

REFERENCE INFORMATION

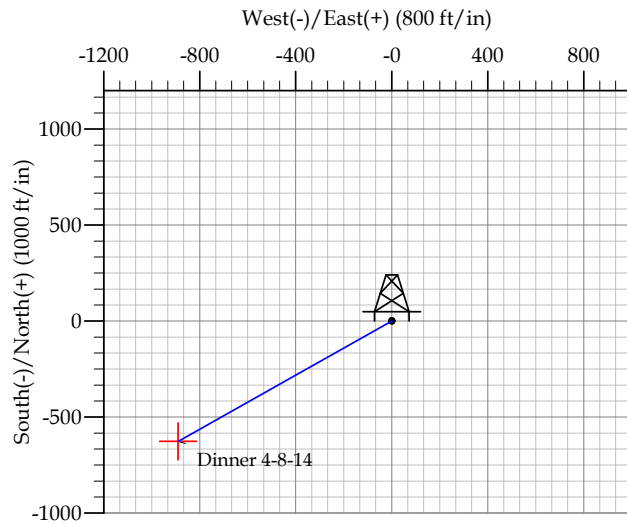
Co-ordinate (N/E) Reference: Well Dinner 4-8-14, True North
Vertical (TVD) Reference: WELL @ 4735.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: WELL @ 4735.0ft (Original Well Elev)
Calculation Method:

WELL DETAILS: Dinner 4-8-14

+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	Slot
0.0	0.0	1355410.18	4722.0	3211446.78	40° 18' 23.472 N	04° 44' 30.588 W	

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	550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.0	
3	1098.0	10.96	234.85	1094.6	-30.1	-42.7	2.00	234.85	52.2	
4	6272.1	10.96	234.85	6174.4	-596.5	-847.0	0.00	0.00	1035.9	
5	6820.0	0.00	0.00	6719.0	-626.6	-889.7	2.00	180.00	1088.2	
6	7920.0	0.00	0.00	7819.0	-626.6	-889.7	0.00	0.00	1088.2	Dinner 4-8-14



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
4335.0	4398.5	Sussex
5315.0	5396.7	Shannon
6885.0	6986.0	Niobrara
7225.0	7326.0	Codell
7669.0	7770.0	J Sand
7755.0	7856.0	A Marker

CASING DETAILS

TVD	MD	Name	Size
500.0	500.0	Surface	8.625
7819.0	7920.0	Production	4.500

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Dinner 4-8-14
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4735.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4735.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Dinner 4-8-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Dinner 4-8-14		

Project	Wattenberg,		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	New Drills				
Site Position:		Northing:	1,278,589.08ft	Latitude:	40° 5' 49.848 N
From:	Lat/Long	Easting:	3,130,247.44ft	Longitude:	105° 2' 3.912 W
Position Uncertainty:	ft	Slot Radius:	in	Grid Convergence:	0.30 °

Well	Dinner 4-8-14					
Well Position	+N-S	76,124.2 ft	Northing:	1,355,410.18 ft	Latitude:	40° 18' 23.472 N
	+E-W	81,853.3 ft	Easting:	3,211,446.78 ft	Longitude:	104° 44' 30.588 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,722.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.00	67.04	53,258

Design	Dinner 4-8-14				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	234.85	

Plan Sections											
Measured											
Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target	
(ft)	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)		
			(ft)			(°/100ft)	(°/100ft)	(°/100ft)			
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.00	0.00		
1,098.0	10.96	234.85	1,094.6	-30.1	-42.7	2.00	2.00	0.00	234.85		
6,272.1	10.96	234.85	6,174.4	-596.5	-847.0	0.00	0.00	0.00	0.00		
6,820.0	0.00	0.00	6,719.0	-626.6	-889.7	2.00	-2.00	0.00	180.00		
7,920.0	0.00	0.00	7,819.0	-626.6	-889.7	0.00	0.00	0.00	0.00	Dinner 4-8-14	

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Project:	Wattenberg	MD Reference:	WELL @ 4735.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Dinner 4-8-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Dinner 4-8-14		

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	1,355,410.18	3,211,446.78	40° 18' 23.472 N	104° 44' 30.588 W
500.0	0.00	0.00	500.0	0.0	0.0	1,355,410.18	3,211,446.78	40° 18' 23.472 N	104° 44' 30.588 W
Surface									
550.0	0.00	0.00	550.0	0.0	0.0	1,355,410.18	3,211,446.78	40° 18' 23.472 N	104° 44' 30.588 W
1,098.0	10.96	234.85	1,094.6	-30.1	-42.7	1,355,379.74	3,211,404.32	40° 18' 23.175 N	104° 44' 31.139 W
4,398.5	10.96	234.85	4,335.0	-391.4	-555.8	1,355,014.06	3,210,894.39	40° 18' 19.604 N	104° 44' 37.762 W
Sussex									
5,396.7	10.96	234.85	5,315.0	-500.7	-710.9	1,354,903.47	3,210,740.17	40° 18' 18.524 N	104° 44' 39.764 W
Shannon									
6,272.1	10.96	234.85	6,174.4	-596.5	-847.0	1,354,806.49	3,210,604.94	40° 18' 17.577 N	104° 44' 41.521 W
6,820.0	0.00	0.00	6,719.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
6,986.0	0.00	0.00	6,885.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
Niobrara									
7,326.0	0.00	0.00	7,225.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
Codell									
7,770.0	0.00	0.00	7,669.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
J Sand									
7,856.0	0.00	0.00	7,755.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
A Marker									
7,920.0	0.00	0.00	7,819.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
Production - Dinner 4-8-14									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Dinner 4-8-14	0.00	0.00	7,819.0	-626.6	-889.7	1,354,776.05	3,210,562.48	40° 18' 17.280 N	104° 44' 42.072 W
- plan hits target									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
500.0	500.0	Surface	8.625	12.250	
7,920.0	7,819.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,398.5	4,335.0	Sussex		0.00		
5,396.7	5,315.0	Shannon		0.00		
6,986.0	6,885.0	Niobrara		0.00		
7,326.0	7,225.0	Codell		0.00		
7,770.0	7,669.0	J Sand		0.00		
7,856.0	7,755.0	A Marker		0.00		

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