Company:	TRILOGY	Job Number:	PA-2527	Calculation Method	Minimum Curvature	8" Mud Mtr SN:	775-77242	8" Circ Hrs:
Field:	WATTENBERG	Magnetic Decl.:	8.64	Proposed Azimuth	311.18	Surface TD:	700	8" Bit Hrs:
Cty/Blk/Par:	WELD	Grid Corr.:	TRUE	Depth Reference	RKB	6.5" Mud Mtr SN:	65036B052	6.5" Circ Hrs:
Well Name:	WIND 17-11	Total Survey Corr.:	8.64	Tie Into	Drill SURFACE	Production TD:	7496	6.5" Bit Hrs:
Rig:	CADE 25	Target Info:	664' FNL 618'FWL			Spud Date:	16-Apr	Completion Date:

Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')	Remarks
119	0.40	24.50	119	119.00	0.12	0.38	N	0.17	E	0.34	0.3	20.6	
211	0.60	0.90	92	211.00	0.52	1.15	N	0.31	E	0.31	0.2	-25.7	
302	1.40	358.80	91	301.98	1.58	2.74	N	0.30	E	0.88	0.9	393.3	
392	1.70	357.90	90	391.95	3.24	5.17	N	0.23	E	0.33	0.3	-1.0	
482	2.10	353.30	90	481.90	5.37	8.14	N	0.02	W	0.48	0.4	-5.1	
573	2.30	359.70	91	572.83	7.82	11.63	N	0.22	W	0.35	0.2	7.0	
650	2.20	345.10	77	649.77	10.07	14.60	N	0.61	W	0.75	-0.1	-19.0	
724	2.40	341.40	74	723.71	12.59	17.44	N	1.47	W	0.34	0.3	-5.0	
816	1.90	315.40	92	815.65	15.77	20.35	N	3.15	W	1.18	-0.5	-28.3	
912	3.20	321.20	96	911.55	20.00	23.57	N	5.95	W	1.38	1.4	6.0	
1007	4.40	326.50	95	1006.34	26.13	28.68	N	9.62	W	1.31	1.3	5.6	
1101	5.30	317.70	94	1100.01	33.92	34.90	N	14.53	W	1.24	1.0	-9.4	
1196	5.50	315.40	95	1194.58	42.82	41.38	N	20.68	W	0.31	0.2	-2.4	
1290	6.80	314.30	94	1288.04	52.87	48.48	N	27.83	W	1.39	1.4	-1.2	
1386	8.30	318.40	96	1383.21	65.42	57.63	N	36.50	W	1.66	1.6	4.3	
1480	9.80	321.90	94	1476.04	80.01	69.00	N	45.94	W	1.70	1.6	3.7	
1574	11.70	321.20	94	1568.38	97.26	82.72	N	56.85	W	2.03	2.0	-0.7	
1668	12.90	323.50	94	1660.22	116.89	98.59	N	69.06	W	1.38	1.3	2.4	
1763	14.40	325.20	95	1752.54	138.72	116.81	N	82.11	W	1.63	1.6	1.8	
1858	16.30	325.00	95	1844.14	163.12	137.44	N	96.50	W	2.00	2.0	-0.2	
1952	17.70	325.60	94	1934.03	189.77	160.03	N	112.14	W	1.50	1.5	0.6	
2047	18.60	324.70	95	2024.31	218.49	184.31	N	129.06	W	0.99	0.9	-0.9	
2143	19.70	324.00	96	2114.99	249.16	209.90	N	147.42	W	1.17	1.1	-0.7	
2237	19.90	324.20	94	2203.44	280.19	235.69	N	166.09	W	0.22	0.2	0.2	
2332	20.50	323.60	95	2292.59	312.19	262.20	N	185.42	W	0.67	0.6	-0.6	
2427	22.20	323.30	95	2381.07	345.99	289.98	N	206.02	W	1.79	1.8	-0.3	
2521	23.10	323.30	94	2467.82	381.38	319.00	N	227.65	W	0.96	1.0	0.0	
2616	22.70	323.60	95	2555.33	417.50	348.70	N	249.66	W	0.44	-0.4	0.3	
2712	20.80	323.80	96	2644.49	452.23	377.36	N	270.72	W	1.98	-2.0	0.2	
2804	20.50	323.30	92	2730.58	483.92	403.46	N	290.00	W	0.38	-0.3	-0.5	
2900	19.80	322.10	96	2820.71	516.32	429.77	N	310.03	W	0.85	-0.7	-1.2	
