

Survey File: C:\Documents and Settings\PHILIP H\My Documents\SANDIA CFU 31F #3.raw
 Date: Sep 11, 2009
 Time: 7:25
 Description: GYROSCOPIC MULTISHOT SURVEY
 Location: CRANFIELD FIELD UNIT, CFU 31F, WELL # 3, ADAMS COUNTY, MS
 Customer: SANDIA
 Operator: BRENT LEBLANC
 Comments:
 MSL-09090162-GS
 SCHLUMBERGER WIRELINE TRUCK

 GOODRICH TOOL IDENTIFICATION

Gyroscope Model: DG69-2001-1 #0001
 TX Series: #0002
 EI Series: #0003
 AC Series: #0004
 Accel.Voltage Limits: Xmax= 9.908 ; Xmin=-9.912 ; Ymax= 9.965 ; Ymin=-9.872
 Comments:

 Warm-Up Duration: 0.27 min

-----SURVEY REFERENCE DATA-----

Sight Reference Description:

Survey Reference Point: 0 deg.

Local Grid Offset: 0 deg.

Drift Correction Method: Least Squares Drift Linearization

Computation Method: Minimum Curvature

Target Direction (deg):0

INRUN record set

Measured Depth (feet)	Course Inclin. from Vert.	Course Direction (deg)	Closure Direction (deg)	True Vert. Depth (feet)	Rectangular Coordinates +N/-S +E/-W	Dogleg Severity °/100 f	Closure Distance (feet)	Vertic Section (feet)
100.00	0.54	141.6	168.72	100.00	-0.90 0.18	0.50	0.92	-0.9
200.00	0.35	147.3	157.32	199.99	-1.53 0.64	0.20	1.66	-1.5
300.00	0.17	125.1	153.64	299.99	-1.88 0.93	0.20	2.09	-1.9
400.00	0.42	150.6	151.60	399.99	-2.29 1.24	0.30	2.60	-2.3
500.00	0.98	174.7	156.62	499.98	-3.46 1.50	0.60	3.77	-3.5
600.00	1.00	198.9	165.90	599.97	-5.15 1.29	0.40	5.31	-5.1
700.00	0.89	202.3	173.90	699.95	-6.69 0.71	0.10	6.73	-6.7
800.00	0.83	205.2	179.22	799.94	-8.07 0.11	0.10	8.07	-8.1
900.00	0.92	186.8	181.77	899.93	-9.52 -0.29	0.30	9.53	-9.5
1000.00	0.94	190.2	182.76	999.92	-11.13 -0.54	0.10	11.14	-11.1
1100.00	1.13	218.0	185.78	1099.90	-12.71 -1.29	0.50	12.78	-12.7
1200.00	1.26	228.5	190.81	1199.88	-14.21 -2.71	0.30	14.47	-14.2
1300.00	0.73	218.4	194.28	1299.87	-15.44 -3.93	0.60	15.93	-15.4
1400.00	0.58	250.3	196.59	1399.86	-16.10 -4.80	0.40	16.80	-16.1
1500.00	1.05	298.2	201.00	1499.85	-15.84 -6.08	0.80	16.96	-15.8
1600.00	1.37	282.7	208.02	1599.83	-15.14 -8.06	0.50	17.15	-15.1
1700.00	1.65	288.4	216.29	1699.79	-14.42 -10.59	0.30	17.89	-14.4
1800.00	1.68	272.3	223.98	1799.75	-13.91 -13.42	0.50	19.33	-13.9
1900.00	1.28	261.0	228.74	1899.72	-14.03 -15.99	0.50	21.27	-14.0
2000.00	0.78	251.8	230.90	1999.70	-14.41 -17.73	0.50	22.85	-14.4
2100.00	0.32	340.6	232.15	2099.70	-14.36 -18.48	0.80	23.40	-14.4
2200.00	0.62	258.0	233.36	2199.70	-14.21 -19.10	0.70	23.81	-14.2
2300.00	0.93	240.2	234.10	2299.69	-14.72 -20.33	0.40	25.10	-14.7
2400.00	0.81	178.5	233.02	2399.68	-15.83 -21.02	0.90	26.31	-15.8
2500.00	0.33	101.2	231.30	2499.67	-16.59 -20.71	0.80	26.54	-16.6
2600.00	0.39	330.9	231.54	2599.67	-16.35 -20.59	0.70	26.29	-16.4
2700.00	0.56	257.8	232.72	2699.67	-16.16 -21.23	0.60	26.68	-16.2
2800.00	0.16	283.3	233.38	2799.67	-16.23 -21.84	0.40	27.21	-16.2
2900.00	0.46	238.1	233.67	2899.67	-16.41 -22.31	0.40	27.70	-16.4

