APPENDIX D

WELL DEVELOPMENT LOGS

Parcel 166

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-166-GP01 (Well Number) **Static Water Level:** 1.0 ft

Target Purge Volume: _____ gal WELL DEPTH: 13.8 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 199~~8~~ 1999	Time 24hr 15 15	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
1-11-99	15:20	.3	2.1	1.5	14.3	7.35	1.61	999	9.25	N/A	W. Allen	muddy, gray
	15:25	pump	clogged		no	reading						
	15:30	.3	2.6	3.0	13.6	7.24	1.83	999	10.28			muddy, gray
	15:35	.3	2.64	4.5	16.7	7.05	1.83	999	8.45			" "
	15:40	pump	clogged	again	, had	to	clean	impellers	once	again		
	15:45	.3	2.60	6.0	17.3	7.01	1.91	999	8.33			" "
	15:50	.3	2.78	7.5	17.7	7.26	1.92	999	8.14			" "
	16:00	.3	3.2	9.0	19.7	7.08	1.88	999	7.28			" "
	16:10	.3	3.24	~~10.5~~ 12	19.5	6.95	1.87	470	7.43			gray, cloudy
	16:20	.3	3.05	~~12.0~~ 15	19.5	6.94	1.87	575	7.42			" "
	16:30	.3	3.2	~~13.5~~ 18	19.6	6.94	1.87	617	7.48			" "

Parcel 166

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

NW 8/3

SITE ID: **LOCATION ID:** FTA-166-GP01 (Well Number) **Static Water Level:** 1.3 ft

Target Purge Volume: _____ gal WELL DEPTH: 13.9 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998 1999	Time 24hr 0755	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
1-12-99	08:00	.3	2.44	1.5	18.3	6.87	1.91	999	7.59	N/A	W. Kallan	Gray, muddy
	08:05	.3	2.48	3.0	19.7	7.00	1.91	999	6.96			" "
	08:10	.3	2.52	4.5	15.5	7.12	1.90	999	8.66			" "
	08:20	.3	2.48	~~6.0~~ 7.5	19.4	7.04	1.91	999	7.30			" "
	08:30	.3	2.35	~~7.5~~ 10.5	19.7	7.04	1.92	999	7.51			" "
	08:40	.3	2.4	~~9.0~~ 13.5	22.8	7.05	1.94	999	6.67			" "
	08:50	.3	2.9	~~10.5~~ 16.5	21.1	7.10	1.92	369	7.42			gray, cloudy
	09:00	.3	2.88	~~12.0~~ 19.5	21.4	7.08	1.94	343	7.29			" "
	09:10	.3	2.95	~~13.5~~ 22.5	21.4	7.07	1.97	294	7.30			" "
	09:20	.3	3.05	~~15.0~~ 25.5	21.7	7.07	1.94	252	7.36			cloudy
	09:30	.3	3.05	~~16.5~~ 28.5	21.6	7.07	1.94	188	7.23			" "

Parcel 166

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

RMW 8/3

SITE ID: **LOCATION ID:** FTA-166-GP01 (Well Number) **Static Water Level:** 1.3 ft

Target Purge Volume: _____ gal WELL DEPTH: 13.9 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
	09:40	.3	3.54	~~13.0~~ 31.5	21.7	7.10	1.96	180	7.35	N/A	W. Allen	Clear
	09:50	.3	3.54	~~19.5~~ 34.5	22.0	7.07	1.94	142	7.51			" "
	10:00	.3	3.54	~~25.0~~ 37.5	21.5	7.08	1.95	81.3	7.71			" "
	10:10	.3	3.5	~~22.5~~ 40.5	22.2	7.04	1.94	79.3	7.70			" "
	10:20	.3	3.52	~~24.0~~ 43.5	21.3	7.14	1.96	40.5	7.95			" "
	10:30	.3	3.5	~~25.5~~ 46.5	21.8	7.15	1.94	29.8	7.89			" "
	:											
	:											
	:											
	:											
	:											

Parcel 166
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** ETA-166-GP02 (Well Number) **Static Water Level:** 1.0 ft

