

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (sg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
15/Sep/2013 20:46	1	1761	Water Based	8.3	27	8.0	10.0	0 / 99	Active Mud Pit	800	0.0
17/Sep/2013 02:23	1	6931	Water Based	8.3	28	8.0	10.0	0 / 99	Active Mud Pit	900	0.0

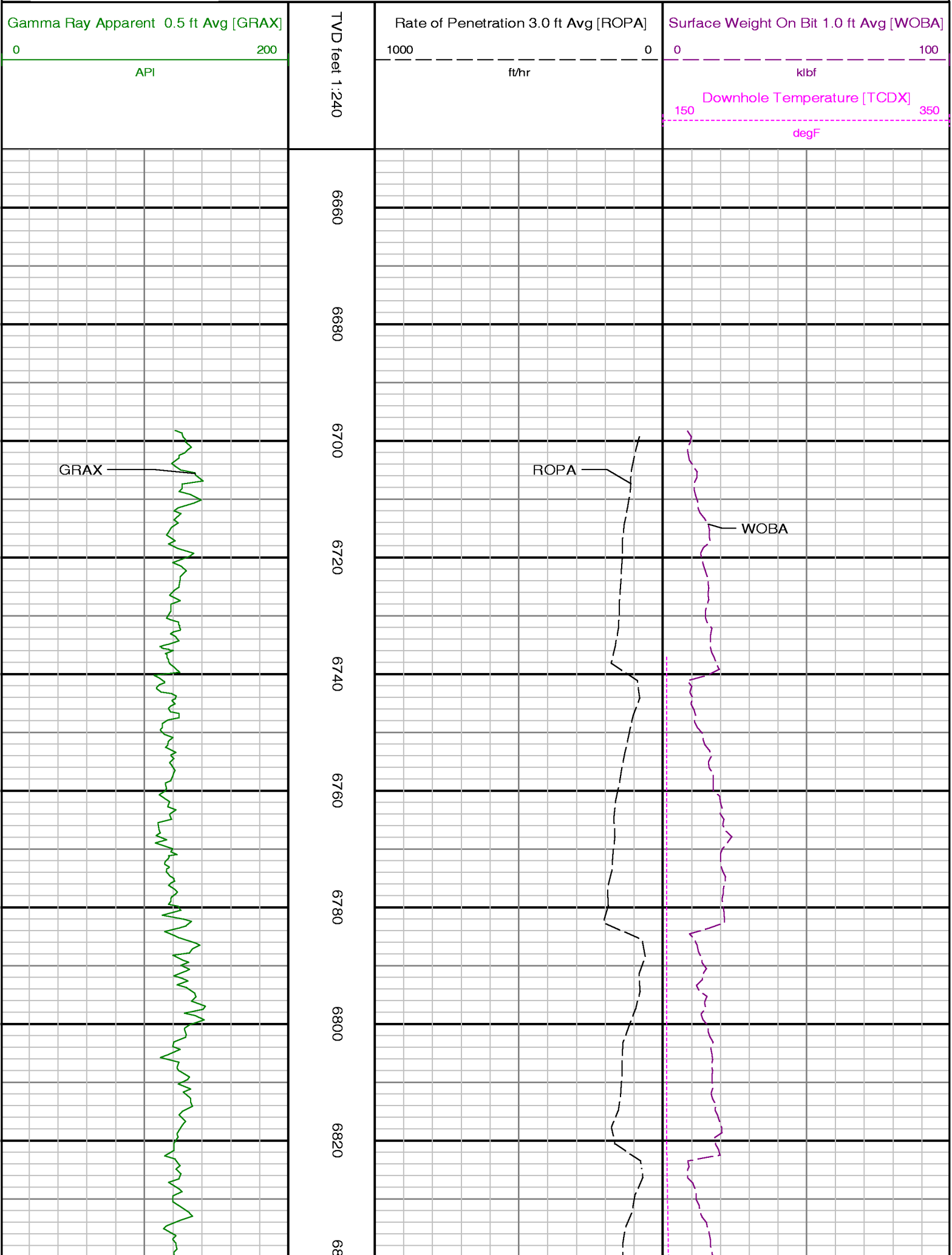
Mnemonics		
Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg.	API
ROPA	Rate of Penetration, 3.0 ft. Avg.	ft/hr
TCDX	Downhole Temperature	degF
