

Date & Time (Eastern)	Author	Running Log
4/6/2010 11:21	John Urosek	Upper Big Branch Mine Explosion April 5, 2010
4/6/2010 11:31	James Jackson	MSHA approved a modification to the k-order to permit the mine operator to refuel equipment located on the surface near the bleeder shaft
4/6/2010 12:45	Marvin Lichtenfels	Incident Commander Name(000-000-0000) is changed to Bill Ponceroff(703-235-0920) and Incident Chief MEO Name(000-000-0000) is changed to John Urosek(703-235-0907)
4/6/2010 12:49	James Jackson	Bandy bleeder fan 12:15 pm 20.6% O2, 0.8% Ch4, 517 ppm CO. Return fan 11:59 am 20.8% O2, 0.0% Ch4, 0 ppm CO, South track entry 12:03 pm 20.8% O2, 0.0% Ch4, 0 ppm CO, North track entry 12:14 pm 20.8% O2, 0.0% Ch4, 0 ppm CO. Refueling of the generators at the Bandy bleeder fan has been completed.
4/6/2010 12:53	John Hendley	12:00 Noon Meeting : Rejecting 2 reentry plans by Bill Ponceroff. Present [REDACTED] Chris Adkins, VP Performance Coal Jason White, Performance Coal Ventilation Engineer Steve Snyder, WV Reg. Supervisor Bryan Tucker, WV Inspector
4/6/2010 13:58	James Jackson	Bandy bleeder fan 13:30 20.6% O2, 0.8% Ch4, 523 ppm CO, Return 13:14 20.8% O2, 0.0% Ch4, 0 ppm CO, South track portal 13:18 20.8% O2, 0.0% Ch4, 0 ppm CO, North track portal 13:16 20.8% O2, 0.0% Ch4, 0 ppm CO.
4/6/2010 15:27	Greg Fetty	Bandy Bleeder Fan 2:00 p.m. 20.9 O2, 0.08 Ch4, 196 ppm CO
4/6/2010 16:29	Greg Fetty	Correction to the command center log. The command center was provided with an update at approximately 4:00 p.m. The GC readings collected from Bandy Fan at 1:00 p.m. were 20.9% O2, 0.11 % Ch4 and 247 ppm CO. The readings from the IR spotter were 20.6% O2, 0.8% Ch4, and 532 ppm. Tech Support has been notified of the discrepancies in the readings and is investigating.
4/6/2010 16:44	Greg Fetty	North Return 20.8% O2, 0.0% Ch4, 0 ppm CO, South track portal 16:30 20.8% O2, 0.0% Ch4, 0 ppm CO, North track portal 13:16 20.8% O2, 0.0% Ch4, 0 ppm CO - Drilling has not been initiated
4/6/2010 18:48	Greg Fetty	The information provided to the command center during the last update was incorrect. Drilling was initiated earlier today. At approximately 3:30 p.m., hole #1 was at a depth of 190'. At 5:30 p.m., hole #1 was approximately 380'. At 5:30 p.m., hole #2 was at a depth of 65'.

4/6/2010 18:55	Greg Fetty	15:00 Chromatograph 20.95 O2 0.2 Ch4 373 ppm 16:00 Chromatograph 20.95 O2 0.2 Ch4 375 ppm 17:00 Chromatograph 20.95 O2 0.2 Ch4 361 ppm
4/6/2010 18:58	Greg Fetty	The arrays are set up for the seismic device. The power is on the truck. The antenna is in position. Testing could begin as early as 9:00 pm this evening.
4/6/2010 19:07	Greg Fetty	The readings at the North Return, North Track and South Track were 0.0% methane, 20.8% oxygen and 0 ppm at 16:45, 17:00, 17:45 and 18:00 hrs. The handheld IR readings at Bandytown at 15:45 were 20.6% O2, 0.8% Ch4, and 532 ppm CO; at 16:45 the readings were 20.65% O2, 0.8% Ch4, 539 ppm CO; at 17:00, the readings were 20.68 O2, 0.8% Ch4, and 540 ppm CO; at 18:00 hrs, the readings were 20.73% O2, 0.8% Ch4 and 549 ppm CO
4/6/2010 19:57	Greg Fetty	BANDY - 18:45 hrs - 20.78% O2, 0.8 Ch4, 530 ppm CO; 19:00 hrs - 20.8% O2, 0.7% Ch4, 522 ppm CO; 19:15 hrs 20.82 % O2, 0.7% Ch4, 517 ppm CO; 19:30 hrs 20.83% O2, 0.7% Ch4, 511 ppm CO. The North Return, North Track and South Track readings are unchanged (0.0 methane, 20.8% O2, 0.0 ppm CO)..
4/6/2010 20:29	Greg Fetty	Bandytown - IR Readings - 19:45 hrs - 20.84% O2, 0.7% Ch4, 500 ppm CO; 20:00 hrs - 20.84% O2, 0.7% Ch4, 493 ppm CO; At approximately 7:45 p.m., #1 hole was down 400 feet. Stopped to set casings. Should be drilling by 8:15. No. 2 hole is at 167 feet and still drilling. Rig is moving to hole #3 at 7:45.
4/6/2010 20:33	Greg Fetty	Chromatograph readings - Bandy Bleeder - 20.95% O2, 0.2% Ch4, 353 ppm CO.
4/6/2010 20:59	Greg Fetty	The Seismic is up and operational. No unusual noise to report.
4/6/2010 21:23	Greg Fetty	The Seismic is up and operational. No unusual noise to report.
4/6/2010 21:35	Greg Fetty	No changes to report for the North Return, North Track, or South Track handheld readings taken at 8:15 p.m., 8:30 p.m., 8:45 p.m., and 9:00 p.m. The hand held readings (IR) at Bandy at 8:15 p.m. are 20.84% O2, 0.7% Ch4, and 487 ppm CO; at 8:30 p.m. are 20.82 % O2, 0.7% Ch4, and 477 ppm CO; at 8:45 p.m. are 20.83% O2, 0.7% Ch4, and 468 ppm CO; and at 9:00 p.m. are 20.8% O2, 0.7% Ch4, and 469 ppm CO. The operator has informed the command center that rate of drilling should increase to approximately 125 to 150 feet per hour.

4/6/2010 21:55	Greg Fetty	At 9:15 p.m., there are no changes to report at the North Return, North Track, and South Track Portal air readings. At 21:15 hrs, the IR readings at Bandy Bleeder Fan are 20.78 % O2, 0.7 % Ch4, and 472 ppm CO. At 21:30 hrs, the IR readings at Bandy Bleeder Fan are 20.79 % O2, 0.7 % Ch4, and 468 ppm CO. The drill hole depth at #1 hole is 460'. The drill hole depth at #2 hole is 272'. The drill rig location is still being established for boreholes 3 & 4.
4/6/2010 22:23	Greg Fetty	Chromatograph Readings - Bandy Bleeder - 10:00 p.m. 20.95% O2, 0.2%Ch4 and 354 ppm CO; 10:00 p.m. 20.95% O2, 0.19%Ch4 and 346 ppm CO
4/6/2010 22:45	Greg Fetty	No changes to report for the North Return, North Track, or South Track handheld readings taken at 9:45 p.m., 10:00 p.m., 10:15 p.m., and 10:30 p.m. The handheld IR readings at Bandytown at 9:45 were 20.84% O2, 0.7% Ch4, and 455 ppm CO; at 10:00 the readings were 20.87% O2, 0.7% Ch4, 449 ppm CO; at 10:15, the readings were 20.87 O2, 0.7% Ch4, and 433 ppm CO; at 10:30 hrs, the readings were 20.86% O2, 0.7% Ch4 and 427 ppm CO
4/7/2010 10:33	John Hendley	09:20 - Contacted the onsite command center concerning the availability of an additional drilling service - Mark Andrews Drilling Co. (413-357-0957). Spoke to Bill Ponceroff (MSHA) and [REDACTED]
4/7/2010 11:50	Timothy Workman	The fan has been installed on the first bore hole, tygone tubing is being installed to a depth of 14 feet. The fan is installed, exhausting 863 CFM. A hand held reading taken at 10:55 indicated 6% methane, 9999 ppm CO, 14.6% O2.
4/7/2010 12:36	Timothy Workman	Seismic equipment was installed over the refuge chamber in the 22 development section. Jeff Kravitz is reviewing the seismic readings from overnight, and no information other than noise has been detected. Air readings with hand held equipment at the Bandy Town Fan at 12:00 a. m. indicated: O2-20.59, CH4- 0.4, CO-381.
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4/7/2010 13:26	Timothy Workman	Readings recorded with hand held equipment at the Bandy Town Fan location at 13:50 04/07/2010: O2-20.7, CH4-0.3, CO-261. The hand held equipment being used at the Bany Town Fan was replaced at 12:30. The 13 th modification to the 103K Order 4642503 was issued at 12:54 to allow refueling of the diesel operated exhaust fans that are installed on the drilled bore holes.
4/7/2010 13:33	Timothy Workman	Bandy Branch Fan GC Sample reading at 9:00 were: O2 -20.73, CH4 -0.22, CO - 314 ppm.
4/7/2010 13:35	Timothy Workman	Bandy Branch Fan GC Sample reading at 10:00 were: O2 -20.73, CH4 -0.2, CO - 280 ppm.
4/7/2010 13:39	Timothy Workman	Bore hole air readings at 12:00 : O2 - 15.5%, CO2 9999, CH4 -4.0
4/7/2010 13:51	Timothy Workman	Bandy Branch Fan readings with hand held equipment at 13:45 were recorded as: O2 - 20.79, CH4 - 0.3, CO - 266.
4/7/2010 13:57	Timothy Workman	The statement "CO2 " entered into the log at 13:39:34 was in error. The statement should read as "CO".
4/7/2010 14:13	Timothy Workman	Readings at the Bore Hole sample location 9 at 10:55 04/07/10 were as follows: H2 - 9979ppm, O2 - 15.31%, N2 - 75.78, CH4 - 3.00, CO - 14250ppm, CO2 - 2.44%, C2H2 - 251ppm, C2H4 - 1001ppm, C2H6 - 300ppm.
4/7/2010 14:18	Timothy Workman	Readings at the Bore Hole Dup sample location 9 at 10:55 04/07/10 were as follows: H2 - 9424ppm, O2 - 15.68%, N2 - 75.93%, CH4 - 2.80%, CO - 13169ppm, CO2 - 2.29%, C2H2 - 234ppm, C2H4 - 935ppm, C2H6 - 200ppm.

4/7/2010 14:27	Timothy Workman	Readings at the Bore Hole sample location 9 at 11:30 04/07/10 were as follows: H2 - 9151ppm, O2 - 15.89%, N2 - 75.98%, CH4 - 2.71%, CO - 12812ppm, CO2 - 2.17%, C2H2 - 219ppm, C2H4 - 923ppm, C2H6 - 200ppm.
4/7/2010 14:33	Timothy Workman	Readings at the Bore Hole sample location 9 at 12:00 p. m. 04/07/10 are in question (bad seal during sampling), but were recorded as follows: H2 - 3374ppm, O2 - 17.63%, N2 - 76.86%, CH4 - 1.80%, CO - 8077ppm, CO2 - 1.55%, C2H2 - 147ppm, C2H4 - 628ppm, C2H6 - 200ppm.
4/7/2010 14:35	Timothy Workman	Readings at the Bore Hole sample location 9 at 12:45 p.m. 04/07/10 were as follows: H2 - 8646ppm, O2 - 1620%, N2 - 76.04%, CH4 - 2.62%, CO - 12072ppm, CO2 - 2.03%, C2H2 - 205ppm, C2H4 - 826ppm, C2H6 - 200ppm.
4/7/2010 14:40	Timothy Workman	14:30 #2 bore hole down 634 feet. Stopped to install duct work, to route the air away from the #1 bore hole. #3 bore hole down 310 feet. Stopped to pull pipe, to put casing in. Doing dozer work for proposed #4 bore hole.
4/7/2010 14:43	Timothy Workman	The air readings at the Bandy Town Fan, taken with hand held equipment at 14:00. O2 - 20.74, CH4 - 0.3, CO - 249
4/7/2010 14:50	Timothy Workman	Readings taken at the Bandy Town Fan taken with hand held equipment at 14:15. O2 - 20.75, CH4 - 0.3, CO - 246
4/7/2010 14:51	Timothy Workman	Readings taken at the Bandy Town Fan taken with hand held equipment at 14:30. O2 - 20.71, CH4 - 0.3, CO - 245
4/7/2010 14:52	Timothy Workman	Readings taken at the Bandy Town Fan taken with hand held equipment at 14:45. O2 - 20.68, CH4 - 0.3, CO - 242
4/7/2010 15:37	Charles Carpenter	Call from Bob Cornett at Command Center. Problems with computers. Are working on correcting the problem to transmit information.
4/7/2010 15:38	Timothy Workman	readings taken at the Bandy Town Fan with hand held equipment at 15:00 were as folloes: O2 - 20.73, CH4 - 0.4, CO - 267
4/7/2010 15:41	Timothy Workman	Readings taken at the Bandy Town Fan with hand held detector at 15:30 were as follows: O2 - 20.70, CH4 - 0.3, CO - 254
4/7/2010 15:55	Timothy Workman	Readings at the Bandy Town Fan recorded at 15:45 were : O2 - 20.68, CH4 - 0.3, CO - 246
4/7/2010 16:18	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 16:00 were: O2 - 20.66, CH4 - 0.3, CO - 243
4/7/2010 16:20	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 16:15 were O2 - 20.63, CH4 - 0.3, CO - 239

4/7/2010 16:44	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 16:30 were O2 -20.62, CH4 - 0.3, CO - 232
4/7/2010 16:57	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 16:45 were O2 - 20.60, CH4 - 0.3, CO - 226
4/7/2010 17:51	Charles Carpenter	Call CC and discuss drill status with Bill Ponceroff. The 103k order is being modified to prevent CO from the exhaust fan of the #1 Borehole passing over drill operators. No drill activity has reported. since the 1430 report.
4/7/2010 17:55	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 17:00 were O2 - 20.54, CH4 - 0.3, CO - 228
4/7/2010 17:56	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 17:15 were O2 - 20.60, CH4 - 0.3, CO - 223
4/7/2010 17:57	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 17:30 were O2 - 20.58, CH4 - 0.3, CO - 217
4/7/2010 17:58	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 17:45 were O2 - 20.58, CH4 - 0.3, CO - 218
4/7/2010 18:55	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 18:00 were O2 - 20.53, CH4 - 0.3, CO - 213
4/7/2010 18:57	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 18:15 were O2 - 20.46, CH4 - 0.3, CO - 211
4/7/2010 18:58	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 18:30 were O2 - 20.46, CH4 - 0.3, CO - 212
4/7/2010 18:59	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 18:45 were O2 - 20.44, CH4 - 0.3, CO - 213
4/7/2010 19:13	Charles Carpenter	Per Bob Cornett at 1825. No. 2 borehole is at 704 feet. No. 3 borehole is at 310 feet. Operator will procure casing for the #1 borehole to get an uncontaminated sample from the mine.
4/7/2010 19:16	Greg Fetty	5:30 PM readings from the Borehole - O2 is 16.86%, Ch4 is 2.51%, and CO is 9852 ppm; 6:00 PM readings from the Borehole - O2 is 17.14 %, Ch4 is 2.36%, and CO is 9090 ppm.
4/7/2010 19:20	Greg Fetty	Bandytown Bleeder Fan readings - 5:00 p.m. O2 is 20.95 percent, Ch4 is 0.20 percent, and CO 226 ppm.
4/7/2010 19:56	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 19:00 were O2 - 20.44, CH4 - 0.3, CO - 206
4/7/2010 19:57	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 19:15 were O2 - 20.47, CH4 - 0.3, CO - 198

4/7/2010 19:57	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 19:30 were O2 - 20.49, CH4 - 0.3, CO - 196
4/7/2010 20:41	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detectors at 19:45 were O2 - 20.69, CH4 - 0.3, CO - 213
4/7/2010 20:43	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 20:00 were O2 - 20.69, CH4 - 0.3, CO - 208
4/7/2010 20:45	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 20:15 were O2 - 20.70, CH4 - 0.3, CO - 204
4/7/2010 20:46	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 20:30 were O2 - 20.71, CH4 - 0.3, CO - 203
4/7/2010 21:16	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 20:45 were O2 - 20.73, CH4 - 0.3, CO - 194
4/7/2010 21:24	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 21:00 were O2 - 20.63, CH4 - 0.3, CO - 185
4/7/2010 21:55	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 21:15 were O2 - 20.50, CH4 - 0.3, CO - 194
4/7/2010 21:56	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 21:30 were O2 - 20.48, CH4 - 0.3, CO - 192
4/7/2010 22:05	Reba Crawford	Readings taken at the Bandy Town Fan with handheld detector at 21:45 were O2 - 20.47, CH4 - 0.3, CO - 197
4/7/2010 23:03	Greg Fetty	6:30 PM readings from the Borehole - O2 is 16.95%, Ch4 is 2.52%, and CO is 9808 ppm; 7:00 PM readings from the Borehole - O2 is 16.99 %, Ch4 is 2.52%, and CO is 9635 ppm. 7:30 PM readings from the Borehole - O2 is 17.04%, Ch4 is 2.51%, and CO is 9537 ppm; 8:00 PM readings from the Borehole - O2 is 17.11 %, Ch4 is 2.50%, and CO is 9541 ppm. 8:00 PM readings from the Borehole - O2 is 17.27 %, Ch4 is 2.42%, and CO is 8914 ppm.
4/7/2010 23:06	Greg Fetty	At approximately 10:30 p.m., the No. 2 borehole stopped due to problems with the bit. The drill operator decided to pull the steel to prevent breakage. It will take approximately six hours to pull the steel and re enter it into the hole. The bore hole was at a depth of approximately 1080 feet when this occurred.

4/7/2010 23:10	Greg Fetty	The operator is using air craft cable to lower tygon tubing into the No. 1 bore hole. The have attached a perforated section of PVC piping to the end of the cable. It will take approximately one hour to lower the cable to the mine level. The mine operator will begin collecting samples.
4/7/2010 23:44	Charles Carpenter	Call from Bob Cornett call in from his cell phone- Does not appear that the phones from the CC are working. They are getting samples from the borehole. They have discussed plans on reentry into the mine pending results of sampling.
4/7/2010 23:45	Greg Fetty	At 9:00 p.m., the fan on the No. borehole was running. The No. 2 borehole was drilled to a depth of 944 feet. It was determined the No. 3 drill hole started at approximately 6:30 p.m.. At site No. 2, hole 3 was cased to a depth of 320'. The roads had been completed to the other sites.
4/8/2010 0:25	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 23:00 were O2 - 20.51, CH4 - 0.3, CO - 202
4/8/2010 0:26	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 23:15 were O2 - 20.54, CH4 - 0.3, CO - 204
4/8/2010 0:27	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 23:30 were O2 - 20.54, CH4 - 0.3, CO 204
4/8/2010 0:28	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 23:45 were O2 - 20.54, CH4 - 0.3, CO - 204
4/8/2010 0:29	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 24:00 were O2 - 20.55, CH4 - 0.3, CO - 202
4/8/2010 0:46	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0015 were 20:55, - Ch4 0.3, CO 204.
4/8/2010 0:48	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0030 were O2 - 20:55, Ch4 0.3, CO 204
4/8/2010 0:50	Fred Wills	MSHA personnel on site 2400 hrs are, District 4 has 6 people, Tech Support 5 people, Pier has 1 and MEO has 4.
4/8/2010 0:55	Fred Wills	Report from drilling rigs received at 0050 hrs is: Site 1, Hole 1 - Fan running (800 cfm). Hole 2 drilling paused until steel is removed, will be down 8 to 9 hrs. Site 1, hole 3 compressor arrived, has wrong chuck for hammer, down 3 hrs for replacement. Site 2, hole 4, casing, down 320'. Site 3, hole 5 casing. All siesmic holes ready.

4/8/2010 1:38	Fred Wills	Sample Location 9, Bore hole No 1 readings at 2100 hrs are H2 PPM 6697, O2 17.25, N2 76.20, Ch4 2.46, CO 9041, CO2 1.51, C2H2 149, C2H4 640, C2H6 200, Ar 0.91
4/8/2010 1:46	Fred Wills	Sample location 9, Bore hole #1 readings at 2130 hrs are H2 6564, O2 17.30, N2 76.17, Ch4 2.46, CO 8737, CO2 1.53, , C2H2 144, C2H4 603, C2H6 200, Ar 0.91
4/8/2010 1:50	Fred Wills	Sample location 9, Bore Hole #1 readings at 2200 H2 6562, O2 17.35, N2 76.20, Ch4 2.45, CO 8695, CO2 1.48, C2H2 167, C2H4 616, C2H6 200, Ar 91.
4/8/2010 1:54	Fred Wills	Sample location 9, Bore hole #1 readings at 2230 hrs are H2 5683, O2 17.93, N2 76.49, Ch4 2.07, CO 7104, CO2 1.24, C2H4 513, C2H6 100, Ar 0.92
4/8/2010 1:58	Fred Wills	Sample location 9, Bore hole #1 readings at 2300 hrs are H2 6107, O2 17.65, N2 76.31, Ch4 2.29, CO 7912, CO2 1.35, C2h2 140, c2h4 559, c2h6 200, Ar 0.91
4/8/2010 1:58	Fred Wills	Sample location 9, Bore hole #1 readings at 2300 hrs are H2 6107, O2 17.65, N2 76.31, Ch4 2.29, CO 7912, CO2 1.35, C2h2 140, c2h4 559, c2h6 200, Ar 0.91
4/8/2010 2:00	Fred Wills	Bleeder Fan readings at 2000 hrs are H2 118, O2 20.95, N2 77.84, Ch4 0.20, CO 215, CO2 0.11, C2H2 3, C2H4 11, C2H6 67, Ar 0.68
4/8/2010 2:03	Fred Wills	Bleeder Fan readings at 2100 hrs are H2 113, O2 20.95, N2 77.84, Ch4 0.19, CO 208, Co2 0.10, C2H2 3, C2H4 11, C2H6 66, Ar 0.67
4/8/2010 2:05	Fred Wills	Bleeder Fan reading at 2200 are H2 108, O2 20.95, N2 77.92, Ch4 0.19, CO 199, CO2 0.10, C2H2 3, C2H4 10, C2H6 65, Ar 0.58
4/8/2010 2:29	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0045, O2 20.55, Chr 0.3, CO 204
4/8/2010 2:30	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0100 hrs are O2 20.55, Chr 0.3, CO 198
4/8/2010 2:31	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0115, O2 20.55, Ch4 0.3, CO 199
4/8/2010 2:32	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0130 O2 20.54, Ch4 0.3, CO 196.
4/8/2010 2:33	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0145, O2 20.54, CH4 0.3, CO 193.
4/8/2010 2:34	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0200 hrs O2 20.53, Ch4 0.2, CO 191.

