Company:	TRILOGY	Job Number:	PA-2526	Calculation Method	Minimum Curvature	8" Mud Mtr SN:	775-77242	8" Circ Hrs:
Field:	WATTENBERG	Magnetic Decl.:	8.64	Proposed Azimuth	239.40	Surface TD:	699	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 17-12	Total Survey Corr.:	8.64	Tie Into	Drill SURFACE	Production TD:	7466	6.5" Bit Hrs:
Rig:	CADE 25	Target Info:	1990' FNL 615'FWL			Spud Date:	10-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
118	0.60	337.20	118	118.00	-0.08	0.57	N	0.24	W	0.51	0.5	285.8	
208	0.90	284.60	90	207.99	0.35	1.18	N	1.11	W	0.80	0.3	-58.4	
295	1.10	252.60	87	294.98	1.64	1.10	N	2.56	W	0.67	0.2	-36.8	
385	3.10	258.60	90	384.91	4.78	0.37	N	5.77	W	2.23	2.2	6.7	
475	4.60	244.20	90	474.71	10.68	1.69	S	11.41	W	1.97	1.7	-16.0	
564	6.40	236.60	89	563.30	19.19	5.97	S	18.76	W	2.18	2.0	-8.5	
649	8.00	238.20	85	647.62	29.84	11.70	S	27.75	W	1.90	1.9	1.9	
754	8.90	235.40	105	751.48	45.24	20.16	S	40.64	W	0.94	0.9	-2.7	
849	10.10	230.80	95	845.18	60.81	29.60	S	53.15	W	1.49	1.3	-4.8	
945	12.00	233.60	96	939.40	79.07	40.84	S	67.71	W	2.06	2.0	2.9	
1040	13.50	235.40	95	1032.05	99.95	53.00	S	84.78	W	1.63	1.6	1.9	
1134	14.60	234.30	94	1123.24	122.70	66.14	S	103.44	W	1.20	1.2	-1.2	
1228	15.40	235.60	94	1214.04	146.96	80.11	S	123.36	W	0.92	0.9	1.4	
1323	15.40	239.60	95	1305.63	172.16	93.62	S	144.64	W	1.12	0.0	4.2	
1415	14.90	238.70	92	1394.43	196.20	105.94	S	165.29	W	0.60	-0.5	-1.0	
1512	15.50	240.00	97	1488.04	221.63	118.90	S	187.17	W	0.71	0.6	1.3	
1608	13.70	237.90	96	1580.93	245.82	131.36	S	207.91	W	1.95	-1.9	-2.2	
1703	15.10	241.00	95	1672.95	269.44	143.34	S	228.26	W	1.68	1.5	3.3	
1798	13.50	240.80	95	1765.00	292.90	154.75	S	248.77	W	1.69	-1.7	-0.2	
1891	14.80	238.00	93	1855.18	315.62	166.34	S	268.32	W	1.58	1.4	-3.0	
1986	14.80	239.30	95	1947.03	339.89	178.96	S	289.04	W	0.35	0.0	1.4	
2080	14.20	240.80	94	2038.03	363.42	190.72	S	309.43	W	0.75	-0.6	1.6	
2174	14.20	240.30	94	2129.16	386.47	202.05	S	329.51	W	0.13	0.0	-0.5	
2269	14.10	238.40	95	2221.28	409.69	213.89	S	349.48	W	0.50	-0.1	-2.0	
2363	14.90	237.90	94	2312.28	433.22	226.31	S	369.47	W	0.86	0.9	-0.5	
2458	15.40	241.70	95	2403.98	458.04	238.78	S	390.93	W	1.17	0.5	4.0	
2553	15.70	242.40	95	2495.51	483.48	250.72	S	413.42	W	0.37	0.3	0.7	
2648	14.50	239.80	95	2587.23	508.21	262.66	S	435.09	W	1.45	-1.3	-2.7	
2742	11.70	236.80	94	2678.77	529.50	273.80	S	453.24	W	3.06	-3.0	-3.2	
2837	12.90	239.10	95	2771.59	549.73	284.52	S	470.40	W	1.36	1.3	2.4	