WOBA	Surface Weight on Bit, 1.0 ft. Avg.	klbf

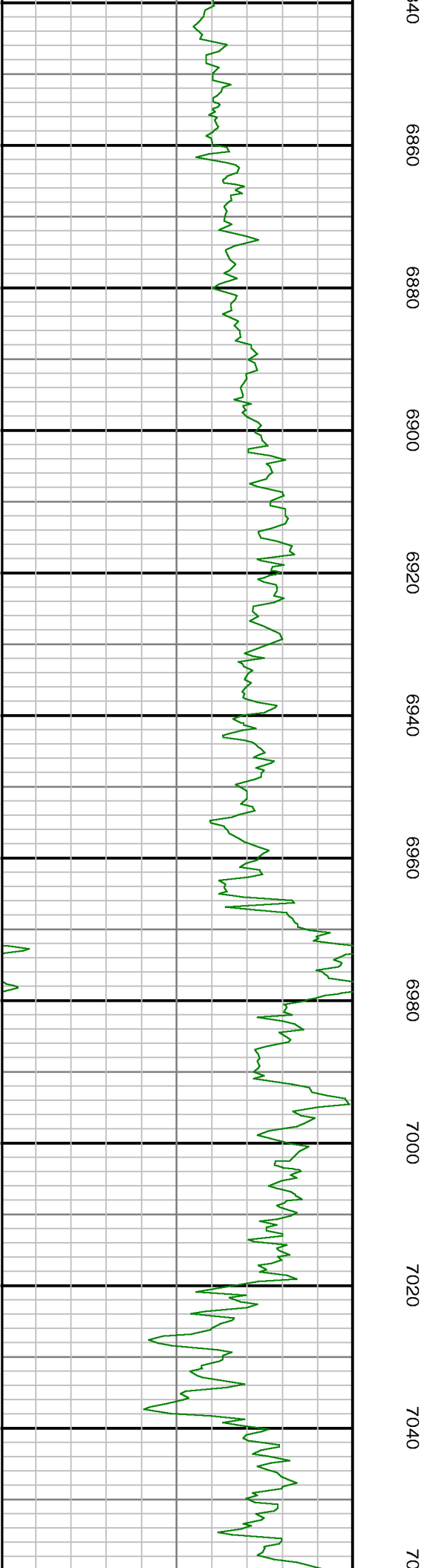
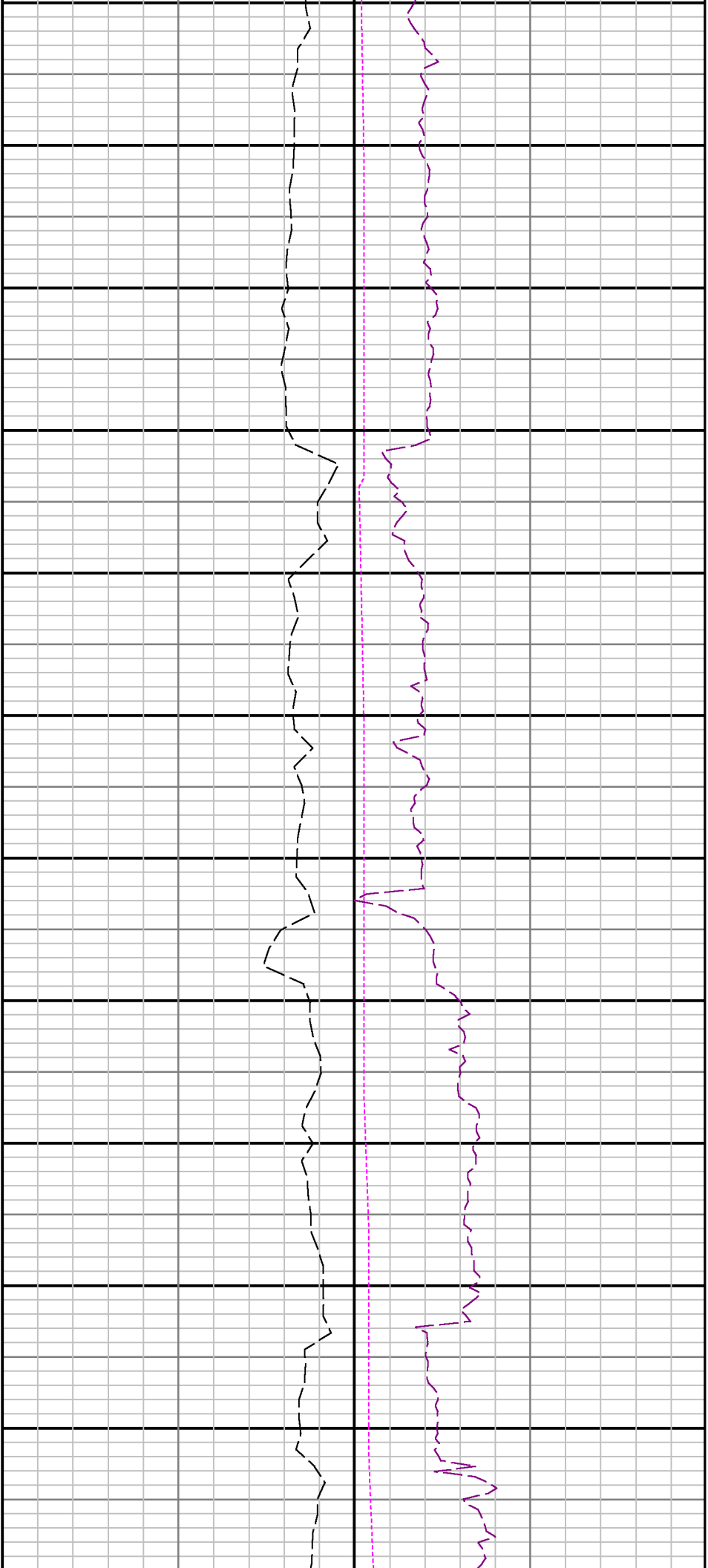
Equipment and Service Data						
LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (m.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12546347	Directional	56.28	6.750	0.000
1	SRIG	11732967	Gamma	52.91	6.750	0.000

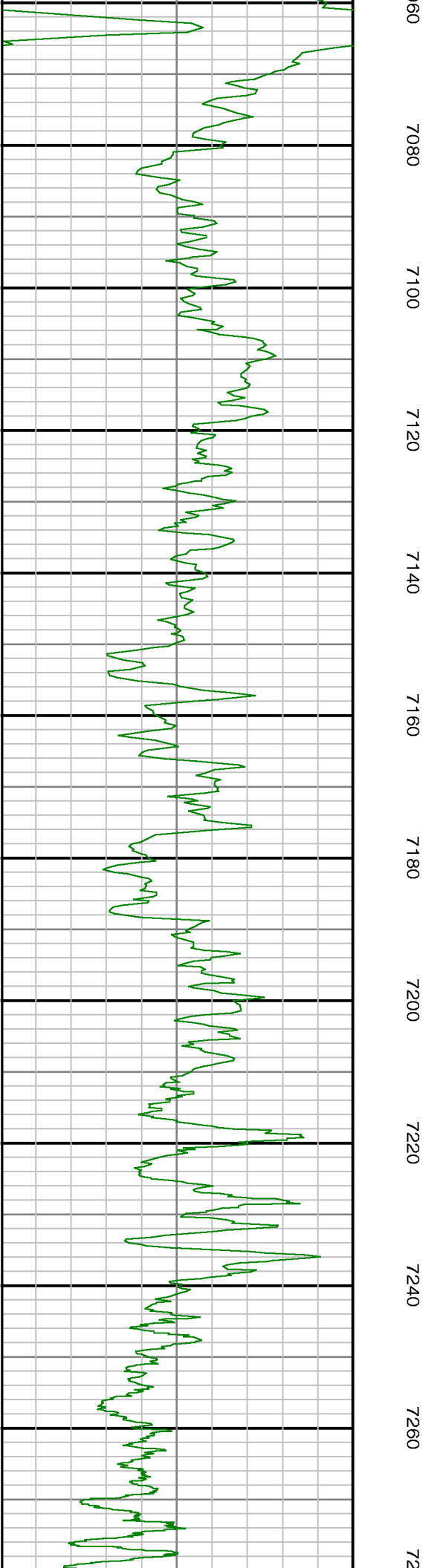
Service and Tool Mnemonics		
Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments	
<p>1.) Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.</p> <p>2.) Baker Hughes run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1047 to 7815 feet MD (1047 to 7288 feet TVD).</p> <p>3.) The interval from 1047 to 6736 feet MD (1047 to 6631 feet TVD) was not logged due to directional only services being provided through the straight-hole and nudge section for Baker Hughes run 1.</p>	

Remarks			
Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.