4/8/2010 2:42	Fred Wills	Sample location 9, Bore Hole #1 at 2130 hrs, readings are H2 6564, O2 17.30, N2 76.17, Ch4 2.46, CO 8737, CO2 1.53, C2H2 144, C2H4 603, C2H6 200, Ar 0.91
4/8/2010 2:45	Fred Wills	Sample location 9, Bore Hole #1 at 2200 hrs. H2 6562, O2 17.35, N2 76.20, Ch4 2.45, CO 8695, CO 1.48, C2H2 167, C2H4 616, C2H6 200, Ar 0.91
4/8/2010 2:48	Fred Wills	Sample location 9 Bore Hole #1 at 2230 hrs. H2 5683, O2 17.93, N2 76.49, Ch4 2.07, CO 7104, CO2 1.24, C2H2 127, C2H4 513, C2H6 200, Ar 0.92
4/8/2010 2:50	Fred Wills	Sample location 9, Bore Hole #1 at 2300 hrs. H2 6107, O2 17.65, N2 76.31, Ch4 2.29, CO 7912, CO2 1.35, C2H2 140, C2H4 559, C2H6 200, Ar 0.91
4/8/2010 2:53	Fred Wills	Sample location 9, Bore Hole #1 at 00.30 hrs. H2 6672, O2 17.08, N2 75.99, Ch4 2.73, CO 9442, CO2 1.59, C2H2 183, C2H4 641, C2H6 100, Ar 0.91
4/8/2010 2:55	Fred Wills	Sample location 9, Bore Hole #1, at 0.00 hrs, H2 5016, O2 18.32, N2 76.66, Ch4 1.84, CO 6291, CO2 1.07, C2H2 77, C2H4 434, C2H6 100, Ar 0.02
4/8/2010 2:59	Fred Wills	Sample location 9, Bore Hole #1 (bottom of hole) at 0.30 hrs. H2 6672, O2 17.08, N2 75.99, Ch4 2.73, CO 9442, CO2 1.59, C2H2 183, C2H4 641, C2H6 100, Ar 0.91
4/8/2010 3:05	Fred Wills	Sample location 9, Bore hole #1 (top) at 0.30 hrs. H2 5391, O2 17.92, O2 76.42, N2 76.42, Ch4 2.17, CO 7211, CO2 1.24, C2H2 128, C2H4 512, C2H6 100, Ar 0.92
4/8/2010 3:57	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0245, O2 20.52, Ch4 0.2, CO 184
4/8/2010 3:59	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.
4/8/2010 4:01	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.
4/8/2010 4:03	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO 186.
4/8/2010 4:04	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0315. O2 20.52, Ch4 0.2, CO 183.
4/8/2010 4:06	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0330. O2 20.51, Ch4 0.2, CO 181.

4/8/2010 4:09	Fred Wills	Sample Location 3, BH 1, Bottom at 0.00. H2 5016, O2 18.32, N2 76.66, Ch4 1.84, CO 6291, CO2 1.07, C2H2 77, C2H4 434, C2H6 100, Ar 0.92
4/8/2010 4:12	Fred Wills	Sample Location 3, BH 1, Bottom at 0.30. H2 6672, O2 17.08, N2 75.99, Ch4 2.73, CO 9442, CO2 1.59, C2H2 183, C2H4 641, C2H6 100, Ar 0.91
4/8/2010 4:14	Fred Wills	Sample Location 3, BH 1 Bottom at 0300, H2 6342, O2 17.45, N2 76.04, Ch4 2.62, CO 8381, CO2 1.42, C2H2 149, C2H4 588, C2H6 200, Ar 0.91
4/8/2010 4:47	Fred Wills	AT 0446 4 Mine Rescue Teams are having there final breafing befolre entering the mines for rescue and recovery.
4/8/2010 4:48	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0345, O2 20.50, Ch4 0.2, CO 178.
4/8/2010 4:49	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0400, O2 20.50, Ch4 0.2, CO 177.
4/8/2010 4:49	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0415, O2 20.51, Ch4 0.2, CO 171.
4/8/2010 4:54	Fred Wills	Sample location 3, BH 1, Bottom at 0230 hrs, H2 6734, O2 17.10, N2 75.89, Ch4 2.84, CO 9353, CO2 1.55, C2H2 164, C2H4 649, C2H6 200, Ar 0.91.
4/8/2010 4:56	Fred Wills	Sample location 3, BH 1, bottom at 0300 hrs. H2 6342, O2 17.45, Chr 2.62, CO 8381, CO2 1.42, C2H2 149, C2H4 588, C2H6 200, Ar 0.91.
4/8/2010 5:02	Fred Wills	Bleeder Fan at 2300 hrs. H2 103, O2 20.95, N2 78.16, Ch4 0.18, CO 193, C2H2 3, C2H4 10, C2H6 64, Ar 0.28.
4/8/2010 5:05	Fred Wills	Bleeder Fan at 0.00. H2 101, O2 20.95, N2 78.11, Ch4 0.18, CO 191, CO2 0.10, C2H4 3, C2H4 10, C2H6 64, Ar 0.34.
4/8/2010 5:07	Fred Wills	Bleeder Fan at 0100. H2 97, O2 20.95, N2 78.14, Ch4 0.18, CO 185, CO2 0.10, C2H2 2, C2H4 9, C2H6 63, Ar 0.31.
4/8/2010 5:10	Fred Wills	Bleeder Fan at 0200. H2 93, O2 20.95, N2 78.18, Ch4 0.18, CO 178, CO2 0.09, C2H2 2, C2H4 9, C2H6 62, Ar 0.27
4/8/2010 5:22	Fred Wills	Sample location 3, BH 1, Bottom at 0130 hrs. H2 6231, O2 17.57, N2 76.20, Ch4 2.42, CO 8205, CO2 1.37, C2H2 123, C2H4 556, C2H6 200, Ar 0.91
4/8/2010 5:22	Fred Wills	Four (4) mine rescue teams entered underground about 0500.

4/8/2010 5:25	Fred Wills	Sample location 3, BH 1 Bottom at 0200 hrs 7178, O2 16.85, N2 75.76, Ch4 3.00, CO 10209, CO2 1.64, C2H2 162, C2H4 725, C2H6 200, Ar 0.91
4/8/2010 5:27	Fred Wills	Sample location 3, BH 1, Bottom at 0230 hrs. H2 6734, O2 17.10, N2 75.89, Ch4 2.84, CO 9353, CO2 1.55, C2H2 164, C2H4 649, C2H6 200, Ar 0.91
4/8/2010 5:29	Fred Wills	Sample Location 3, BH 1 bottom, at 0300 hrs. H2 6342, O2 17.45, N2 76.04, Ch4 2.62, CO2 1.42, C2H2 149, C2h4 588, c2h5 200, aR 0.91
4/8/2010 5:33	Fred Wills	sAMPLE LOCATION 3, bh 1, BOTTOM AT 0100. h2 8294, o2 16.28, n2 75.46, cH4 3.35, co 11905, co2 1.86, c2h2 177, c2h4 830, c2h6, Ar 0.91
4/8/2010 6:04	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0430. O2 20.50, Ch4 0.2, CO 170.
4/8/2010 6:05	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0445. O2 20.50, Ch3 0.2, CO 168.
4/8/2010 7:01	Fred Wills	Four (4) MINE RESUCE TEAMS UNDERGROUND AND BOTH ARE LOCATED AT BREAK 78 NEAR LONG WALL. TEAMS CHECK SCSR catch, 4 were full (10 each), one had 8 SCSR's missing. Teams are now traveling in by 12 breaks to a phone. This information was obtained at 0700 hrs.
4/8/2010 7:08	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0500 hrs, O2 20.51, Ch4 0.2, CO 165.
4/8/2010 7:09	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0515 hrs. O2 20.50, Ch4 0.2, CO 164.
4/8/2010 7:10	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0530 hrs. O2 20.48, Ch4 0.2, CO 166
4/8/2010 7:13	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0545 hrs, O2 20.47, Ch4 0.2, CO 163
4/8/2010 7:14	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0600. O2 20.46, Ch4 0.2, CO 163.
4/8/2010 7:16	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0615. O2 20.46, Ch4 0.2, CO 162
4/8/2010 7:17	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0630. O2 20.46, Ch4 0.2, CO 160
4/8/2010 7:18	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0645. O2 20.46, Ch4 0.2, CO 158

4/8/2010 7:19	Fred Wills	Readings taken at the Bandy Town Fan with handheld detector at 0700 hrs. O2 20.47, CH4 0.2, CO 156.
4/8/2010 7:59	Timothy Workman	Readings taken at Bandy Town Fan at 07:15 a.m., O2 - 20.47%, CH4 - 0.2, CO - 156
4/8/2010 8:10	Timothy Workman	Readings taken at Bandy Town Fan at 07:30 a.m. O2 - 20.58, CH4 - 0.2, CO - 154
4/8/2010 8:11	Timothy Workman	Readings taken at Bandy Town Fan at 07:45 a.m. O2 - 20.58, CH4 - 0.2, CO - 151
4/8/2010 8:36	Timothy Workman	Readings taken at Bandy Town Fan at 08:00 a.m. O2 - 20.59, CH4 - 0.2, CO - 149
4/8/2010 8:38	Timothy Workman	Readings taken at Bandy Town Fan at 08:15 a.m. O2 - 20.58, CH4 - 0.2, CO - 150
4/8/2010 8:39	Timothy Workman	Working to move fresh air base to just outby long wall face.
4/8/2010 8:44	Timothy Workman	Stringing phone line from switch up to face area.
4/8/2010 8:47	Timothy Workman	Plan to have team travel face, and then other team plans to move fresh air base to Head Gate 22 cross over
4/8/2010 8:48	Timothy Workman	Plan to have team travel face, and then other team plans to move fresh air base to Head Gate 22 cross over
4/8/2010 9:01	Timothy Workman	Readings taken at Bandy Town Fan at 08:30 a.m. O2 - 20.58, CH4 - 0.2, CO - 148
4/8/2010 9:02	Timothy Workman	Readings taken at Bandy Town Fan at 08:45 a.m. O2 - 20.58, CH4 - 0.2, CO - 147
4/8/2010 9:33	Timothy Workman	Mine rescue team still in the process of establishing fresh air base outby long wall face to explore faceline.
4/8/2010 9:35	Timothy Workman	Readings taken at Bandy Town Fan at 09:00 a.m. O2 - 20.56, CH4 - 0.2, CO - 147
4/8/2010 9:36	Timothy Workman	Readings taken at Bandy Town Fan at 07:30 a.m. O2 - 20.53, CH4 - 0.2, CO - 152
4/8/2010 9:51	Timothy Workman	UBB MINE RESCUE TEAMS : Massey-Southern WV, 17 team members onsite; Massey-East KY, 9 team members onsite; Patriot Coal -Southern Appalachia WV, 10 team members onsite; Massey-Knox Creek VA, 6 team members onsite; Patriot Coal-Magnum WV, 12 team members onsite; Alpha-Kingston-WV, 9 team members onsite; Alpha- Cobra Natural Resources, 6 team members onsite.
4/8/2010 9:53	Timothy Workman	Explosive mixture and 5% CH4 found at bore hole. Teams instructed to withdrawl.
4/8/2010 9:56	Timothy Workman	Mine rescue member (Jimmy) called out from the location 2 breaks inby fresh air base. Cris Adkins informed him to get out. Team was at survey spad #22656.
4/8/2010 10:19	Timothy Workman	Readings taken at Bandy Town Fan at 9:15 were: O2 - 20.53, CH4 - 0.2, CO - 152

4/8/2010 10:20	Timothy Workman	Readings taken at Bandy Town Fan at 9:30 were: O2 - 20.66, CH4 - 0.2, CO - 146
4/8/2010 10:21	Timothy Workman	Readings taken at Bandy Town Fan at 9:45 were: O2 - 20.76, CH4 - 0.2, CO - 132
4/8/2010 10:22	Timothy Workman	Readings taken at Bandy Town Fan at 10:00 a.m. were: O2 - 20.74, CH4 - 0.2, CO - 120
4/8/2010 10:24	Timothy Workman	At 9:44 a.m., Mine rescue teams are at the mouth of the longwall traveling to break 78. Stated they will call out at break 78.
4/8/2010 10:26	Timothy Workman	Bore Hole #2 at 1030 feet.
4/8/2010 10:27	Timothy Workman	Bore Hole #3 at 90 feet.
4/8/2010 10:29	Timothy Workman	Bore Hole #4 at 1150 feet, and stopped due to persons underground.
4/8/2010 10:43	Timothy Workman	The 04/08/2010 9:53:37 entry was in error. The total combustibles were over 5%. The CH4 at last sample was 3.8%
4/8/2010 10:59	Timothy Workman	10:07 a.m. team called out from break 78. teams are on mantrip traveling to surface.
4/8/2010 11:00	Timothy Workman	Teams are outside at 10:55
4/8/2010 11:02	Timothy Workman	Bandy Town Fan at 10:45 a. m. -- O2-20.63, CH4-0.3, CO-110
4/8/2010 11:09	Timothy Workman	Sample location 3, BH-1 Bottom, at 7:30 a.m. on 04/08/10 : H2 - 7485, O2-16.34, N2-75.11, CH4-3.82, CO- 11359, CO2- 1.84, C2H2-144, C2H4- 758, C2H6- 200, Ar -0.90
4/8/2010 11:12	Timothy Workman	Sample location 3, BH-1 Bottom, at 8:00 a.m. on 04/08/10 : H2 - 7408, O2-16.39, N2-75.13, CH4-3.81, CO- 11248, CO2- 1.79, C2H2-198, C2H4- 750, C2H6- 200, Ar -0.90
4/8/2010 11:16	Timothy Workman	Sample location 3, BH Bottom, at 9:00 a.m. on 04/08/10 : H2 - 7112, O2-16.48, N2-75.14, CH4-3.84, CO- 10838, CO2- 1.74, C2H2-161, C2H4- 699, C2H6- 200, Ar - 0.90
4/8/2010 11:38	Timothy Workman	Sample location, BH Bottom, at 9:30 a.m. on 04/08/10 : H2 - 8575, O2-16.84, N2-75.19, CH4-3.76, CO- 10100, CO2- 1.62, C2H2-180, C2H4- 718, C2H6- 196, Ar -0.62, Raw Total 97.89
4/8/2010 11:41	Timothy Workman	Sample location, BH Bottom, at 10:00 a.m. on 04/08/10 : H2 - 8274, O2-17.00, N2-75.30, CH4-3.71, CO- 9630, CO2- 1.57, C2H2-175, C2H4- 694, C2H6- 190, Ar -0.52, Raw Total 97.58
4/8/2010 11:44	Timothy Workman	Sample location, BH Bottom, at 10:30 a.m. on 04/08/10 : H2 - 8279, O2-16.98, N2-75.21, CH4-3.76, CO- 9700, CO2- 1.57, C2H2-175, C2H4- 695, C2H6- 190, Ar -0.59, Raw Total 97.89
4/8/2010 11:57	Timothy Workman	Bandy Town Fan readings at 11:00 were: O2- 20.60, CH4- 0.3, CO- 106
4/8/2010 11:58	Timothy Workman	Bandy Town Fan readings at 11:15 were: O2- 20.54, CH4- 0.3, CO- 103

4/8/2010 11:58	Timothy Workman	Bandy Town Fan readings at 11:30 were: O2- 20.50, CH4- 0.3, CO- 105
4/8/2010 12:07	Timothy Workman	Informed at command center that hole #2 went through.
4/8/2010 12:26	Timothy Workman	Bandy Town Fan readings at 11:45 were: O2- 20.50, CH4- 0.3, CO- 101
4/8/2010 12:27	Timothy Workman	Bandy Town Fan readings at 12:00 were: O2- 20.53, CH4- 0.3, CO- 100
4/8/2010 12:28	Timothy Workman	Bandy Town Fan readings at 12:15 were: O2- 20.40, CH4- 0.3, CO- 101
4/8/2010 13:06	Timothy Workman	At 12:01. Drill at location of hole 8-A at Burning Ridge informed to move to hole 8-B
4/8/2010 13:10	John Hendley	We received a call from ChemBio (a refuge alternative manufacturer) and they offered the use of their 1250 CFM blower if needed for the rescue operations. They are located in Beaver WV and the
4/8/2010 13:11	Timothy Workman	At 12:01, C.J. Drilling at site 2 was informed to move to site 3, hole UBB-5B. At time of move, hole at site 3 was 150 feet from cutting through.
4/8/2010 13:13	Timothy Workman	At 12:01, C.J. Drilling at site 1, hole 3 was informed to move to location of holes UBB-10A and UBB-7. Move in progress.
4/8/2010 13:14	Timothy Workman	At 12:01, all drills moving to new locations.
4/8/2010 13:19	Timothy Workman	At 12:35, drill over refuge chamber, at the location of head gate 22, began drilling a 6 inch diameter hole. Expected to cut through between 1000 and 1100 feet. This location is the same elevation as bore hole 1 and 2.
4/8/2010 13:24	Timothy Workman	Bandy Town Fan Air reading at 12:30. O2- 20.35, CH4- 0.3, CO- 105
4/8/2010 13:25	Timothy Workman	Bandy Town Fan readings at 12:45 were: O2- 20.36, CH4- 0.3, CO- 112
4/8/2010 13:29	Timothy Workman	Sample location, BH Bottom, at 11:00 a.m. on 04/08/10 : H2 - 8061, O2-17.01, N2-75.14, CH4- 3.74, CO- 9615, CO2- 1.54, C2H2-172, C2H4- 683, C2H6- 188, Ar -0.69, Raw Total 97.58
4/8/2010 13:32	Timothy Workman	Sample location, BH Bottom, at 11:30 a.m. on 04/08/10 : H2 - 6896, O2-17.60, N2-75.46, CH4- 3.37, CO- 8229, CO2- 1.34, C2H2-149, C2H4- 590, C2H6- 162, Ar -0.63, Raw Total 97.45
4/8/2010 13:44	Timothy Workman	Bandy Town Fan at 13:15. O2-20.3, CH4- 0.2, CO- 112
4/8/2010 13:45	Timothy Workman	Bandy Town Fan at 13:15. O2-20.3, CH4- 0.2, CO- 112
4/8/2010 13:48	Timothy Workman	Bandy Town Fan at 13:30. O2-20.43, CH4- 0.2, CO- 125
4/8/2010 14:04	Timothy Workman	At 12:45, The drill is in location at hole UBB-7/10A. The drill has drilled to a depth of 10 feet at this location.

4/8/2010 14:10	Timothy Workman	At 14:00. Drill has completed move to the location at hole 8-B. Road work is being performed at this location do to weather. Drilling will begin when road work is completed.
4/8/2010 14:47	Greg Fetty	The drill steel is out of bore hole No. 2. It will take approximately 1 hour to install a fan and shroud. The hole was ingassing at the time the steel was removed. The drill hole directly over the refuge chamber on the 22 headgate section is still running. A depth was not available at the time of this update.
4/8/2010 14:50	Greg Fetty	Bandytown Readings @ 1345 hours - O2 is 20.43, Ch4 is 0.2 and CO is 125 ppm (all readings taken with a handheld). At 1400 hours, O2 is 20.47, Ch4 is 0.2 and CO is 123 ppm. At 1415hours, the O2 is 20.52, Ch4 is 0.2, and CO is 121 ppm. At 1430 hours, the O2 is 20.63, Ch4 is 0.2, and CO is 117 ppm.
4/8/2010 15:09	Greg Fetty	Bandy Town Fan readings at 14:45 were: O2- 20.67, CH4- 0.2, CO- 112; Bandy Town Fan readings at 15:00 were: O2- 20.63, CH4- 0.2, CO- 114
4/8/2010 15:17	Timothy Workman	At 14:55. Drilling has not started at drill hole 8-B, due to weather.
4/8/2010 15:36	Timothy Workman	At 15:15. The UBB10A Hole has been drilled to a depth of 115 Feet.
4/8/2010 15:45	Timothy Workman	At 15:42. The drill hole at the refuge chamber has drilled to a depth of 200 feet.
4/8/2010 15:50	Timothy Workman	At 15:42, the fan being installed on the second bore hole became operational at 15:20.
4/8/2010 15:53	Timothy Workman	At 15:45. Drill that will drill monitoring hole is moving. Expected to be onsite in 30 minutes.
4/8/2010 16:02	Timothy Workman	Location of drill hole UBB10A is at survey spad 24493, center of block, Rescue Chamber Hole, #2 entry
4/8/2010 16:37	Fetty	Hole 10A - the hole being installed over the Rescue Chamber is 200' deep. The drill rig in tailgate 22 is ready to begin drilling operations.
4/8/2010 17:00	Fetty	Site 1, Hole 3 - steel is stopped up. Drilling stopped. Fans are running on holes 1 & 2. A drill rig has been moved to hole 5B and should begin drilling shortly.