Target Purge Volume: _____ gal WELL DEPTH: 14.6 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998 1999	Time 24hr 1200	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
1-11-99	12:05	.3	1.54	1.5	16.0	6.99	1.85	999	9.29	N/A	W. Allen	gray, muddy
	12:10	.3	3.74	3.0	16.2	7.37	1.87	999	9.82			" "
	12:15	.3	4.26	4.5	pump clogged before sample was Finished							no reading
	12:35	.3	2.65	6.0	13.2	7.33	1.84	999	10.68			" "
	12:40	.3	2.62	7.5	11.6	7.21	1.87	999	9.73			" "
	12:50	.3	3.1	~~9.0~~ 10.5	18.8	7.55	1.94	549	11.69			gray, cloudy
	13:00	.3	3.3	~~10.5~~ 13.5	17.3	7.02	1.86	356	8.31			gray, cloudy
	13:10	.3	3.45	~~12.0~~ 16.5	17.5	7.01	1.85	160	8.12			cloudy
	13:20	.3	3.68	~~13.5~~ 19.5	16.7	7.02	1.84	87.0	8.56			clear
	13:30	.3	3.80	~~15.0~~ 22.5	17.0	7.01	1.83	22.0	8.25			clear
	13:40	.3	3.0	~~16.5~~ 25.5	16.4	7.07	1.84	645	8.50			gray cloudy

Parcel 166
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-166-GP02 (Well Number) **Static Water Level:** 1.0 ft

Target Purge Volume: _____ gal WELL DEPTH: 14.6 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998 1999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
1-11-99	13:50	.3	2.60	~~18.0~~ 28.5	17.0	7.05	1.84	224	8.59	N/A	W. Allen	Cloudy
	14:00	.3	5.35	~~19.5~~ 31.5	16.2	7.03	1.83	109	8.90			Cloudy
	14:10	.3	5.64	~~21.0~~ 34.5	16.7	7.10	1.78	95.3	8.69			Clear
	14:20	.3	5.6	~~22.5~~ 37.5	17.1	7.09	1.82	36.8	8.44			Clear
	14:30	.3	7.12	~~24.0~~ 40.5	16.8	7.05	1.82	28.2	8.28			clear
	14:40	.3	7.32	~~25.5~~ 43.5	17.5	6.99	1.83	20.7	8.23			Clear
	14:50	.3	7.40	~~27.0~~ 46.5	17.9	6.98	1.83	4.5	8.08			Clear
	15:00	.3	7.44	~~28.5~~ 49.5	17.4	7.18	1.82	5.1	8.32			Clear
	:											
	:											
	:											

Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796887
Form Completed by: lee FLIPPEN
Well Developed by (person/firm): lee FLIPPEN / IT Corp.

Parcel No.: FTA 166
Well No.: MW01
Date started: 3-9-01 14:00 hrs

PE PhotoVAC reading 0.0
3-13-01 " " " 0.0

Monitoring Well Information

Development Method: Surge + purge
Development Equipment: whale pump

Casing Diameter: 2"

Beginning Measurments
Depth to Water (ft): 1.8
Total depth of Well (ft): 15.2

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.)
14:00	Ø	1.8	6.45	1.20	>1000	.98	15.7	DK. Gray	PD.=13.0ft. Surged well + Started pumping At 13ft. P.R. 1.2 G/M
14:15	18.0	13.0							well ran dry
14:35	18.0	11.0		closed well For the Day					After 20 min. water Level did NOT return to 808 (4.56 ft)
15:00	18.0	4.02	7.18	1.57	107	1.64	18.2	clear/ orangish	Restarted well Development, Surged PD 8.03 ft, PR. 3, PhotoVac 0.0
15:15	22.5	4.6	7.14	1.27	160	1.91	18.0	" "	water level went Below Pump Boost Moved to PD 13.0 ft, PR .25 G/M Surged
15:30	26.25	9.4	7.18	1.27	204	1.28	18.2	" "	PD 13.0 ft, PR. 07 G/M
15:45	27.3	9.39	7.22	1.28	155	2.41	18.8	whitish clear	PD 13.0 ft, PR. 07 G/M

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove
15.1 - 1.8 = 13.3 x .163 = 2.17 x 5 = 10.85 + 16 = 26.85 gal

