

**Vaughn Energy Services  
Henderson, CO  
866-835-8333**

**MS Gyro Survey Calculations**

**Wells Ranch AA 26-8 / API 05-123-25381**

<b>Depth</b>	<b>Inc</b>	<b>AzG</b>	<b>N/-S</b>	<b>E/-W</b>	<b>TVD</b>	<b>DL</b>	<b>VS</b>	<b>CD</b>
0.00	0.00	0.00	****	0.00	0.00	0.00	****	****
100.00	0.52	220.88	11.19	-0.34	-0.30	100.00	0.52	-0.34
200.00	0.60	237.66	11.88	-0.96	-1.04	199.99	0.18	-0.96
300.00	0.30	219.47	11.28	-1.45	-1.65	299.99	0.33	-1.45
400.00	0.53	256.99	12.23	-1.75	-2.26	399.99	0.34	-1.75
500.00	0.20	325.86	11.60	-1.71	-2.80	499.99	0.49	-1.71
600.00	0.62	298.82	12.18	-1.31	-3.37	599.98	0.45	-1.31
700.00	0.82	300.83	12.23	-0.68	-4.46	699.98	0.20	-0.68
800.00	0.63	311.53	11.05	0.05	-5.48	799.97	0.23	0.05
900.00	1.17	287.52	12.23	0.72	-6.87	899.96	0.65	0.72
1000.00	0.85	282.44	12.30	1.19	-8.57	999.94	0.33	1.19
1100.00	1.29	284.92	11.17	1.64	-10.39	1099.92	0.43	1.64
1200.00	1.24	267.72	10.89	1.88	-12.55	1199.90	0.38	1.88
1300.00	1.40	264.54	9.90	1.73	-14.84	1299.87	0.18	1.73
1400.00	1.17	267.62	12.12	1.57	-17.08	1399.85	0.23	1.57
1500.00	1.67	293.46	9.38	2.10	-19.44	1499.82	0.80	2.10
1600.00	1.54	274.16	8.63	2.78	-22.11	1599.78	0.55	2.78
1700.00	1.61	315.30	12.60	3.88	-24.44	1699.74	1.11	3.88
1800.00	1.32	290.34	7.61	5.28	-26.51	1799.71	0.70	5.28
1900.00	1.13	304.58	7.37	6.23	-28.39	1899.69	0.36	6.23
2000.00	1.12	351.18	12.72	7.76	-29.35	1999.67	0.89	7.76
2100.00	0.81	359.13	17.31	9.42	-29.51	2099.66	0.34	9.42
2200.00	0.93	35.94	15.33	10.78	-29.04	2199.65	0.56	10.78
2300.00	0.93	32.04	12.32	12.13	-28.14	2299.63	0.06	12.13
2400.00	1.06	26.71	15.21	13.64	-27.29	2399.62	0.16	13.64
2500.00	0.84	6.10	16.29	15.20	-26.80	2499.61	0.40	15.20
2600.00	0.38	356.48	9.16	16.27	-26.74	2599.60	0.47	16.27
2700.00	0.84	353.94	13.76	17.32	-26.84	2699.59	0.46	17.32
2800.00	0.36	345.40	18.93	18.35	-26.99	2799.59	0.49	18.35
2900.00	0.82	324.48	7.42	19.24	-27.49	2899.58	0.51	19.24
3000.00	0.93	296.45	18.40	20.18	-28.63	2999.57	0.44	20.18
3100.00	0.38	290.06	6.14	20.66	-29.67	3099.56	0.55	20.66
3200.00	0.95	289.56	19.14	21.05	-30.76	3199.56	0.57	21.05
3300.00	0.85	276.61	12.48	21.41	-32.28	3299.54	0.23	21.41
3400.00	1.06	264.58	5.11	21.41	-33.94	3399.53	0.28	21.41
3500.00	2.33	267.68	15.05	21.24	-36.88	3499.49	1.27	21.24
3600.00	2.97	269.91	15.87	21.16	-41.50	3599.38	0.65	21.16
3700.00	3.44	268.32	12.86	21.07	-47.08	3699.22	0.48	21.07

