

Noble Energy

Weld County, CO (NAD 83)

Sec. 10, T11N, R64W

BEVJAC ZP 10-1H

Plan A - Rev 0 (PERMITTING PLAN ONLY)

Plan: Plan A - Rev0 Proposal

Standard Planning Report

07 June, 2011

Halliburton Company

Planning Report

Database:	Noble Database	Local Co-ordinate Reference:	Well BEVJAC ZP 10-1H
Company:	Noble Energy	TVD Reference:	WELL @ 5456.0ft (Original Well Elev)
Project:	Weld County, CO (NAD 83)	MD Reference:	WELL @ 5456.0ft (Original Well Elev)
Site:	Sec. 10, T11N, R64W	North Reference:	Grid
Well:	BEVJAC ZP 10-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A - Rev 0 (PERMITTING PLAN ONLY)		
Design:	Plan A - Rev0 Proposal		

Project	Weld County, CO (NAD 83)		
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	Sec. 10, T11N, R64W		
Site Position:		Northing:	483,796.24 m
From:	Lat/Long	Easting:	995,118.38 m
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	40° 56' 29.220 N
		Longitude:	104° 32' 29.364 W
		Grid Convergence:	0.62 °

Well	BEVJAC ZP 10-1H		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
			Latitude:
			Longitude:
Position Uncertainty	0.0 ft	Wellhead Elevation:	Ground Level:
			5,432.0 ft

Wellbore	Plan A - Rev 0 (PERMITTING PLAN ONLY)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/9/2011	8.83	67.53	53,460

Design	Plan A - Rev0 Proposal			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	140.59

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	
7,006.3	0.00	0.00	7,006.3	0.0	0.0	0.00	0.00	0.00	0.00	
8,085.0	85.00	140.59	7,730.6	-512.8	421.4	7.88	7.88	0.00	140.59	
8,160.0	85.00	140.59	7,737.2	-570.5	468.8	0.00	0.00	0.00	0.00	
8,223.4	90.00	140.59	7,739.9	-619.5	509.0	7.88	7.88	0.00	0.00	
12,745.5	90.00	140.59	7,740.0	-4,113.4	3,379.9	0.00	0.00	0.00	143.86	BEVJAC ZP 10-1H_P

Halliburton Company

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Design:	Plan A - Rev0 Proposal		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
7,006.3	0.00	0.00	7,006.3	0.0	0.0	0.0	0.00	0.00	0.00
8,085.0	85.00	140.59	7,730.6	-512.8	421.4	663.7	7.88	7.88	0.00
8,160.0	85.00	140.59	7,737.2	-570.5	468.8	738.4	0.00	0.00	0.00
8,223.4	90.00	140.59	7,739.9	-619.5	509.0	801.8	7.88	7.88	0.00
12,745.5	90.00	140.59	7,740.0	-4,113.4	3,379.9	5,323.9	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
- hit/miss target									
- Shape									
BEVJAC ZP 10-1H_Sec	0.00	0.01	0.0	0.0	0.0	483,796.24	995,118.38	40° 56' 29.220 N	104° 32' 29.364 W
- plan hits target center									
- Polygon									
Point 1			0.0	-7.2	162.6	483,794.04	995,167.94		
Point 2			0.0	83.9	4,305.0	483,821.70	996,430.58		
Point 3			0.0	-4,149.9	4,870.5	482,531.18	996,602.84		
Point 4			0.0	-4,204.1	776.3	482,514.77	995,354.89		
Point 5			0.0	-7.2	162.6	483,794.04	995,167.94		
BEVJAC ZP 10-1H_Sec	0.00	0.01	0.0	0.0	0.0	483,796.24	995,118.38	40° 56' 29.220 N	104° 32' 29.364 W
- plan hits target center									
- Polygon									
Point 1			0.0	592.8	-437.4	483,976.94	994,985.07		
Point 2			0.0	683.9	4,905.0	484,004.57	996,613.48		
Point 3			0.0	-4,749.9	5,470.5	482,348.28	996,785.71		
Point 4			0.0	-4,804.1	176.3	482,331.90	995,171.99		
Point 5			0.0	592.8	-437.4	483,976.94	994,985.07		
BEVJAC ZP 10-1H_Plar	0.00	0.00	7,740.0	-4,113.4	3,379.9	482,542.45	996,148.60	40° 55' 48.216 N	104° 31' 45.912 W
- plan hits target center									
- Circle (radius 50.0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
8,079.7	7,730.2	7" Csg	7.000	7.500