2994	18.60	321.00	94	2909.48	546.72	453.98	N	329.25	W	1.33	-1.3	-1.2	
3089	17.90	321.50	95	2999.70	576.02	477.19	N	347.87	W	0.76	-0.7	0.5	
3185	17.90	322.20	96	3091.05	605.01	500.39	N	366.10	W	0.22	0.0	0.7	
3279	17.10	322.10	94	3180.70	632.76	522.71	N	383.44	W	0.85	-0.9	-0.1	
3375	16.50	324.30	96	3272.60	659.90	544.92	N	400.07	W	0.91	-0.6	2.3	
3469	16.40	321.90	94	3362.76	685.94	566.20	N	416.05	W	0.73	-0.1	-2.6	
3563	16.00	315.90	94	3453.03	711.89	585.95	N	433.25	W	1.83	-0.4	-6.4	
3658	19.00	313.10	95	3543.62	740.40	605.92	N	453.66	W	3.28	3.2	-2.9	
3753	20.80	303.40	95	3632.97	772.58	625.78	N	479.04	W	3.95	1.9	-10.2	
3847	21.30	303.40	94	3720.70	806.03	644.37	N	507.23	W	0.53	0.5	0.0	
3942	19.10	299.70	95	3809.85	838.36	661.57	N	535.14	W	2.68	-2.3	-3.9	
4037	17.90	295.20	95	3899.95	867.63	675.49	N	561.85	W	1.96	-1.3	-4.7	
4132	18.20	291.30	95	3990.28	895.62	687.09	N	588.89	W	1.31	0.3	-4.1	
4227	18.20	292.40	95	4080.52	923.62	698.13	N	616.42	W	0.36	0.0	1.2	
4322	18.10	289.40	95	4170.80	951.37	708.69	N	644.06	W	0.99	-0.1	-3.2	
4417	17.60	289.00	95	4261.23	978.37	718.27	N	671.56	W	0.54	-0.5	-0.4	
4511	16.50	286.50	94	4351.09	1003.66	726.69	N	697.80	W	1.41	-1.2	-2.7	
4606	16.70	289.70	95	4442.14	1028.62	735.12	N	723.58	W	0.98	0.2	3.4	
4701	17.30	289.70	95	4532.99	1054.47	744.48	N	749.73	W	0.63	0.6	0.0	
4795	17.80	291.10	94	4622.61	1080.97	754.37	N	776.30	W	0.70	0.5	1.5	
4890	16.40	291.60	95	4713.41	1107.24	764.53	N	802.31	W	1.48	-1.5	0.5	
4983	14.20	292.50	93	4803.11	1130.42	773.73	N	825.06	W	2.38	-2.4	1.0	
5078	11.60	292.90	95	4895.70	1150.53	781.91	N	844.63	W	2.74	-2.7	0.4	
5173	10.50	293.90	95	4988.94	1167.87	789.13	N	861.34	W	1.18	-1.2	1.1	
5268	9.10	296.20	95	5082.55	1183.39	795.95	N	876.00	W	1.53	-1.5	2.4	
5363	7.70	297.40	95	5176.53	1196.83	802.20	N	888.39	W	1.49	-1.5	1.3	
5458	6.30	298.90	95	5270.82	1208.11	807.65	N	898.60	W	1.49	-1.5	1.6	
5553	5.30	305.00	95	5365.33	1217.56	812.68	N	906.76	W	1.24	-1.1	6.4	
5649	4.40	313.60	96	5460.99	1225.65	817.77	N	913.06	W	1.20	-0.9	9.0	
5742	2.80	313.10	93	5553.80	1231.49	821.78	N	917.30	W	1.72	-1.7	-0.5	
5837	1.10	317.10	95	5648.74	1234.71	824.03	N	919.62	W	1.79	-1.8	4.2	
5932	1.10	319.60	95	5743.73	1236.52	825.40	N	920.83	W	0.05	0.0	2.6	
6120	0.80	348.20	188	5931.70	1239.35	828.06	N	922.27	W	0.29	-0.2	15.2	
6301	0.80	29.60	181	6112.68	1240.62	830.39	N	921.90	W	0.31	0.0	-176.0	
6498	0.60	19.20	197	6309.67	1241.28	832.56	N	920.88	W	0.12	-0.1	-5.3	
6688	0.30	8.60	190	6499.66	1241.92	833.99	N	920.48	W	0.16	-0.2	-5.6	