4/8/2010 17:34	Fetty	Bandy Town Fan readings at 15:15 were: O2- 20.59, CH4- 0.2, CO- 115; Bandy Town Fan readings at 15:30 were: O2- 20.58, CH4- 0.2, CO- 112; Bandy Town Fan readings at 15:45 were: O2- 20.59, CH4- 0.2, CO- 116; Bandy Town Fan readings at 16:00 were: O2 - 20.60, Ch4 - 0.2, CO 115 ppm; Bandy Town Fan readings at 16:15 were: O2- 20.61, CH4- 0.2, CO- 115; Bandy Town Fan readings at 16:30 were: O2- 20.62, CH4- 0.2, CO- 111; Bandy Town Fan readings at 16:45 were: O2- 20.78, CH4- 0.2, CO- 111
4/8/2010 17:47	Fetty	At 4:30 p.m., Site 1 Hole 3, is drilling and is at a depth of 80'. The 10A drill has drilled to a depth of 365 feet and has stopped to case the hole. The drill at the 5B drill hole is set up and getting ready to start. The drill at the tailgate section is stuck and hasn't made it to the site.
4/8/2010 19:00	Fetty	Bandy Town Fan readings at 17:00 were: O2- 20.77, CH4- 0.2, CO- 110; Bandy Town Fan readings at 17:15 were: O2- 20.79, CH4- 0.2, CO- 104; Bandy Town Fan readings at 17:30 were: O2- 20.81, CH4- 0.2, CO- 103; Bandy Town Fan readings at 17:45 were: O2 - 20.80, Ch4 - 0.2, CO 100 ppm; Bandy Town Fan readings at 18:00 were: O2- 20.8, CH4- 0.2, CO- 101; Bandy Town Fan readings at 18:15 were: O2- 20.8, CH4- 0.2, CO- 98; Bandy Town Fan readings at 18:30 were: O2- 20.8, CH4- 0.2, CO- 95
4/8/2010 19:16	Fetty	At hole 3 of site 1 (UBB-1C), the drill is at a depth of 80'. At hole 10A (refuge chamber). 5B is set up but not drilling.
4/8/2010 19:35	Fetty	At hole 5B, just starting to drill and at a depth of 30'. Hole 3, site 1, is at 80' and casing is being installed. The drill at 10A is still hung. The drill at borehole 12 is still waiting to start, pending delivery of supplies.
4/8/2010 19:41	Fetty	Sample location, chromatograph readings - BH Bottom, at 4:00 p.m. on 04/08/10 : O2 - 18.05, Ch4 - 3.27, CO is 7112 ppm; 6:00 p.m. O2 - 17.7, Ch4 - 3.68, CO is 7800 ppm;
4/8/2010 20:38	Fetty	Site 1, Hole 3 still sitting at 80 feet. The bit is starting to move at the 10 A hole. MSHA sample hole 5B is 30 feet and is expected to gain quickly. Site 4, hole 12 still has not started. Can't get steels to the drill. The road is being repaired and ballasted.
4/8/2010 22:13	Fetty	Sample location, chromatograph readings - BH Bottom, at 6:30 p.m. on 04/08/10 : O2 - 17.47, Ch4 - 3.66, CO is 7355 ppm; 7:00 p.m. O2 - 17.52, Ch4 - 3.62, CO is 7209 ppm; 7:30 p.m. O2 - 17.53, Ch4 3.66, CO is 7230; 8:00 p.m. 17.55 O2, 3.64 Ch4, 7145 ppm CO

4/8/2010 22:44	Fetty	Hole 10A is drilled to a depth of 400'. The steel is being removed to install the casing. No other changes to report.
4/8/2010 23:49	Fetty	Hole 5B is down 80' and drilling. Hole 12 should start drilling within an hour or two.
4/9/2010 0:28	Fred Wills	MSHA Personnel presently at mine site. Joe Athey is monitoring drill site, Bill Bane is the runner, transporting gas samples from Bandy Fan to Tech Support, Ed Hendrick is taking notes in the command center of event occurring underground when mine rescue teams enter underground. Clyde Grae is receiving gas reading from drill site, Andrew Sparks is monitoring at the drill site and nitrogen being injected into the mines, [REDACTED] is guarding mine records at the main office.
4/9/2010 0:55	Kevin Lyall	BH-1 Bottom at 20:30 O2 - 17.62, Ch4 - 3.61, CO is 6919 ppm, 21:00 O2 - 17.63, Ch4 - 3.61, CO is 6762 ppm, 21:30 O2 - 17.68, Ch4 - 3.59, CO is 6635 ppm, 21:40 O2 - 17.70, Ch4 - 3.61, CO is 6627, 22:45 O2 17.75, Ch4 - 3.61, CO is 6498, 23:00 O2 - 17.83, Ch4 - 3.52, CO is 6305, 23:30 O2 - 17.87, Ch4 - 3.52, CO is 6188 ppm
4/9/2010 1:15	Kevin Lyall	Readings taken at the BH-1 with handheld detector at O2 - 20.90, Ch4 - 0.2, CO 87 ppm at 23:30. O2 - 20.91, Ch4 - 0.2, CO 82 ppm at 23:45. O2 - 20.91, Ch4 - 0.2, CO 79 ppm at 24:00. O2 - 20.90, Ch4 - 0.2, CO 78 ppm at 24:15. O2 - 20.91, Ch4 0.2, CO 78 ppm at 24:30. O2 - 20.91, Ch4 - 0.2, CO 76 ppm at 24:45.
4/9/2010 1:24	Kevin Lyall	MSHA personnel on site Midnight shift, Tech support - 4 people, MEU - 7 people, Dist. 4 - 9 people
4/9/2010 1:25	Kevin Lyall	Two (2) mine rescue teams entered mine at 24:40
4/9/2010 1:30	Kevin Lyall	BH- 3 no drilling 80 ft and holding dust system is down. BH-10A 400 ft adding casing, delay due to road condition. BH-12 not started rig in bad location could not get drill steel. BH- 5B 270 ft and drilling
4/9/2010 1:32	Kevin Lyall	Mine Rescue teams has arrived at Break 78, bare face, proceeding to FAB at Muel Train on the long wall.

4/9/2010 1:52	Kevin Lyall	Bandy Town Fan readings at 18:45 were: O2- 20.80, CH4- 0.2, CO- 92; Bandy Town Fan readings at 19:00 were: O2- 20.81, CH4- 0.2, CO- 91; Bandy Town Fan readings at 19:15 were: O2- 20.80, CH4- 0.2, CO- 191; Bandy Town Fan readings at 19:30 were: O2 - 20.79, Ch4 - 0.2, CO 89 ppm; Bandy Town Fan readings at 19:45 were: O2- 20.77, CH4- 0.2, CO- 91; Bandy Town Fan readings at 20:00 were: O2- 20.8, CH4- 0.2, CO- 93; Bandy Town Fan readings at 20:15 were: O2- 20.77, CH4- 0.2, CO- 91 ; Bandy Town Fan readings at 20:30 were: O2- 20.77, CH4- 0.2, CO- 93; Bandy Town Fan readings at 21:00 were: O2- 20.78, CH4- 0.2, CO- 94; Bandy Town Fan readings at 21:15 were: O2- 20.78, CH4- 0.2, CO- 95; Bandy Town Fan readings at 21:30 were: O2 - 20.80, Ch4 - 0.2, CO 94 ppm; Bandy Town Fan readings at 21:45 were: O2- 20.8, CH4- 0.2, CO- 94; Bandy Town Fan readings at 22:00 were: O2- 20.82, CH4- 0.2, CO- 93; Bandy Town Fan readings at 22:15 were: O2- 20.82, CH4- 0.2, CO- 91;
4/9/2010 1:56	Kevin Lyall	Bandy Town Fan readings at 22:30 were: O2- 20.85, CH4- 0.2, CO- 91; Bandy Town Fan readings at 22:45 were: O2- 20.86, CH4- 0.2, CO- 88; Bandy Town Fan readings at 23:00 were: O2- 20.88, CH4- 0.2, CO- 87; Bandy Town Fan readings at 23:15 were: O2- 20.89, CH4- 0.2, CO- 87;
4/9/2010 2:06	Kevin Lyall	Bandy Town Fan readings at 23:30 were: O2- 20.90, CH4- 0.2, CO- 87; Bandy Town Fan readings at 23:45 were: O2- 20.91, CH4- 0.2, CO- 82; Bandy Town Fan readings at 24:00 were: O2- 20.91, CH4- 0.2, CO- 79; Bandy Town Fan readings at 24:15 were: O2- 20.90, CH4- 0.2, CO- 78; Bandy Town Fan readings at 24:30 were: O2- 20.91, CH4- 0.2, CO- 78; Bandy Town Fan readings at 24:45 were: O2- 20.91, CH4- 0.2, CO- 76; Bandy Town Fan readings at 01:00 were: O2- 20.91, CH4- 0.2, CO- 72; Bandy Town Fan readings at 01:15 were: O2- 20.91, CH4- 0.2, CO- 72;
4/9/2010 2:15	Kevin Lyall	At 02:10 #3 hole 80 ft drilling; 10-A 40ft not drilling putting in casing, 2 more joints; MSHA sampling hole 445 ft drilling; Hole#12 83 ft drilling.
4/9/2010 2:32	Kevin Lyall	Bandy Town Fan readings at 01:30 were: O2- 20.91, CH4- 0.2, CO 70; Bandy Town Fan readings at 01:45 were: O2- 20.91, CH4- 0.2, CO- 69;
4/9/2010 2:34	Kevin Lyall	01:32 mine rescue team at break #78; 0.00% Ch4, 20.8% O2, advancing

4/9/2010 2:44	Kevin Lyall	BH-1 Bottom at 24:15 O2 - 17.86, Ch4 - 3.60, CO is 6299 ppm, 24:30 O2 - 17.94, Ch4 - 3.50, CO is 6061 ppm, 24:45 O2 - 17.91, Ch4 - 3.56, CO is 6124 ppm, 01:00 O2 - 18.11, Ch4 - 3.35, CO is 5596, 01:15 O2 18.01, Ch4 - 3.47, CO is 5921 ppm.
4/9/2010 3:07	Kevin Lyall	BH-1 Bottom at 2:00 O2 - 17.99, Ch4 - 3.55, CO is 5860 ppm,
4/9/2010 3:17	Kevin Lyall	Hole #3, 98 ft drilling; Hole #10-A, 400 ft ready to drill; Hole #5, MSHA sampling hole 545 ft not drilling; Hole #12, 86 ft not drilling.
4/9/2010 3:20	Kevin Lyall	BH-1 Bottom at 1:45 O2 - 17.98, Ch4 - 3.55, CO is 5911 ppm,
4/9/2010 3:42	Kevin Lyall	BH-1 Bottom at 02:30 O2 - 18.26, Ch4 - 3.25, CO is 5307 ppm,
4/9/2010 3:47	Kevin Lyall	BH-1 Bottom at 2:15 O2 - 18.02, Ch4 - 3.56, CO is 5772 ppm,
4/9/2010 3:51	Kevin Lyall	3:15; Mine rescue team at fresh air base Longwall stage loader, traveling inby from there. 0.00% Ch4, 20.8% O2, Co 0 ppm
4/9/2010 4:01	Kevin Lyall	Bandy Town Fan readings at 02:00 were: O2- 20.90, CH4- 0.2, CO 68; Bandy Town Fan readings at 02:15 were: O2- 20.91, CH4- 0.2, CO- 66; Bandy Town Fan readings at 02:30 were: O2- 20.87, CH4- 0.2, CO 68; Bandy Town Fan readings at 02:45 were: O2- 20.87, CH4- 0.2, CO- 70; Bandy Town Fan readings at 03:00 were: O2- 20.83, CH4- 0.2, CO 70; Bandy Town Fan readings at 03:15 were: O2 20.83, CH4- 0.2, CO- 77; Bandy Town Fan readings at 03:30 were: O2- 20.81, CH4- 0.2, CO 83;
4/9/2010 4:07	Kevin Lyall	BH-1 Bottom at 03:00 O2 - 18.06, Ch4 - 3.54, CO is 5680 ppm,
4/9/2010 4:24	Kevin Lyall	BH-1 Bottom at 02:45 O2 - 18.04, Ch4 - 3.56, CO is 5734 ppm,
4/9/2010 4:39	Kevin Lyall	04:35: Hole #3, 225 ft drilling; Hole #10-A, 400 ft drilling; Hole #5, MSHA sampling hole, 545 ft not drilling; Hole #12, could not get to the drill site due to water trucks on the road
4/9/2010 4:40	Kevin Lyall	04:45: Hole #12, 103 ft and drilling
4/9/2010 4:50	Kevin Lyall	Bandy Town Fan readings at 03:45 were: O2- 20.82, CH4- 0.2, CO 85; Bandy Town Fan readings at 04:00 were: O2- 20.90, CH4- 0.2, CO 87; Bandy Town Fan readings at 04:15 were: O2- 20.93, CH4- 0.2, CO 85;
4/9/2010 4:56	Kevin Lyall	04:30: Mine rescue team examined rescue chamber inby Longwall, was not deployed. Team traveling toward cut through, in cut through detected CO 940 ppm, and smoke, Team pulled from mine.
4/9/2010 4:57	Kevin Lyall	BH-1 Bottom at 03:30 O2 - 18.10, Ch4 - 3.52, CO is 5645 ppm,

4/9/2010 5:16	Kevin Lyall	BH-1 Bottom at 03:15 O2 - 18.09, Ch4 - 3.54, CO is 5619 ppm, BH-1 Bottom at 04:00 O2 - 18.18, Ch4 - 3.47, CO is 5411 ppm,
4/9/2010 5:33	Kevin Lyall	BH-1 Bottom at 04:30 O2 - 18.14, Ch4 - 3.54, CO is 5457 ppm,
4/9/2010 5:49	Kevin Lyall	BH-1 Bottom at 04:15 O2 - 18.26, Ch4 - 3.37, CO is 5183 ppm,
4/9/2010 6:04	Kevin Lyall	06:05: Hole #3, 396 ft drilling; Hole #10-A, 555 ft drilling; Hole #5, MSHA sampling hole, 545 ft not drilling; Hole #12, stopped drilling.
4/9/2010 6:06	Kevin Lyall	BH-1 Bottom at 05:00 O2 - 18.15, Ch4 - 3.54, CO is 5473 ppm,
4/9/2010 6:16	Kevin Lyall	Bandy Town Fan readings at 04:30 were: O2- 20.94, CH4- 0.2, CO 85; Bandy Town Fan readings at 04:45 were: O2- 20.95, CH4- 0.2, CO 85; Bandy Town Fan readings at 05:00 were: O2- 20.95, CH4- 0.2, CO 83; Bandy Town Fan readings at 05:15 were: O2- 20.98, CH4- 0.2, CO 78; Bandy Town Fan readings at 05:30 were: O2- 20.98, CH4- 0.2, CO 75; Bandy Town Fan readings at 05:45 were: O2- 20.98, CH4- 0.2, CO 74;
4/9/2010 6:23	Kevin Lyall	BH-1 Bottom at 04:45 O2 - 18.17, Ch4 - 3.56, CO is 5441 ppm,
4/9/2010 6:45	Kevin Lyall	06:12: Mine rescue teams are on the surface.
4/9/2010 6:48	Kevin Lyall	BH-1 Bottom at 05:30 O2 - 18.20, Ch4 - 3.54, CO is 5319 ppm,
4/9/2010 7:17	Kevin Lyall	07:08: Hole #3, 396 ft not drilling; Hole #10A, 680 ft drilling; Hole #5B, MSHA sampling hole, 545 ft not drilling; Hole #12 stop drilling at 103 ft and moving to Hole #8.
4/9/2010 7:23	Kevin Lyall	Bottle sample taken underground in the smoke area: O2 20.74, CH4 0.16, CO 260 ppm.
4/9/2010 7:44	Timothy Workman	04/09/2010 at 5:30. BH-1 Bottm-- H2 - 4800ppm; O2 - 18.20%; N2 - 75.35%; CH4 - 3.54%; CO - 5319ppm; CO2 - 0.94%; C2H2 - 101ppm; C2H4 - 387ppm; C2H6 - 100ppm; Ar 0.90;
4/9/2010 7:50	Timothy Workman	04/09/2010 at 6:00 a. m.. BH-1 Bottm-- H2 - 4505ppm; O2 - 18.26%; N2 - 75.41%; CH4 - 3.48%; CO - 5224ppm; CO2 - 0.92%; C2H2 - 107ppm; C2H4 - 379ppm; C2H6 - 100ppm; Ar 0.90
4/9/2010 7:56	Timothy Workman	04/09/2010 at 6:30. SMOKE AREA -- H2 - 154ppm; O2 - 20.74%; N2 - 78.03%; CH4 - 0.16%; CO - 260ppm; CO2 - 0.09%; C2H2 - (NO DETECTIBLE AMOUNT); C2H4 - (NO DETECTIBLE AMOUNT); C2H6 - (NO DETECTIBLE AMOUNT); Ar 0.93
4/9/2010 8:27	Timothy Workman	Time 8:20 . Hole #3 at a depth of 396 feet. (not drilling, working on drill)
4/9/2010 8:29	Timothy Workman	Time 8:20 . Hole #10A at a depth of 780 feet. (Drilling)

4/9/2010 8:30	Timothy Workman	Time 8:20 . Hole #5B at a depth of 445 feet. (not drilling, installing casing)
4/9/2010 8:31	Timothy Workman	Time 8:20 . Hole #12 at tail gate. (stopped drilling, drill is changing location)
4/9/2010 8:34	Timothy Workman	Bandy Town Fan air reading. At 06:00. O2 - 20.98; CH4 - 0.2; CO - 72
4/9/2010 8:35	Timothy Workman	Bandy Town Fan air reading. At 06:15. O2 - 20.97; CH4 - 0.2; CO - 71
4/9/2010 8:35	Timothy Workman	Bandy Town Fan air reading. At 06:30. O2 - 20.97; CH4 - 0.2; CO - 70
4/9/2010 8:36	Timothy Workman	Bandy Town Fan air reading. At 06:45. O2 - 20.98; CH4 - 0.2; CO - 68
4/9/2010 8:37	Timothy Workman	Bandy Town Fan air reading. At 07:00. O2 - 20.98; CH4 - 0.2; CO - 65
4/9/2010 8:38	Timothy Workman	Bandy Town Fan air reading. At 07:15. O2 - 21.00; CH4 - 0.2; CO - 63
4/9/2010 8:40	Timothy Workman	Bandy Town Fan air reading. At 07:30. O2 - 20.99; CH4 - 0.2; CO - 59
4/9/2010 8:41	Timothy Workman	Bandy Town Fan air reading. At 07:45. O2 - 21.00; CH4 - 0.2; CO - 57
4/9/2010 8:42	Timothy Workman	Bandy Town Fan air reading. At 08:00. O2 - 20.99; CH4 - 0.2; CO - 54
4/9/2010 8:43	Timothy Workman	Bandy Town Fan air reading. At 08:15. O2 - 20.98; CH4 - 0.2; CO - 55
4/9/2010 8:43	Timothy Workman	Bandy Town Fan air reading. At 08:30. O2 - 20.98; CH4 - 0.2; CO - 56
4/9/2010 8:51	Timothy Workman	log entry dated 04/09/2010 07:56:05 (Smoke AREA) This is the sample results of bottle sample taken by mine rescue team.
4/9/2010 9:08	Timothy Workman	Sampling is completed at bore hole #1. Fan has been pulled from bore hole #1.
4/9/2010 9:25	Timothy Workman	04/09/2010 at 6:30 a. m.. BH-1 Bottom-- H2 - 4567ppm; O2 - 18.25%; N2 - 75.38%; CH4 - 3.52%; CO - 5193ppm; CO2 - 0.92%; C2H2 - 92ppm; C2H4 - 348ppm; C2H6 - 100ppm; Ar 0.90
4/9/2010 9:31	Timothy Workman	04/09/2010 at 7:00 a. m.. BH-1 Bottom-- H2 - 4515ppm; O2 - 18.27%; N2 - 75.31%; CH4 - 3.60%; CO - 5061ppm; CO2 - 0.90%; C2H2 - 93ppm; C2H4 - 342ppm; C2H6 - 200ppm; Ar 0.90
4/9/2010 9:33	Timothy Workman	Bandy Town Fan air reading. At 08:45. O2 - 20.97; CH4 - 0.2; CO - 53
4/9/2010 9:34	Timothy Workman	Bandy Town Fan air reading. At 09:00. O2 - 20.97; CH4 - 0.2; CO - 51
4/9/2010 10:03	Timothy Workman	8:50 a.m. Site 1, hole 3 waiting on casing not drilling.
4/9/2010 10:04	Timothy Workman	8:50 . Hole 10A (893 feet) drilling
4/9/2010 10:06	Timothy Workman	9:09 Hole 5B (445feet) installing casing, not drilling
4/9/2010 10:07	Timothy Workman	9:12 Drill still in process of moving from hole 12 to site 2 hole B