1	6736	8.750	1
Begin logging due to directional only service provided thru vertical section.			







	1922.00	15.0800	28.4800	93.51	39.24	1913.22	-93.51	107.59	92.00	2.30	2.43	2.30
	2013.00	15.9900	31.9900	114.54	51.52	2000.90	-114.55	131.95	91.00	1.44	1.00	3.86
	2104.00	17.4900	31.7800	136.80	65.37	2088.04	-136.81	158.16	91.00	1.65	1.65	-0.23
	2196.00	16.9200	31.5900	159.95	79.66	2175.92	-159.97	185.38	92.00	0.62	-0.62	-0.21
	2288.00	16.4100	30.1900	182.59	93.21	2264.06	-182.61	211.76	92.00	0.71	-0.55	-1.52
	2379.00	15.8900	27.4500	204.76	105.41	2351.47	-204.78	237.06	91.00	1.01	-0.57	-3.01
	2471.00	16.7800	29.7300	227.47	117.81	2439.75	-227.49	262.93	92.00	1.19	0.97	2.48
	2563.00	16.3000	28.6000	250.33	130.57	2527.94	-250.36	289.12	92.00	0.63	-0.52	-1.23
	2655.00	17.4300	29.7200	273.64	143.58	2615.99	-273.66	315.81	92.00	1.28	1.23	1.22
	2747.00	17.5700	29.8300	297.65	157.32	2703.73	-297.68	343.48	92.00	0.16	0.15	0.12
	2838.00	18.1000	30.6100	321.73	171.35	2790.36	-321.76	371.35	91.00	0.64	0.58	0.86
	2930.00	18.1400	30.5400	346.37	185.91	2877.79	-346.40	399.96	92.00	0.05	0.04	-0.08
	3021.00	16.9000	31.0100	369.90	199.92	2964.57	-369.94	427.35	91.00	1.37	-1.36	0.52
	3113.00	16.4900	31.2400	392.53	213.58	3052.69	-392.57	453.78	92.00	0.45	-0.45	0.25
	3204.00	15.3500	30.8500	413.91	226.46	3140.20	-413.95	478.74	91.00	1.26	-1.25	-0.43
	3296.00	14.8400	33.8500	434.15	239.26	3229.03	-434.19	502.69	92.00	1.01	-0.55	3.26
	3380.00	14.3100	27.3600	452.31	250.03	3310.33	-452.35	523.80	84.00	2.04	-0.63	-7.73
	3466.00	14.9200	27.8100	471.54	260.08	3393.55	-471.58	545.50	86.00	0.72	0.71	0.52
	3551.00	15.7900	22.7900	491.88	269.66	3475.51	-491.93	567.99	85.00	1.87	1.02	-5.91
	3636.00	15.7500	24.6700	513.03	278.96	3557.32	-513.07	591.08	85.00	0.60	-0.05	2.21
	3721.00	15.6000	30.8400	533.32	289.63	3639.16	-533.37	614.02	85.00	1.97	-0.18	7.26
	3807.00	15.8600	32.9300	553.12	301.95	3721.94	-553.17	637.33	86.00	0.72	0.30	2.43
	3891.00	14.6900	32.6000	571.72	313.93	3802.97	-571.78	659.46	84.00	1.40	-1.39	-0.39
	3977.00	14.8500	32.0800	590.25	325.65	3886.13	-590.30	681.38	86.00	0.24	0.19	-0.60
	4062.00	14.5600	28.0300	608.91	336.46	3968.35	-608.97	702.95	85.00	1.26	-0.34	-4.76
	4147.00	12.6500	25.9600	626.71	345.56	4050.96	-626.77	722.94	85.00	2.32	-2.25	-2.44
	4232.00	10.9200	22.4100	642.52	352.70	4134.17	-642.58	740.29	85.00	2.21	-2.04	-4.18
	4317.00	9.4200	22.9700	656.37	358.48	4217.83	-656.43	755.30	85.00	1.77	-1.76	0.66
	4402.00	8.8700	22.1700	668.84	363.67	4301.75	-668.91	768.81	85.00	0.66	-0.65	-0.94
	4487.00	7.9200	17.6000	680.49	367.92	4385.84	-680.56	781.21	85.00	1.36	-1.12	-5.38
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	4573.00	7.3700	24.1600	691.17	371.96	4471.07	-691.24	792.63	86.00	1.20	-0.64	7.63
