

Bass

Sec 2 T1S R98W

Yellow Creek Federal XOM 2-22 Pad

YCF 2-22-0242

Wellbore #1

Plan: Plan #1

Survey Report - Geographic

23 May, 2008

New Tech

Survey Report - Geographic

Company:	Bass	Local Co-ordinate Reference:	Well YCF 2-22-0242
Project:	Sec 2 T1S R98W	TVD Reference:	WELL @ 6335.0ft (Original Well Elev)
Site:	Yellow Creek Federal XOM 2-22 Pad	MD Reference:	WELL @ 6335.0ft (Original Well Elev)
Well:	YCF 2-22-0242	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User Db

Project	Sec 2 T1S R98W, Rio Blanco County, CO		
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 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 2-22-0242					
Well Position	+N-S	0.0 ft	Northing:	1,256,197.92 ft	Latitude:	40° 0' 4.216 N
	+E-W	0.0 ft	Easting:	2,198,766.58 ft	Longitude:	108° 21' 37.888 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,310.0 ft

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

Design	Plan #1			
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	18.98

Survey Tool Program	Date	5/8/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,434.7	Plan #1 (Wellbore #1)	MWD	MWD - Standard

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	1,256,197.92	2,198,766.58	40° 0' 4.216 N	108° 21' 37.888 W	
120.0	0.00	0.00	120.0	0.0	0.0	1,256,197.92	2,198,766.58	40° 0' 4.216 N	108° 21' 37.888 W	
561.6	8.83	18.98	559.9	32.1	11.0	1,256,229.67	2,198,778.66	40° 0' 4.534 N	108° 21' 37.746 W	
7,024.9	8.83	18.98	6,946.5	970.6	333.8	1,257,157.22	2,199,131.45	40° 0' 13.808 N	108° 21' 33.599 W	
7,613.7	0.00	0.00	7,533.0	1,013.4	348.5	1,257,199.56	2,199,147.56	40° 0' 14.231 N	108° 21' 33.409 W	
12,434.7	0.00	0.00	12,354.0	1,013.4	348.5	1,257,199.56	2,199,147.56	40° 0' 14.231 N	108° 21' 33.409 W	

New Tech

Survey Report - Geographic

Company:	Bass	Local Co-ordinate Reference:	Well YCF 2-22-0242
Project:	Sec 2 T1S R98W	TVD Reference:	WELL @ 6335.0ft (Original Well Elev)
Site:	Yellow Creek Federal XOM 2-22 Pad	MD Reference:	WELL @ 6335.0ft (Original Well Elev)
Well:	YCF 2-22-0242	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User Db