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,429.0	1,429.0	Base Fox Hills		0.00	
4,488.0	4,488.0	Parkman		0.00	
7,755.9	7,630.0	Top_Nio		0.00	
8,123.6	7,734.0	Top_LowerB_Target		0.00	

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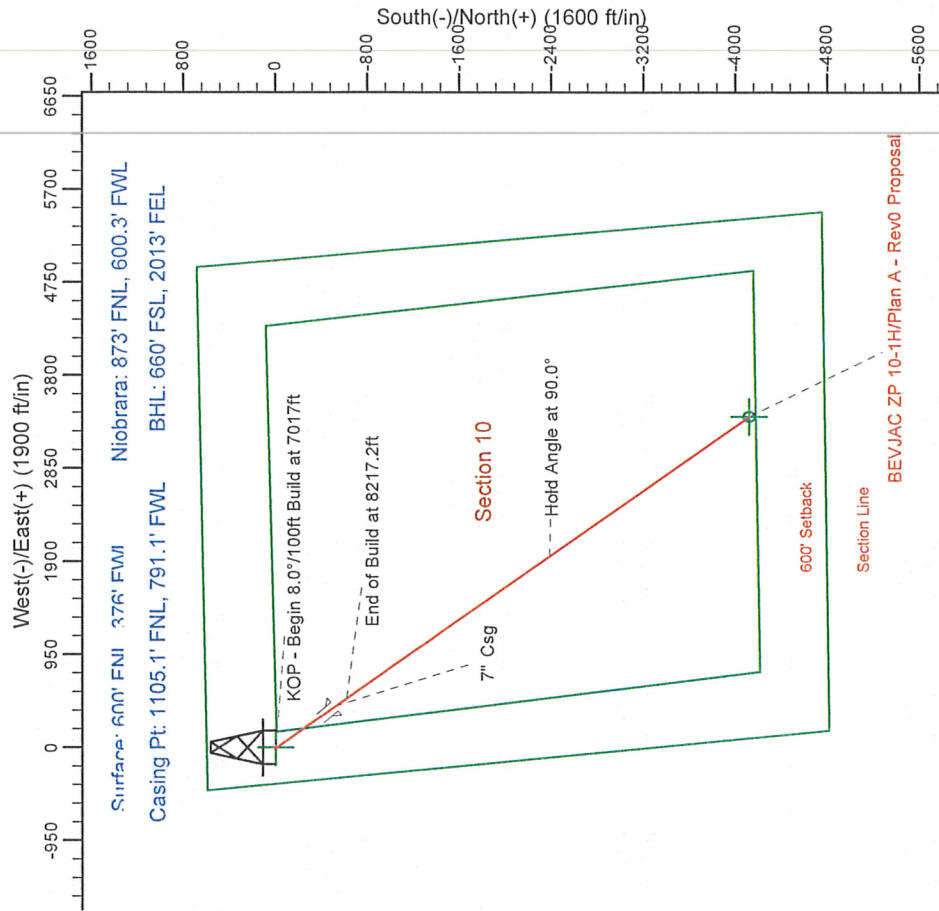
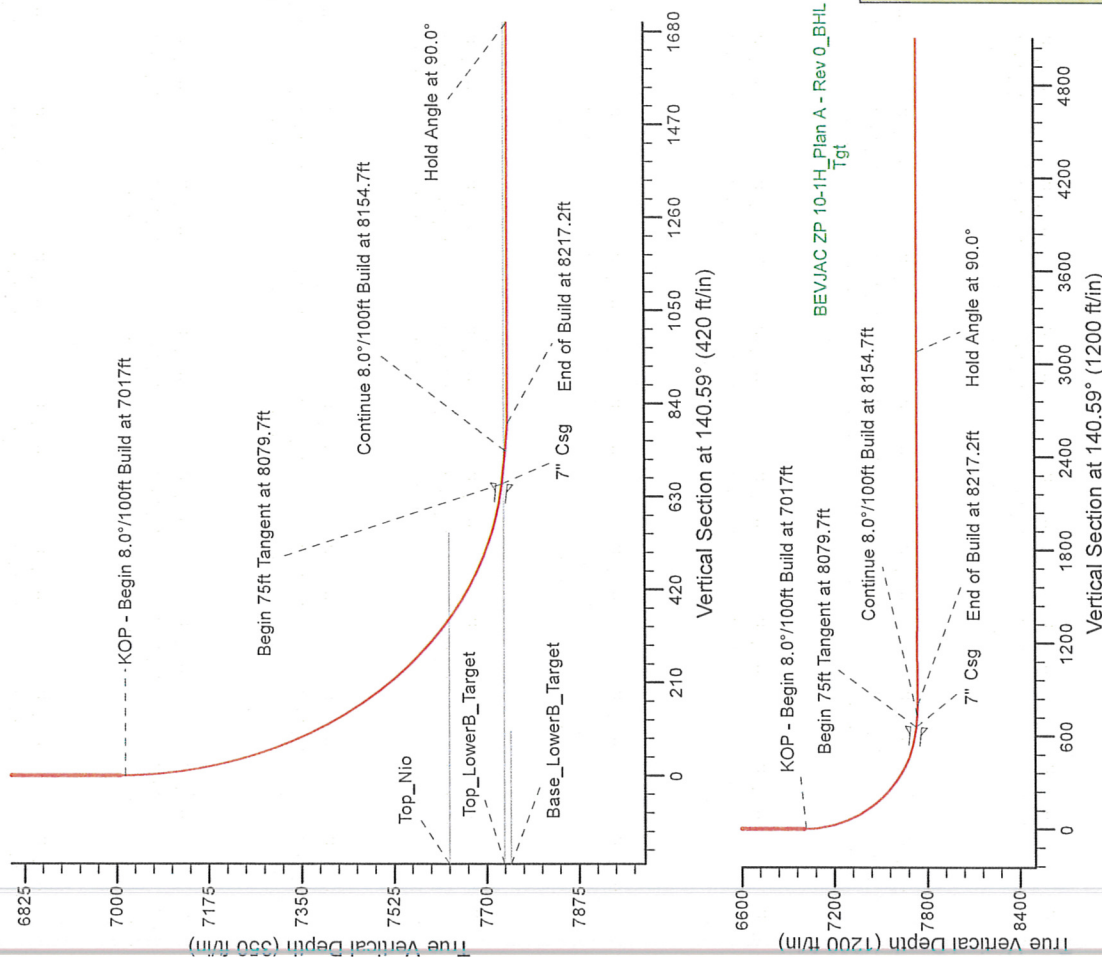
Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,017.0	7,017.0	0.0	0.0	KOP - Begin 8.0°/100ft Build at 7017ft
8,079.7	7,730.7	-505.1	415.1	Begin 75ft Tangent at 8079.7ft
8,154.7	7,737.2	-562.8	462.5	Continue 8.0°/100ft Build at 8154.7ft
8,217.2	7,739.9	-611.1	502.1	End of Build at 8217.2ft
10,500.0	7,740.0	-2,374.8	1,951.4	Hold Angle at 90.0°
12,749.0	7,740.0	-4,112.5	3,379.2	Total Depth at 12750.1ft

