Wellbore Diagram

Borehole:	Well:	Field:	Structure:
Original Wellbore	Cottonberry 20 Federal 4H	NM Eddy County (NAD 83)	TBD

Critical Points

Comments	Survey MD	Inc	Azim	TVD	SSTVD	VS	NS	EW	Longitude	Latitude	Easting	Northing	DLS	Tool Face
SHL Cimarex Cottonberry 20 Federal 4H	0.00	0.00	178.43	0.00	-3139.00	0.00	0.00	0.00	N 32 7 18.590	W 104 12 21.794	580740.33	408081.28		178.43
KOP - Build 12°/100ft DLS	6844.54	0.00	178.43	6844.54	3705.54	0.00	0.00	0.00	N 32 7 18.590	W 104 12 21.794	580740.33	408081.28	0.00	178.43
Landing Point	7594.54	90.00	178.43	7322.00	4183.00	477.45	-477.29	13.08	N 32 7 13.867	W 104 12 21.649	580753.41	407604.04	12.00	-90.00
Cimarex Cottonberry 20 Federal 4H - PBHL	11762.23	90.00	178.43	7322.00	4183.00	4644.98	-4643.40	127.35	N 32 6 32.640	W 104 12 20.378	580867.67	403438.30	0.00	

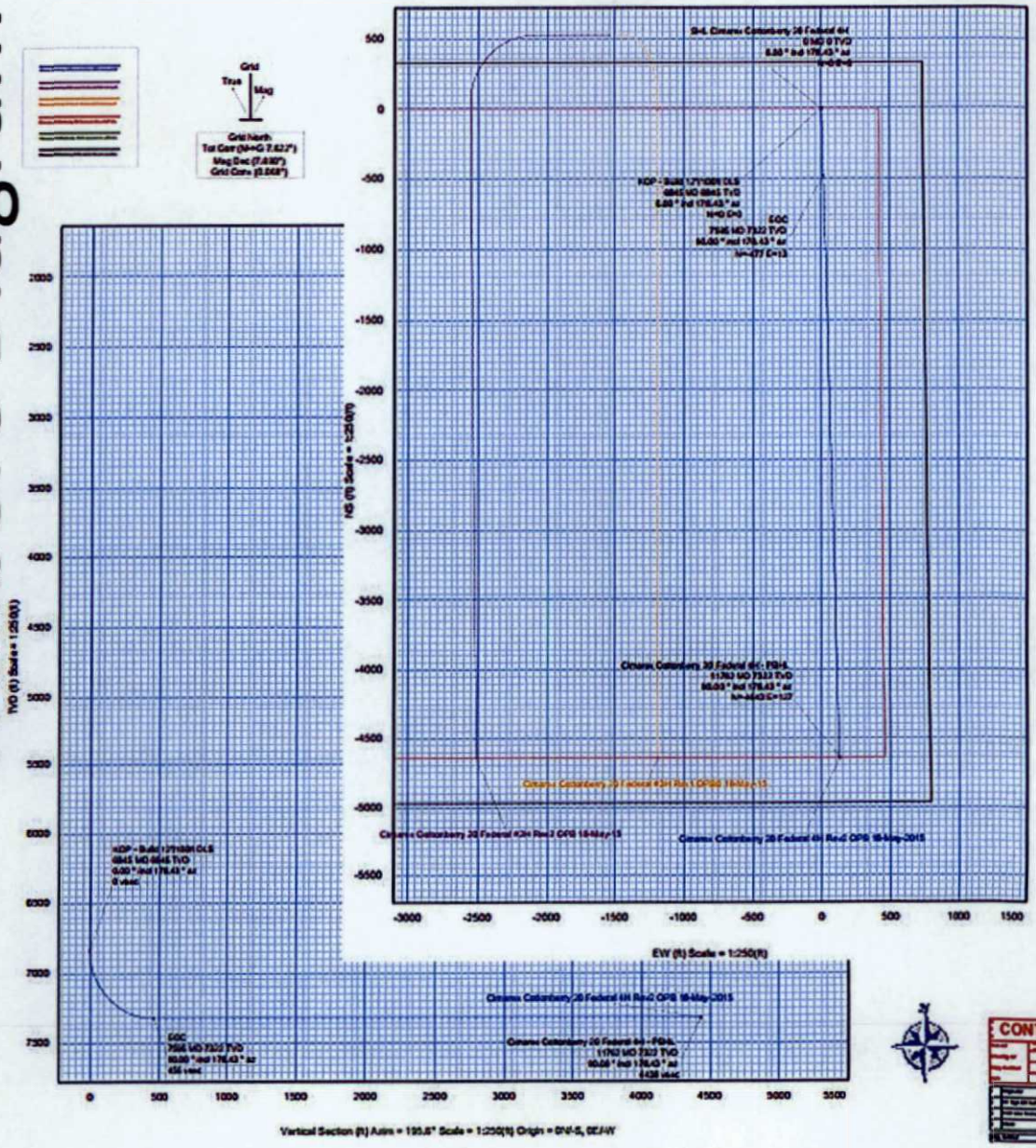

EXHIBIT 9

CONTROLLED