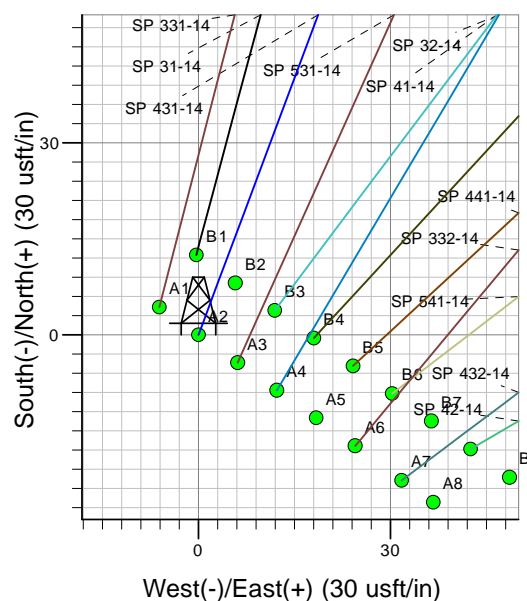
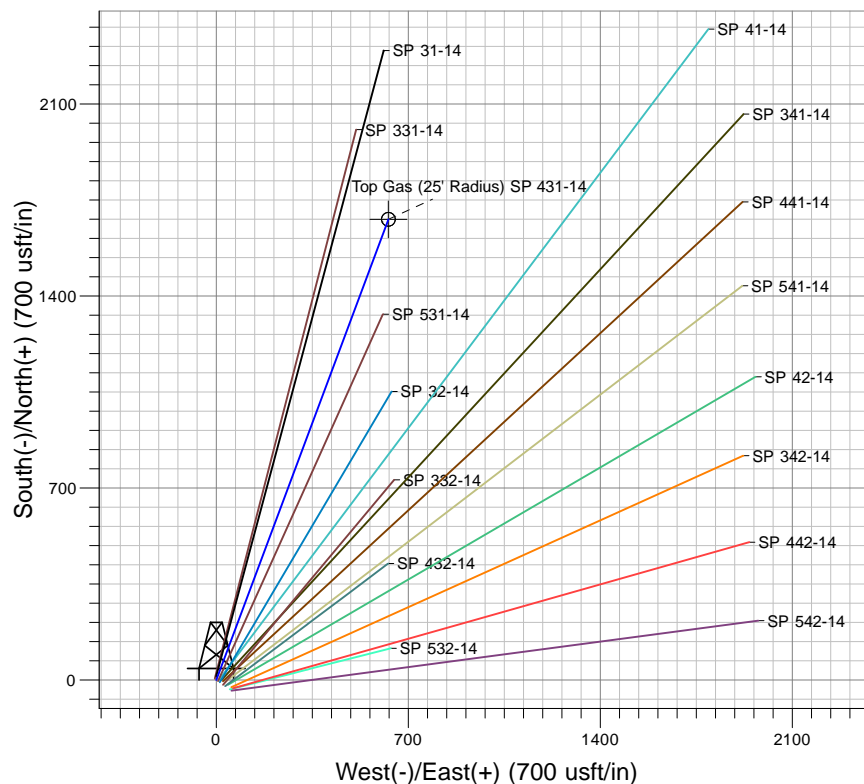
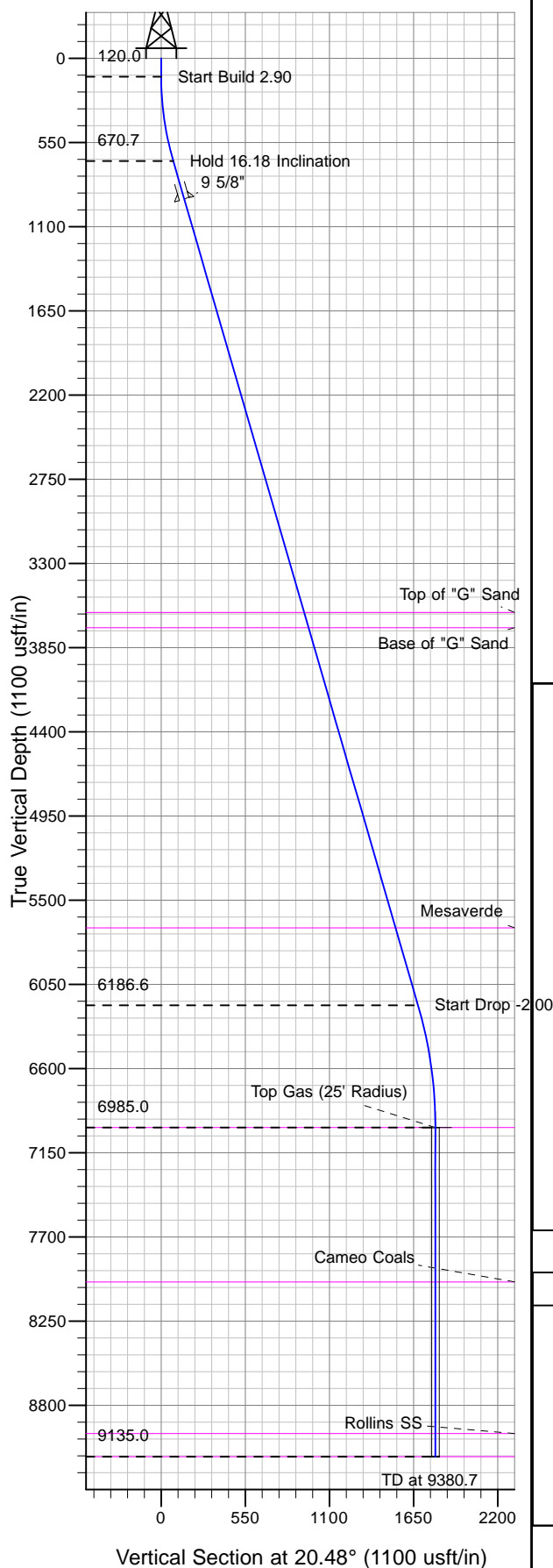




Well Name: SP 431-14
Surface Location: SP 32-14 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 7639.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1593915.30 2303861.70 39° 26' 17.282 N 107° 57' 54.353 W A2
WELL @ 7662.0usft (Cyclone 30 (23'KB) JMS)



Project: PA 14-07S-095W
Site: SP 32-14 Pad
Well: SP 431-14
Design #1 25Jan10 kjs

Azimuths to True North
Magnetic North: 10.49°
Magnetic Field
Strength: 52377.4snT
Dip Angle: 65.75°
Date: 1/25/2010
Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.90
670.7	678.0	16.18	20.48	73.3	27.4	78.3	78.3	Hold 16.18 Inclination
6186.6	6421.5	16.18	20.48	1573.0	587.4	1679.1	1679.1	Start Drop -2.00
6985.0	7230.7	0.00	0.00	1679.3	627.1	1792.6	1792.6	Top Gas
9135.0	9380.7	0.00	0.00	1679.3	627.1	1792.6	1792.6	TD at 9380.7