3800.00	3.94	266.86	15.32	20.79	-53.51	3799.01	0.52	20.79
3900.00	3.59	265.31	7.22	20.34	-60.06	3898.80	0.37	20.34
4000.00	3.83	265.96	14.51	19.85	-66.51	3998.59	0.25	19.85
4100.00	3.57	268.66	14.20	19.55	-72.95	4098.38	0.31	19.55
4200.00	3.21	268.02	14.60	19.38	-78.87	4198.20	0.36	19.38
4300.00	2.78	269.37	14.51	19.25	-84.10	4298.07	0.44	19.25
4400.00	2.52	273.52	14.09	19.36	-88.72	4397.96	0.32	19.36
4500.00	2.47	274.96	14.06	19.68	-93.07	4497.87	0.08	19.68
4600.00	1.82	280.73	10.20	20.17	-96.78	4597.79	0.69	20.17
4700.00	2.50	284.25	13.44	21.00	-100.46	4697.72	0.69	21.00
4800.00	2.28	292.11	12.97	22.29	-104.42	4797.64	0.39	22.29
4900.00	1.96	300.29	12.60	23.90	-107.74	4897.57	0.44	23.90
5000.00	1.56	308.74	11.88	25.61	-110.27	4997.52	0.48	25.61
5100.00	1.06	318.78	11.53	27.15	-111.94	5097.49	0.55	27.15
5200.00	0.83	332.06	11.61	28.48	-112.89	5197.48	0.31	28.48
5300.00	0.24	14.36	12.04	29.33	-113.17	5297.48	0.67	29.33
5400.00	0.27	31.98	12.03	29.73	-113.00	5397.48	0.08	29.73
5500.00	0.25	111.67	11.76	29.84	-112.67	5497.47	0.33	29.84
5600.00	0.52	96.73	11.84	29.71	-112.02	5597.47	0.28	29.71
5700.00	0.42	120.15	11.62	29.47	-111.25	5697.47	0.21	29.47
5800.00	0.75	115.80	11.92	29.00	-110.34	5797.46	0.33	29.00
5900.00	0.92	79.22	12.22	28.87	-108.97	5897.45	0.55	28.87
6000.00	0.89	91.08	11.86	29.01	-107.40	5997.44	0.19	29.01
6100.00	1.10	67.90	12.00	29.35	-105.73	6097.43	0.45	29.35
6200.00	1.02	65.18	11.99	30.09	-104.03	6197.41	0.10	30.09
6300.00	1.00	64.13	11.75	30.84	-102.44	6297.39	0.03	30.84
6400.00	0.49	77.32	11.74	31.32	-101.24	6397.39	0.54	31.32
6500.00	0.53	81.91	11.72	31.48	-100.37	6497.38	0.06	31.48
6600.00	0.47	81.83	11.77	31.60	-99.50	6597.38	0.06	31.60
6700.00	0.52	72.85	11.94	31.79	-98.66	6697.37	0.09	31.79
6800.00	0.78	88.80	11.82	31.94	-97.55	6797.37	0.31	31.94
6916.00	0.59	65.86	11.94	32.20	-96.22	6913.36	0.28	32.20

**Cbrg**

0.00	0.00
0.45	220.88
1.42	227.05
2.19	228.69
2.86	232.22
3.28	238.61
3.62	248.82
4.51	261.32
5.48	270.51
6.91	275.99
8.66	277.90
10.52	278.97
12.69	278.54
14.94	276.63
17.15	275.24
19.55	276.18
22.29	277.17
24.75	279.02
27.03	281.26
29.07	282.38
30.36	284.80
30.98	287.71
30.98	290.37
30.64	293.32
30.51	296.56
30.81	299.56
31.30	301.31
31.94	302.84
32.64	304.21
33.55	304.99
35.03	305.18
36.15	304.85
37.27	304.38
38.74	303.56
40.13	302.25
42.56	299.94
46.58	297.01
51.58	294.11

57.40	291.23
63.41	288.71
69.41	286.62
75.53	285.00
81.22	283.80
86.27	282.89
90.81	282.31
95.13	281.94
98.86	281.77
102.63	281.81
106.77	282.05
110.36	282.51
113.21	283.07
115.18	283.63
116.42	284.16
116.91	284.53
116.84	284.74
116.56	284.83
115.89	284.85
115.08	284.84
114.09	284.73
112.73	284.84
111.25	285.11
109.73	285.52
108.30	286.13
106.98	286.76
105.97	287.19
105.19	287.41
104.40	287.62
103.66	287.86
102.64	288.13
101.46	288.50