	4658.00	6.3700	37.0700	699.91	377.04	4555.47	-699.98	802.73	85.00	2.16	-1.18	15.19
	4743.00	6.2400	40.7100	707.18	382.89	4639.95	-707.24	812.06	85.00	0.49	-0.15	4.28
	4828.00	6.2700	44.5000	713.99	389.16	4724.45	-714.06	821.32	85.00	0.49	0.04	4.46
	4913.00	5.3400	32.2400	720.64	394.52	4809.01	-720.71	829.87	85.00	1.82	-1.09	-14.42
	4998.00	3.9500	24.8700	726.65	397.87	4893.73	-726.72	836.74	85.00	1.78	-1.64	-8.67
	5083.00	3.6000	24.2800	731.74	400.19	4978.55	-731.81	842.33	85.00	0.41	-0.41	-0.69
	5168.00	2.0800	20.9500	735.61	401.84	5063.44	-735.68	846.54	85.00	1.80	-1.79	-3.92
	5253.00	1.8200	5.7300	738.39	402.53	5148.39	-738.46	849.41	85.00	0.68	-0.31	-17.91
	5338.00	1.7700	7.7700	741.04	402.84	5233.35	-741.11	852.07	85.00	0.10	-0.06	2.40
	5423.00	0.4600	324.4200	742.61	402.82	5318.33	-742.68	853.65	85.00	1.73	-1.54	-51.00
	5509.00	0.2500	202.9400	742.72	402.55	5404.33	-742.79	853.94	86.00	0.73	-0.24	-141.26
	5594.00	0.1200	224.7700	742.49	402.41	5489.33	-742.56	854.21	85.00	0.17	-0.15	25.68
	5849.00	0.5500	153.4300	741.20	402.77	5744.33	-741.27	855.55	255.00	0.21	0.17	-27.98
	6105.00	0.1200	221.3300	739.90	403.14	6000.32	-739.97	856.90	256.00	0.20	-0.17	26.52
	6361.00	0.1600	92.5000	739.69	403.32	6256.32	-739.76	857.18	256.00	0.10	0.02	-50.32
	6616.00	0.2000	156.2400	739.26	403.86	6511.32	-739.33	857.86	255.00	0.08	0.02	25.00
	6702.00	0.5800	122.9900	738.89	404.28	6597.32	-738.96	858.43	86.00	0.50	0.44	-38.66
	6787.00	0.8700	133.2400	738.21	405.12	6682.31	-738.28	859.50	85.00	0.37	0.34	12.06
	6830.00	4.8600	161.6800	736.26	405.93	6725.25	-736.33	861.62	43.00	9.57	9.28	66.14
	6872.00	9.5800	162.8500	731.23	407.52	6766.91	-731.30	866.89	42.00	11.24	11.24	2.79
	6915.00	14.0700	163.5700	722.79	410.05	6808.98	-722.86	875.70	43.00	10.45	10.44	1.67
	6957.00	18.4800	165.1700	711.45	413.20	6849.29	-711.53	887.47	42.00	10.55	10.50	3.81
	7002.00	24.2000	170.1900	695.46	416.60	6891.19	-695.53	903.82	45.00	13.33	12.71	11.16
	7042.00	28.0300	172.5300	678.05	419.22	6927.10	-678.13	921.43	40.00	9.91	9.57	5.85
	7085.00	32.2600	175.3100	656.59	421.47	6964.28	-656.66	943.01	43.00	10.36	9.84	6.47
	7128.00	35.1000	177.4200	632.79	422.97	7000.06	-632.87	966.85	43.00	7.14	6.60	4.91
	7171.00	38.3700	178.8200	607.09	423.80	7034.52	-607.17	992.56	43.00	7.85	7.60	3.26
	7213.00	42.2800	178.4600	579.93	424.45	7066.53	-580.00	1019.74	42.00	9.33	9.31	-0.86
	7256.00	48.3500	177.5800	549.39	425.52	7096.76	-549.46	1050.29	43.00	14.19	14.12	-2.05
	7298.00	53.2000	179.1600	516.88	426.43	7123.31	-516.95	1082.82	42.00	11.91	11.55	3.76
	7341.00	57.0700	179.9600	481.60	426.69	7147.88	-481.68	1118.09	43.00	9.13	9.00	1.86