3000.00	0.77	228.2	233.60	2999.66	-17.07	-23.15	0.30	28.76	-17.1
3100.00	0.83	192.0	232.56	3099.65	-18.22	-23.80	0.50	29.98	-18.2
3200.00	0.67	181.6	230.85	3199.64	-19.51	-23.97	0.20	30.91	-19.5
3300.00	0.43	90.3	229.60	3299.64	-20.10	-23.61	0.80	31.01	-20.1
3400.00	0.43	5.3	229.63	3399.64	-19.73	-23.21	0.60	30.46	-19.7
3500.00	0.47	335.7	230.88	3499.63	-18.99	-23.34	0.20	30.09	-19.0
3600.00	0.56	299.6	232.50	3599.63	-18.37	-23.94	0.30	30.17	-18.4
3700.00	0.45	254.5	233.61	3699.63	-18.23	-24.74	0.40	30.73	-18.2
3800.00	0.45	259.7	234.18	3799.62	-18.40	-25.50	0.00	31.45	-18.4
3900.00	0.43	251.3	234.68	3899.62	-18.59	-26.24	0.10	32.16	-18.6
4000.00	0.49	255.6	235.13	3999.62	-18.82	-27.01	0.10	32.92	-18.8
4100.00	0.29	197.6	235.12	4099.62	-19.16	-27.49	0.40	33.51	-19.2
4200.00	0.24	203.1	234.67	4199.61	-19.60	-27.65	0.10	33.89	-19.6
4300.00	0.27	7.7	234.78	4299.61	-19.55	-27.70	0.50	33.91	-19.6
4400.00	0.40	26.7	235.36	4399.61	-19.01	-27.51	0.20	33.44	-19.0
4500.00	0.72	350.0	236.65	4499.61	-18.08	-27.47	0.50	32.88	-18.1
4600.00	0.49	331.0	238.42	4599.60	-17.08	-27.78	0.30	32.61	-17.1
4700.00	0.50	349.7	239.89	4699.60	-16.28	-28.07	0.20	32.45	-16.3
4800.00	0.39	311.3	241.19	4799.60	-15.62	-28.40	0.30	32.41	-15.6
4900.00	0.74	292.7	242.63	4899.59	-15.15	-29.25	0.40	32.94	-15.1
5000.00	0.18	140.9	243.22	4999.59	-15.02	-29.76	0.90	33.33	-15.0
5100.00	0.38	88.9	242.71	5099.59	-15.13	-29.32	0.30	33.00	-15.1
5200.00	0.57	58.0	242.52	5199.58	-14.86	-28.57	0.30	32.20	-14.9
5300.00	0.62	46.1	242.87	5299.58	-14.22	-27.76	0.10	31.19	-14.2
5400.00	0.63	343.2	244.17	5399.57	-13.33	-27.53	0.60	30.58	-13.3
5500.00	0.33	294.2	245.59	5499.57	-12.68	-27.95	0.50	30.69	-12.7
5600.00	0.32	138.3	245.49	5599.57	-12.78	-28.02	0.60	30.79	-12.8
5700.00	0.39	60.7	245.04	5699.57	-12.82	-27.54	0.40	30.38	-12.8
5800.00	0.21	2.4	245.40	5799.57	-12.47	-27.24	0.30	29.96	-12.5
5900.00	0.61	212.4	245.16	5899.57	-12.74	-27.52	0.80	30.32	-12.7
6000.00	0.66	39.1	245.09	5999.56	-12.74	-27.44	1.30	30.25	-12.7
6100.00	0.54	210.3	245.07	6099.56	-12.70	-27.31	1.20	30.11	-12.7
6200.00	0.30	75.6	244.47	6199.56	-13.03	-27.29	0.80	30.24	-13.0
6300.00	0.39	219.5	244.10	6299.56	-13.23	-27.25	0.70	30.29	-13.2
6400.00	0.44	352.1	244.52	6399.56	-13.11	-27.52	0.80	30.48	-13.1
6500.00	0.40	117.2	244.69	6499.56	-12.89	-27.26	0.70	30.16	-12.9
6600.00	0.17	358.8	244.43	6599.56	-12.90	-26.95	0.50	29.88	-12.9
6700.00	0.73	351.6	245.86	6699.55	-12.12	-27.05	0.60	29.64	-12.1
6800.00	0.42	44.6	247.33	6799.55	-11.23	-26.88	0.60	29.13	-11.2
6900.00	0.58	287.6	248.25	6899.55	-10.81	-27.11	0.90	29.18	-10.8
7000.00	0.75	338.3	250.15	6999.54	-10.05	-27.83	0.60	29.59	-10.0
7100.00	0.62	20.8	252.24	7099.53	-8.93	-27.88	0.50	29.28	-8.9
7200.00	0.50	309.1	253.80	7199.53	-8.14	-28.03	0.70	29.19	-8.1
7300.00	0.87	7.8	255.87	7299.52	-7.12	-28.27	0.70	29.15	-7.1
7400.00	0.16	263.2	257.29	7399.52	-6.38	-28.31	0.90	29.02	-6.4
7500.00	0.66	352.1	258.46	7499.52	-5.83	-28.53	0.70	29.12	-5.8
7600.00	0.51	46.3	260.09	7599.51	-4.94	-28.29	0.60	28.72	-4.9
7700.00	0.13	41.0	260.73	7699.51	-4.55	-27.89	0.40	28.26	-4.6
7800.00	0.53	14.0	261.74	7799.51	-4.02	-27.71	0.40	28.00	-4.0
7900.00	0.79	356.4	264.04	7899.50	-2.88	-27.64	0.30	27.79	-2.9
8000.00	0.94	38.9	266.72	7999.49	-1.56	-27.17	0.60	27.21	-1.6
8100.00	0.33	82.2	268.09	8099.49	-0.88	-26.37	0.70	26.38	-0.9
8200.00	0.58	305.6	268.83	8199.48	-0.54	-26.49	0.90	26.50	-0.5
8300.00	0.60	341.9	270.53	8299.48	0.25	-27.07	0.40	27.07	0.3
8400.00	0.39	8.2	272.29	8399.48	1.09	-27.18	0.30	27.21	1.1
8500.00	0.16	197.5	272.72	8499.47	1.29	-27.18	0.60	27.21	1.3
8600.00	0.30	214.7	271.97	8599.47	0.94	-27.37	0.20	27.39	0.9
8700.00	0.64	253.8	271.16	8699.47	0.57	-28.06	0.50	28.06	0.6
8800.00	0.90	310.6	271.81	8799.46	0.92	-29.19	0.80	29.21	0.9
8900.00	0.82	297.1	273.31	8899.45	1.76	-30.42	0.20	30.48	1.8
9000.00	0.63	312.5	274.46	8999.44	2.45	-31.47	0.30	31.56	2.5
9100.00	0.36	333.2	275.53	9099.44	3.10	-32.01	0.30	32.16	3.1
9200.00	0.18	336.8	276.25	9199.44	3.53	-32.21	0.20	32.41	3.5