4/9/2010 10:21	Timothy Workman	Bandy Town Fan air reading. (hand held) At 09:15. O2 - 20.01; CH4 - 0.2; CO - 54
4/9/2010 10:23	Timothy Workman	nitrogen information: as of 06:00, 6 trucks on site, 4000 gallons per truck, as of 09:05 a.m. 2512 gallons have been pumped. 121 gallons per minute, conversion factor 93.12= 11,267cfpm
4/9/2010 10:24	Timothy Workman	Bandy Town Fan air reading. (hand held) At 09:30. O2 - 20.01; CH4 - 0.2; CO - 53
4/9/2010 10:25	Timothy Workman	Bandy Town Fan air reading. (hand held) At 09:45. O2 - 20.97; CH4 - 0.2; CO - 61
4/9/2010 10:27	Timothy Workman	Bandy Town Fan air reading. (hand held) At 10:00. O2 - 20.97; CH4 - 0.2; CO - 64
4/9/2010 10:36	Timothy Workman	Bandy Town Fan sample. TIME 0:00. H2 - 101ppm; O2 - 20.95%; N2 -- 78.11%; CH4 --0.18%- ; CO -- 191ppm; CO2 -- 0.10%; C2H2 -- 3 ppm; C2H4 --10 ppm; C2H6 -- 64ppm; Ar 0.34%
4/9/2010 10:48	Timothy Workman	As of 10:30, 5B expected to be drilling in 30 minutes.
4/9/2010 10:53	Timothy Workman	10:30 Site 1, hole 3. not drilling (depth 396 feet) waiting on casing to arrive on site.
4/9/2010 10:54	Timothy Workman	10:30a m Hole 10A (1015 feet) drilling
4/9/2010 11:00	Timothy Workman	10:00 a.m. nitrogen information. 8033 gallons total have been pumped. Pumping 182.5 gallons per minute. conversion factor of 93.12 =16,994cfpm
4/9/2010 11:04	Timothy Workman	Bleeder Fan sample. TIME 1:00. H2 - 97ppm; O2 - 20.95%; N2 -- 78.14%; CH4 --0.18%- ; CO -- 185ppm; CO2 -- 0.10%; C2H2 -- 2 ppm; C2H4 --9 ppm; C2H6 -- 63ppm; Ar 0.31%
4/9/2010 11:10	Timothy Workman	Bleeder Fan sample. TIME 2:00. H2 - 93ppm; O2 - 20.95%; N2 -- 78.18%; CH4 --0.18%- ; CO -- 178ppm; CO2 -- 0.09%; C2H2 -- 2 ppm; C2H4 --9 ppm; C2H6 -- 62ppm; Ar 0.27%
4/9/2010 11:13	Timothy Workman	Bleeder Fan sample. TIME 3:00. H2 - 94ppm; O2 - 20.95%; N2 -- 78.34%; CH4 --0.18%- ; CO -- 179ppm; CO2 -- 0.09%; C2H2 -- 3 ppm; C2H4 --9 ppm; C2H6 -- 62ppm; Ar 0.07%
4/9/2010 11:15	Timothy Workman	Bleeder Fan sample. TIME 4:00. H2 - 91ppm; O2 - 20.95%; N2 -- 78.30%; CH4 --0.17%- ; CO -- 175ppm; CO2 -- 0.10%; C2H2 -- 2 ppm; C2H4 --9 ppm; C2H6 -- 61ppm; Ar 0.12%
4/9/2010 11:17	Timothy Workman	Bleeder Fan sample. TIME 05:00. H2 - 88ppm; O2 - 20.95%; N2 -- 78.27%; CH4 --0.18%- ; CO -- 176ppm; CO2 -- 0.11%; C2H2 -- 3 ppm; C2H4 --11 ppm; C2H6 -- 61ppm; Ar 0.15%
4/9/2010 11:18	Timothy Workman	Bleeder Fan sample. TIME 06:00. H2 - 80ppm; O2 - 20.95%; N2 -- 78.27%; CH4 --0.17%- ; CO -- 165ppm; CO2 -- 0.11%; C2H2 -- 2 ppm; C2H4 --8 ppm; C2H6 -- 60ppm; Ar 0.16%

4/9/2010 11:19	Timothy Workman	Bleeder Fan sample. TIME 07:00. H2 - 83ppm; O2 - 20.95%; N2 -- 78.35%; CH4 --0.18%- ; CO -- 166ppm; CO2 -- 0.10%; C2H2 -- 2 ppm; C2H4 --8 ppm; C2H6 -- 61ppm; Ar 0.06%
4/9/2010 11:21	Timothy Workman	Bleeder Fan sample. TIME 8:00. H2 - 80ppm; O2 - 20.95%; N2 -- 78.22%; CH4 --0.18%- ; CO -- 165ppm; CO2 -- 0.12%; C2H2 -- 3 ppm; C2H4 -- 910ppm; C2H6 -- 60ppm; Ar 0.23%
4/9/2010 11:31	Timothy Workman	Bleeder Fan sample. 4/8/2010 TIME 09:00. H2 - 76ppm; O2 - 20.95%; N2 -- 78.06%; CH4 --0.16%- ; CO --125ppm; CO2 -- 0.11%; C2H2 -- 2 ppm; C2H4 --8 ppm; C2H6 -- 54ppm; Ar 0.45%
4/9/2010 11:42	Timothy Workman	Fan sample information entered into log on 04/09/2010 at 11:04:22, 11:10:40, 11:13:31, 11:15:10, 11:17:03; 11:18:29, 11:19:41, and 11:21:27 were sampled on the date of 4/08/2010
4/9/2010 11:45	Timothy Workman	11:10 Drill at site 1, hole 3 is still down for casing.
4/9/2010 11:47	Timothy Workman	Hole 10A at 11:15 drill depth 1050 feet expect to break through in 30 minutes.
4/9/2010 11:48	Timothy Workman	Hole 5B at 11:30 depth 450 feet (drilling)
4/9/2010 11:52	Timothy Workman	nitrogen information. As of 11:00a. m. 4/9/2010 --- 20071 gallons have been pumed. Pumping 182.5 gallons per minute, conversion factor 93.12= 16994cfpm
4/9/2010 12:00	Timothy Workman	Bandy town Fan air reading (hand held) O2 20.90, CH4 0.2, CO-- 115
4/9/2010 12:04	Timothy Workman	Gas Readings: Bandy town Fan 11:am O2 20.9% CH4 .20% CO 140ppm CO2
4/9/2010 12:06	Timothy Workman	Gas Readings: Bandy Town Fan 11:15 O2 20.91% CH4 0.20% CO 171ppm CO2
4/9/2010 12:07	Timothy Workman	Gas Readings: Bandy town Fan 11:30 O2 20.92% CH4 0.30% CO 197ppm CO2
4/9/2010 12:10	Timothy Workman	Gas Readings: Bandy town Fan 11:30 O2 20.92% CH4 0.30% CO 197ppm CO2
4/9/2010 12:11	Timothy Workman	Gas Readings: Bandy town Fan 11:45 O2 20.89% CH4 0.30% CO 221ppm CO2
4/9/2010 12:13	Timothy Workman	Gas Readings: Bandytown Fan 12:00pm O2 20.86% CH4 0.30% CO 234ppm CO2
4/9/2010 12:17	Timothy Workman	12:15 MSHA Supervisor on site at location of Hole 10A called and stated that drill hole 10A is a confirmed miss.
4/9/2010 12:20	Timothy Workman	Gas Readings: Bandytown Fan 1215pm O2 20.86% CH4 0.30% CO 222ppm CO2
4/9/2010 12:29	Timothy Workman	Bleeder Fan sample. TIME 00:00, 4/9/2010 H2 - 49ppm; O2 - 20.95%; N2 -- 78.29%; CH4 --0.13%- ; CO --89ppm; CO2 -- 0.08%; C2H2 -- 2 ppm; C2H4 -- 5 ppm; C2H6 -- 46ppm; Ar 0.14%

4/9/2010 12:31	Timothy Workman	Bleeder Fan sample. TIME 01:00, 4/9/2010 H2 - 52ppm; O2 - 20.95%; N2 -- 77.73%; CH4 --0.15%- ; CO --88ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 5 ppm; C2H6 -- 51ppm; Ar 0.93%
4/9/2010 12:34	Timothy Workman	Bleeder Fan sample. TIME 02:00, 4/9/2010 H2 - 49ppm; O2 - 20.95%; N2 -- 77.72%; CH4 --0.14%- ; CO --84ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 4ppm; C2H6 -- 50ppm; Ar 0.93%
4/9/2010 12:38	Timothy Workman	Bleeder Fan sample. TIME 03:00, 4/9/2010 H2 - 49ppm; O2 - 20.95%; N2 -- 77.72%; CH4 --0.16%- ; CO --82ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 5; C2H6 -- 46ppm; Ar 0.93%
4/9/2010 12:40	Timothy Workman	Bleeder Fan sample. TIME 03:30, 4/9/2010 H2 - 46ppm; O2 - 20.95%; N2 -- 77.73%; CH4 --0.15%- ; CO --82ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 4 ppm; C2H6 -- 49ppm; Ar 0.93%
4/9/2010 12:45	Timothy Workman	Bleeder Fan sample. TIME 04:00, 4/9/2010 H2 - 45ppm; O2 - 20.95%; N2 -- 77.73%; CH4 --0.13%- ; CO --76ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 4 ppm; C2H6 -- 46ppm; Ar 0.93%
4/9/2010 12:48	Timothy Workman	Bleeder Fan sample. TIME 04:30, 4/9/2010 H2 - 49ppm; O2 - 20.95%; N2 -- 77.69%; CH4 --0.15%- ; CO --84ppm; CO2 -- 0.09%; C2H2 -- 2 ppm; C2H4 -- 6 ppm; C2H6 -- 49ppm; Ar 0.93%
4/9/2010 12:52	Timothy Workman	Bleeder Fan sample. TIME 05:00, 4/9/2010 H2 - 48ppm; O2 - 20.95%; N2 -- 77.70%; CH4 --0.15%- ; CO --84ppm; CO2 -- 0.09%; C2H2 -- 2 ppm; C2H4 -- 6 ppm; C2H6 -- 49ppm; Ar 0.93%
4/9/2010 12:57	Timothy Workman	Bleeder Fan sample. TIME 06:00, 4/9/2010 H2 - 46ppm; O2 - 20.95%; N2 -- 77.72%; CH4 --0.14%- ; CO --78ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 5 ppm; C2H6 -- 46ppm; Ar 0.93%
4/9/2010 12:58	Timothy Workman	12:30 5B hole at a depth of 570 feet.
4/9/2010 13:04	Timothy Workman	Gas Readings: Bandy town Fan 12:15(handheld) O2 20.86% CH4 .20% CO 222ppm CO2
4/9/2010 13:21	Timothy Workman	The CH4 reading entered into log on 04/09/2010 at 13:04:08 is in error the correct CH4 reading is 0.3
4/9/2010 13:26	Timothy Workman	Bandytown Fan Reading (handheld) 12:30pm--O2 -- 20.86; CH4--0.3; CO--213
4/9/2010 13:27	Timothy Workman	Bandytown Fan Reading (handheld) 12:45pm--O2 -- 20.84; CH4--0.3; CO--208
4/9/2010 13:28	Timothy Workman	Bandytown Fan Reading (handheld) 13:00pm--O2 -- 20.82; CH4--0.2; CO--192
4/9/2010 13:29	Timothy Workman	As of 13:30 hole 5B was drilling at a depth of 705 feet
4/9/2010 13:38	Timothy Workman	Bandytown Fan Reading (handheld) 13:15pm--O2 -- 20.77; CH4--0.2; CO--186
4/9/2010 13:39	Timothy Workman	Bandytown Fan Reading (handheld) 13:30pm--O2 -- 20.77; CH4--0.2; CO--179

4/9/2010 13:41	Timothy Workman	nitrogen information: as of 12:30 pumping 10,000cfpm
4/9/2010 13:43	Timothy Workman	Nitrogen information as of 13:00. pumping 18000 CFPM
4/9/2010 13:45	Timothy Workman	As of 13:06 site 1, hole 3 is not drilling (waiting on casing)
4/9/2010 13:47	Timothy Workman	As of 13:06 drill at hole 10A is drilling at a depth of 1111 feet.
4/9/2010 13:51	Timothy Workman	Bleeder Fan sample. TIME 07:00, 4/9/2010 H2 - 46ppm; O2 - 20.95%; N2 -- 77.77%; CH4 --0.14%- ; CO --80ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 5ppm; C2H6 -- 48ppm; Ar 0.93%
4/9/2010 13:53	Timothy Workman	Bleeder Fan sample. TIME 08:00, 4/9/2010 H2 - 41ppm; O2 - 20.95%; N2 -- 77.77%; CH4 --0.13%- ; CO --72ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 4ppm; C2H6 -- 45ppm; Ar 0.93%
4/9/2010 13:54	Timothy Workman	Bleeder Fan sample. TIME 09:00, 4/9/2010 H2 - 39ppm; O2 - 20.95%; N2 -- 77.75%; CH4 --0.13%- ; CO --71ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 4ppm; C2H6 -- 43ppm; Ar 0.93%
4/9/2010 13:57	Timothy Workman	Bleeder Fan sample. TIME 10:00, 4/9/2010 H2 - 50ppm; O2 - 20.95%; N2 -- 77.73%; CH4 --0.15%- ; CO --87ppm; CO2 -- 0.08%; C2H2 -- 1 ppm; C2H4 -- 5ppm; C2H6 -- 46ppm; Ar 0.93%
4/9/2010 14:00	Timothy Workman	Bleeder Fan sample. TIME 11:00, 4/9/2010 H2 - 94ppm; O2 - 20.95%; N2 -- 77.74%; CH4 --0.19%- ; CO --145ppm; CO2 -- 0.09%; C2H2 -- 2 ppm; C2H4 --9ppm; C2H6 -- 48ppm; Ar 0.93%
4/9/2010 14:07	Timothy Workman	Bleeder Fan sample. TIME 12:00, 4/9/2010 H2 - 140ppm; O2 - 20.91%; N2 -- 77.79%; CH4 --0.23%- ; CO --190ppm; CO2 -- 0.09%; C2H2 -- 3 ppm; C2H4 --12ppm; C2H6 -- 48ppm; Ar 0.93%
4/9/2010 14:09	Timothy Workman	Bandytown Fan hand held readings at 14:00. O2-- 20.59, CH4--0.2, CO--172
4/9/2010 14:11	Timothy Workman	Hole 2B 30 feet from breaking through. Hole stopped.
4/9/2010 14:29	Timothy Workman	Bandytown Fan hand held readings at 14:15. O2-- 20.59, CH4--0.2, CO--157
4/9/2010 14:40	Timothy Workman	At 14:30 hole 5B was at a depth of 815 feet. Plan to stop hole at 1000 feet.
4/9/2010 14:41	Timothy Workman	14:06 Hole 10A final depth 1130 feet
4/9/2010 14:42	Timothy Workman	Site 1 hole 3 not drilling.
4/9/2010 14:48	Timothy Workman	Bandytown Fan 14:30. O2 -- 20.48, CH4 -- 0.2, CO -- 157
4/9/2010 15:18	Timothy Workman	14:45 Bandytown fan handheld O2 20.41, CH4 0.2, CO 150
4/9/2010 15:20	Timothy Workman	At 15:00 Bandytown Fan Handheld. O2-20.37, CH4 0.2, CO 143
4/9/2010 15:26	Timothy Workman	At 15:15 Bandytown fan handheld. O2-20.35, CH4 - 0.2, CO - 131

4/9/2010 15:35	Timothy Workman	At 15:30 The air reading at the Bandy fan with hand held equipmeny was :O2--20.37, CH4---0.2, CO--121ppm
4/9/2010 15:41	Fetty	Hole 5B at 1530 is 940'. The drill has been instructed to stop at 1000'.
4/9/2010 15:54	Charles Carpenter	Bob Cornett called in on cell phone. Telephone communications are down at the CC. They are working on the problem. Updates to the MEO log will be added.
4/9/2010 16:03	Timothy Workman	At 15:03 10A Hole . All pipe is out of hole.
4/9/2010 16:04	Timothy Workman	Site 1 hole 3 still down.
4/9/2010 16:07	Timothy Workman	At 14:32 Nitrogen trucks completed pumping. Changed over to nitrogen generator machine at 14:40
4/9/2010 16:08	Timothy Workman	At 16:05 Hole 5B stopped as instructed at a depth of 1000 feet
4/9/2010 16:10	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 15:45 were O2 - 20.42, CH4 - 0.2, CO - 112
4/9/2010 16:42	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 16:00 were O2 - 20.46, CH4 - 0.2, CO - 105
4/9/2010 16:43	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 16:15 were O2 - 20.53, CH4 - 0.2, CO - 97
4/9/2010 16:43	Reba Crawford	4/9/10 - 16:18 2 rescue teams went underground
4/9/2010 16:46	Reba Crawford	16:15 - nitrogen generator pumping 675 cfm
4/9/2010 16:59	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 16:45 were O2 - 20.69, CH4 - 0.1, CO - 83
4/9/2010 17:32	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80
4/9/2010 17:33	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72
4/9/2010 17:34	Reba Crawford	17:30 Hole 5B still idle - depth 1000 feet - no activity
4/9/2010 17:37	Reba Crawford	17:30 - nitrogen generator pumping 716 scfm
4/9/2010 17:38	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71
4/9/2010 18:22	Charles Carpenter	Ray McKinney called from CC - Rescue teams advancing toward HG 22. Air quality good.
4/9/2010 19:08	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 16:30 were O2 - 20.62, CH4 - 0.2, CO - 131
4/9/2010 19:09	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 17:45 were O2 - 20.78, CH - 0.1, CO - 69

4/9/2010 19:10	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 18:00 were O2 - 20.76, CH4 - 0.1, CO - 71
4/9/2010 19:10	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 18:15 were O2 - 20.66, CH4 - 0.1, CO - 75
4/9/2010 19:18	Reba Crawford	17:30 - Site 1 - No. 3 hole - 396 feet and ready to start drilling now Hole 5B - 1000 feet and holding Hole 2A - 1150' - within 100' and holding Hole 12 - at 106 feet - going to abandon - drill rig broke down
4/9/2010 19:20	Reba Crawford	18:30 - Hole 5B - pulling out at 325 feet to put a gyroscope to make sure the hole is right - gyroscope is on way to site - not there at present
4/9/2010 19:22	Reba Crawford	18:30 - put gyroscope down hole 10A and missed by 23 feet - nitrogen generator flow rate is 703 scfm
4/9/2010 19:44	Reba Crawford	19:33 Bob Gray at 5C Hole - gyroscope on site - will take 1-1/2 hours to do job - Rick Hayhurst said 731 flow rate
4/9/2010 19:46	Reba Crawford	19:40 Gary Bragg at Hole 3, Site 1 - drillers need to install 400 feet of casing in hole to be ready to drill - Bob Cornett approved installation now
4/9/2010 20:16	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 18:30 were O2 - 20.59, CH4 - 0.1, CO - 76
4/9/2010 20:17	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 18:45 were O2 - 20.55, CH4 - 0.1, CO - 73
4/9/2010 20:18	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 19:00 were O2 - 20.85, CH4 - 0.1, CO - 57
4/9/2010 20:19	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 19:15 were O2 - 20.89, CH4 - 0.1, CO - 50
4/9/2010 20:21	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 19:30 were O2 - 20.91, CH4 - 0.1, CO - 48
4/9/2010 20:24	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 19:45 were O2 - 20.92, CH4 - 0.1, CO - 43
4/9/2010 20:25	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 20:00 were O2 - 20.92, CH4 - 0.1, CO - 41
4/9/2010 20:25	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 20:15 were O2 - 20.94, CH4 - 0.1, CO - 30
4/9/2010 20:27	Reba Crawford	20:17 - Gary Bragg said drillers getting ready to install casing - all drilling has stopped
4/9/2010 20:31	Reba Crawford	20:31 - Bob Gross reported Hole 5B - gyroscope set up and running test - 1-1/2 hours before any results

4/9/2010 20:35	Reba Crawford	20:35 - nitrogen flow rate 722 scfm at Site 1, Hole 1
4/9/2010 20:50	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 20:45 were O2 - 20.93, CH4 - 0.1, CO - 24
4/9/2010 20:51	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 20:30 were O2 - 20.95, CH4 - 0.1, CO - 27
4/9/2010 21:33	Reba Crawford	Readings at Bandy Town Fan with handheld detector at 21:00 were O2 - 20.90, CH4 - 0.1, CO - 25
4/9/2010 21:36	Reba Crawford	21:30 - Bog Gross (MSHA) per [REDACTED] at drillers - 5B Hole - azimuth from collar of hole 165.87SE - distance 20.52 feet - 40 feet off mark
4/9/2010 21:37	Reba Crawford	21:32 - per Rick Hayhurst (MSHA) - Site 1, Hole 1 - flow rate nitrogen generator 720 scfm
4/9/2010 23:44	Clyde Gray	22:30 Per Rick Hayhurst (MSHA) - Site 1 Hole 1 - flow rate nitrogen generator 719 scfm
4/9/2010 23:50	Clyde Gray	22:30 per Gary Bragg (MSHA) - All drill holes idle
4/9/2010 23:50	Clyde Gray	23:40 Per Rick Hayhurst (MSHA) - Site 1 Hole 1 - flow rate nitrogen generator 723 scfm
4/10/2010 0:29	Clyde Gray	00:20- per Andy Sparks (MSHA)- Site1, Hole 1- flow rate nitrogen generator 718 scfm
4/10/2010 0:46	Clyde Gray	00:40 Personal at Mine Site Meu-9 D4-10 Tech-1
4/10/2010 1:05	Clyde Gray	01:00 Two Resue Teams are between break 74 and headgate in recovery mode
4/10/2010 1:59	Clyde Gray	01:25 Per Andy Sparks (MSHA) - Site 1, Hole 1- flow rate nitrogen generator 718 scfm
4/10/2010 2:04	Clyde Gray	01:55 per Kevin Lyle (MSHA) Holes not being drill at this time
4/10/2010 2:28	Clyde Gray	Bleeder Fan reading for 2300 hrs, H2 32, O2 20.95, N2 77.91, Ch4 .12, CO 48, CO2 .07, C2H2 1, C2H4 2, C2H6 40, Ar .93.
4/10/2010 2:36	Clyde Gray	Bleeder Fan reading for 23:30 hrs, H2 32, O2 20.95, N2 77.85, Ch4 0.13, CO 48, CO2 .07, C2H2 1, C2H4 2, C2H6 40, Ar .93
4/10/2010 2:41	Clyde Gray	Bleeder Fan reading for 00:00 hrs, H2 31, O2 20.95, N2 77.84, CH4 .12, CO45, CO2 .07, C2H2 1, C2H4 2, C2H6 40, Ar.93
4/10/2010 2:45	Clyde Gray	01:25 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow rate Nitrogen generator 723 scfm
4/10/2010 2:51	Clyde Gray	Bleeder Fan reading for 00:30 hrs, H2 31, O2 20.95, N2 77.83, CH4.12, CO 43, CO2 .07, C2H2 1, C2H4 2, C2H6 40, Ar .93
4/10/2010 2:54	Clyde Gray	Bleeder Fan reading for 01:00 hrs, H2 30, O2 20.95, N2 77.83, CH4 .13, CO 45, CO2 .07, C2H2 1, C2H4 2, C2H6 40, Ar .93
4/10/2010 2:58	Clyde Gray	02:28 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow rate Nitrogen generator 719 scfm
4/10/2010 3:32	Clyde Gray	03:25 Per Andy Sparks (MSHA) Site 1 Hole 1- Flow rate Nitrogen generator 719 scfm