	7341.00	59.3700	181.9800	441.58	423.35	7147.38	-441.88	1118.89	43.00	6.15	5.88	1.33
	7383.00	59.4100	181.5300	445.90	426.22	7169.99	-445.97	1153.80	42.00	6.41	5.57	3.74
	7426.00	60.4000	181.3500	408.71	425.29	7191.55	-408.78	1191.00	43.00	2.33	2.30	-0.42
	7468.00	65.6600	180.4600	371.29	424.70	7210.59	-371.37	1228.42	42.00	12.67	12.52	-2.12
	7511.00	69.5100	180.3900	331.55	424.41	7226.99	-331.63	1268.17	43.00	8.95	8.95	-0.16
	7553.00	71.5600	180.6200	291.96	424.06	7240.98	-292.03	1307.76	42.00	4.91	4.88	0.55
	7596.00	72.4400	181.4400	251.07	423.32	7254.27	-251.14	1348.66	43.00	2.73	2.05	1.91
	7638.00	76.6900	181.6500	210.61	422.23	7265.45	-210.68	1389.13	42.00	10.13	10.12	0.50
	7681.00	79.3100	180.2800	168.56	421.52	7274.39	-168.63	1431.19	43.00	6.84	6.09	-3.19
	7724.00	82.7700	180.0800	126.09	421.39	7281.08	-126.16	1473.66	43.00	8.06	8.05	-0.47
	7758.00	85.0000	178.8900	92.29	421.70	7284.70	-92.36	1507.46	34.00	7.42	6.56	-3.50
	7849.00	89.5600	178.5800	1.43	423.70	7289.02	-1.51	1598.33	91.00	5.02	5.01	-0.34
	7940.00	89.3100	177.6200	-89.51	426.72	7289.92	89.44	1689.33	91.00	1.09	-0.27	-1.05
	8032.00	90.0600	179.5500	-181.48	428.99	7290.42	181.40	1781.32	92.00	2.25	0.82	2.10
	8123.00	89.4400	180.3700	-272.47	429.05	7290.82	272.40	1872.32	91.00	1.13	-0.68	0.90
	8214.00	89.3500	181.9400	-363.45	427.22	7291.78	363.37	1963.31	91.00	1.73	-0.10	1.73
	8306.00	89.6900	183.6900	-455.33	422.70	7292.55	455.26	2055.31	92.00	1.94	0.37	1.90
	8398.00	89.6600	183.4900	-547.15	416.94	7293.07	547.07	2147.30	92.00	0.22	-0.03	-0.22
	8489.00	90.3300	184.3300	-637.93	410.74	7293.08	637.86	2238.30	91.00	1.18	0.74	0.92
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	8581.00	90.0600	183.5300	-729.72	404.43	7292.77	729.65	2330.30	92.00	0.92	-0.29	-0.87
	8673.00	89.5600	181.9800	-821.61	400.01	7293.07	821.54	2422.30	92.00	1.77	-0.54	-1.68
	8765.00	89.7500	180.2100	-913.58	398.25	7293.63	913.51	2514.29	92.00	1.93	0.21	-1.92
	8857.00	90.2100	180.9000	-1005.58	397.36	7293.66	1005.51	2606.29	92.00	0.90	0.50	0.75
	8948.00	92.1200	180.3400	-1096.55	396.38	7291.81	1096.48	2697.27	91.00	2.19	2.10	-0.62
	9040.00	91.0100	178.5400	-1188.51	397.28	7289.30	1188.44	2789.23	92.00	2.30	-1.21	-1.96
	9131.00	88.9500	179.2800	-1279.48	399.01	7289.33	1279.41	2880.22	91.00	2.41	-2.26	0.81
	9223.00	90.1500	178.5400	-1371.46	400.76	7290.05	1371.39	2972.22	92.00	1.53	1.30	-0.80
	9315.00	89.7200	178.0100	-1463.42	403.53	7290.16	1463.35	3064.22	92.00	0.74	-0.47	-0.58
	9406.00	90.0600	179.0900	-1554.39	405.83	7290.33	1554.32	3155.22	91.00	1.24	0.37	1.19
	9497.00	89.5300	178.3100	-1645.36	407.89	7290.66	1645.29	3246.21	91.00	1.04	-0.58	-0.86
