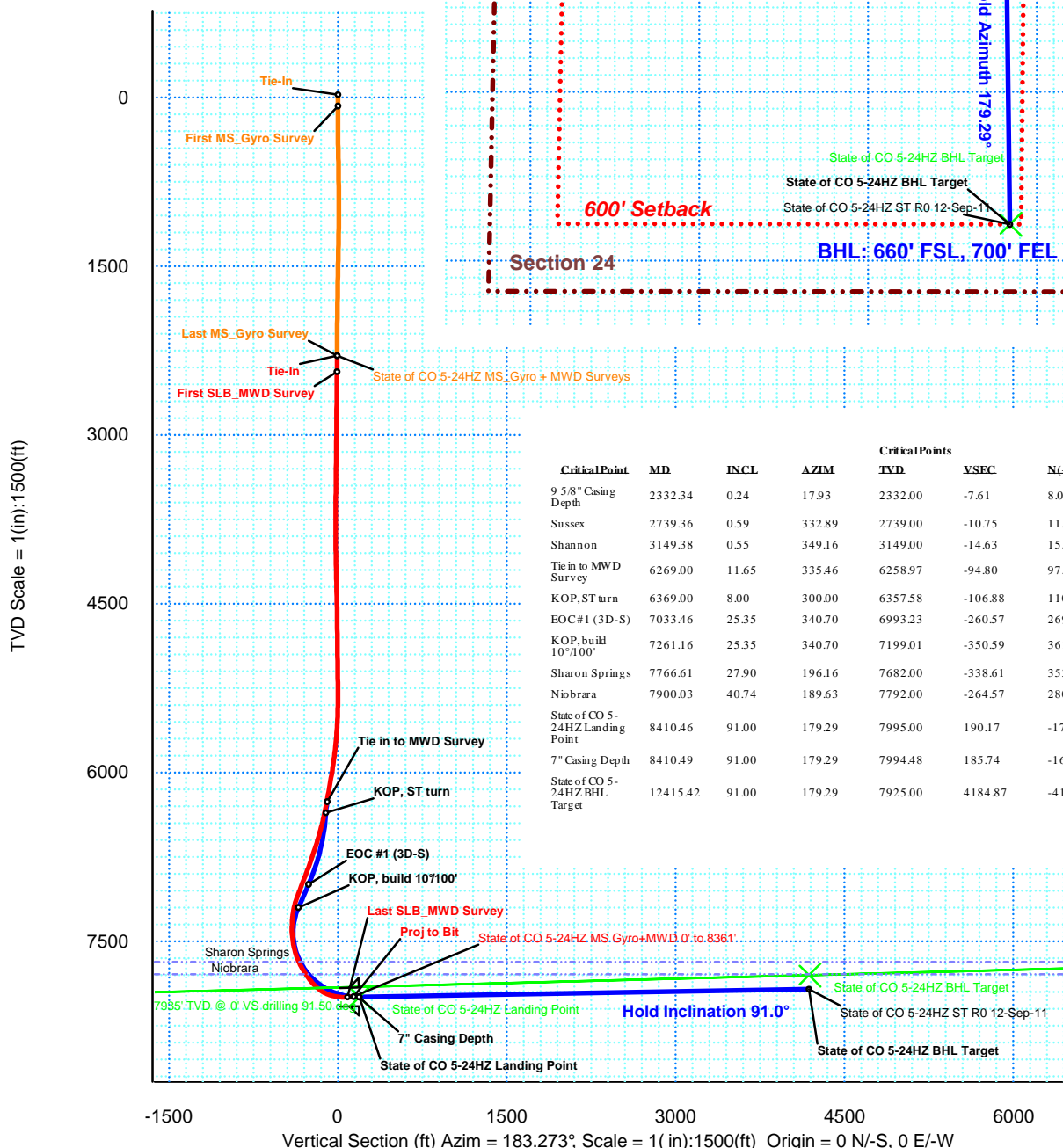
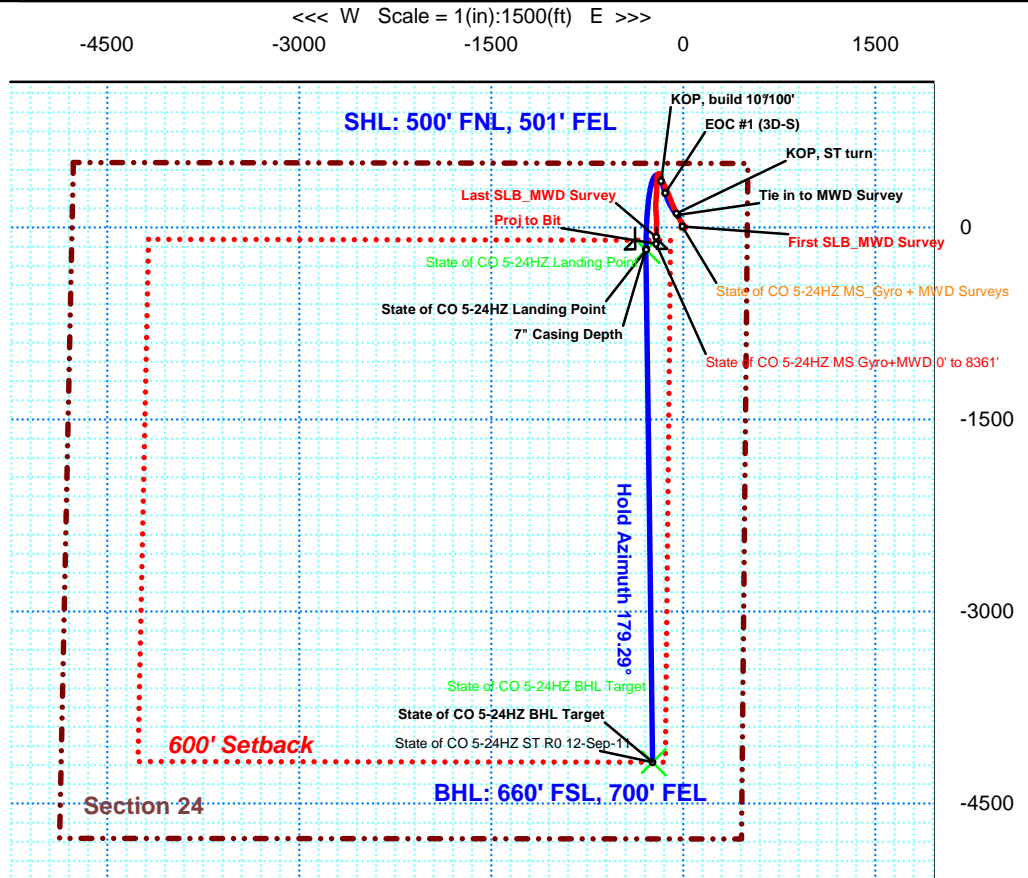


