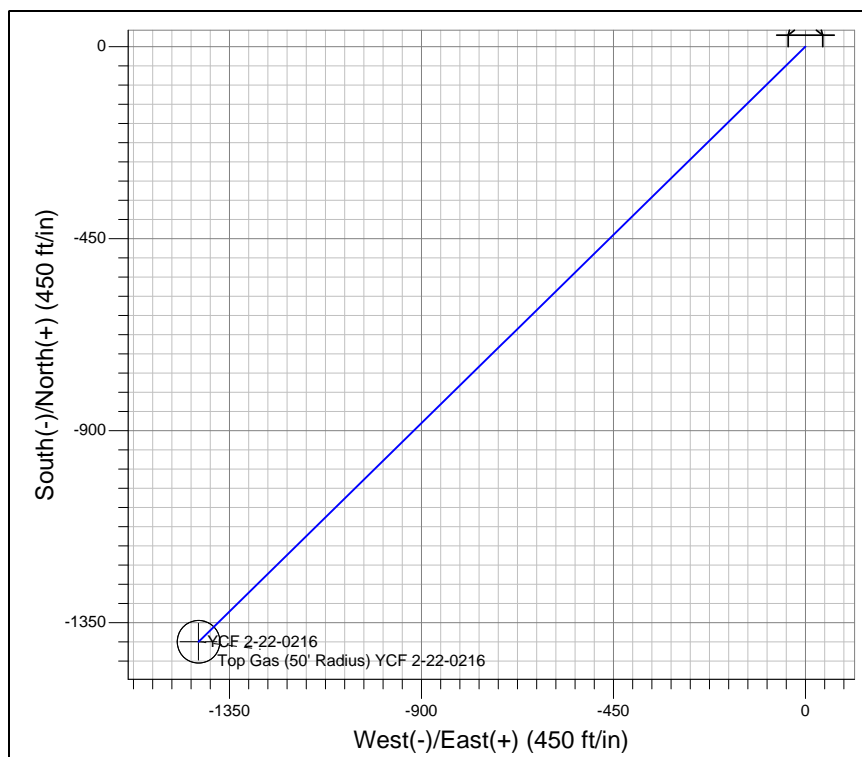
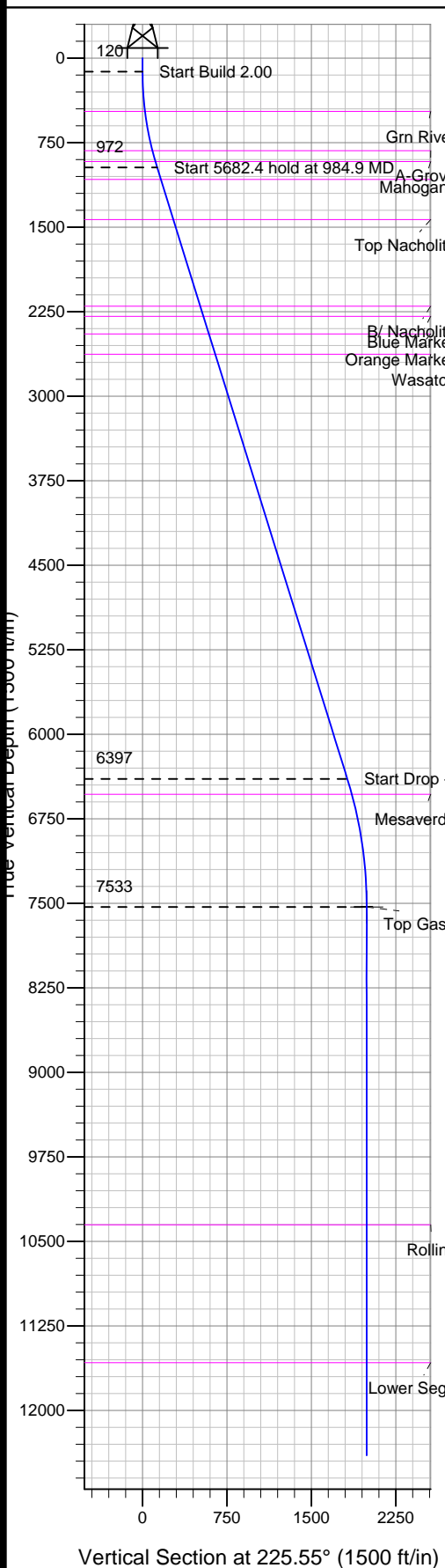
Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Top Gas (50' Radius)	0.00	0.00	7,533.0	-1,394.9	-1,422.1	1,254,848.71	2,197,247.10	39° 59' 50.405 N	108° 21' 56.843 W
- plan hits target									
- Circle (radius 50.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,467.9	1,433.0	Top Nacholite				
10,640.5	10,353.0	Rollins				
6,808.8	6,533.0	Mesaverde				
928.7	918.0	Mahogany				
2,719.5	2,628.0	Wasatch				
2,274.4	2,203.0	B/ Nacholite				
2,531.0	2,448.0	Orange Marker				
473.9	473.0	Grn River				
830.3	823.0	A-Grove				
1,096.1	1,078.0	B-Grove				
11,865.5	11,578.0	Lower Sego				
2,368.7	2,293.0	Blue Marker				

Checked By: _____	Approved By: _____	Date: _____
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Well Name: YCF 2-22-0216  
Surface Location: Yellow Creek Federal XOM 2-22 Pad  
North American Datum 1983 , US State Plane 1983 Colorado Northern Zone  
Ground Elevation: 6310.0  
+N/-S/E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0256196.92198713.4240° 0' 4.19008° 21' 38.570 W



Project: Sec 2 T1S R98W  
Site: Yellow Creek Federal XOM 2-22 Pad  
Well: YCF 2-22-0216  
Plan: Plan #1

Azimuths to True North  
Magnetic North: 11.05°  
Magnetic Field  
Strength: 52869.2snT  
Dip Angle: 66.19°  
Date: 9/24/2007  
Model: IGRF200510

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
473.0	473.9	Grn River
823.0	830.3	A-Grove
918.0	928.7	Mahogany
1078.0	1096.1	B-Grove
1433.0	1467.9	Top Nacholite
2203.0	2274.4	B/ Nacholite
2293.0	2368.7	Blue Marker
2448.0	2531.0	Orange Marker
2628.0	2719.5	Wasatch
6533.0	6808.8	Mesaverde
10353.0	10640.5	Rollins
11578.0	11865.5	Lower Sego

#### 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	120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.0	
3	984.9	17.30	225.55	971.9	-90.7	-92.5	2.00	225.55	129.6	
4	6667.3	17.30	225.55	6397.2	-1273.9	-1298.8	0.00	0.00	1819.2	
5	7820.5	0.00	0.00	7533.0	-1394.9	-1422.1	1.50	180.00	1992.0	Top Gas (50' Radius) YCF 2-22-0216

No annotation data is available.