4/10/2010 3:35	Clyde Gray	03:30 Per Kevin Lyle (MSHA) no drilling being done at this time.
4/10/2010 3:58	Clyde Gray	Mine rescue teams (2) returned to the surface and being replaced by two other teams for recovery work.
4/10/2010 4:33	Clyde Gray	Bleeder Fan reading for 01:30 hrs, H2 29, O2 20.95, N2 77.84, CH4 .12, CO 42, CO2 .07, C2H2 1, C2H4 2, C2H6 40, Ar .93
4/10/2010 4:38	Clyde Gray	Bleeder Fan reading for 02:00 hrs, H2 29, O2 20.95, N2 77.83, CH4 .12, CO 39, CO2 .07, C2H2 1, C2H4 2, C2H6 39, Ar .93
4/10/2010 4:41	Clyde Gray	Bleeder Fan reading for 02:30 hrs. H2 28, O2 20.95, N2 77.82, CH4 .12, CO 39, CO2 .07, C2H2 1, C2H4 2, C2H6 39, Ar .93
4/10/2010 4:46	Clyde Gray	Bleeder Fan Reading 03:00 hrs. H2 28, O2 20.95, N2 77.82, C H4 .12, CO 37, CO2 .07, C2H2 1, C2H2 1, C2H4 2, C2H6 40, Ar .93
4/10/2010 4:50	Clyde Gray	04:30 Per Andy Sparks (MSHA) Site 1 Hole 1- Flow rate nitrogen generator 720 scfm
4/10/2010 5:44	Clyde Gray	03:45 Four Mine Rescue Teams enter mine with supplies starting recovery on Longwall Section MMU-005-0
4/10/2010 5:46	Clyde Gray	05:25 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow rate nitrogen generator 719 scfm
4/10/2010 6:35	Clyde Gray	06:25 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow rate nitrogen generator 720 scfm
4/10/2010 6:39	John Hendley	4/8/2010 - Received a call from ChemBio (a refuge alternative manufacturer). They offered the use of their 1,250 CFM blower (if needed) for the rescue/recovery operations. They are located in Beaver, WV., and the contact person is [REDACTED] at [REDACTED]. The onsite command center and company officials were notified of this offer via telephone.
4/10/2010 7:19	Clyde Gray	Handheld detector Bandy Town Fan Time O2 CH4 CO 23:15 20.95 .1 27 23:30 20.95 .1 27 23:45 20.95 .1 27 00:00 20.95 .1 25 00:15 20.99 .1 27 00:30 20:99 .1 25 00:45 21.01 .1 23 01:00 21:01 .1 22 01:15 21.02 .1 19 01:30 21.04 .1 18 01:45 21:05 .1 16 02:00 21:04 .1 13 02:15 21:04 .1 13 02:30 21.04 .1 11 02:45 21.03 .1 12 03:00 21:03 .1 12 03:15 21.03 .1 12 03:30 21.01 .1 14
4/10/2010 7:38	Clyde Gray	Handheld detector Bandy Town Fan Time Time O2 CH4 CO 04:00 21.01 .1 17 04:15 21.03 .1 18 04:30 21.01 .1 21 04:45 21.02 .1 24 05:00 21:00 .1 21 05:15 21.08 .1 22
4/10/2010 7:41	Timothy Workman	07.20a.m. As per Andy Sparks, Drilling Hole #3 (depth 420 feet).
4/10/2010 7:44	Timothy Workman	07:20a.m. As per Andy Sparks. Nitrogen Generator flow 717 scfm.
4/10/2010 7:47	Timothy Workman	Bandy Town Fan 05:30(hand held). O2--21.09; CH4--0.1; CO--19

4/10/2010 7:48	Timothy Workman	Bandy Town Fan 05:45(hand held). O2--21.08; CH4--0.1; CO--20
4/10/2010 7:48	Timothy Workman	Bandy Town Fan 06:00(hand held). O2--21.07; CH4--0.1; CO--19
4/10/2010 7:49	Timothy Workman	Bandy Town Fan 06:15(hand held). O2--21.04; CH4--0.1; CO--23
4/10/2010 7:50	Timothy Workman	Bandy Town Fan 06::30(hand held). O2--21.05; CH4--0.1; CO--30
4/10/2010 8:14	Timothy Workman	Bleeder Fan Reading for 04:30, 4/10/2010. H2-- 27; O2--20.95 ; N2-- 77.81; CH4-- 0.12; CO-- 36; CO2-- 0.07 ; C2H2-- 1; C2C4--2 ; C2H6-- 39; Ar--0.93
4/10/2010 8:15	Timothy Workman	Bleeder Fan Reading for 05:00, 4/10/2010. H2-- 26; O2--20.95 ; N2-- 77.82; CH4-- 0.11; CO-- 35; CO2-- 0.07 ; C2H2-- 1; C2C4--2 ; C2H6-- 39; Ar--0.93
4/10/2010 8:16	Timothy Workman	Bleeder Fan Reading for 05:30, 4/10/2010. H2-- 26; O2--20.95 ; N2-- 77.80; CH4-- 0.12; CO-- 35; CO2-- 0.07 ; C2H2-- 1; C2C4--2 ; C2H6-- 38; Ar--0.93
4/10/2010 8:18	Timothy Workman	Bleeder Fan Reading for 06:00, 4/10/2010. H2-- 26; O2--20.95 ; N2-- 77.80; CH4-- 0.12; CO-- 35; CO2-- 0.07 ; C2H2-- 1; C2C4--2 ; C2H6-- 39; Ar--0.93
4/10/2010 8:22	Timothy Workman	Bleeder Fan Reading for 06:30, 4/10/2010. H2-- 24; O2--20.95 ; N2-- 77.79; CH4-- 0.11; CO-- 31; CO2-- 0.07 ; C2H2-- 1; C2C4--2 ; C2H6-- 35; Ar--0.93
4/10/2010 8:23	Timothy Workman	Bleeder Fan Reading for 07:00, 4/10/2010. H2-- 26; O2--20.95 ; N2-- 77.79; CH4-- 0.12; CO-- 33; CO2-- 0.07 ; C2H2-- 1; C2C4--2 ; C2H6-- 38; Ar--0.93
4/10/2010 8:28	Timothy Workman	As per Andy Sparks-MSHA: Nitrogen flow as of 08:18a.m. 714scfm
4/10/2010 8:32	Timothy Workman	As per Andy Sparks at 08:18a.m. Drill at hole 3 has stopped at a depth of 514 feet. Drill will be moving, to allow a drill with a larger bit to be used at hole 3.
4/10/2010 8:50	Timothy Workman	08:00a.m.As per Ronnie J. Dooley-MSHA. 1 team located at long wall fresh air base at survey spad 22771. 1 team located at cross-cut 78 mains. 1 team working back and forth between cross-cut 78 and fresh air base. 1 team is bringing supplies to the 78 cross-cut. information on the bodies: 6 bodies located at cross-cut 78 are ready to be brought to staging area 2 cross-cuts underground.
4/10/2010 8:55	Timothy Workman	07:00a.m.Bandy Town Fan (hand held) air readings: O2-- 21.17; CH4-- 0.1 ; CO-- 27
4/10/2010 8:56	Timothy Workman	06:45a.m.Bandy Town Fan (hand held) air readings: O2-- 21.08; CH4-- 0.1 ; CO-- 31

4/10/2010 9:04	Timothy Workman	07:15a.m.Bandy Town Fan (hand held) air readings: O2-- 21.18; CH4-- 0.1 ; CO-- 25
4/10/2010 9:05	Timothy Workman	07:30 a.m.Bandy Town Fan (hand held) air readings: O2-- 21.18; CH4-- 0.1 ; CO-- 25
4/10/2010 9:08	Timothy Workman	07:45a.m.Bandy Town Fan (hand held) air readings: O2-- 20.71; CH4-- 0.1 ; CO-- 30
4/10/2010 9:08	Timothy Workman	08:00a.m.Bandy Town Fan (hand held) air readings: O2-- 20.72; CH4-- 0.1 ; CO-- 30
4/10/2010 9:09	Timothy Workman	08:15a.m.Bandy Town Fan (hand held) air readings: O2-- 20.72; CH4-- 0.1 ; CO-- 28
4/10/2010 9:11	Timothy Workman	08:30a.m.Bandy Town Fan (hand held) air readings: O2-- 20.73; CH4-- 0.1 ; CO-- 28
4/10/2010 9:12	Timothy Workman	08:45a.m.Bandy Town Fan (hand held) air readings: O2-- 20.73; CH4-- 0.1 ; CO-- 27
4/10/2010 9:12	Timothy Workman	09:00a.m.Bandy Town Fan (hand held) air readings: O2-- 20.72; CH4-- 0.1 ; CO-- 25
4/10/2010 9:18	Timothy Workman	09:15a.m.Bandy Town Fan (hand held) air readings: O2-- 20.72; CH4-- 0.1 ; CO-- 26
4/10/2010 9:33	Timothy Workman	09:30a.m.Bandy Town Fan (hand held) air readings: O2-- 20.73; CH4-- 0.1 ; CO-- 27
4/10/2010 9:45	Timothy Workman	As per James Jackson at 9:00a.m. site 1, hole 3 still moving drill equipment. Plan to drill 24" hole
4/10/2010 9:47	Timothy Workman	As per James Jackson at 9:00a.m. nitrogen flow 718scfm
4/10/2010 10:05	Timothy Workman	As per Ronnie J. Dooley-MSHA . Rescue team information. 4 teams underground. locations of teams same place. Information on bodies: #13 body located at staging area, 16 cross-cut out-by the stage loader. Stage loader is at cross-cut 50. Informed that #8 body located at stage loader, cross-cut 50, being moved to the staging area, 16 cross-cuts outby stage loader.
4/10/2010 10:10	Timothy Workman	As per Ronnie J. Dooley: Bodies #1, #2, #3, #4, #5, #6 at cross-cut 78 being loaded on trips to be taken to cross-cut 2. Bodies #9, #10, #11, at stage loader, cross-cut 50. Bodies #7 and #12 are on the long wall face (bagged)
4/10/2010 10:13	Timothy Workman	09:45a.m. Bandy Town Fan (hand Held) air readings. O2 -- 20.74; CH4 -- 0.1; CO -- 28
4/10/2010 10:14	Timothy Workman	10:00a.m. Bandy Town Fan (hand Held) air readings. O2 -- 20.73 ; CH4 -- 0.1; CO -- 26
4/10/2010 10:19	Timothy Workman	10:15a.m. Bandy Town Fan (hand Held) air readings. O2 -- 20.74; CH4 -- 0.1; CO -- 26
4/10/2010 10:31	Timothy Workman	Bleeder Fan 4/10/2010 07:30. H2--25 ; O2-- 20.95; N2-- 77.78 ; CH4--- 0.12; CO--33 ; CO2-- 0.07; C2H2-- 1; C2H4--3 ; C2H6-- 38; Ar -- 0.93
4/10/2010 10:32	Timothy Workman	Bleeder Fan 4/10/2010 08:00. H2--26 ; O2-- 20.95; N2-- 77.77 ; CH4--- 0.12; CO--33 ; CO2-- 0.07; C2H2-- 1; C2H4--2 ; C2H6-- 38; Ar -- 0.93
4/10/2010 10:33	Timothy Workman	Bleeder Fan 4/10/2010 08:30. H2--25 ; O2-- 20.95; N2-- 77.78 ; CH4--- 0.12; CO--33 ; CO2-- 0.07; C2H2-- 1; C2H4--2 ; C2H6-- 38; Ar -- 0.93

4/10/2010 10:37	Timothy Workman	10:30a.m.Bandy Town Bleeder fan (hand held) O2-- 20.73; CH4-- 0.1 ; CO--- 28
4/10/2010 10:45	Timothy Workman	As per James Jackson: at 10:00 the nitrogen Flow was 709.1 scfm
4/10/2010 10:50	Timothy Workman	Nitrogen Generator 4/9/2010. time 23:57 H2-- 8; O2-- 6.55; N2-- 92.50; CH4--0.00; CO--7; CO2-- 0.01; Ar -- 0.93; Raw Total-- 98.3752
4/10/2010 10:52	Timothy Workman	Nitrogen Generator 4/10/2010. time 01:00 H2-- 10; O2-- 7.42; N2-- 91.64; CH4--0.00; CO-- NDA; CO2-- 0.01; Ar --- 0.93; Raw Total-- 98.31359
4/10/2010 10:54	Timothy Workman	Nitrogen Generator 4/10/2010. time 02:00 H2-- 10; O2-- 5.85; N2-- 93.21; CH4--0.00; CO-- NDA; CO2-- 0.01; Ar --- 0.93; Raw Total-- 98.70101
4/10/2010 10:56	Timothy Workman	Nitrogen Generator 4/10/2010. time 03:00 H2-- 11; O2-- 6.48; N2-- 92.58; CH4--0.00; CO--NDA; CO2-- 0.01; Ar --- 0.93; Raw Total-- 98.3868
4/10/2010 11:00	Timothy Workman	Bandy Town Fan air reading (hand held) O2 -- 20.74; CH4 -- 0.1; CO -- 30
4/10/2010 11:06	Timothy Workman	Bandy Town Fan air reading at 11:00 ; O2-- 20.71; CH4 -- 0.1; CO -- 29
4/10/2010 11:15	Timothy Workman	As per Ronnie J. Dooleya at 11:05. Victims number 1-6 are outside, victims number 11 and 8 are at the staging area at 16 crosscut, victims 9 and 10 at stage loader, victim # 7 at # 84 sheild of long wall, victim 12 at #106 shield of long wall, victim 13 moved to end of the track, rescue teams ready to switch out.
4/10/2010 11:17	Timothy Workman	As per Ronnie J. Dooleya at 11:05. CORRECTION TO PREVIOUS INFORMATION. stage loader is at cross-cut 27, staging area is at 16 cross-cut
4/10/2010 11:20	Timothy Workman	Bandy Town air readings (hand held) at 11:15. O2 -- 20.73; CH4 -- 0.1 ; CO -- 31
4/10/2010 11:41	Timothy Workman	As per James Jackson at 11:40. No changes at hole 3. Nitrogen flow 708.5 scfm
4/10/2010 11:56	Timothy Workman	As per RonnieJ. Dooley- MSHA at 11:54. Victims information. Victims # 8, # 11, # 13 are at cross-cut 78 end of track
4/10/2010 12:00	Timothy Workman	Bandy Town air readings at 11:30--- O2--20.72 ; CH4 -- 0.1 ; CO -- 34
4/10/2010 12:01	Timothy Workman	Bandy Town air readings at 11:45--- O2--20.73 ; CH4 -- 0.1 ; CO -- 34
4/10/2010 12:04	Timothy Workman	Bandy Town air readings at 12:00--- O2--20.73 ; CH4 -- 0.1 ; CO -- 36
4/10/2010 12:21	Timothy Workman	N2 PLANT sample not dated, date entered as N2Gen, TIME 4:00, flow 720, H2--3, O2--12.25, N2-- 86.60, CO--2, CO2--0.21, Ar 0.93
4/10/2010 12:23	Timothy Workman	N2 PLANT sample not dated, date entered as N2Gen, TIME 5:00, flow 718, H2--3, O2--11.96, N2-- 86.88, CO--2, CO2--0.23, Ar 0.93

4/10/2010 12:24	Timothy Workman	N2 PLANT sample not dated, date entered as N2Gen, TIME 6:00, flow 721, H2--3, O2--12.57, N2--86.31, CO--nda, CO2--0.19, Ar 0.93
4/10/2010 12:26	Timothy Workman	N2 PLANT sample not dated, date entered as N2Gen, TIME 7:00, flow 723, H2--3, O2--12.30, N2--86.77, CO--2, CO2--0.00, Ar 0.93
4/10/2010 12:27	Timothy Workman	N2 PLANT sample not dated, date entered as N2Gen, TIME 8:00, flow 716, H2--2, O2--12.34, N2--86.64, CO--2, CO2--0.09, Ar 0.93
4/10/2010 12:28	Timothy Workman	N2 PLANT sample not dated, date entered as N2Gen, TIME 9:00, flow 718, H2--3, O2--12.85, N2--86.02, CO--3, CO2--0.20, Ar 0.93
4/10/2010 12:30	Timothy Workman	Bandy Town Fan Hand held air readings -- O2 --20.73, CH4--0.1, CO --36
4/10/2010 12:37	Timothy Workman	Nitrogen generator 4/10/2010, TIME 10:00, H2--13, O2--5.68, N2--93.3, CH4--0.00, CO--nda, CO2--0.00, Ar 0.93, raw total 97.98607
4/10/2010 12:39	Timothy Workman	As per James Jackson-MSHA at 12:35: Nitrogen flow 706.5scfm. No change at drill site 1, hole 3.
4/10/2010 12:46	Timothy Workman	Bandy Town Fan at 12:15 -O2--20.73, CH4 --0.1, CO--36
4/10/2010 12:46	Timothy Workman	Bandy Town Fan at 12:30 -O2--20.73, CH4 --0.1, CO--36
4/10/2010 13:04	Timothy Workman	Bandy Town Fan at 12:45 -O2--20.75, CH4 --0.1, CO33
4/10/2010 13:04	Timothy Workman	Bandy Town Fan at 13:00 -O2--20.75, CH4 --0.1, CO32
4/10/2010 13:21	Timothy Workman	Bandy Town Fan at 13.15 -O2--20.74, CH4 --0.1, CO33
4/10/2010 13:26	Timothy Workman	informed by Joe Makoviac. Plan to drill hole 3 with a 12 inch bit
4/10/2010 13:38	Timothy Workman	informed by James Jackson-MSHA at 13:35---nitrogen flow 702.3scfm. Total 903,333.
4/10/2010 13:43	Timothy Workman	Bandy town fan hand held air reading at 13:30. O2 --20.73; CH4--0.1; CO--31
4/10/2010 13:49	Timothy Workman	Bleeder Fan 4/10/2010- time 10:30 ; H2--25; O2--20.95; N2--77.76; CH4--0.12; CO--34; CO20.07; C2H2--1; C2H4--2; C2H6--37; Ar --0.93
4/10/2010 13:50	Timothy Workman	Bleeder Fan 4/10/2010- time 11:00 ; H2--25; O2--20.95; N2--77.75; CH4--0.12; CO--37; CO20.07; C2H2--1; C2H4--3; C2H6--37; Ar --0.93
4/10/2010 13:51	Timothy Workman	Bleeder Fan 4/10/2010- time 12:00 ; H2--23; O2--20.95; N2--77.76; CH4--0.11; CO--32; CO20.07; C2H2--(ND); C2H4--2; C2H6--34; Ar --0.93
4/10/2010 13:54	Timothy Workman	Bandy Town Fan hand held air reading at 13:45. O2--20.72; CH4 --0.1; CO --33
4/10/2010 14:11	Timothy Workman	Bleeder Fan 4/10/2010- time 14:00 (hand held) O2 _20.71; CH4 _0.1; CO _34
4/10/2010 14:20	Timothy Workman	Bleeder Fan 4/10/2010- time 14:15. (hand held)O2 _20.69; CH4 _0.1; CO _36

4/10/2010 14:41	Timothy Workman	Informed by James Jackson at 14:32. Nitrogen flow 703.9scfm. Drill at site 1, hole 3 is installing a directional device to determine the correctness of the hole.
4/10/2010 14:47	Timothy Workman	As per Ronnie J. Dooley at 14:35. Two teams underground exploring, other 4 are outside being debriefed. Victim information: Victims # 8, # 11, # 13 are at crosscut 2.
4/10/2010 14:48	Timothy Workman	Bleeder Fan 4/10/2010- time 14:30. (hand held)O2 20.68; CH4 0.1; CO 38
4/10/2010 15:04	Timothy Workman	Bleeder Fan 4/10/2010- time 14:45. (hand held)O2 20.68; CH4 0.1; CO 40
4/10/2010 15:05	Timothy Workman	Bleeder Fan 4/10/2010- time 15:00. (hand held)O2 20.67; CH4 0.1; CO 44
4/10/2010 15:19	Timothy Workman	Bleeder Fan 4/10/2010- time 15:15. (hand held)O2 20.67; CH4 0.1; CO 48
4/10/2010 15:26	Timothy Workman	As per Ronnie J. Dooley at 15:20. Victims information: # 8, # 11, #13 brought outside. Total of 9 victims brought outside. Waiting on additional team members to go inside. 2 survey teams underground exploring at survey spad 20274. Now under apparatus, 50 ppm CO.
4/10/2010 15:46	Timothy Workman	As per James Jackson at 3:00p.m.Nitrogen flow 701.3. Total 982464.
4/10/2010 15:50	Timothy Workman	As per Ben Delin-MSHA at 3:40p.m. directionial device was dropped into hole 3 a distance of 468 feet. determined hole was off 9.9 feet at 468 feet. equal to 2.3 degrees. Base on conversations with persons at the drill hole, it is believed that the hole will NOT hit in an entry
4/10/2010 15:53	Timothy Workman	Bleeder Fan 4/10/2010- time 15:30. (hand held)O2 20.69; CH4 0.1; CO 44
4/10/2010 16:35	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:45 were O2 - 20.71, CH4 - 0.1, CO 49
4/10/2010 16:36	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:00 were O2 - 20.72, CH4 - 0.1, CO - 51
4/10/2010 16:36	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:15 were O2 - 20.73, CH4 - 0.1, CO - 52
4/10/2010 16:42	Reba Crawford	16:00 James Jackson reported borehole at Site 1, Hole 1 - 704.1 cfm nitrogen - 1,021,933 total pumped - Hole 3 - breaking down rig to move - another rig coming to redrill hole
4/10/2010 17:24	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:30 were O2 - 20.82, CH4 - 0.1, CO - 54
4/10/2010 17:25	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:45 were O2 - 20.84, CH4 - 0.1, CO - 51

