

Gyroscopic Survey Report for:									
ANADARKO									
API:	05-123-30219								
Well Location:	WELD								
Well Name:	VYNCKIER W 29-18								
Rig Number:	CORETECH 2								
Survey Date:	4/11/2014								
Latitude:	40.1124300°N -104.800585°W								
North Reference:	True North								
Grid Correction:	None								
Depth Reference:	GL (4890.00 ft)								
Calculation Method:	Minimum Curvature								
Section (VS) Ref:	0.00N (ft), 0.00E (ft), 288.08Azim (deg)								
Definitive Survey:	HSR VINCENT 1-26A								
Operator(s):	J. MONICA								
Measured Depth	Inclination	Azimuth	True Vertical Depth	Vertical Section	+N/-S	+E/-W	Closure Distance	Closure Direction	Dogleg Severity
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
0	0	0	0	0	0	0	0	0	Invalid
100	0.45	69.24	100	-0.31	0.14	0.37	0.39	69.24	0.45
200	0.62	89.77	199.99	-1.13	0.28	1.28	1.31	77.57	0.25
300	0.63	70.46	299.99	-2.07	0.47	2.34	2.38	78.67	0.21
400	0.65	87.29	399.98	-3.04	0.68	3.42	3.49	78.78	0.19
500	0.38	85.42	499.98	-3.88	0.73	4.32	4.38	80.39	0.28
600	0.35	15.98	599.98	-4.18	1.05	4.74	4.85	77.52	0.41
700	0.31	324.08	699.98	-3.95	1.55	4.66	4.91	71.56	0.29
800	0.33	20.27	799.97	-3.74	2.04	4.61	5.04	66.06	0.3
900	0.24	353.08	899.97	-3.67	2.53	4.68	5.32	61.63	0.16
1000	0.41	287.78	999.97	-3.21	2.85	4.31	5.17	56.55	0.38
1100	0.56	315.4	1099.97	-2.42	3.31	3.63	4.91	47.65	0.27
1200	0.45	307.42	1199.96	-1.62	3.89	2.97	4.9	37.38	0.13
1300	0.63	299.91	1299.96	-0.71	4.4	2.19	4.92	26.4	0.19
1400	0.61	295.41	1399.95	0.35	4.9	1.23	5.05	14.14	0.05
1500	0.83	297.77	1499.95	1.59	5.47	0.11	5.47	1.18	0.23
1600	0.84	275.96	1599.94	3.03	5.88	-1.26	6.02	347.9	0.32
1700	0.56	284.17	1699.93	4.23	6.08	-2.46	6.56	337.96	0.3
1800	0.68	293.18	1799.92	5.3	6.43	-3.48	7.31	331.61	0.16
1900	0.65	313.8	1899.92	6.41	7.06	-4.43	8.34	327.87	0.24
2000	0.91	272.87	1999.91	7.69	7.49	-5.64	9.38	323.03	0.6
2100	1.73	239.4	2099.88	9.45	6.77	-7.73	10.28	311.18	1.09
2200	2.08	226.69	2199.83	11.32	4.75	-10.35	11.39	294.66	0.55
2300	2.3	230.45	2299.75	13.26	2.23	-13.22	13.41	279.56	0.26
2400	2.31	241.45	2399.67	15.72	-0.01	-16.54	16.54	269.95	0.44
2500	2.47	254.11	2499.59	18.89	-1.57	-20.39	20.45	265.6	0.55
2600	2.37	253.9	2599.5	22.39	-2.73	-24.45	24.6	263.62	0.1
2700	2.01	252.55	2699.42	25.53	-3.83	-28.11	28.37	262.24	0.36

2800	1.67	248.87	2799.37	28.09	-4.88	-31.15	31.53	261.09	0.36
2900	1.51	252.85	2899.33	30.29	-5.8	-33.76	34.26	260.26	0.2
3000	1.23	243.94	2999.3	32.14	-6.66	-35.98	36.59	259.52	0.35
3100	1.33	271.84	3099.28	34.02	-7.09	-38.1	38.76	259.46	0.62
3200	1.52	266.79	3199.25	36.37	-7.13	-40.58	41.2	260.04	0.23