2932	12.80	238.70	95	2864.21	570.86	295.43	S	488.50	W	0.14	-0.1	-0.4	
3027	12.00	236.50	95	2956.99	591.24	306.35	S	505.72	W	0.98	-0.8	-2.3	
3122	12.20	243.00	95	3049.89	611.12	316.36	S	522.90	W	1.45	0.2	6.8	
3217	12.50	241.20	95	3142.69	631.42	325.87	S	540.86	W	0.51	0.3	-1.9	
3312	11.70	240.80	95	3235.58	651.32	335.52	S	558.27	W	0.85	-0.8	-0.4	
3407	10.40	235.60	95	3328.82	669.51	345.06	S	573.76	W	1.72	-1.4	-5.5	
3502	11.30	238.70	95	3422.12	687.37	354.74	S	588.79	W	1.13	0.9	3.3	
3597	10.60	241.40	95	3515.39	705.41	363.76	S	604.41	W	0.91	-0.7	2.8	
3691	11.50	238.00	94	3607.65	723.42	372.87	S	619.95	W	1.18	1.0	-3.6	
3785	11.40	237.00	94	3699.78	742.07	382.89	S	635.69	W	0.24	-0.1	-1.1	
3880	12.70	236.80	95	3792.68	761.88	393.72	S	652.30	W	1.37	1.4	-0.2	
3974	12.80	238.70	94	3884.36	782.62	404.79	S	669.84	W	0.46	0.1	2.0	
4069	11.90	240.10	95	3977.16	802.94	415.14	S	687.33	W	1.00	-0.9	1.5	
4164	12.00	238.40	95	4070.11	822.60	425.20	S	704.23	W	0.39	0.1	-1.8	
4260	12.00	238.90	96	4164.01	842.56	435.58	S	721.27	W	0.11	0.0	0.5	
4353	13.10	241.20	93	4254.79	862.76	445.65	S	738.79	W	1.30	1.2	2.5	
4448	13.80	241.70	95	4347.18	884.85	456.21	S	758.20	W	0.75	0.7	0.5	
4542	11.90	239.30	94	4438.82	905.74	466.48	S	776.41	W	2.10	-2.0	-2.6	
4637	12.30	236.60	95	4531.71	925.64	477.05	S	793.28	W	0.73	0.4	-2.8	
4732	12.80	240.30	95	4624.44	946.27	487.83	S	810.87	W	1.00	0.5	3.9	
4827	12.00	240.70	95	4717.23	966.67	497.88	S	828.62	W	0.85	-0.8	0.4	
4922	9.20	244.90	95	4810.60	984.10	505.94	S	844.11	W	3.06	-2.9	4.4	
5017	7.50	250.70	95	4904.59	997.75	511.21	S	856.84	W	1.99	-1.8	6.1	
5112	6.00	252.40	95	4998.93	1008.66	514.76	S	867.43	W	1.59	-1.6	1.8	
5206	3.30	258.10	94	5092.61	1016.01	516.80	S	874.76	W	2.91	-2.9	6.1	
5301	1.40	281.50	95	5187.53	1019.47	517.13	S	878.57	W	2.20	-2.0	24.6	
5396	0.70	313.80	95	5282.51	1020.48	516.50	S	880.13	W	0.94	-0.7	34.0	
5585	0.40	84.80	189	5471.51	1020.20	515.64	S	880.30	W	0.53	-0.2	-121.2	
5776	0.70	87.70	191	5662.50	1018.57	515.53	S	878.47	W	0.16	0.2	1.5	
5966	0.40	169.50	190	5852.49	1017.77	516.14	S	877.19	W	0.40	-0.2	43.1	
6154	0.40	50.50	188	6040.49	1017.35	516.37	S	876.57	W	0.37	0.0	-63.3	
6343	0.70	224.70	189	6229.49	1017.82	516.77	S	876.87	W	0.58	0.2	92.2	
6533	0.30	182.70	190	6419.48	1019.21	518.09	S	877.71	W	0.27	-0.2	-22.1	
6722	1.40	222.20	189	6608.46	1021.69	520.30	S	879.28	W	0.63	0.6	20.9	