WELL	State of CO 5-24HZ	FIELD	CO, Arapahoe County	STRUCTURE	24-5S-65W
Magnetic Parameters		Surface Location		Miscellaneous	
Model:	BGGM 2011	Dip:	66.423°	Date:	August 04, 2011
		Mag Dec:	8.680°	FS:	52664.7mT
		Lat:	N 39.36 28.760	Northings:	NAD83 Colorado State Plane, Central Zone, US Feet
		Lon:	W 104.36 21.366	Eastings:	1647577.88 RUS
				Grid Conv:	0.56387749°
				Scale Fact:	0.99997499
				Slot:	State of CO 5-24HZ
				Plan:	ST R0 12-Sep-11
				TVD Ref:	Unknown(5954ft above MSL)
				Srvy Date:	August 04, 2011

Proposal

Quality Control
Date Drawn: September 12, 2011
12:09:15 PM
Drawn by: Lucia Cazares
Checked by:
Client OK:

True North
TotCorr (M->T 8.6804°)
Mag Dec (8.680°)
Grid Conv (0.56387746°)



CriticalPoint	MD	INCL	AZIM	CriticalPoints				
				TVD	YSEC	N(±)/S(±)	E(±)/W(±)	DLS
9 5/8" Casing Depth	2332.34	0.24	179.3	2332.00	-7.61	8.01	-6.68	0.49
Sussex	2739.36	0.59	332.89	2739.00	-10.75	11.24	-8.28	0.22
Shannon	3149.38	0.55	349.16	3149.00	-14.63	15.16	-8.91	0.07
Tie in to MWD Survey	6269.00	11.65	335.46	6258.97	-94.80	97.35	-41.78	
KOP, ST turn	6369.00	8.00	300.00	6357.58	-106.88	110.03	-52.01	6.90
EOC#1 (3D-S)	7033.46	25.35	340.70	6993.23	-260.57	269.00	-139.96	3.00
KOP, build 10°/100'	7261.16	25.35	340.70	7199.01	-350.59	361.02	-172.19	0.00
Sharon Springs	7766.61	27.90	196.16	7682.00	-338.61	353.34	-247.80	10.00
Niobrara	7900.03	40.74	189.63	7792.00	-264.57	280.10	-263.85	10.00
State of CO 5-24HZ Landing Point	8410.46	91.00	179.29	7995.00	190.17	-174.00	-288.24	10.00
7" Casing Depth	8410.49	91.00	179.29	7994.48	185.74	-169.44	-290.34	0.00
State of CO 5-24HZ BHL Target	12415.42	91.00	179.29	7925.00	4184.87	-4178.04	-238.93	0.00

Vertical Section (ft) Azim = 183.273°, Scale = 1 (in):1500(ft) Origin = 0 N-/S, 0 E-/W