4/10/2010 17:28	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:00 were O2 - 20.84, CH4 - 0.1, CO - 51
4/10/2010 17:30	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.71, CH4 - 0.1, CO - 30 (detector calibrated)
4/10/2010 17:31	Reba Crawford	17:30 - Report from Rick Hayhurst - Site 1, Hole 1 - flow rate 706 scfm, total 1,076,159 pumped
4/10/2010 17:58	Reba Crawford	17:30 - Gary Bragg report - All drilling has stopped - Site 1, Hole 3 - rig off of hole - 12 inch drill coming ; Hole 5B - 1000 feet and holding; Site 2, Hole 2A - 1100 feet + and holding; Hole 2B - not started; Hole 2C - not started but drill on way to site
4/10/2010 18:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.69, CH4 - 0.1, CO - 28
4/10/2010 18:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:45 were O2 - 20.67, CH4 - 0.1, CO - 27
4/10/2010 18:24	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:00 were O2 - 20.64, CH4 - 0.1, CO - 23
4/10/2010 18:31	Reba Crawford	18:30 - Report from Rick Hayhurst - Site 1, Hole 1 - 701 scfm flow rate; Total volume pumped 1,111,347
4/10/2010 19:19	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:15 were O2 - 20.61, CH4 - 0.1, CO - 19
4/10/2010 19:20	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:30 were O2 - 20.59, CH4 - 0.1, CO - 19
4/10/2010 19:21	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:45 were O2 - 20.57, CH4 - 0.1, CO - 22
4/10/2010 19:22	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:00 were O2 - 20.56, CH4 - 0.1, CO - 21
4/10/2010 19:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:15 were O2 - 20.59, CH4 - 0.1, CO - 19
4/10/2010 19:31	Reba Crawford	19:30 Report from Rick Hayhurst - Site 1, Hole 1 - 705 scfm flow rate; Total volume pumped 1,159,922
4/10/2010 20:19	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:45 were O2 - 20.57, CH4 - 0.1, CO - 17
4/10/2010 20:38	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:00 were O2 - 20.59, CH4 - 0.1, CO - 13

4/10/2010 20:39	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:15 were O2 - 20.60, CH4 - 0.1, CO - 14
4/10/2010 20:39	Reba Crawford	20:15 - Water gauge at Bandy Town Fan 3 inches; 157,536 cfm
4/10/2010 20:40	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:30 were O2 - 20.62, CH4 - 0.1, CO - 13
4/10/2010 20:41	Reba Crawford	20:30 - Site 1, Hole 1 - Nitrogen flow rate 702 scfm; Total pumped 1,203,420
4/10/2010 20:55	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:45 were O2 - 20.62, CH4 - 0.1, CO - 7
4/10/2010 21:09	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 2100 were O2 - 20.59, CH4 - 0.1, CO - 10
4/10/2010 21:44	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:15 were O2 - 20.57, CH4 - 0.1, CO - 9
4/10/2010 21:45	Reba Crawford	21:30 - Hole 1, Site 1 - 703 scfm nitrogen flow rate; total pumped 1,244,843
4/10/2010 21:50	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:30 were O2 - 20.74, CH4 - 0.1, CO - 25
4/10/2010 21:50	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:45 were O2 - 20.76, CH4 - 0.1, CO - 24
4/10/2010 22:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:00 were O2 - 20.78, CH4 - 0.1, CO - 23
4/10/2010 22:24	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:15 were O2 - 20.80, CH4 - 0.1, CO - 20
4/10/2010 22:39	Reba Crawford	22:30 - Hole 1, Site 1 - 701 scfm flow rate; Total pumped 1,287,849; purity reading 5%
4/10/2010 22:40	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:30 at O2 - 20.80, CH4 - 0.1, CO - 18; 625,000 cfm quantity (3 readings averaged), 2.8 inch water gauge
4/10/2010 23:19	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:45 were O2 - 20.81, CH4 - 0.1, CO - 17
4/10/2010 23:21	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:00 were O2 - 20.80, CH4 - 0.1, CO - 16
4/10/2010 23:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:15 were O2 - 20.80, CH4 - 0.1, CO - 17
4/10/2010 23:40	Clyde Gray	23:30 -Hole 1, Site 1-nitrogen flow rate 701 scfm; Total pumped 1,327,388: purity reading 5%

4/10/2010 23:52	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 23:30 were O2 - 20.81, CH4 - 0.1, CO - 17
4/10/2010 23:54	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 23:45 were O2 - 20.79, CH4 - 0.1, CO - 20
4/10/2010 23:57	Clyde Gray	MSHA personal on site Midnight Shift Tech Support 1 MEU 7 D-4 8 Pier 1
4/11/2010 0:30	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 00:00 were O2 - 20.78, CH4 - 0.1, CO - 21
4/11/2010 0:31	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 00:15 were O2 - 20.77, CH4 - 0.1, CO - 22
4/11/2010 0:49	Clyde Gray	12:30 Hole 1, Site 1 699 scfm Total nitrogen 1,366,583 purity 5%
4/11/2010 0:55	Clyde Gray	Reading at bleeder Fan time 22:00 H2 22, O2 20.95, N2 77.44, CH4 .12, CO 21, CO2 21, C2H2 ND, C2H4 2, C2H6 34, Ar .93
4/11/2010 1:01	Clyde Gray	Reading at bleeder fan time 22:30 H2 21, O2 20.95, N2 77.44, CH4 .12, CO 21, CO2 .07, C2H2 1, C2H4 1, C2H6 34, Ar .93
4/11/2010 1:05	Clyde Gray	Reading at bleeder Fan time 23:00 H2 23, O2 20.95, N2 77.74, CH4 .12, CO 19, CO2 .07, C2H2 1, C2H4 1, C2H6 34, Ar .93
4/11/2010 1:08	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 00:30 were O2 - 20.76, CH4 - 0.1, CO - 22
4/11/2010 1:32	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 00:45 were O2 - 20.81, CH4 - 0.1, CO - 18
4/11/2010 1:33	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 01:00 were O2 - 20.80, CH4 - 0.1, CO - 20
4/11/2010 1:35	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 01:15 were O2 - 20.77, CH4 - 0.1, CO - 22
4/11/2010 1:45	Clyde Gray	01:30 Hole 1, Site 1 702 scfm Total nitrogen 1,410,467 purity 5%
4/11/2010 2:16	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 01:30 were O2 - 20.77, CH4 - 0.1, CO - 23
4/11/2010 2:17	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 01:45 were O2 - 20.77, CH4 - 0.1, CO - 29
4/11/2010 2:26	Clyde Gray	Reading at Bleeder Fan Time 23:30 H2 23, O2 20.95, N2 77.74, CH4 .12, CO 19, CO2 .07, C2H2 0, C2H4 1, C2H6 34, Ar .93
4/11/2010 2:32	Clyde Gray	Reading at Bleeder Fan Time 00:00 H2 23, O2 20.95, N2 77.75, CH4 .12, CO 19, CO2 .07, C2H2 0, C2H4 1, C2H6 34, Ar .93

4/11/2010 2:35	Clyde Gray	Reading at Bleeder Fan Time 00:30 H2 26, O2 20.95, N2 77.74, CH4 .12, CO 18, CO2 .07, C2H2 1, C2H4 2, C2H6 33, Ar .93
4/11/2010 2:37	Clyde Gray	02:30 Hole 1, Site 1 703 scfm Total nitrogen 1,442,197 purity 5%
4/11/2010 2:45	Clyde Gray	No Drilling at this time 02:30 on property
4/11/2010 3:08	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 02:15 were O2 - 20.79, CH4 - 0.1, CO - 32
4/11/2010 3:15	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 02:30 were O2 - 20.82, CH4 - 0.1, CO - 32
4/11/2010 3:17	Clyde Gray	Readings taken at Bandy Town Fan with handheld detector at 02:45 were O2 - 20.81, CH4 - 0.1, CO - 34
4/11/2010 3:37	Clyde Gray	03:30 Hole 1, Site 1, 708 scfm Total nitrogen 1,485,180 purity 5%
4/11/2010 3:52	Clyde Gray	Readings at Bleeder Fan 01:00 H2 22, O2 20.95, N2 77.75 CH4 .11, CO 18, CO2 .07, C2H2 1, C2H4 1, C2H6 31, Ar 98.75
4/11/2010 3:56	Clyde Gray	Reading at Bleeder Fan 01:30 H2 23, O2 20.95, N2 77.75, CH4 .12, CO 19, CO2 .07, C2H2 ND, C2H4 1, C2H6 .93, Ar .93
4/11/2010 4:12	Clyde Gray	Reading at Bleeder Fan 02:00 H2 22, O2 20.95, N2 77.75, CH4 .11, CO 18, CO2 .08, C2H2 ND, C2H4 1, C2H6 32, Ar .93
4/11/2010 4:17	Clyde Gray	Reading at Bleeder Fan 02:30 H2 23, O2 20.95, N2 77.74, CH4 .12, CO 18, CO2 .07, C2H2 1, C2H4 1, C2H6 34, Ar .93
4/11/2010 4:28	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector 03:00 O2 20.81, CH4 0.1, CO 35
4/11/2010 4:31	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector 03:15 O2 20.81, CH4 0.1, CO 36
4/11/2010 4:34	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector 03:30 O2 20.82 CH4 0.1, CO 36
4/11/2010 4:40	Clyde Gray	04:30 Hole 1, Site 1, 706 scfm Total nitrogen 1,528, 697 purity 5%
4/11/2010 4:55	Clyde Gray	At 4 am last two victor were in route to the surface. At 5 am, victorms were 30 minutes from surface. Old No 9 belt panel was explored and temporary checks installed from No 1 through No 6. The 040 MMU was being explored at 0500. Mapping crews entered mines at 0400.
4/11/2010 5:08	Clyde Gray	At 05:00 victum #7&9 arrived on surface.
4/11/2010 5:25	Clyde Gray	Reading taken at Bandy Town Fan with handheld detecto 03:45 O2 20.84 CH4 .1 CO 34
4/11/2010 5:27	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector 04:00 O2 20.85 CH4 .1 CO 33
4/11/2010 5:43	Clyde Gray	05:30 Hole 3 being widen out depth of 77 feet
4/11/2010 5:52	Clyde Gray	05:30 Hole 1, Site 1 704 scfm; Total nitrogen 1,576,801 purity reading 5%
4/11/2010 5:53	Clyde Gray	05:30 Hole 3 down at 180 feet and drilling

4/11/2010 6:30	Clyde Gray	Reading taken at Bandy Town Fan 05:45 O2 20.81 CH4 .1 CO 9
4/11/2010 6:31	Clyde Gray	Reading taken at Bandy Town Fan 06:00 O2 20.76 CH4 .1 CO 9
4/11/2010 6:33	Clyde Gray	Reading taken at Bandy Town Fan 06:15 O2 20.73 CH4 .1 CO 11
4/11/2010 6:44	Clyde Gray	06:30 Hole 1, Site 1 706 scfm Total nitrogen 1,611,111 purity 5%
4/11/2010 6:46	Clyde Gray	#3 hole 255' 06:30
4/11/2010 6:51	Clyde Gray	Bleeder Fan 03:00 H2 23, O2 20.95, N2 77.74, CH4 .12, CO 19, CO2 .07, C2H2 1, C2H4 1, C2H6 33, Ar .93
4/11/2010 6:55	Clyde Gray	Bleeder Fan 03:30 H2 22, O2 20.95, N2 77.75, CH4 .12 CO 18, CO2 .07, C2H2 1, C2H4 1, C2H6 33, Ar .93
4/11/2010 6:59	Clyde Gray	Bleeder Fan 04:00 H2 22, O2 20.95, N2 77.74, CH4 .12, CO 17, CO2 .07, C2H21, C2H4 2, C2H6 33, Ar.93
4/11/2010 7:02	Clyde Gray	Bleeder Fan 04:30 H2 22, O2 20.95, N2 77.74, CH4 .12, CO 17, CO2 .07, C2H2 1, C2H41, C2H6 33, Ar .93
4/11/2010 7:06	Clyde Gray	Bleeder Fan 5:00 H2 22, O2 20.95, N2 77.74, CH4 .12, Co 16, CO2 .07, C2H2 1, C2H4 1, C2H6 33, Ar .93
4/11/2010 7:08	Clyde Gray	Bleeder Fan 05:30 H2 22, O2 20.95, N2 77.74, CH4 .12, CO 18, CO2 .07, C2H2 1, C2H4 1, C2H6 33, Ar .93
4/11/2010 7:23	Clyde Gray	Reading taken at Bandy Town Fan 06:30 O2 20.73, CH4 .1, CO 12
4/11/2010 7:35	Clyde Gray	07:25 Hole 1, Site 1, Nitrogen flow rate 706 Total pumped 1,645,012 purity 5%
4/11/2010 7:37	Clyde Gray	07:30 Hole 3 down 330 feet
4/11/2010 7:45	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector power failure no report for 07:00
4/11/2010 7:47	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector 07:15 O2 20.75, CH4 .1, CO 20
4/11/2010 7:52	Clyde Gray	Reading taken at Bandy Town Fan with handheld detector 07:30 O2 20.74 CH4 .1, CO 22
4/11/2010 8:10	Timothy Workman	Reading taken at Bandy Town Fan with handheld detector 07:45 O2 20.74; CH4 .0.1; CO 22
4/11/2010 8:10	Timothy Workman	Reading taken at Bandy Town Fan with handheld detector 07:45 O2 20.74; CH4 .0.1; CO 18
4/11/2010 8:29	Timothy Workman	Bleeder Fan 4/11/2010, 6:30a.m. H2 22 ; O2 20.95 ; N2 77.74 ; CH4 .0.12 ; CO 17; CO2 .0.07; C2H2 0 ; C2H4 1 ; C2H6 33 ; Ar .0.93 ; Raw Total 99.14
4/11/2010 8:31	Timothy Workman	Bleeder Fan 4/11/2010, 6:00a.m. H2 21 ; O2 20.95 ; N2 77.75 ; CH4 .0.11 ; CO 16; CO2 .0.08; C2H2 0 ; C2H4 1 ; C2H6 31 ; Ar .0.93 ; Raw Total 99.16

4/11/2010 8:38	Timothy Workman	Bleeder Fan 4/11/2010, 7:00a.m. H2_22 ; O2_20.95 ; N2_77.74 ; CH4_0.12 ; CO_17 ; CO2_0.07 ; C2H2_0 ; C2H4_1 ; C2H6_33 ; Ar_0.93 ; Raw Total_99.12
4/11/2010 8:41	Timothy Workman	Bandy Town Fan hand held 8:15a.m. O2_20.76 ; CH4_0.1 ; CO_18
4/11/2010 8:41	Timothy Workman	Bandy Town Fan hand held 8:30a.m. O2_20.76 ; CH4_0.1 ; CO_16
4/11/2010 9:00	Timothy Workman	Hole # 3 at site # 1 is drilling at a depth of 405 feet at 8:30a.m.
4/11/2010 9:07	Timothy Workman	8:30 Nitrogen information. flow 703 scfm. total nitrogen 1702764, purity 5%
4/11/2010 9:27	Timothy Workman	update as of 7:30, 04/11/2010. All teams coming outside. Still have 9 victims underground. Six victims # 14, # 15, # 16, #17, # 18, # 19 are in mantrip at crosscut 22. Three victims #20, # 21, # 22 are within 4 crosscuts of mantrip in the track entry. Mapping team underground at crosscut 78
4/11/2010 9:43	Timothy Workman	MISC ; sample name_1XC-IB 20828 ; collection date 04/11/10 ; time 2:43 ; H2_1778 ; O2_19.84 ; N2_77.09 ; CH4_1.28 ; CO_1882 ; CO2_0.48 ; C2H2_53 ; C2H4_177 ; C2H6_40 ; Ar_0.92
4/11/2010 9:47	Timothy Workman	MISC ; sample name_1XC-IB 20820 ; collection date 04/11/10 ; time 2:38 ; H2_2008 ; O2_19.84 ; N2_77.08 ; CH4_1.26 ; CO_1868 ; CO2_0.48 ; C2H2_63 ; C2H4_178 ; C2H6_50 ; Ar_0.92
4/11/2010 9:52	Timothy Workman	MISC ; sample name_1-Entry LOB ; collection date 04/11/10 ; time 5:25 ; H2_180 ; O2_19.98 ; N2_78.31 ; CH4_0.61 ; CO_294 ; CO2_0.11 ; C2H2_12 ; C2H4_26 ; C2H6_10 ; Ar_0.93
4/11/2010 9:56	Timothy Workman	MISC ; sample name_Face 040-0MMU ; collection date 04/11/10 ; time 5:25 ; H2_201 ; O2_19.56 ; N2_78.07 ; CH4_1.25 ; CO_354 ; CO2_0.13 ; C2H2_11 ; C2H4_34 ; C2H6_30 ; Ar_0.93
4/11/2010 10:01	Timothy Workman	Nitrogen information at 9:30a.m. Flow 703.1scfm, total 1724793. Hole 3, site 1 drill at 405 feet. Drilling progress having trouble with a mine void.
4/11/2010 10:05	Timothy Workman	MISC ; sample name_Face 040-0MMU ; collection date 04/11/10 ; time 5:30 ; H2_204 ; O2_19.80 ; N2_77.94 ; CH4_1.16 ; CO_295 ; CO2_0.12 ; C2H2_13 ; C2H4_29 ; C2H6_20 ; Ar_0.93
4/11/2010 10:09	Timothy Workman	MISC ; sample name_Smoke Area ; collection date 04/11/10 ; time 6:30 ; H2_154 ; O2_20.74 ; N2_78.03 ; CH4_0.16 ; CO_260 ; CO2_0.09 ; C2H2_nda ; C2H4_nda ; C2H6_nda ; Ar_0.93
4/11/2010 10:12	Timothy Workman	Bandy Town Fan (handheld) at 8:45. O2_19.6 ; CH4_0.1 ; CO_31
4/11/2010 10:13	Timothy Workman	Bandy Town Fan (handheld) at 9:00. O2_19.2 ; CH4_0.2 ; CO_44

4/11/2010 10:14	Timothy Workman	Bandy Town Fan (handheld) at 9:15. O2_19.33 ; CH4-0.2 ; CO_43
4/11/2010 10:15	Timothy Workman	Bandy Town Fan (handheld) at 9:30. O2_19.41 ; CH4-0.1 ; CO_34
4/11/2010 10:17	Timothy Workman	Reading taken at Bandy Town Fan with handheld detector 07:45 O2_20.74; CH4_0.1; CO_22
4/11/2010 10:22	Timothy Workman	Bandy Town Fan (handheld) at 9:45. O2_19.19 ; CH4_0.1 ; CO_39
4/11/2010 10:23	Timothy Workman	Bandy Town Fan (handheld) at 10:00a.m.. O2_18.91 ; CH4-0.1 ; CO_41
4/11/2010 10:25	Timothy Workman	Bandy Town Fan (barometer reading) at 10:00a.m. 4/11/2010 was reported as 29.2155
4/11/2010 10:37	Timothy Workman	Update 9:45__ 2 back-up mine rescue teams outside. 48 persons underground: 20 mine rescue members, 26 people mapping and installing temporary controls, 2 motorman
4/11/2010 10:45	Timothy Workman	readings reported by Joe Macoviac at 10:30. location Bandytown fan CH4_0.1; CO_76ppm; O2_18.38 ; CO2_0.02
4/11/2010 10:51	Timothy Workman	Bandy Town Fan (handheld) at 10:15. O2_18.38 ; CH4-0.1 ; CO_76
4/11/2010 10:55	Timothy Workman	Bandy Town Fan (handheld) at 10:15. O2_18.48 ; CH4-0.1 ; CO_78
4/11/2010 11:29	Timothy Workman	informed by MSHA/CMI Josh Mcneely that the 10:15 reading at the bandy fan was not taken, and as a result the log entry 4/11/2010 10:45:03 and 4/11/2010 10:51:15 are in error.
4/11/2010 11:32	Timothy Workman	CORRECTION Bandy Town Fan (handheld) no reading was taken at 10:15, reading at 10:30. O2_18.38 ; CH4-0.1 ; CO_76; reading at 10:45 O2_18.48 ; CH4-0.1 ; CO_78
4/11/2010 11:33	Timothy Workman	Bandy Town Fan (handheld) at 11:00. O2_18.65 ; CH4-0.1 ; CO_85
4/11/2010 11:34	Timothy Workman	Bandy Town Fan (handheld) at 11:15. O2_18.75 ; CH4-0.1 ; CO_96
4/11/2010 11:58	Timothy Workman	As per Ronnie J. Dooley at 11:35 Two mine rescue teams underground at crosscut 101, loading supplies. All mapping crews are outside. Still have crews installing temporary control frames.
4/11/2010 12:03	Timothy Workman	Bandy Town Fan (handheld) at 11:30. O2_20.70 ; CH4-0.1 ; CO_14
4/11/2010 12:03	Timothy Workman	Bandy Town Fan (handheld) at 11:45. O2_20.70 ; CH4-0.1 ; CO_15
4/11/2010 12:07	Timothy Workman	Bandy Town Fan (handheld) equipment was changed between the 11:15a.m. and 11:30a.m. readings on 4/11/2010
4/11/2010 12:11	Timothy Workman	Site 1, hole 3 (casing hole) . N2 plant has been off since 10:08. Reported by James Jackson at 11:45
4/11/2010 12:31	Timothy Workman	Bandy Town Fan (handheld) at 12:00. O2_20.60 ; CH4-0.1 ; CO_14

