

GyroTracer Directional:

Date: 11/20/2018
 Operator : Adrian Bruner
 API: 05-123-31727
 Well Name : **Herbst C 22-25**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 6700.00
 Total Well Depth: 6983.00
 Latitude : 40.293838 N
 Longitude : 104.541765 W
 Grid Offset : 0.62

**Starting Point Coordinates (in local grid):**

Northing: 0.00 Easting: 0.00 Altitude: 4672.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 11/20/2018 14:37

End Time: 11/20/2018 15:46

Depth	Inclination	Azimuth	Closure Direction	True Depth	Coordinates		Dogleg Severity	Closure Distance
					+N/-S	+E/-W		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.000	0.410	298.417	255.379	100.000	-0.180	-0.690	0.410	0.713
200.000	0.480	328.306	279.209	199.997	0.205	-1.267	0.232	1.284
300.000	0.229	350.913	296.403	299.996	0.742	-1.495	0.189	1.669
400.000	0.329	217.351	288.076	399.994	0.571	-1.751	0.467	1.842
500.000	0.470	164.604	269.218	499.992	-0.023	-1.691	0.388	1.691
600.000	0.274	139.990	254.509	599.991	-0.427	-1.541	0.186	1.599
700.000	0.475	162.649	223.247	699.987	-1.045	-0.983	0.253	1.435
800.000	0.681	227.676	211.529	799.981	-1.937	-1.188	0.915	2.272
900.000	0.668	227.969	214.529	899.974	-2.830	-1.947	0.053	3.435
1000.000	0.328	227.193	219.500	999.971	-3.201	-2.638	0.246	4.148
1100.000	0.074	301.118	220.507	1099.970	-3.380	-2.887	0.552	4.445
1200.000	0.272	52.299	222.878	1199.968	-2.956	-2.745	0.348	4.034
1300.000	0.380	109.998	218.411	1299.966	-2.856	-2.265	0.344	3.645
1400.000	0.065	164.164	212.131	1399.965	-3.048	-1.914	0.499	3.600
1500.000	0.221	296.576	211.834	1499.964	-3.369	-2.091	0.478	3.965
1600.000	0.439	85.012	214.045	1599.962	-2.868	-1.938	0.697	3.461
1700.000	0.734	205.065	206.383	1699.960	-3.181	-1.578	1.017	3.550
1800.000	0.348	288.203	208.846	1799.959	-3.437	-1.893	0.652	3.923
1900.000	0.238	3.127	216.255	1899.956	-2.929	-2.148	0.422	3.633
2000.000	0.519	270.663	220.171	1999.954	-2.876	-2.428	0.567	3.764
2100.000	0.900	326.068	237.226	2099.945	-2.314	-3.594	0.806	4.274
2200.000	0.742	313.262	253.751	2199.937	-1.242	-4.263	0.170	4.440
2300.000	1.262	299.957	264.620	2299.924	-0.528	-5.605	0.614	5.630

2400.000	1.360	330.625	279.520	2399.896	1.206	-7.189	0.690	7.289
2500.000	1.187	344.288	291.381	2499.872	3.168	-8.093	0.345	8.691
2600.000	0.205	10.062	295.979	2599.865	4.176	-8.571	0.881	9.534
2700.000	0.906	37.685	301.563	2699.858	5.133	-8.356	0.639	9.807
2800.000	0.243	341.218	307.196	2799.852	5.776	-7.611	0.650	9.555
2900.000	0.402	318.436	308.951	2899.850	6.359	-7.867	0.326	10.116
3000.000	0.753	346.648	311.022	2999.839	7.517	-8.641	0.351	11.453
3100.000	0.913	316.684	312.025	3099.834	8.208	-9.108	0.479	12.261
3200.000	0.560	279.548	313.414	3199.826	9.206	-9.730	0.599	13.395
3300.000	0.662	324.958	312.343	3299.814	9.979	-10.950	0.480	14.815
3400.000	1.339	306.387	311.809	3399.799	10.947	-12.239	0.889	16.421
3500.000	0.843	275.409	311.319	3499.789	11.707	-13.317	0.764	17.731
3600.000	0.508	257.435	311.005	3599.779	12.473	-14.346	0.479	19.010
3700.000	0.494	232.074	309.064	3699.771	12.530	-15.438	0.258	19.883
3800.000	0.937	272.067	306.585	3799.760	12.462	-16.789	0.642	20.908
3900.000	1.198	274.825	304.036	3899.747	12.312	-18.229	0.127	21.998
4000.000	1.325	272.242	301.561	3999.732	12.218	-19.891	0.243	23.344
4100.000	1.496	271.680	299.022	4099.710	12.135	-21.872	0.292	25.013
4200.000	1.520	283.903	296.812	4199.685	12.111	-23.963	0.299	26.850
4300.000	1.018	280.348	294.913	4299.656	12.208	-26.285	0.552	28.982
4400.000	1.135	256.212	293.388	4399.629	12.355	-28.567	0.456	31.124
4500.000	1.262	265.652	291.545	4499.596	12.271	-31.081	0.138	33.415
4600.000	1.325	268.305	289.475	4599.552	12.005	-33.946	0.171	36.006
4700.000	1.098	291.543	288.175	4699.509	12.081	-36.799	0.458	38.732
4800.000	1.799	271.704	286.891	4799.471	11.984	-39.465	0.913	41.245
4900.000	1.271	282.824	286.467	4899.432	12.463	-42.164	0.421	43.967
5000.000	1.127	259.138	285.598	4999.409	12.355	-44.258	0.510	45.950
5100.000	1.122	280.797	285.204	5099.392	12.503	-46.006	0.459	47.675
5200.000	0.219	267.472	285.189	5199.387	12.680	-46.704	0.886	48.394
5300.000	0.914	115.452	284.722	5299.382	12.134	-46.181	1.093	47.748
5400.000	1.010	105.102	284.744	5399.375	11.898	-45.208	0.631	46.748
5500.000	1.255	119.576	284.378	5499.352	11.083	-43.234	0.209	44.632
5600.000	0.860	130.221	283.484	5599.330	9.961	-41.543	0.334	42.721
5700.000	1.113	89.160	283.267	5699.320	9.511	-40.335	0.733	41.441
5800.000	0.871	115.096	283.511	5799.305	9.301	-38.709	0.356	39.811
5900.000	0.690	97.377	283.339	5899.298	8.915	-37.598	0.358	38.641
6000.000	0.442	147.522	282.993	5999.291	8.445	-36.599	0.365	37.560
6100.000	0.819	141.520	282.819	6099.287	8.226	-36.152	0.457	37.076
6200.000	0.330	217.307	281.595	6199.282	7.363	-35.886	0.904	36.634
6300.000	0.113	16.847	281.075	6299.280	7.077	-36.156	0.427	36.842
6400.000	0.635	143.850	280.287	6399.275	6.504	-35.836	0.858	36.422
6500.000	0.637	122.910	279.227	6499.271	5.823	-35.848	0.215	36.317
6600.000	0.910	302.261	278.483	6599.265	5.449	-36.537	1.379	36.941
6700.000	0.840	202.692	278.178	6699.262	5.305	-36.916	1.188	37.295