BOOK #L

Parcel No.: FTA 166
Well ID: MW01
Date: 3-13-01
PE PhotoVac - 0.0

	Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
	16:00	28.35	9.4	7.25	1.27	41	2.47	18.7	Clear	PD 13.0 ft., PR .07 g/m
	16:15	29.4	9.45	7.23	1.26	13.4	2.65	18.8	clear	PD 13.0 FT., PR .07 g/m
2hrs	16:30	30.45	9.53	7.28	1.26	5.1	2.77	18.8	Clear	PD 13.0 FT., PR .07 g/m
	16:45	31.5	9.6	Well ran too shallow For Pump - Pump stopped					clear	~~PD 13.0 FT., PR .07~~
14-01	~~17:00~~	3-14-01	08:52	PE Photovac reading 0.0, DTW - 3.72 ft.					restarted well Dev.	
	09:00	31.5	3.72	6.85	1.30	64	2.94	17.3	clear	PD 13.0 ft, PR .05
	09:15	32.25	5.0	7.22	1.29	41	3.48	17.7	clear	PD 13.0 ft, PR .05
	09:30	33.0	5.12	7.22	1.29	38	2.92	18.9	clear	PD 13.0 FT., PR .05
	09:45	33.75	5.32	7.25	1.29	32	3.10	19.4	clear	PD 13.0 FT., PR .05
3 hrs	10:00	34.5	5.45	7.27	1.29	15.2	3.16	20.2	clear	PD 13.0 FT., PR .05
	10:15	35.25	5.54	7.29	1.29	8.0	3.32	19.4	Clear	PD 13.0 FT., PR .05
	10:30	36.0	5.72	7.28	1.29	6.3	3.16	20.0	clear	PD 13.0 FT, PR .05
4 hrs	10:45	36.75	5.87	7.26	1.29	4.5	3.13	20.7	Clear	Well Developed

3-14-01 [signature]

Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796 887
Form Completed by: Lee FLIPPEN
Well Developed by (person/firm): Lee Flippen - IT Corp.

Parcel No.: FTA 166
Well No.: MW02
Date started: 3-8-01

Monitoring Well Information

10:07am - PE. Photovac reading - 0.0

Development Method: Surge and purge
Development Equipment: Whale pump

Casing Diameter: 2"

Beginning Measurments
Depth to Water (ft): 3.2
Total depth of Well (ft): 16.2

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.)	
10:30	0	3.2	6.45	1.00	> 1000	1.30	18.2	Dark Gray	Agitated water PR .25 gpm	14ft
10:45	3.75	4.0	6.45	.858	> 1000	.57	18.9	" "	PR .25 g/m	14ft
11:00	7.50	4.8	6.60	.814	> 1000	.65	19.4	" "	PR .30 g/m	14ft
11:15	12.0	4.95	6.66	.771	781	.60	18.9	Light Gray	PR .20 g/m moved pump to 13 ft.	13ft
11:30	15.0	4.70	6.48	.751	672	.26	20.5	" "	PR .2 gpm	13ft
11:45	18.0	4.6	6.61	.749	370	1.23	20.8	clear Gray	Surged screen PR .1 gpm	13ft
12:00	19.5	4.55	6.42	.719	803	1.22	22.4	Light Gray	PR .1 g/m	

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove

16.2 - 3.2 = 13 x .163 = 2.12 x 5 = 10.6 + 18 gal = 28.6 gal.

28.6 gal.

