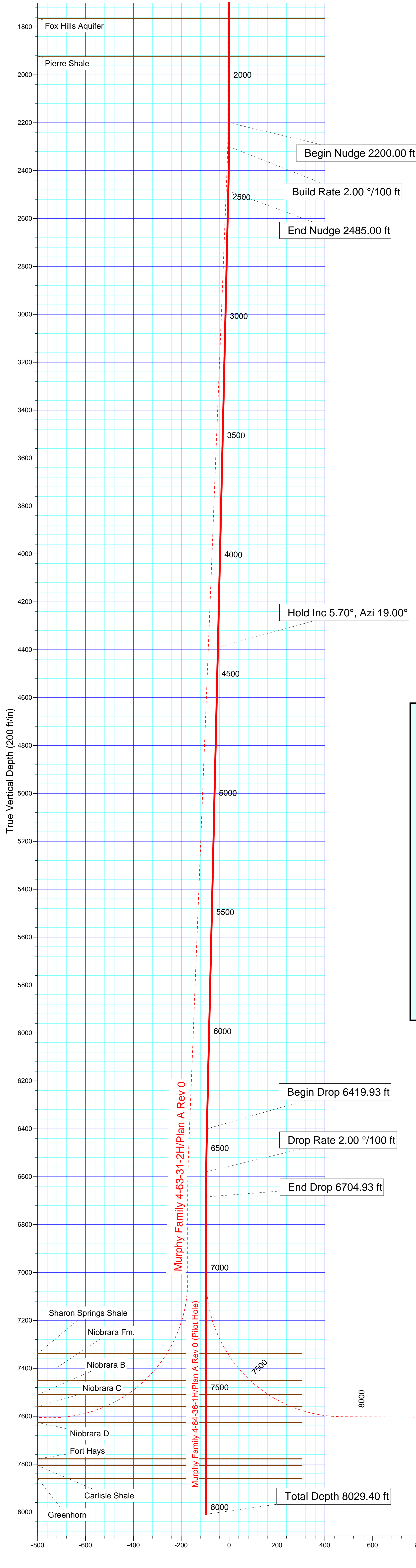


Project: Arapahoe County, Colorado
Site: Sec. 36-T4S-R64W
Well: Murphy Family 4-64-36-1H
Wellbore: Plan A
Plan: Plan A Rev 0 (Pilot Hole)

Conoco Phillips Company



Azimuths to True North

Magnetic Field

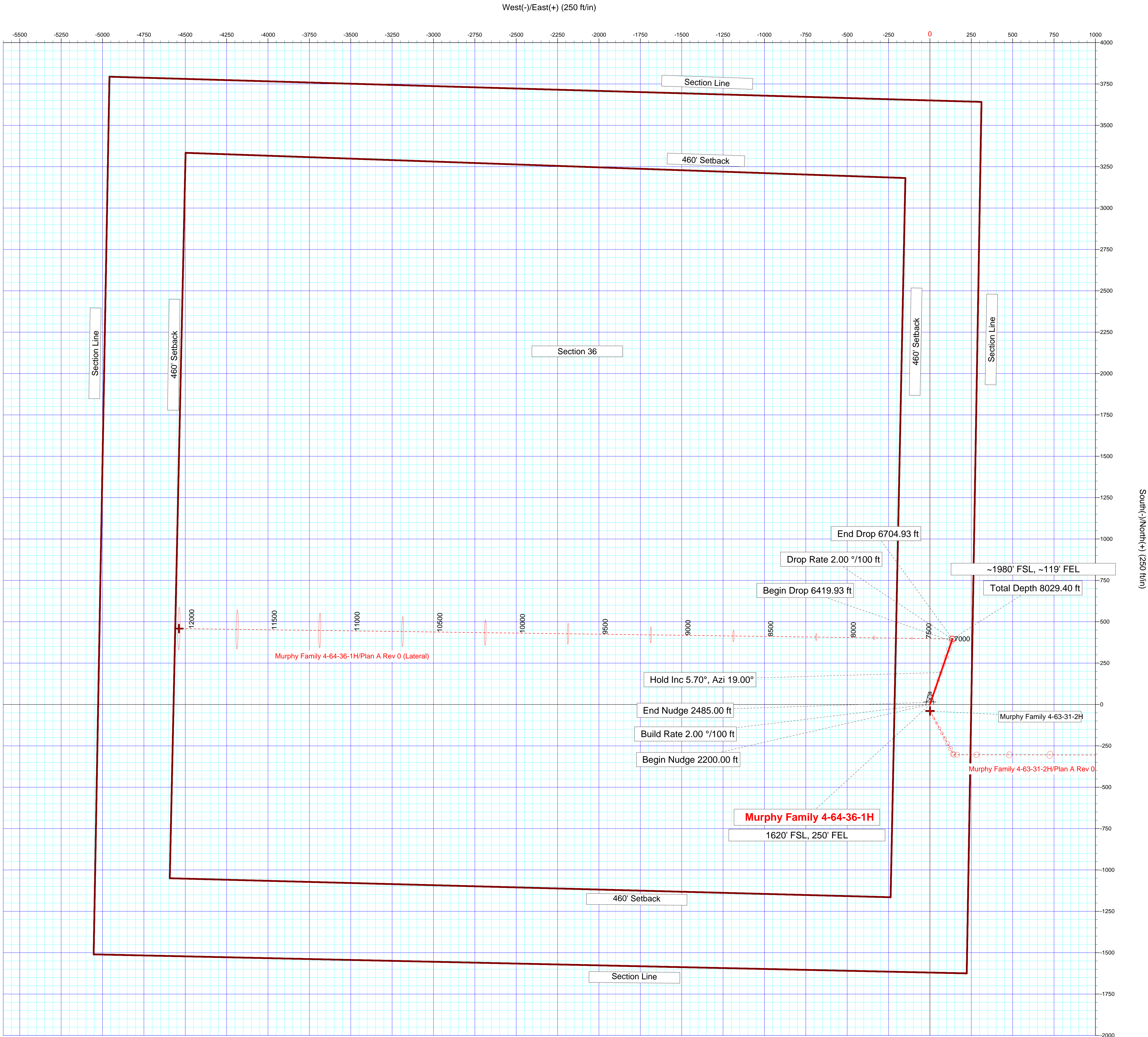
Magnetic North: 8.45°

Strength: 52440.0snT

Dip Angle: 66.40°

Date: 6-30-2013

Model: BGGM2012



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	
3	2485.00	5.70	19.00	2484.53	13.39	4.61	2.00	19.00	-3.24	
4	6419.93	5.70	19.00	6400.00	382.92	131.85	0.00	0.00	-92.67	
5	6704.93	0.00	0.00	6684.53	396.31	136.46	2.00	180.00	-95.92	
6	8029.40	0.00	0.00	8009.00	396.31	136.46	0.00	0.00	-95.92	