6911	1.00	233.30	189	6797.41	1025.53	522.99	S	882.16	W	0.24	-0.2	5.9	
7195	1.10	167.90	284	7081.38	1028.86	527.14	S	883.57	W	0.40	0.0	-23.0	
7416	1.40	192.50	221	7302.32	1031.38	531.85	S	883.71	W	0.28	0.1	11.1	TD SURVEY
7466	1.40	192.50	50	7352.31	1032.22	533.04	S	883.98	W	0.00	0.0	0.0	BIT PROJECTION

Surveys

N/S	E/W	VS	TVD
0.57	-0.24	-0.08	118.00
1.18	-1.11	0.35	207.99
1.10	-2.56	1.64	294.98
0.37	-5.77	4.78	384.91
-1.69	-11.41	10.68	474.71
-5.97	-18.76	19.19	563.30
-11.70	-27.75	29.84	647.62
-20.16	-40.64	45.24	751.48
-29.60	-53.15	60.81	845.18
-40.84	-67.71	79.07	939.40
-53.00	-84.78	99.95	1032.05
-66.14	-103.44	122.70	1123.24
-80.11	-123.36	146.96	1214.04
-93.62	-144.64	172.16	1305.63
-105.94	-165.29	196.20	1394.43
-118.90	-187.17	221.63	1488.04
-131.36	-207.91	245.82	1580.93
-143.34	-228.26	269.44	1672.95
-154.75	-248.77	292.90	1765.00
-166.34	-268.32	315.62	1855.18
-178.96	-289.04	339.89	1947.03
-190.72	-309.43	363.42	2038.03
-202.05	-329.51	386.47	2129.16
-213.89	-349.48	409.69	2221.28
-226.31	-369.47	433.22	2312.28
-238.78	-390.93	458.04	2403.98
-250.72	-413.42	483.48	2495.51
-262.66	-435.09	508.21	2587.23
-273.80	-453.24	529.50	2678.77
-284.52	-470.40	549.73	2771.59
-295.43	-488.50	570.86	2864.21
-306.35	-505.72	591.24	2956.99
-316.36	-522.90	611.12	3049.89
-325.87	-540.86	631.42	3142.69
-335.52	-558.27	651.32	3235.58
-345.06	-573.76	669.51	3328.82
-354.74	-588.79	687.37	3422.12
-363.76	-604.41	705.41	3515.39
-372.87	-619.95	723.42	3607.65
-382.89	-635.69	742.07	3699.78
-393.72	-652.30	761.88	3792.68
-404.79	-669.84	782.62	3884.36
-415.14	-687.33	802.94	3977.16
-425.20	-704.23	822.60	4070.11
-435.58	-721.27	842.56	4164.01
-445.65	-738.79	862.76	4254.79
-456.21	-758.20	884.85	4347.18
-466.48	-776.41	905.74	4438.82
-477.05	-793.28	925.64	4531.71
-487.83	-810.87	946.27	4624.44
-497.88	-828.62	966.67	4717.23
-505.94	-844.11	984.10	4810.60
-511.21	-856.84	997.75	4904.59
-514.76	-867.43	1008.66	4998.93
-516.80	-874.76	1016.01	5092.61
-517.13	-878.57	1019.47	5187.53
-516.50	-880.13	1020.48	5282.51
-515.64	-880.30	1020.20	5471.51
-515.53	-878.47	1018.57	5662.50
-516.14	-877.19	1017.77	5852.49
-516.37	-876.57	1017.35	6040.49
-516.77	-876.87	1017.82	6229.49
-518.09	-877.71	1019.21	6419.48
-520.30	-879.28	1021.69	6608.46
-522.99	-882.16	1025.53	6797.41
-527.14	-883.57	1028.86	7081.38
-531.85	-883.71	1031.38	7302.32
-533.04	-883.98	1032.22	7352.31
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