	9589.00	88.0200	178.6800	-1737.31	410.31	7292.62	1737.24	3338.19	92.00	1.69	-1.64	0.40
	9680.00	88.9400	180.5500	-1828.27	410.92	7295.04	1828.20	3429.15	91.00	2.29	1.01	2.05
	9772.00	90.2400	180.8900	-1920.26	409.76	7295.70	1920.19	3521.15	92.00	1.46	1.41	0.37
	9864.00	88.9800	179.6300	-2012.25	409.35	7296.32	2012.18	3613.14	92.00	1.94	-1.37	-1.37
	9955.00	88.9200	180.1300	-2103.24	409.54	7297.99	2103.16	3704.13	91.00	0.55	-0.07	0.55
	10047.00	87.6800	179.1600	-2195.19	410.11	7300.72	2195.12	3796.08	92.00	1.71	-1.35	-1.05
	10138.00	88.7900	180.2300	-2286.14	410.59	7303.52	2286.07	3887.04	91.00	1.69	1.22	1.18
	10229.00	89.3500	180.5100	-2377.13	410.00	7305.00	2377.06	3978.03	91.00	0.69	0.62	0.31
	10315.00	89.8400	182.0700	-2463.10	408.07	7305.61	2463.03	4064.02	86.00	1.90	0.57	1.81
	10400.00	91.0400	181.3600	-2548.06	405.52	7304.95	2547.99	4149.02	85.00	1.64	1.41	-0.84
	10485.00	90.0600	181.3400	-2633.03	403.52	7304.14	2632.96	4234.01	85.00	1.15	-1.15	-0.02
	10570.00	89.2600	181.4700	-2718.00	401.44	7304.64	2717.93	4319.01	85.00	0.95	-0.94	0.15
	10656.00	90.6400	180.8600	-2803.98	399.69	7304.72	2803.91	4405.01	86.00	1.75	1.60	-0.71
	10741.00	91.5300	182.2200	-2888.93	397.40	7303.11	2888.86	4489.99	85.00	1.91	1.05	1.60
	10826.00	90.2100	181.0600	-2973.89	394.97	7301.82	2973.82	4574.98	85.00	2.07	-1.55	-1.36
	10911.00	90.0300	182.0900	-3058.85	392.64	7301.64	3058.78	4659.97	85.00	1.23	-0.21	1.21
	10996.00	90.0000	178.3600	-3143.84	392.30	7301.62	3143.77	4744.96	85.00	4.39	-0.04	-4.39
	11081.00	90.3000	178.2200	-3228.80	394.84	7301.39	3228.73	4829.96	85.00	0.39	0.35	-0.16
	11166.00	88.8600	178.3500	-3313.76	397.38	7302.02	3313.69	4914.95	85.00	1.70	-1.69	0.15
	11252.00	89.7200	177.9900	-3399.70	400.13	7303.08	3399.63	5000.95	86.00	1.08	1.00	-0.42
	11337.00	90.4300	178.6600	-3484.67	402.61	7302.97	3484.60	5085.95	85.00	1.15	0.84	0.79
	11422.00	90.3600	178.5000	-3569.64	404.72	7302.39	3569.57	5170.94	85.00	0.21	-0.08	-0.19
	11507.00	90.5500	178.7600	-3654.61	406.75	7301.71	3654.54	5255.94	85.00	0.38	0.22	0.31
	11592.00	90.6100	178.5000	-3739.58	408.78	7300.85	3739.51	5340.94	85.00	0.31	0.07	-0.31
	11677.00	89.8700	178.4700	-3824.55	411.03	7300.49	3824.48	5425.93	85.00	0.87	-0.87	-0.04
	11762.00	89.4100	178.8900	-3909.53	412.99	7301.03	3909.46	5510.93	85.00	0.73	-0.54	0.49
	11847.00	89.3200	178.2900	-3994.50	415.08	7301.97	3994.42	5595.93	85.00	0.71	-0.11	-0.71
	11933.00	89.8100	180.0200	-4080.48	416.35	7302.62	4080.41	5681.92	86.00	2.09	0.57	2.01
	12018.00	90.4300	181.1700	-4165.47	415.47	7302.45	4165.40	5766.92	85.00	1.54	0.73	1.35
	12103.00	90.8000	181.0100	-4250.45	413.85	7301.53	4250.38	5851.91	85.00	0.47	0.44	-0.19
	12188.00	90.6700	181.1600	-4335.43	412.24	7300.44	4335.36	5936.91	85.00	0.23	-0.15	0.18