Photovac = 0.0

Parcel No.: FTA 166
Well ID: MW02
Date: 3-8-01

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments	
12:15	21.0	4.54	6.35	.726	682	.13	19.7	DK. Gray	Pump surged + moved to 10' PR .1	
12:30	22.5	4.53	6.58	.710	336	.15	21.6	" "	pump at 10 ft, PR.10	
12:45	24.0	4.51	6.28	.716	827	.31	21.6	" "	" " "	
13:00	25.5	4.54	6.27	.732	492	1.38	22.1	Light Gray	Surged and Moved pump to 8 ft PR .4	
13:15	31.5	4.50	6.24	.730	612	.51	21.3	DK Gray	Moved pump to 6 ft and surged PR. 4	
13:30	37.5	4.2	6.30	.721	678	.58	21.5	DK Gray	Moved pump to 14 ft and surged PR. 1.2 g/m	
13:45	55.5	8.72	6.31	.769	226	.48	20.2	" "	14 ft, PR 1.2 g/m	
14:00	73.5	9.59	6.33	.775	219	2.47	19.5	DK Gray	14 ft, PR .3 g/m	
14:15	78.0	8.0	6.35	.842	560	1.51	20.6	Light Gray	Moved Pump to 12 ft PR .35 g/m	12 ft
14:30	83.25	7.7	6.34	.795	349	1.54	19.5	clear Gray	12 ft, PR.35 g/m	12 ft
14:45	88.5	7.52	6.31	.788	183	1.45	19.9	clear	Moved to 10 ft. (Pump) PR. .45	10 ft
15:00	95.25	7.69	6.31	.785	256	1.50	20.2	cloudy	10 ft. PR .45	10 ft
15:15	102.00	7.73	6.30	.783	183	1.89	19.2	clear	10 ft. PR .50	

Parcel No.: FTA 166
Well ID: MW 02
Date: 3-8-01

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
15:30	109.5	8.2	6.26	.757	650	.72	19.4	cloudy	Pump at 10 ft, PR .25 G/M
15:45	113.25	7.6	6.33	.830	187	1.09	20.0	clear	10 ft., PR. .125 G/M
16:00	115.125	6.98	6.34	.850	183	.70	20.8	clear	10 ft, PR. .125 G/M
16:05									Terminated Test For Day
— : —	3-9-01	TD = 16.1 ft		DTW = 3.8 ft		Photo vac	= 0.0		Restarting Work
09:00	115.125 Ø	3.8	6.18	.91	200	.77	16.2	cloudy	Pump Depth 10 ft PR .125
09:15	117.0 1.875	4.76	6.30	.889	84	1.43	16.1	cloudy	PD 10 ft PR .125
09:30	120.75 3.75	4.8	6.31	.812	46	1.91	16.4	clear	PD 10 ft PR .125
09:45	122.625	4.93	6.30	.775	29	1.19	16.6	clear	PD 10 ft PR .125
10:00	124.5	5.1	6.33	.778	11.5	1.51	16.7	clear	PD 10 ft PR .125
10:15	126.375	5.15	6.30	.783	19.1	1.17	16.3	clear	PD 10 ft PR. 125
10:30	128.25	5.1	6.30	.761	8.2	1.68	16.4	clear	PD 10 ft PR .125
10:45	130.125	5.05	6.32	.791	5.3	2.05	16.5	clear	PD 10 ft PR .125

Parcel No.: FTA 166
Well ID: MW02
Date: 3-9-01

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
11:00	132.00	5.08	6.31	.760	3.4	1.92	16.8	clear	PD 10 ft PR .125
:				Terminated Test – Well is Developed					– Took 1 Liter of well water For sample
:									[illegible] 3-9-01
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Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796887
Form Completed by: Lee Flippen
Well Developed by (person/firm): Lee Flippen / IT Corp.

Parcel No.: FTA 166
Well No.: MW03
Date started: 3-9-01 15:30

PE Photovac reading 0.0

Monitoring Well Information

Development Method: Surge + Purge
Development Equipment: Whale Pump

Casing Diameter: 2"

Beginning Measurments
Depth to Water (ft): 4.0
Total depth of Well (ft): 20.4

	Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.)
	15:45	Ø	4.0	6.53	.839	>1000	.28	18.1	DK Gray	Surge well + started pump At 15.9 ft PR 1.2 G/M 15.9 ft.
	16:00	18.0	11.0	6.39	.832	601	1.49	17.7	Gray	Surge water At 15.9 ft Pump Depth 15.9 ft PR .125
	16:15	19.875	10.7	6.51	.879	144	.67	18.3	DK Gray	PD 15.9 ft PR 1.2 G/M
	16:30	37.875	15.4	6.55	.948	>1000	2.05	18.4	Gray	Stop Dev. For the Day
3-12	09:45	37.875	4.35	6.88	.898	720	8.74	18.4	DK Gray	Surged PD 18.4 PR 1.2 gm, Restarted Developing
1 hr.	10:00	55.875	14.1	6.99	.887	710	8.71	18.3	" "	Moved pump + surged PD 17.3 PR. .08
	10:15	57.1	9.73	6.93	.853	330	9.43	18.3	Gray	PD 17.3 PR .08

