



Cascade Petroleum, LLC

Rev 1

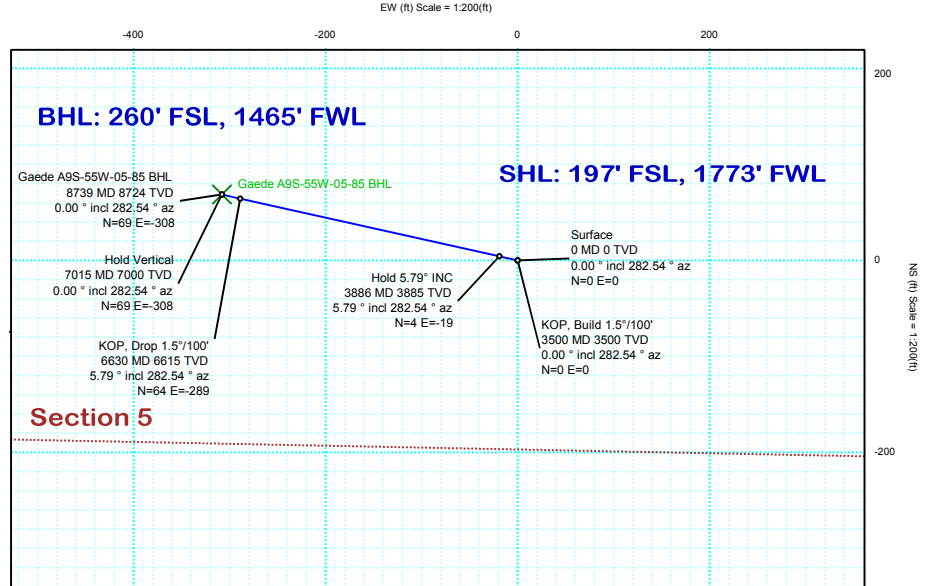
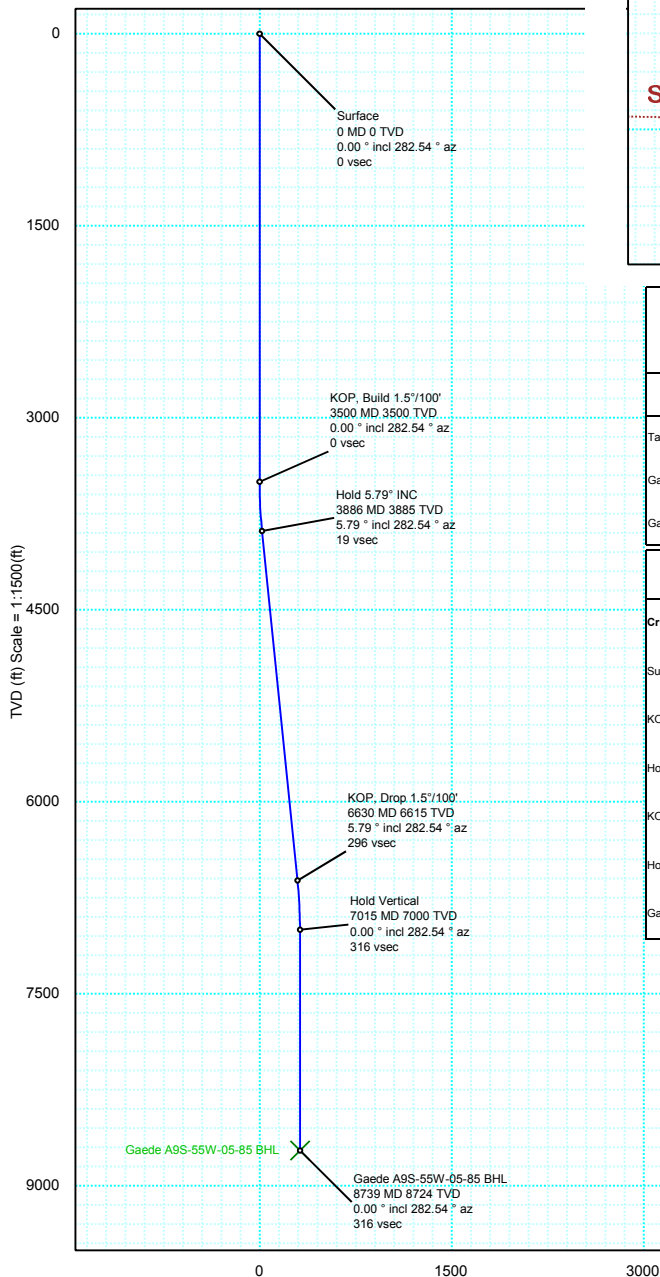


Borehole: <div>Original Hole</div>				Well: <div>Gaede A9S-55W-05-85</div>				Field: <div>CO, Lincoln County (NAD 83 CZ)</div>				Structure: <div>5-9S-55W (Gaede A9S-55W-05-85)</div>																			
Gravity & Magnetic Parameters								Surface Location				NAD83 Colorado State Plane, Central Zone, US Feet				Miscellaneous															
Model:		BGGM 2014		Dip:		66.229°		Date:		12-Sep-2014		Lat:		N 39 17 17.27		Northing:		1535586.07ftU		Grid Conv:		1.2119°		Slot:		Gaede A9S-55W-05-85		TVD Ref:		KB 12ft(5603ft above MSL)	
MagDec:		7.813°		FS:		52197.632nT		Gravity FS:		998.912mgn (9.80665 Based)		Lon:		W 103 34 42.42		Easting:		3543823.21ftU		Scale Fact:		0.99994123		Plan:		Gaede A9S-55W-05-85 R1 mdv		12Sept14			

Proposal



True North
Tot Corr (M->T 7.813°)
Mag Dec (7.813°)
Grid Conv (1.212°)



Surface Location									
Northing: 1535586.066		Easting: 3543823.206		Latitude: N 39 17 17.27		Longitude: W 103 34 42.42		VSec Azimuth: 282.53 9	
Target Description		Grid Coord						Local Coord	
Target Name	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)	
Gaede 9S-55W-05-85 Sec 5	N 39 17 17.27	W 103 34 42.42	1535586.07	3543823.21	5603.00	0.00	0.00	0.00	
Gaede A9S-55W-05-85 BHL	N 39 17 17.95	W 103 34 46.34	1535648.03	3543513.85	8724.00	315.53	68.50	-308.00	
Critical Points									
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS	
Surface	0.00	0.00	282.54	0.00	0.00	0.00	0.00		
KOP, Build 1.5"/100'	3500.00	0.00	282.54	3500.00	0.00	0.00	0.00	0.00	
Hold 5.79" INC	3885.72	5.79	282.54	3885.07	19.46	4.22	-18.99	1.50	
KOP, Drop 1.5"/100'	6629.57	5.79	282.54	6614.93	296.07	64.28	-289.01	0.00	
Hold Vertical	7015.29	0.00	282.54	7000.00	315.53	68.50	-308.00	1.50	
Gaede A9S-55W-05-85 BHL	8739.29	0.00	282.54	8724.00	315.53	68.50	-308.00	0.00	

Vertical Section (ft) Azim = 282.539° Scale = 1:1500(ft) Origin = 0N/-S, 0E/-W