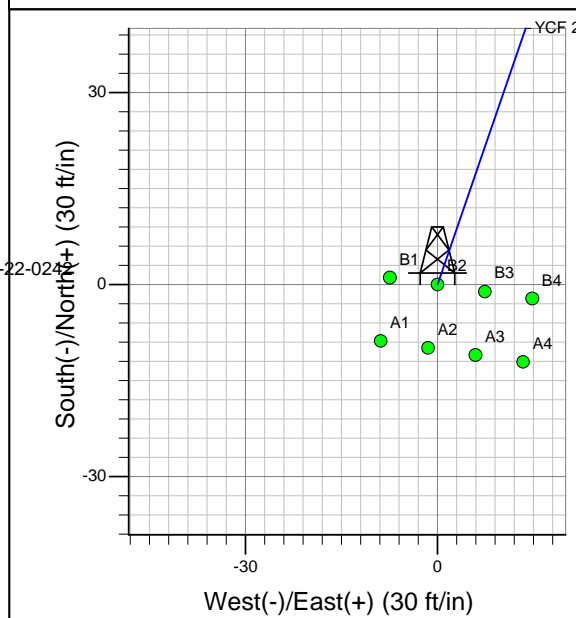
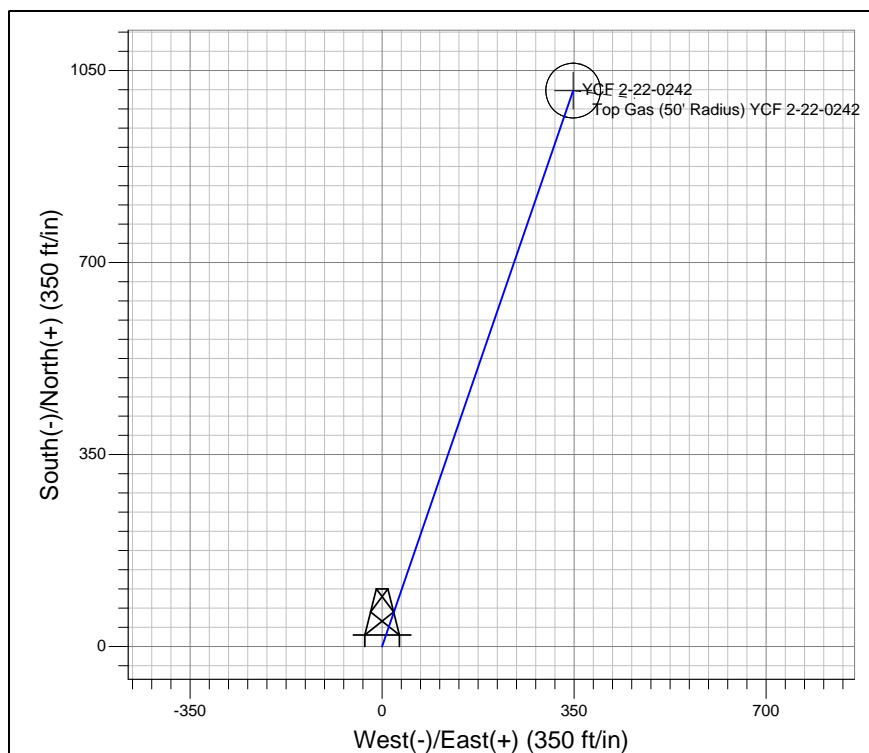
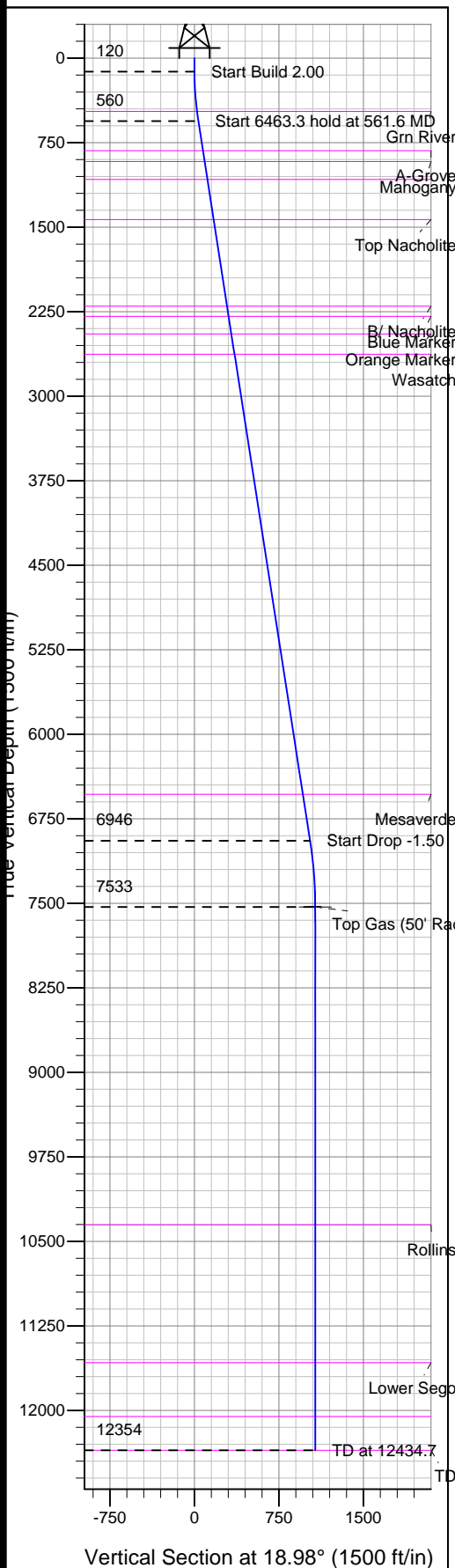
Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Top Gas (50' Radius)	0.00	0.00	7,533.0	1,013.4	348.5	1,257,199.56	2,199,147.56	40° 0' 14.231 N	108° 21' 33.409 W
- plan hits target									
- Circle (radius 50.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
2,224.5	2,203.0	B/ Nacholite				
473.9	473.0	Grn River				
2,654.6	2,628.0	Wasatch				
924.0	918.0	Mahogany				
10,433.7	10,353.0	Rollins				
12,134.7	12,054.0	Castlegate		0.00		
6,606.4	6,533.0	Mesaverde				
11,658.7	11,578.0	Lower Sego				
12,434.7	12,354.0	TD		0.00		
1,086.0	1,078.0	B-Grove				
1,445.2	1,433.0	Top Nacholite				
827.9	823.0	A-Grove				
2,315.5	2,293.0	Blue Marker				
2,472.4	2,448.0	Orange Marker				

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Well Name: YCF 2-22-0242
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/-SE/-W Northing Easting Latitude Longitude Slot
0.0 0.0256197.92198766.5840° 0' 4.21608° 21' 37.888 W



Project: Sec 2 T1S R98W
Site: Yellow Creek Federal XOM 2-22 Pad
Well: YCF 2-22-0242
Plan: Plan #1

Azimuths to True North
Magnetic North: 11.05°
Magnetic Field
Strength: 52869.3snT
Dip Angle: 66.19°
Date: 9/24/2007
Model: IGRF200510

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
473.0	473.9	Grn River
823.0	827.9	A-Grove
918.0	924.0	Mahogany
1078.0	1086.0	B-Grove
1433.0	1445.2	Top Nacholite
2203.0	2224.5	B/ Nacholite
2293.0	2315.5	Blue Marker
2448.0	2472.4	Orange Marker
2628.0	2654.6	Wasatch
6533.0	6606.4	Mesaverde
10353.0	10433.7	Rollins
11578.0	11658.7	Lower Sego
12054.0	12134.7	Castlegate
12354.0	12434.7	TD

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1	120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.0	
2	561.6	8.83	18.98	559.9	32.1	11.0	2.00	18.98	34.0	
3	7024.9	8.83	18.98	6946.5	970.6	333.8	0.00	0.00	1026.4	
4	7613.7	0.00	0.00	7533.0	1013.4	348.5	1.50	180.00	1071.7	Top Gas (50' Radius) YCF 2-22-0242
5	12434.7	0.00	0.00	12354.0	1013.4	348.5	0.00	0.00	1071.7	

No annotation data is available.