	12273.00	90.9500	181.4900	-4420.40	410.27	7299.24	4420.33	6021.90	85.00	0.51	0.33	0.39

	12358.00	90.6400	180.9200	-4505.37	408.49	7298.06	4505.30	6106.89	85.00	0.76	-0.36	-0.67
	12443.00	90.6400	180.6700	-4590.36	407.31	7297.11	4590.29	6191.88	85.00	0.29	0.00	-0.29
	12528.00	89.0100	180.4000	-4675.35	406.51	7297.37	4675.28	6276.88	85.00	1.94	-1.92	-0.32
	12614.00	88.9500	180.3000	-4761.34	405.99	7298.90	4761.27	6362.87	86.00	0.14	-0.07	-0.12
	12699.00	89.8100	181.1800	-4846.32	404.89	7299.82	4846.25	6447.86	85.00	1.45	1.01	1.04
	12784.00	90.0900	181.8500	-4931.29	402.64	7299.90	4931.22	6532.86	85.00	0.85	0.33	0.79
	12869.00	90.4500	182.5900	-5016.23	399.35	7299.50	5016.16	6617.86	85.00	0.97	0.42	0.87
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	12954.00	89.7800	182.1800	-5101.15	395.81	7299.33	5101.08	6702.86	85.00	0.92	-0.79	-0.48
	13039.00	90.0000	181.0400	-5186.12	393.43	7299.49	5186.05	6787.86	85.00	1.37	0.26	-1.34
	13124.00	89.2900	180.7300	-5271.11	392.11	7300.02	5271.04	6872.85	85.00	0.91	-0.84	-0.36
	13209.00	89.9600	178.7700	-5356.10	392.48	7300.57	5356.03	6957.85	85.00	2.44	0.79	-2.31
	13294.00	90.0000	179.2800	-5441.09	393.93	7300.60	5441.02	7042.85	85.00	0.60	0.05	0.60
	13379.00	89.9300	180.0000	-5526.08	394.46	7300.65	5526.01	7127.85	85.00	0.85	-0.08	0.85
	13464.00	90.5500	180.6700	-5611.08	393.97	7300.30	5611.01	7212.84	85.00	1.07	0.73	0.79
	13549.00	89.2500	180.2700	-5696.07	393.27	7300.45	5696.01	7297.84	85.00	1.60	-1.53	-0.47
	13634.00	89.9000	178.6500	-5781.07	394.07	7301.08	5781.00	7382.84	85.00	2.05	0.76	-1.91
	13720.00	89.8400	178.0300	-5867.03	396.56	7301.27	5866.96	7468.84	86.00	0.72	-0.07	-0.72
	13805.00	89.0700	177.4800	-5951.96	399.89	7302.08	5951.89	7553.83	85.00	1.11	-0.91	-0.65
	13890.00	89.5600	179.2700	-6036.91	402.30	7303.10	6036.84	7638.82	85.00	2.18	0.58	2.11
	13975.00	90.1200	179.6400	-6121.91	403.11	7303.33	6121.84	7723.82	85.00	0.79	0.66	0.44
	14061.00	90.2700	177.9000	-6207.89	404.96	7303.04	6207.82	7809.82	86.00	2.03	0.17	-2.02
	14146.00	90.3300	178.9800	-6292.85	407.27	7302.60	6292.78	7894.81	85.00	1.27	0.07	1.27
	14231.00	89.3200	176.6600	-6377.78	410.50	7302.86	6377.71	7979.81	85.00	2.98	-1.19	-2.73
	14316.00	89.2200	178.3000	-6462.69	414.24	7303.94	6462.62	8064.80	85.00	1.93	-0.12	1.93
	14401.00	89.6200	179.2700	-6547.67	416.04	7304.80	6547.59	8149.79	85.00	1.23	0.47	1.14
	14471.00	89.9600	178.7300	-6617.66	417.26	7305.06	6617.58	8219.79	70.00	0.91	0.49	-0.77
	14528.00	89.9600	178.7300	-6674.64	418.53	7305.10	6674.57	8276.79	57.00	0.00	0.00	0.00
	Projection to TD:											
	14528.00	89.9600	178.7300	-6674.64	418.53	7305.10	6674.57	8276.79	0.00	0.00	0.00	0.00