

**REFERENCE INFORMATION**

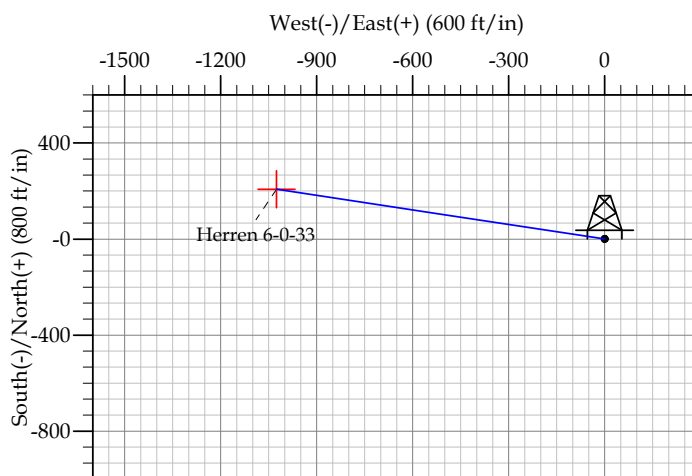
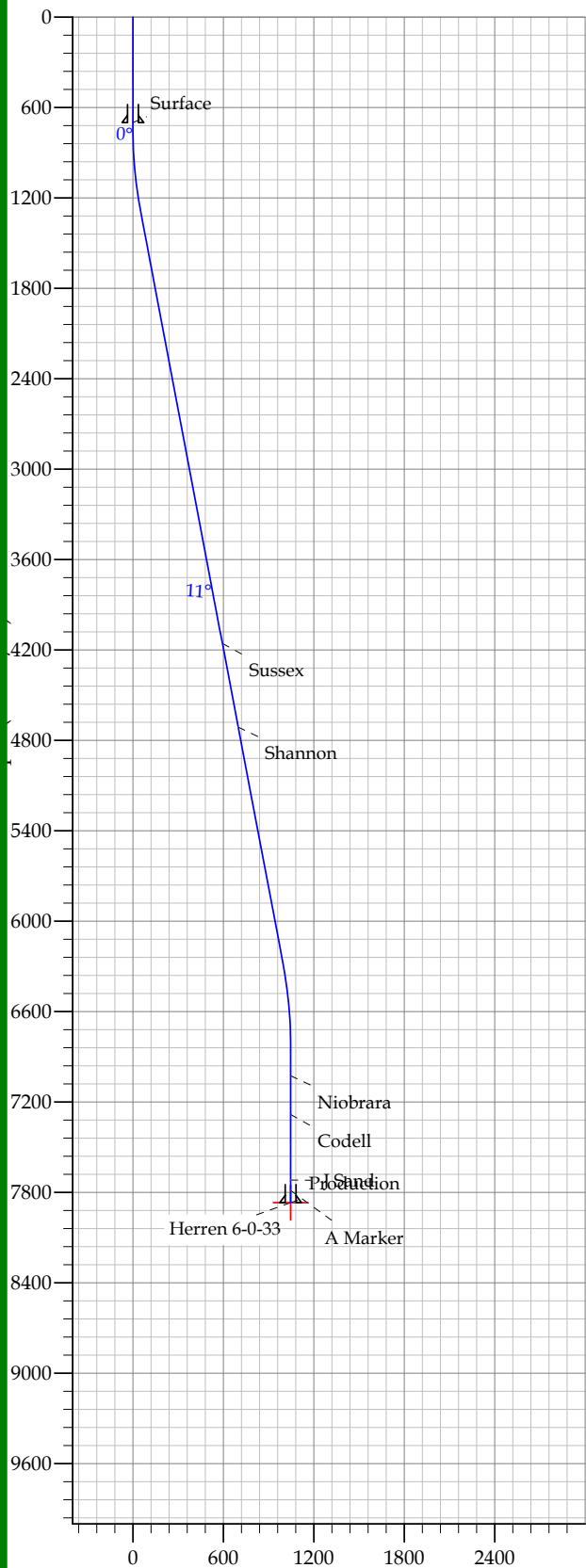
Co-ordinate (N/E) Reference: Well Herren 6-0-33, True North  
 Vertical (TVD) Reference: WELL @ 4837.0ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.0N, 0.0E)  
 Measured Depth Reference: WELL @ 4837.0ft (Original Well Elev)  
 Calculation Method:

**WELL DETAILS: Herren 6-0-33**

+N/-S	+E/-W	Northing	Ground Level:	4824.0	Longitude	Slot
0.0	0.0	1312214.70	Easting	3171296.4640° 11' 19.680 N	04° 53' 12.696 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	750.0	0.00	0.00	750.0	0.0	0.0	0.00	0.00	0.0	
3	1285.5	10.71	281.45	1282.4	9.9	-48.9	2.00	281.45	49.9	
4	6377.4	10.71	281.45	6285.6	197.8	-976.4	0.00	0.00	996.2	
5	6912.9	0.00	0.00	6818.0	207.7	-1025.3	2.00	180.00	1046.1	
6	7962.9	0.00	0.00	7868.0	207.7	-1025.3	0.00	0.00	1046.1	Herren 6-0-33



**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
4157.0	4211.1	Sussex
4712.0	4775.9	Shannon
7027.0	7121.9	Niobrara
7283.0	7377.9	Codell
7718.0	7812.9	J Sand
7787.0	7881.9	A Marker

**CASING DETAILS**

TVD	MD	Name	Size
700.0	700.0	Surface	8.625
7868.0	7962.9	Production	4.500