4/11/2010 12:32	Timothy Workman	Bandy Town Fan (handheld) at 12:15. O2_20.60 ; CH4-0.1 ; CO_15
4/11/2010 12:33	Timothy Workman	Bandy Town Fan (barometer) at 12:15 was 29.1963
4/11/2010 12:39	Timothy Workman	As per James Jackson at 12:30__Nitrogen still turned off. Site 1, hole 3 still -casing the hole.
4/11/2010 12:52	Timothy Workman	Bandy Town Fan (handheld) at 12:30p.m.. O2_20.60 ; CH4_0.1 ; CO_17
4/11/2010 12:52	Timothy Workman	Bandy Town Fan (handheld) at 12:45p.m.. O2_20.60 ; CH4_0.1 ; CO_16
4/11/2010 13:00	Timothy Workman	As per Ronnie J. Dooley at 12:55 One mine rescue team at fresh air base at crosscut 25 proceeding inby. Supplies being delivered to A section to finish frames with rolled up curtains.
4/11/2010 13:22	Timothy Workman	Bandy Town Fan (handheld) at 13:00p.m.. O2_20.60 ; CH4_0.1 ; CO_15
4/11/2010 13:23	Timothy Workman	Bandy Town Fan (handheld) at 13:15p.m.. O2_20.86 ; CH4_0.1 ; CO_14
4/11/2010 13:39	Timothy Workman	As per James Jackson 13:30 site 1, bore hole 3. No changes still putting in casing. Nitrogen still turned off
4/11/2010 14:04	Timothy Workman	Bandy Town Fan (handheld) at 13:15p.m.. O2_20.86 ; CH4_0.1 ; CO_14
4/11/2010 14:05	Timothy Workman	Bandy Town Fan (handheld) at 13:30p.m.. O2_20.89 ; CH4_0.1 ; CO_10
4/11/2010 14:05	Timothy Workman	Bandy Town Fan (handheld) at 13:45p.m.. O2_20.87 ; CH4_0.1 ; CO_6
4/11/2010 14:12	Timothy Workman	Bleeder Fan 4/11/2010, 7:30a.m.__H2__10 ; O2__20.81 ; N2__78.05 ; CH4__0.13 ; CO__15 ; CO2__0.08 ; C2H2__nda ; C2H4__nda ; C2H6__30 ; Ar__0.93
4/11/2010 14:13	Timothy Workman	Bleeder Fan 4/11/2010, 8:00a.m.__H2__10 ; O2__20.82 ; N2__78.05 ; CH4__0.13 ; CO__15 ; CO2__0.07 ; C2H2__nda ; C2H4__nda ; C2H6__30 ; Ar__0.93
4/11/2010 14:14	Timothy Workman	Bleeder Fan 4/11/2010, 8:30a.m.__H2__9 ; O2__20.82 ; N2__78.04 ; CH4__0.13 ; CO__14 ; CO2__0.07 ; C2H2__nda ; C2H4__nda ; C2H6__30 ; Ar__0.93
4/11/2010 14:15	Timothy Workman	Bleeder Fan 4/11/2010, 9:00.m.__H2__9 ; O2__20.82 ; N2__78.05 ; CH4__0.13 ; CO__14 ; CO2__0.07 ; C2H2__nda ; C2H4__nda ; C2H6__30 ; Ar__0.93
4/11/2010 14:17	Timothy Workman	Bleeder Fan 4/11/2010, 9:30a.m.__H2__9 ; O2__20.83 ; N2__78.04 ; CH4__0.13 ; CO__14 ; CO2__0.07 ; C2H2__nda ; C2H4__nda ; C2H6__30 ; Ar__0.93
4/11/2010 14:18	Timothy Workman	Bleeder Fan 4/11/2010, 10:00a.m.__H2__8 ; O2__20.83 ; N2__78.04 ; CH4__0.12 ; CO__13 ; CO2__0.07 ; C2H2__nda ; C2H4__nda ; C2H6__30 ; Ar__0.93

4/11/2010 14:20	Timothy Workman	Bleeder Fan 4/11/2010, 10:30a.m. H2_9 ; O2_20.81 ; N2_78.05 ; CH4_0.13 ; CO_23; CO2_0.07; C2H2_nda ; C2H4_nda ; C2H6_40 ; Ar_0.93
4/11/2010 14:23	Timothy Workman	Bleeder Fan 4/11/2010, 11:00a.m. H2_8 ; O2_20.81 ; N2_78.05 ; CH4_0.13 ; CO_13; CO2_0.07; C2H2_nda ; C2H4_nda ; C2H6_30 ; Ar_0.93
4/11/2010 14:24	Timothy Workman	Bleeder Fan 4/11/2010, 11:05a.m. H2_8 ; O2_20.80 ; N2_78.05 ; CH4_0.14 ; CO_12; CO2_0.08; C2H2_nda ; C2H4_nda ; C2H6_40 ; Ar_0.93
4/11/2010 14:26	Timothy Workman	Bleeder Fan 4/11/2010, 11:25a.m. H2_7 ; O2_20.81 ; N2_78.07 ; CH4_0.11; CO_14; CO2_0.07; C2H2_nda ; C2H4_nda ; C2H6_30 ; Ar_0.93
4/11/2010 14:34	Timothy Workman	Bleeder Fan 4/11/2010, 11:30a.m. H2_9 ; O2_20.80 ; N2_78.06 ; CH4_0.13 ; CO_14; CO2_0.08; C2H2_nda ; C2H4_nda ; C2H6_20 ; Ar_0.93
4/11/2010 14:35	Timothy Workman	Bleeder Fan 4/11/2010, 12:00a.m. H2_8 ; O2_20.80 ; N2_78.05 ; CH4_0.13 ; CO_14; CO2_0.08; C2H2_nda ; C2H4_nda ; C2H6_40 ; Ar_0.93
4/11/2010 14:39	Timothy Workman	Bleeder Fan 4/11/2010, 12:30a.m. H2_10 ; O2_20.80 ; N2_78.06 ; CH4_0.13 ; CO_15; CO2_0.08; C2H2_nda ; C2H4_nda ; C2H6_30 ; Ar_0.93
4/11/2010 14:46	Timothy Workman	Bandy town fan (hand held) air readings at 14:00 O2_20.8 ; CH4_0.1 ; CO_2
4/11/2010 14:50	Timothy Workman	As per James Jackson at 14:35 Site 1, hole 3-still installing casing. Nitrogen pumping is still off
4/11/2010 14:56	Timothy Workman	As per Ronnie J. Dooley at 14:10 Four teams underground. teams still working on temporary ventilation controls with curtains rolled up. waiting on supplies to be delivered to crosscut 78
4/11/2010 15:01	Timothy Workman	Bandy Town Fan air readings (hand held) at 14:15 O2_20.77 ; CH4_0.1 ; CO_0
4/11/2010 15:02	Timothy Workman	Bandy Town Fan air readings (hand held) at 14:30 O2_20.85 ; CH4_0.3 ; CO_0
4/11/2010 15:02	Timothy Workman	Bandy Town Fan air readings (hand held) at 14:30 O2_20.70 ; CH4_0.1 ; CO_0
4/11/2010 15:11	Timothy Workman	Bleeder Fan 4/11/2010, 13:00a.m. H2_8 ; O2_20.79 ; N2_78.05 ; CH4_0.14 ; CO_15; CO2_0.08; C2H2_nda ; C2H4_nda ; C2H6_40 ; Ar_0.93
4/11/2010 15:14	Timothy Workman	Bleeder Fan 4/11/2010, 13:30a.m. H2_8 ; O2_20.78 ; N2_78.06 ; CH4_0.14 ; CO_16; CO2_0.08; C2H2_nda ; C2H4_nda ; C2H6_40 ; Ar_0.93
4/11/2010 15:28	Timothy Workman	Correction to enrtty 04/11/2010 15:02:28 the air reading was taken at 14:45

4/11/2010 15:31	Timothy Workman	Hand held Bandy Town Fan air reading at 14:45_ O2_ 20.70; CH4_ 0.1 ; CO_ 0
4/11/2010 15:50	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:00 were O2 - 20.7, CH4 - 0.1, CO - 0
4/11/2010 15:51	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:15 were O2 - 20.68, CH4 - 0.1, CO - 0
4/11/2010 15:51	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:30 were O2 - 20.66, CH4 - 0.1, CO - 1
4/11/2010 16:00	Reba Crawford	15:45 - Report from James Jackson - Hole 3, Site 1 - just turned nitrogen on at 3:39 p.m. - no flow rate yet
4/11/2010 16:03	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:45 were O2 - 20.67, CH4 - 0.1, CO - 0, Barometer 29.1068
4/11/2010 16:17	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:00 were O2 - 20.63, CH4 - 0.1, CO - 0, Barometer 29.1015
4/11/2010 16:38	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:15 were O2 - 20.65, CH4 - 0.1, CO - 2, Barometer 29.1006
4/11/2010 16:40	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:30 were O2 - 20.65, CH4 - 0.1, CO - 0, Barometer 29.0985
4/11/2010 16:43	Reba Crawford	16:35 - call from James Jackson at Site 1, Hole 1 - nitrogen started at 15:39 - reset his gauge on pumping - flowrate 699.0 scfm , oxygen 5.0, total pumped 35,065; drill borehole 3 - no change - still casing hole
4/11/2010 17:14	Reba Crawford	16:45 - call from Gary Bragg - Site 1, Hole 3 - 450 feet deep, 12 inch casing being dropped - 180 feet installed; Site 2, Hole 2A - down to 1100 feet, lost bit in hole and pumping grout in - setting up for 2nd hole - will take 1-1/2 hour to 2 hours for grout to cure - waiting on OK to drill; Site 2, Hole 2B - down 90 feet and drilling; Hole 2C - setting up drill now and should be ready in 1 hour
4/11/2010 17:17	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:45 were O2 - 20.66, CH4 - 0.1, CO - 1, Barometer 29.0989
4/11/2010 17:18	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 2, Barometer 29.0985
4/11/2010 17:34	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 14:00 were H2 - 7; O2 - 20.79 ; N2 - 78.06 ; CH4 - 0.13 ; CO - 14; CO2 - 0.09; C2H2 - nda; C2H4 - nda ; C2H6 - 30; Ar 0.93

4/11/2010 17:35	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 14:30 were H2 - 8; O2 - 20.77 ; N2 - 78.07 ; CH4 - 0.14 ; CO - 16; CO2 - 0.08; C2H2 - nda; C2H4 - nda ; C2H6 - 40; Ar 0.93
4/11/2010 17:37	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 15:00 were H2 - 9; O2 - 20.79; N2 - 78.05; CH4 - 0.14; CO - 16; CO2 0.08; C2H2 - nda; C2H4 - nda; C2H6 - 40; Ar - 0.93
4/11/2010 17:44	Reba Crawford	17:28 - Rick Hayhurst at Site 1, Hole 1 - flow rate of nitrogen 698 scfm, O2 - 5%, Total pumped 71,200; Site 1, Hole 3 - holding at 450 feet - installing casing with 200 feet installed - 1097 feet total depth to be drilled
4/11/2010 17:48	Reba Crawford	17:39 - Gary Bragg - Site 2, Hole 2A - completed grouting at 17:25 and grout is setting; Hole 2B - 90 feet drilled and ready to drill again; Hole 2C - getting drill set up and level; Hole 2A total depth to drill 1277 feet, Hole 2B - total depth to be drilled 1237 feet, Hole 2C - total depth to be drilled 1197 feet
4/11/2010 17:52	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:15 were (detector calibrated) O2 - 20.68, CH4 - 0.1, CO - 25, Barometer 29.0953
4/11/2010 17:53	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.75, CH4 - 0.1, CO - 24, Barometer 29.0947
4/11/2010 17:55	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:45 were O2 - 20.83, CH4 - 0.1, CO - 24, Barometer 29.0954
4/11/2010 18:53	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:00 were O2 - 20.82, CH4 - 0.1, CO - 25, Barometer 29.0931
4/11/2010 18:55	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:15 were O2 - 20.81, CH4 - 0.1, CO - 26, Barometer 29.0971
4/11/2010 18:57	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:30 were O2 - 20.78, CH4 - 0.1, CO - 21, Barometer 29.0962
4/11/2010 18:58	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:45 were O2 - 20.76, CH4 - 0.1, CO - 21, Barometer 29.0947
4/11/2010 19:07	Reba Crawford	18:30 Report from Rick Hayhurst at Site 1, Hole 1 - flow rate 697 scfm, O2 - 5%, Total pumped 111,000; Hole 3 - stopped 450 feet, casing down to 200 feet, trouble getting casing in hole
4/11/2010 19:11	Reba Crawford	18:30 Report from Gary Bragg - Hole 2A - grouting completed - think they will start drilling about 2 AM 4/12/10; Hole 2B - 108 feet and drilling; Hole 2C - just started drilling

4/11/2010 19:20	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 15:15 were H2 18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 19; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:24	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 15:30 were H2 18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 19; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:26	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 15:45 were H2 17; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 16; CO2 - 0.09; C2H2 - 1; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:27	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 16:00 were H2 18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 16; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 19:30	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 16:15 were H2 18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 18; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:31	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 16:30 were H2 18; O2 - 20.95; N2 - 77.735; CH4 - 0.13; CO - 15; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:32	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 16:45 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 14; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:32	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 17:00 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.13; CO - 15; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:34	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 17:15 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 14; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 19:36	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:00 were O2 - 20.78, CH4 - 0.1, CO - 22, Barometer 29.0962
4/11/2010 19:37	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:15 were O2 - 20.80, CH4 - 0.1, CO - 21, Barometer 29.0968
4/11/2010 19:42	Reba Crawford	19:30 - Report from Rick Hayhurst - Site 1, Hole 1 - 699 scfm flow rate, O2 - 5%, Total pumped 153,304; Site 1, Hole 3 - casing fouled at 200 feet, will remove casing, set up and redrill
4/11/2010 19:45	Reba Crawford	19:30 - Report from Gary Bragg - Hole 2A - currently holding - concrete is curing - expecting to drill again about 2AM; Hole 2B - depth is about 123 feet and drilling; Hole 2C - depth is about 15 feet and drilling

4/11/2010 19:56	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:30 were O2 - 20.82, CH4 - 0.1, CO - 18, Barometer 29.0997
4/11/2010 19:57	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:45 were O2 - 20.75, CH4 - 0.1, CO - 19, Barometer 29.1000
4/11/2010 20:17	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 17:30 were H2 - 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 14; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 20:17	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 17:45 were H2 - 18; O2 - 20.95; N2 - 77.74; CH4 - 0.13; CO - 14; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 20:19	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 18:00 were H2 - 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 13; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 31; Ar - 0.93
4/11/2010 20:20	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 18:15 were H2 - 18; O2 - 20.95; N2 - 77.73; CH4 - 0.12; CO - 13; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 20:30	Reba Crawford	20:30 - Report by Rick Hayhurst - Site 1, hole 1 - 699 scfm flow rate, 5% O2 - Total pumped 192,009; Site 1, hole 3 - rig moving to start another hole - will be a few hours
4/11/2010 20:31	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:00 were O2 - 20.71, CH4 - 0.1, CO - 22, Barometer 29.1018
4/11/2010 20:32	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:15 were O2 - 20.72, CH4 - 0.1, CO - 24, Barometer 29.1086
4/11/2010 20:49	Reba Crawford	20:35 - Report by Gary Bragg - 2A hold - holding on concrete to dry; 2B - 130 feet and drilling; 2C - 15 feet and drilling all using 22 inch bit
4/11/2010 20:52	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:30 were O2 - 20.73, CH4 - 0.1, CO - 25, Barometer 29.1186
4/11/2010 20:53	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:45 were O2 - 20.74, CH4 - 0.1, CO - 30, Barometer 29.1242
4/11/2010 21:04	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 18:30 were H2 - 19; O2 - 20.95; N2 - 77.74; CH4 - 0.13; CO - 13; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 21:05	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 18:45 were H2 - 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 12; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93

4/11/2010 21:06	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 19:00 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 21:06	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 19:15 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 11; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 21:07	Reba Crawford	Bandy Town Bleeder Fan 4/11/2010, 19:30 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 11; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/11/2010 21:21	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:00 were O2 - 20.75, CH4 - 0.1, CO - 28, Barometer 29.1263
4/11/2010 21:22	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:15 were O2 - 20.76, CH4 - 0.1, CO - 33, Barometer 29.1322
4/11/2010 21:31	Reba Crawford	21:30 - Report from Rick Hayhurst - Site 1, Hole 1 0 flow rate 699 scfm, 5% O2, Total pumped 233,000; Site 1, Hole 3 - moved rig to another hole - have not started drilling - will continue to call hole 3
4/11/2010 21:32	Reba Crawford	21:30 - Report from Gary Bragg - Hole 2A - waiting on concrete to dry; Hole 2B - depth 136 feet and drilling; Hole 2C - depth 20 feet and drilling
4/11/2010 22:22	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:30 were O2 - 20.81, CH4 - 0.1, CO - 31, Barometer 29.1366
4/11/2010 22:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:45 were O2 - 20.84, CH4 - 0.1, CO - 29, Barometer 29.1411
4/11/2010 22:24	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:00 were O2 - 20.87, CH4 - 0.1, CO - 23, Barometer 29.1443
4/11/2010 22:30	Reba Crawford	22:30 - Report from Rick Hayhurst - Site 1, Hole 1 - flow rate 695 scfm, O2 - 5%, Total pumped 274,515 - gas test around collar 0.0 CH4, 20.8 O2, 0 CO; Site 1, Hole 3 - drill rig set up - no drilling being done
4/11/2010 22:41	Reba Crawford	22:30 - Report from Gary Bragg - Hole 2A - holding for concrete to cure; Hole 2B - 140 feet and drilling; Hole 2C - 22 feet and mechanical problem that drillers are working on
4/11/2010 22:42	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:15 were O2 - 20.88, CH4 - 0.1, CO - 21, Barometer 29.1452
4/11/2010 22:43	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:30 were O2 - 20.87, CH4 - 0.1, CO - 20, Barometer 29.1475

4/11/2010 23:22	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 22:45 were O2 - 20.83, CH4 - 0.1, CO - 23, Barometer 29.1481
4/11/2010 23:28	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 23:00 were O2 - 20.83, CH4 - 0.1, CO - 27, Barometer 29.1493
4/11/2010 23:32	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 23:15 were O2 - 20.83, CH4 - 0.1, CO - 27, Barometer 29.1475.
4/11/2010 23:47	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 19:30 were H2 - 18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 11; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93.
4/11/2010 23:49	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 19:45 were H2 - 17; O2 - 20.95; N2 - 77.74; CH4 - 0.11; CO - 11; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 30; Ar - 0.93
4/11/2010 23:50	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 20:00 were H2 - 18; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 11; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 23:53	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 20:15 were H2 - 17; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 23:55	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 20:30 were H2 - 18; O2 - 20.95; N2 - 77.73; CH4 - 0.12 - ; CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 23:56	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 20:45 were H2 - 18; O2 - 20.95; N2 - 77.73; CH4 - 0.12; CO - 11; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/11/2010 23:57	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 21:00 were H2 - 18; O2 - 20.95; N2 - 77.72; CH4 - 0.12; CO - 11; CO2 - 0.08; C2H2 - nda; C2H4 - 2; C2H6 - 32; Ar - 0.93
4/11/2010 23:58	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 21:15 were H2 - 18; O2 - 20.95; N2 - 77.72; CH4 - 0.12; CO - 10; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/12/2010 0:00	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 22:00 were H2 - 18; O2 - 20.95; N2 - 77.71; CH4 - 0.12; CO - 28; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/12/2010 0:04	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 23:30 were O2 - 20.84, CH4 - 0.2, CO - 28, Barometer 29.1464
4/12/2010 0:06	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 23:45 were O2 - 20.91, CH4 - 0.2, CO - 26, Barometer 29.1475

4/12/2010 0:53	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 00:00 were O2 - 20.91, CH4 - 0.2, CO - 26, Barometer 29.1505
4/12/2010 1:09	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 00:15 were O2 - 20.90, CH4 - 0.2, CO - 24, Barometer 29.1535
4/12/2010 1:11	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 00:30 were O2 - 20.90, CH4 - 0.2, CO - 22, Barometer 29.1540
4/12/2010 1:15	Ronald Barber	MSHA Personnel on site 4/12/2010 - Midnight 1) Tech Support - 1 2) Dist. 4 - 10 3) MEU - 6
4/12/2010 1:21	Ronald Barber	AR Rodney Lusk called from drill site 2A, 2B, 2C 2A will start drilling at 02:00. 2B is at 155', currently drilling. 2C disabled - working on collar.
4/12/2010 1:25	Ronald Barber	AR Kevin Lyall called from drill site 1 at 00:30. 695 CFM Nitrogen being pumped 5% O2 Total since start 358,607. Working to start drilling UBB site 1
4/12/2010 1:29	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 00:45 were O2 - 20.82, CH4 - 0.2, CO - 22, Barometer 29.1567
4/12/2010 1:37	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 01:00 were O2 - 20.76, CH4 - 0.2, CO - 20, Barometer 29.1588
4/12/2010 1:41	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 0:115 were O2 - 20.76, CH4 - 0.2, CO - 21, Barometer 29.1617
4/12/2010 1:45	Ronald Barber	AR Kevin Lyall called from drill site - 1st Right hole @ 1:40 Hole started at 1:10. At 1:30, down 3'. Nitrogen- 683 CFM 402,251 ST3.
4/12/2010 1:47	Ronald Barber	AR Rodney Lusk called at 1:50 2A - not started 2B 165' 2C idle
4/12/2010 1:54	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 22:00 were H2 - 18; O2 - 20.95; N2 - 77.71; CH4 - 0.12; CO - 28; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/12/2010 1:56	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 22:15 were H2 - 16; O2 - 20.95; N2 - 77.73; CH4 - 0.12; CO - 11; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/12/2010 1:58	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 22:30 were H2 - 19; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 18; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/12/2010 2:01	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 22:45 were H2 - 22; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 15; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
4/12/2010 2:02	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 23:00 were H2 - 23; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 15; CO2 - 0.07; C2H2 - nda; C2H4 - 2; C2H6 - 32; Ar - 0.93