+N/S- +E/W-

9300.00	0.37	319.2	276.87	9299.44	3.92	-32.49	0.20	32.72	3.9
9400.00	0.70	316.8	277.92	9399.43	4.61	-33.12	0.30	33.44	4.6
9500.00	0.82	314.2	279.26	9499.42	5.55	-34.05	0.10	34.50	5.6
9600.00	0.96	309.0	280.58	9599.41	6.58	-35.22	0.20	35.83	6.6
9700.00	0.76	328.1	281.96	9699.40	7.67	-36.22	0.30	37.02	7.7
9800.00	0.78	326.4	283.40	9799.39	8.80	-36.95	0.00	37.98	8.8
9900.00	0.60	359.5	284.85	9899.39	9.90	-37.33	0.40	38.62	9.9
10000.00	0.35	312.9	285.80	9999.38	10.63	-37.56	0.40	39.04	10.6
10100.00	0.34	225.0	285.63	10099.38	10.63	-38.00	0.50	39.45	10.6
10200.00	0.39	234.7	284.88	10199.38	10.22	-38.48	0.10	39.82	10.2
10300.00	0.25	183.7	284.20	10299.38	9.81	-38.78	0.30	40.00	9.8
10400.00	0.24	140.3	283.72	10399.38	9.44	-38.66	0.20	39.79	9.4
10500.00	0.20	215.0	283.30	10499.38	9.13	-38.63	0.30	39.69	9.1
10600.00	0.16	242.8	282.94	10599.38	8.92	-38.86	0.10	39.87	8.9
10629.00	0.38	268.1	282.86	10628.38	8.90	-38.99	0.80	39.99	8.9

Bottom:

True Vertical Depth 10628.38feet

Closure Distance 40.0 feet

Closure Direction 282.9 deg.

Course Direction 268.1 deg.