HALLIBURTON
Sperry Drilling

Project: Weld County, CO (NAD 83)
Site: Sec. 10, T11N, R64W
Well: BEVJAC ZP 10-1H
Wellbore: Plan A - Rev 0 (PERMITTING)
Design: Plan A - Rev0 Proposal

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	7.0063	0.00	0.00	7.0063	0.0	0.0	0.00	0.00	0.0	
3	8.9850	85.00	140.59	7737.2	-512.8	421.4	7.88	140.59	683.7	
4	8.1600	85.00	140.59	7737.2	-570.5	468.8	0.00	0.00	738.4	
5	8.8224	90.00	140.59	7739.9	-579.5	509.0	7.88	0.00	801.8	
6	8.2745	90.00	140.59	7740.0	-4113.4	3379.9	0.00	143.86	5323.9	BEVJAN



WELL DETAILS: BEVJAC ZP 10-1H (NAD83 Geodetic System)	
Northing 483796.24	Ground Level: 5432.0 Easting 995118.37 Latitude 40° 56' 29.220 N Longitude 104° 32' 29.364 W
Plan: Plan A - Rev 0 Proposal (BEVJAC ZP 10-1H/Plan A - Rev 0 (PERMITTING PLAN ONLY))	
Created By: Erasmo Mendoza	Date: 19/28, June 07 2011
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____