6878	0.40	355.50	190	6689.66	1242.66	835.15	N	920.46	W	0.07	0.1	182.6	
7066	0.70	351.10	188	6877.65	1244.01	836.93	N	920.69	W	0.16	0.2	-2.3	
7256	0.20	303.20	190	7067.64	1245.23	838.26	N	921.15	W	0.31	-0.3	-25.2	
7446	0.40	337.70	190	7257.64	1246.15	839.06	N	921.67	W	0.14	0.1	18.2	TD SURVET
7496	0.40	337.70	50	7307.64	1246.46	839.38	N	921.81	W	0.00	0.0	0.0	PROJECTIN TO BIT

Surveys

N/S	E/W	VS	TVD
0.38	0.17	0.12	119.00
1.15	0.31	0.52	211.00
2.74	0.30	1.58	301.98
5.17	0.23	3.24	391.95
8.14	-0.02	5.37	481.90
11.63	-0.22	7.82	572.83
14.60	-0.61	10.07	649.77
17.44	-1.47	12.59	723.71
20.35	-3.15	15.77	815.65
23.57	-5.95	20.00	911.55
28.68	-9.62	26.13	1006.34
34.90	-14.53	33.92	1100.01
41.38	-20.68	42.82	1194.58
48.48	-27.83	52.87	1288.04
57.63	-36.50	65.42	1383.21
69.00	-45.94	80.01	1476.04
82.72	-56.85	97.26	1568.38
98.59	-69.06	116.89	1660.22
116.81	-82.11	138.72	1752.54
137.44	-96.50	163.12	1844.14
160.03	-112.14	189.77	1934.03
184.31	-129.06	218.49	2024.31
209.90	-147.42	249.16	2114.99
235.69	-166.09	280.19	2203.44
262.20	-185.42	312.19	2292.59
289.98	-206.02	345.99	2381.07
319.00	-227.65	381.38	2467.82
348.70	-249.66	417.50	2555.33
377.36	-270.72	452.23	2644.49
403.46	-290.00	483.92	2730.58
429.77	-310.03	516.32	2820.71
453.98	-329.25	546.72	2909.48
477.19	-347.87	576.02	2999.70
500.39	-366.10	605.01	3091.05
522.71	-383.44	632.76	3180.70
544.92	-400.07	659.90	3272.60
566.20	-416.05	685.94	3362.76
585.95	-433.25	711.89	3453.03
605.92	-453.66	740.40	3543.62
625.78	-479.04	772.58	3632.97
644.37	-507.23	806.03	3720.70
661.57	-535.14	838.36	3809.85
675.49	-561.85	867.63	3899.95
687.09	-588.89	895.62	3990.28
698.13	-616.42	923.62	4080.52
708.69	-644.06	951.37	4170.80
718.27	-671.56	978.37	4261.23
726.69	-697.80	1003.66	4351.09
735.12	-723.58	1028.62	4442.14
744.48	-749.73	1054.47	4532.99
754.37	-776.30	1080.97	4622.61
764.53	-802.31	1107.24	4713.41
773.73	-825.06	1130.42	4803.11
781.91	-844.63	1150.53	4895.70
789.13	-861.34	1167.87	4988.94
795.95	-876.00	1183.39	5082.55
802.20	-888.39	1196.83	5176.53
807.65	-898.60	1208.11	5270.82
812.68	-906.76	1217.56	5365.33
817.77	-913.06	1225.65	5460.99
821.78	-917.30	1231.49	5553.80
824.03	-919.62	1234.71	5648.74
825.40	-920.83	1236.52	5743.73
828.06	-922.27	1239.35	5931.70
830.39	-921.90	1240.62	6112.68
832.56	-920.88	1241.28	6309.67
833.99	-920.48	1241.92	6499.66
835.15	-920.46	1242.66	6689.66
836.93	-920.69	1244.01	6877.65
838.26	-921.15	1245.23	7067.64
839.06	-921.67	1246.15	7257.64
839.38	-921.81	1246.46	7307.64
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