3300	1.65	275.93	3299.21	39.01	-7.05	-43.34	43.91	260.76	0.28
3400	1.56	275.4	3399.17	41.74	-6.78	-46.12	46.62	261.64	0.1
3500	1.14	289.64	3499.14	44.07	-6.31	-48.42	48.83	262.57	0.53
3600	1.04	274.95	3599.13	45.95	-5.9	-50.26	50.6	263.3	0.3
3700	0.77	278.26	3699.11	47.49	-5.73	-51.83	52.14	263.7	0.28
3800	0.76	306.02	3799.11	48.78	-5.24	-53.03	53.28	264.36	0.37
3900	0.6	51.79	3899.1	49.12	-4.53	-53.15	53.34	265.13	1.09
4000	1.01	34.17	3999.09	48.59	-3.47	-52.25	52.36	266.19	0.48
4100	0.97	21.17	4099.08	48.3	-1.96	-51.45	51.48	267.82	0.23
4200	2.11	313.6	4199.05	49.91	0.1	-52.47	52.47	270.11	1.95
4300	2.96	311.57	4298.95	53.94	3.08	-55.73	55.82	273.16	0.86
4400	2.94	309.1	4398.81	58.7	6.41	-59.65	60	276.13	0.13
4500	2.65	308.97	4498.7	63.25	9.48	-63.44	64.14	278.5	0.29
4600	2.58	309.14	4598.59	67.5	12.35	-66.98	68.1	280.45	0.07
4700	2.46	300.73	4698.5	71.69	14.86	-70.56	72.11	281.89	0.39
4800	2.11	300.53	4798.42	75.58	16.89	-73.99	75.9	282.86	0.35
4900	1.98	289.65	4898.35	79.11	18.41	-77.21	79.37	283.41	0.41
5000	1.87	286.88	4998.3	82.46	19.46	-80.39	82.71	283.61	0.15
5100	1.76	294.39	5098.25	85.62	20.57	-83.35	85.85	283.87	0.26
5200	1.56	290.51	5198.2	88.51	21.69	-86.03	88.72	284.15	0.23
5300	1.77	287.72	5298.16	91.42	22.63	-88.78	91.62	284.3	0.22
5400	1.44	288.81	5398.12	94.21	23.51	-91.43	94.41	284.42	0.33
5500	1.3	294.22	5498.09	96.6	24.38	-93.66	96.78	284.59	0.19
5600	1.28	297.65	5598.07	98.83	25.36	-95.68	98.99	284.85	0.08
5700	1.31	299.43	5698.04	101.05	26.44	-97.66	101.18	285.15	0.05
5800	1.45	287.66	5798.01	103.43	27.39	-99.86	103.55	285.34	0.32
5900	1.33	296.74	5897.99	105.85	28.29	-102.11	105.95	285.49	0.25
6000	1.73	278.25	5997.95	108.49	29.03	-104.64	108.59	285.51	0.63
6100	1.65	286.41	6097.91	111.41	29.66	-107.52	111.53	285.42	0.25
6200	1.51	295.62	6197.87	114.15	30.63	-110.08	114.27	285.55	0.29
6300	1.95	284.35	6297.82	117.16	31.62	-112.92	117.26	285.64	0.56
6400	1.76	287.82	6397.77	120.4	32.52	-116.03	120.5	285.65	0.22
6500	1.94	284.54	6497.72	123.62	33.41	-119.14	123.73	285.67	0.21
6600	2.16	285.73	6597.65	127.2	34.35	-122.59	127.31	285.65	0.23
6700	2.05	287.05	6697.59	130.87	35.38	-126.12	130.99	285.67	0.13
6800	2.55	291.08	6797.51	134.88	36.71	-129.91	134.99	285.78	0.53
6900	2.68	293.76	6897.4	139.43	38.45	-134.12	139.52	286	0.18
7000	2.86	293.43	6997.29	144.23	40.38	-138.54	144.31	286.25	0.18
7100	2.07	315.87	7097.19	148.31	42.67	-142.09	148.35	286.71	1.23
7200	1.28	28.51	7197.16	149.71	44.94	-142.81	149.72	287.47	2.08
7300	0.58	21.74	7297.15	149.47	46.4	-142.09	149.47	288.08	0.7