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove
20.4 - 4.0 16.4 x .163 = 2.67 x 5 = 13.35 + 15 gal = 28.35 gal

3-12-01 Horiba ID # 51-1058

Note: Light rain + Heavy winds 10:00 -

Parcel No.: 166-FTA
Well ID: 03
Date: 3-12-01

	Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
	10:30	58.3	8.53	6.90	.861	71	8.61	17.7	Clear	Moved pump to 14 ft + surged PD 14 ft. PR .20
	10:45	61.3	7.92	6.85	.777	80	9.51	17.4	clear	Moved to 12.24 PD 12.24 PR .20
2 hrs	11:00	64.3	7.3	6.89	.799	256	8.57	17.0	Clear	Moved to 8.3 surged PD 8.3 PR .20
	11:15	67.*	7.5	6.85	.700	273	10.27	16.6	Clear	PD 8.3 PR .20
	11:30	70.3	7.7	6.81	.787	104	10.4	16.4	clear	HEAVY RAIN - Stopped Sampling parameters For Day.
-13-01	08:30	70.3	4.2	6.31	.790	445	.08	17.2	Gray	Surged + started Pump At 7 ft. PD 7.0 ft PR .125 PE Pho to 0.0
	08:45	72.175	4.9	6.60	.764	368	.09	18.6	clear	PD 7.0 ft PR .125
3 hrs	09:00	74.05	5.2	6.60	.769	194	.09	18.6	clear	PD 7.0 ft PR .125
	09:15	75.9	5.5	6.63	.740	96	3.10	17.9	clear	PD 7.0 ft PR .125
	09:30	Keith H. Brought new Horiba # 307009					*	D.O. values seemed irregular LF		
	09:31	77.78	5.9	6.91	.684	48	1.94	18.3	clear	PD 7.0 ft, PR .125
4 hrs	09:45	79.7	6.4	6.95	.689	35	1.81	19.4	Clear	PD 7.0 FT, PR .125
	10:00	81.6	6.5	6.97	.693	31	1.82	19.6	Clear	PD 7.0 FT, PR .125

Log Book #6

Parcel No.: FTA 166
Well ID: 03
Date: 3-13-01

	Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
	10:15	83.4	6.25	6.98	.638	159	2.90	19.2	clear	Surged screen Before reading PD 7.0ft PR .12
	10:30	85.2	6.0	7.02	.701	39	1.81	20.2	clear	PD 7.0ft. PR .12
4hrs	10:45	87.0	5.8	7.0	.703	32	1.68	20.1	clear	Moved Pump to 11ft + Surged PD 11.0ft PR.25
	11:00	90.8	6.5	6.96	.700	131	1.71	19.3	clear	PD 11.0ft, PR .13
	11:15	92.8	6.33	6.98	.721	77	1.63	19.7	clear	Surged PD 11.0ft, PR .125
	11:30	94.7	6.40	7.01	.737	37	1.37	19.6	clear	PD 11.0, PR .065 g/m
5hrs	11:45	95.7	6.71	7.02	.730	66	2.06	19.8	clear	PD 11.0, PR .065 g/m
	12:00	96.7	5.23	7.05	.734	23	1.89	19.7	clear	PD 11.0 ft., PR .065 g/m
	12:15	96.65	4.94	7.02	.729	23	1.84	19.7	clear	PD 11.0 ft, PR .065
	12:30	97.6	5.05	7.05	.722	19	2.28	19.6	clear	PD 11.0ft, PR .065
6hrs	12:45	98.58	4.77	7.05	.715	7.8	3.03	19.4	clear	PD 11.0 ft, PR .065
	13:00	99.6	4.75	7.06	.712	7.3	2.90	19.8	clear	PD 11.0ft, PR .065
	13:15	100.58	4.70	7.09	.709	6.8	2.78	19.6	clear	well Developed

[signature] 3-13-01