4/12/2010 2:05	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 23:15 were H2 - 22; O2 - 20.95; N2 - 77.71; CH4 - 0.15; CO - 16; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/12/2010 2:06	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 23:30 were H2 - 22; O2 - 20.95; N2 - 77.71; CH4 - 0.20; CO - 11; CO2 - 0.07; C2H2 - nda; C2H4 - 3; C2H6 - 37; Ar - 0.93
4/12/2010 2:09	Ronald Barber	Bandy Town Bleeder Fan 4/11/2010, 23:45 were H2 - 23; O2 - 20.95; N2 - 77.71; CH4 - 0.17; CO - 19; CO2 - 0.07; C2H2 - nda; C2H4 - 2; C2H6 - 38; Ar - 0.93
4/12/2010 2:10	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 00:00 were H2 - 24; O2 - 20.95; N2 - 77.70; CH4 - 0.18; CO - 19; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 38; Ar - 0.93
4/12/2010 2:12	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 00:15 were H2 - 22; O2 - 20.95; N2 - 77.70; CH4 - 0.17; CO - 11; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 38; Ar - 0.93
4/12/2010 2:20	Ronald Barber	No further underground activity until 0:430.
4/12/2010 2:26	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 00:30 were H2 - 22; O2 - 20.95; N2 - 77.70; CH4 - 0.17; CO - 16; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 38; Ar - 0.93
4/12/2010 2:31	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 00:45 were H2 - 19; O2 - 20.95; N2 - 77.71; CH4 - 0.16; CO - 16; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 37; Ar - 0.93
4/12/2010 2:32	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 01:00 were H2 - 19; O2 - 20.95; N2 - 77.72; CH4 - 0.15; CO - 14; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 37; Ar - 0.93
4/12/2010 2:40	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 01:15 were H2 - 18; O2 - 20.95; N2 - 77.72; CH4 - 0.15; CO - 13; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 37; Ar - 0.93
4/12/2010 2:42	Ronald Barber	AR Kevin Lyall called from site 1 at 02:40 730 CFM O2 5% 442,980 @02:30 UBA 1st rt. 10' deep.
4/12/2010 2:59	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 01:30 were 20.76, CH4 - 0.2, CO - 20, Barometer 29.1635
4/12/2010 3:01	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 01:45 were O2 - 20.77, CH4 - 0.1, CO - 21, Barometer 29.1626
4/12/2010 3:05	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 02:00 were O2 - 20.78, CH4 - 0.1, CO - 21, Barometer 29.1629
4/12/2010 3:07	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 02:15 were O2 - 20.78, CH4 - 0.1, CO - 21, Barometer 29.1620

4/12/2010 3:09	Ronald Barber	AR Rodney Lusk called - in at 02:45 2A - About to start 2B - 180' down 2C Still idle
4/12/2010 3:27	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 01:30 , 01:45, 0200, no readings.
4/12/2010 3:33	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 02:15 were H2 17; O2 - 20.95; N2 - 77.72; CH4 - 0.14; CO - 10; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 36; Ar - 0.93
4/12/2010 3:34	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 02:30 were H2 19; O2 - 20.95; N2 - 77.72; CH4 - 0.14; CO - 11; CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 36; Ar - 0.93
4/12/2010 4:19	Ronald Barber	AR Rodney Lusk called in at 03:40 2A, waiting for concrete to set up hole 280' down 2B - 180' down 2C idle nitrogen 729 cfm, O2 - 5% Total nitrogen cfm - 490,662
4/12/2010 4:20	Ronald Barber	Kevin Lyall called - in at 03:45 1st rt. hole 20' deep O2 5%
4/12/2010 4:31	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 02:45 were H2 - 17; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 11; CO2 - 0.07; C2H4 - 1; C2H6 - 36; Ar - 0.93
4/12/2010 4:33	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 03:00 were H2 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.07; C2H4 - 1; C2H6 - 36; Ar - 0.93
4/12/2010 4:34	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 03:30 were H2 17; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 10; CO2 - 0.07; C2H4 - 1; C2H6 - 36; Ar - 0.93
4/12/2010 4:38	Ronald Barber	AR Kevin Lyall called in at 04:35 729 cfm nitrogen, total 525,401cf 5% O2 1st rt. hole 20' deep, 24" casing Changing drill bit
4/12/2010 4:45	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 02:30 were O2 - 20.78, CH4 - 0.1, CO - 24, Barometer 29.1600
4/12/2010 4:47	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 02:45 were O2 - 20.78, Ch4 - 0.1, CO - 22, Barometer - 29.1588
4/12/2010 4:49	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 03:00 were O2 - 20.79, CH4 - 0.1, CO - 22, Barometer 29.1573
4/12/2010 4:51	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 03:15 were O2 - 20.78, CH4 - 0.1, CO - 21, Barometer - 29.1594
4/12/2010 4:52	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 03:30 were O2 - 20.79, Ch4 - 0.1, Co - 21, Barometer 29.1600
4/12/2010 4:55	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 03: 45 were O2 - 20.79, CH4 - 0.1, CO - 18, Barometer 29.1597
4/12/2010 5:01	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 04:00 were O2 - 20.78, CH4 - 0.1, CO - 14, Barometer - 29.1617

4/12/2010 5:04	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 04:15 were O2 - 20.78, CH4 - 0.1, CO - 13, Barometer - 29.1600
4/12/2010 5:06	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 04:30 were O2 - 20.79, CH4 - 0.1, CO - 17, Barometer - 29.1626
4/12/2010 5:08	Ronald Barber	AR Rodney Lusk called in at 04:40 2A not started 2B 187' deep 2C idle - waiting on concrete
4/12/2010 5:40	Ronald Barber	AR Kevin Lyall called in at 05:40 from site 1 705 cfm, 5% O2 566,907 total Still changing bitr at 1st rt.
4/12/2010 5:43	Ronald Barber	AR Rodney Lusk called in at 05:45 from drill site 2A has started back up- concrete not firm will not try again until 10:00 2B hole - 194' deep 2C still idle
4/12/2010 5:57	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 04:45 were O2 20.79, CH4 - 0.1, CO - 18, Barometer 29.1647
4/12/2010 5:59	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 05:00 were O2 - 20.80, CH4 - 0.1, CO - 18, Barometer 29.1679
4/12/2010 6:02	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 05:15 were O2 - 20.79, CH4 - 0.1, CO - 11
4/12/2010 6:03	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 05:30 were O2 - 20.78, CH4 - 0.1, CO - 12, Barometer 29.1703
4/12/2010 6:05	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 05:45 were O2 - 20.78, CH4 - 0.1, CO - 11, Barometer - 29.1703
4/12/2010 6:23	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 03:15 were H2 - 17; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 10; CO2 - 0.07; C2H4 - 1; C2H6 - 36; Ar - 0.93
4/12/2010 6:26	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 03:45 were H2 - 17; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 11; CO2 - 0.07; C2H4 - 2; C2H6 - 36; Ar - 0.93
4/12/2010 6:30	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 04:00 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.14; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 35; Ar - 0.93
4/12/2010 6:34	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 04:30 were H2 - 16; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 35; Ar - 0.93
4/12/2010 6:36	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 04:15 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.14; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 35; Ar - 0.93

4/12/2010 6:39	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 04:45 were H2 16; O2 - 20.95; N2 - 77.73; CH4 - 0.12; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93
4/12/2010 6:42	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 05:00 were H2 18; O2 ;20.95 CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -35; Ar - 0.93
4/12/2010 6:46	Ronald Barber	AR Kevin Lyall called in at 06:40 from site 1 cfm - 734 5% O2 total 608,601 1st rt. still changing drill bit
4/12/2010 6:49	Ronald Barber	AR Rodney Lusk called in at 06:45 from site 2A - idle, 2C idle 2B at 200'
4/12/2010 6:51	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 05:15 were H2 16; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 11; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -34; Ar - 0.93
4/12/2010 6:52	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 05:30 were H2 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -34; Ar - 0.93
4/12/2010 6:53	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 05:45 were H2 18; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -34; Ar - 0.93
4/12/2010 6:57	Ronald Barber	Two teams scheduled to go underground at 06:50
4/12/2010 7:10	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 06:00 were O2 - 20.78, CH4 - 0.1, CO - 13, Barometer - 29.1759
4/12/2010 7:11	Ronald Barber	Readings taken at Bandy Town fan with handheld detector at 06:15 were O2 - 20.80, CH4 - 0.1, CO - 9, Barometer - 29.1845
4/12/2010 7:13	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 06:30 were O2 - 20.80, CH4 - 0.1, CO - 10, Barometer 29.1874
4/12/2010 7:15	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 06:45 were O2 - 20.81, CH4 - 0.1, CO - 10
4/12/2010 7:16	Ronald Barber	Readings taken at Bandy Town Fan with handheld detector at 07:00 were O2 - 20.83, CH4 - 0.1, CO - 12
4/12/2010 7:31	Ronald Barber	Barometer at 06:45 - 29.1933; at 0700 - 29.1972
4/12/2010 7:36	Ronald Barber	AR Kevin Lyall called in from site 1 at 07:40 cfm 732 , O2 - 5% total 647,774 drill truck, site 1, first rt. idle
4/12/2010 7:41	Ronald Barber	AR Rodney Lusk called in at 07:45 2A, 2C still idle 2B at 205'
4/12/2010 7:44	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 06:15 were H2 18; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -34; Ar - 0.93

4/12/2010 7:45	Ronald Barber	Bandy Town Bleeder Fan 4/12/2010, 06:30 were H2 - 16; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 34; Ar - 0.93
4/12/2010 8:07	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 06:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 11; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 34; Ar - 0.93
4/12/2010 8:10	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 07:00 were H2 - 18; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93
4/12/2010 8:25	Timothy Workman	Update as per Ronnie J Dooley-MHSA. Four teams underground at crosscut 78, proceeding to crosscut 139 to complete seals and install tubing
4/12/2010 8:50	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 07:15 were O2 - 20.84, CH4 - 0.1, CO - 10, Barometer 29.2078
4/12/2010 8:53	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 07:30 were O2 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2187
4/12/2010 8:56	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 08:00 were O2 - 20.85, CH4 - 0.1, CO - 2, Barometer 29.2361
4/12/2010 8:56	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 07:45 were O2 - 20.84, CH4 - 0.1, CO - 3, Barometer 29.2293
4/12/2010 8:58	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 08:15 were O2 - 20.85, CH4 - 0.1, CO - 5, Barometer 29.2435
4/12/2010 9:02	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 08:30 were O2 - 20.83, CH4 - 0.1, CO - 8, Barometer 29.2923
4/12/2010 9:03	Timothy Workman	update: at 8:45 Two teams entering mine.
4/12/2010 9:07	Timothy Workman	8:30 as per Kevin Lyale-MSHA Nitrogen-729 scfm, purity 5%, Total 686620. Site 1, 1st right hole 20 feet in depth changing bits
4/12/2010 9:12	Timothy Workman	8:30 as per James Jackson -MSHA. Bandy town Fan air reading 454,000cfm, water guage 3.1
4/12/2010 9:18	Timothy Workman	As per Ronnie J. Dooley at 9:00 ___ Mine rescue team at crosscut 129, 1 break inby spad 20208, track entry 250cfm, 20.9 O2 ; 0.0 CH4 ; 0 CO
4/12/2010 9:21	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 08:45 were O2 - 20.80, CH4 - 0.1, CO - 10, Barometer 29.2432
4/12/2010 9:24	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 09:00 were O2 - 20.80, CH4 - 0.1, CO - 11, Barometer 29.2391

4/12/2010 9:31	Timothy Workman	As per Ben Dulin at 09:00a.m.Hole 2A idle-waiting for cement to dry, expect to drill at 10:00. Hole 2B drilling at a depth of 222 feet. Hole 2C idle-waiting for cement to dry, expect to drill at 10:00.
4/12/2010 9:36	Timothy Workman	As per Perry Brown at 09:30. Site 1, 1st right Hole Drilling at a depth of 35 feet.
4/12/2010 9:38	Timothy Workman	As per Perry Brown at 9:30a.m. Nitrogen Flow 720.1 scfm, purity 5%, total 729,527
4/12/2010 9:41	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 9:15 were O2 - 20.82, CH4 - 0.1, CO - 13, Barometer 29.2361
4/12/2010 9:43	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 09:30 were O2 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2323
4/12/2010 9:58	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 09:45 were O2 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314
4/12/2010 10:27	Timothy Workman	10:00a.m. as per Ben Dulin-MHSA. Hole 2A Drilling at a depth of 1020 feet. hole has a 6 inch casing. ; Hole 2B at a depth of 227 feet, not drilling, waiting on water.
4/12/2010 10:35	Timothy Workman	update as per Kieth Sigmon -MSHA at 10:35. Mine rescue team at seal 8 north. air O2_20.7,;0.5 _CH4 ; 500ppm_CO. installing curtain to sweep the air.
4/12/2010 10:37	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 010:00a.m. were O2 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2353
4/12/2010 10:38	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 010:15 were O2 - 20.85, CH4 - 0.1, CO - 7, Barometer 29.2364
4/12/2010 10:39	Timothy Workman	Readings taken at Bandy Town Fan with handheld detector at 010:30a.m. were O2 - 20.84, CH4 - 0.1, CO - 8, Barometer 29.2335
4/12/2010 10:43	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 07:15 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 10:45	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 07:30 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 10:45	Kim Diederich	Gas Readings: Bandytown Fan 10:45 O2 20.84% CH4 .10% CO 8ppm CO2 0.06%
4/12/2010 10:46	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 10:46	Kim Diederich	Barometer 29.2285

4/12/2010 10:47	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 08:00 were H2 15; O2 - 20.95; N2 - 77.71; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93
4/12/2010 10:52	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 08:15 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93
4/12/2010 10:55	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 08:30 were H2 15; O2 - 20.95; N2 - 77.71; CH4 - 0.13; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1; C2H6 -32; Ar - 0.93
4/12/2010 10:58	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 08:45 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.07; C2H2 - nd; C2H4 - 1; C2H6 -32; Ar - 0.93
4/12/2010 11:00	Kim Diederich	Barometer readings included with the Bandytown Fan are from the Setra recording barometer in the IR truck. They were recorded at the time of the gas readings.
4/12/2010 11:03	Kim Diederich	Gas Readings: Bandytown Fan 11:00 O2 20.83% CH4 .10% CO 9ppm CO2 0.06%
4/12/2010 11:03	Kim Diederich	Barometer 11:00 29.2234
4/12/2010 11:17	Timothy Workman	update at 1105 as per Ben Dulin site 2, hole 2A- hole shut down by Massey at 10:45. 2B hole starting in 15 minutes at a depth of 227'. 2C hole started at 11a.m. at a depth of 32 feet
4/12/2010 11:18	Kim Diederich	Gas Readings: Bandytown Fan 11:15 O2 20.83% CH4 .10% CO 14ppm CO2 0.06%
4/12/2010 11:18	Kim Diederich	Barometer 29.2214
4/12/2010 11:30	Kim Diederich	Gas Readings: Bandytown Fan 11:30 O2 20.82% CH4 .10% CO 12ppm CO2 0.07%
4/12/2010 11:31	Kim Diederich	Barometer 29.2199
4/12/2010 11:47	Kim Diederich	Gas Readings: Bandytown Fan 11:45 O2 20.81% CH4 .10% CO 17ppm CO2 0.06%
4/12/2010 11:48	Kim Diederich	Barometer 29.2137
4/12/2010 12:02	Kim Diederich	IR readings the Bandytown fan, instrument zeroed at 11:50 Barometer 29.2104
4/12/2010 12:02	Kim Diederich	Gas Readings: Bandytown Fan 12:00 O2 20.78% CH4 .10% CO 14ppm CO2 0.03%
4/12/2010 12:07	Timothy Workman	As per Ben Dulin at 12:00 site 2; hole 2A (6 inch hole at a depth of 1020 feet) not drilling. Hole 2B (20 inch hole at a depth of 231 feet) drilling. Hole 2C drilling at a depth of 37 feet
4/12/2010 12:09	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 09:00 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93
4/12/2010 12:13	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 09:15 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93

4/12/2010 12:14	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 10:45 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 12:21	Kim Diederich	Gas Readings: Bandytown Fan 12:15 O2 20.78% CH4 .10% CO 15ppm CO2 0.03%
4/12/2010 12:22	Kim Diederich	Barometer 12:15 29.2048
4/12/2010 12:39	Kim Diederich	Gas Readings: Barometer 12:30 O2 20.78% CH4 .10% CO 18ppm CO2 0.03%
4/12/2010 12:40	Timothy Workman	As per Kieth Sigmon 12:30__Temporary Seals have been cleared and teams are in process of moving the fresh air base.
4/12/2010 12:40	Kim Diederich	Barometer 29.2022
4/12/2010 12:47	Kim Diederich	Gas Readings: Bandytown Fan 12:45 O2 20.78% CH4 .10% CO 20ppm CO2 0.03%
4/12/2010 12:48	Kim Diederich	Barometer 29.1951
4/12/2010 13:00	Kim Diederich	Gas Readings: Bandytown Fan 13:00 O2 20.78% CH4 .10% CO 23ppm CO2 0.03%
4/12/2010 13:01	Kim Diederich	Barometer 29.1939
4/12/2010 13:08	Timothy Workman	Update as per Ben Dulin -MSHA_ at 13:05 2A hole (not drilling) ; 2B hole drilling at a depth of 255 feet. 2C hole drilling at a depth of 43 feet
4/12/2010 13:09	Melanie Calhoun	Gas Chromatograph Readings: Bleeder Fan 4/12/10 11:30am H2 17ppm O2 20.94% N2 77.93% CH4 0.12% CO 12ppm CO2 0.07% C2H2 ND C2H4 1ppm C2H6 32ppm Ar 0.93%
4/12/2010 13:13	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 10:00 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO -11; CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -32; Ar - 0.93
4/12/2010 13:14	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 10:15 were H2 15; O2 - 20.95; N2 - 77.83; CH4 - 0.13; CO - 17; CO2 - 0.09; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 13:16	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 10:45 were H2 15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 13:18	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 11:00 were H2 15; O2 - 20.95; N2 - 77.84; CH4 - 0.12; CO - 11; CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -30; Ar - 0.93
4/12/2010 13:20	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 11:15 were H2 15; O2 - 20.95; N2 - 77.85; CH4 - 0.13; CO - 12; CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 13:33	Timothy Workman	Bandy Town Fan (Hand Held) at 13:15 O2_20.79 ; CH4_0.1 ; CO_24__barometer 29.1868
4/12/2010 13:37	Timothy Workman	Gas Readings: Bandy Town Fan(13:15a.m.) O2 20.8% CH4 0.10% CO 30ppm CO2 0.03%
4/12/2010 13:39	Timothy Workman	Bandy Town Fan barometer at 13:15 was 29.1868

4/12/2010 13:55	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 12:45 were H2 13; O2 - 20.95; N2 - 77.88; CH4 - 0.12; CO - 10; CO2 - 0.07; C2H2 - nd; C2H4 - 1; C2H6 -31; Ar - 0.93
4/12/2010 14:16	Timothy Workman	Update as per Ben Dulin at 14:00 ---Site 2, 2A-(no change); 2B drilling at a depth of 265 feet ; 2C is at a depth of 43 feet(down due to induction problem)
4/12/2010 14:20	Timothy Workman	Gas Readings: Bandy Town Fan(13:30a.m.) O2 20.8% CH4 0.10% CO 30ppm CO2 0.03%
4/12/2010 14:21	Timothy Workman	Bandy Town Fan barometer 13:30 was 29.1848
4/12/2010 14:26	Timothy Workman	Bandy Town Fan hand held air reading at 13:45 O2__20.81 ; CH4__0.1 ; CO__33 ; Barometer 29.1783
4/12/2010 14:31	Timothy Workman	Bandy Town Fan hand held air reading at 14:00 was __O2_20.75 ; CH4_0.1 ; CO_16 barometer 29.1709
4/12/2010 14:31	Timothy Workman	Bandy Town Fan hand held air reading at 14:15 was __O2_20.77 ; CH4_0.1 ; CO_17 barometer 29.1673
4/12/2010 14:34	Timothy Workman	Have had some phone communication problems with the Arlington Command Center during the mid day hours on 4/12/2010
4/12/2010 14:54	Timothy Workman	As per Ronnie J. Dooley at 14:10. Update . 9 teams underground. 1 team at FAB at break 129 ; 1 team at FAB break 135 ; Team installing final controls to proceed inby towards the victims air quality CO __20.5 ; CO_0;CH4_0 . air quality behind temporary number 3 seal O2__20.0 ; CO__1592 ;CH4 2.36
4/12/2010 15:05	Timothy Workman	Bandy Town Fan hand held air reading at 14:30 was __O2_20.80 ; CH4_0.1 ; CO_5 ;barometer 29.1664
4/12/2010 15:06	Timothy Workman	Bandy Town Fan hand held air reading at 14:45 was __O2_20.85 ; CH4_0.1 ; CO_5 barometer 29.1650
4/12/2010 15:07	Timothy Workman	Bandy Town Fan hand held air reading at 15:00 was __O2_20.90 ; CH4_0.1 ; CO_4 barometer 29.1617
4/12/2010 15:10	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 13:00 were H2 13; O2 - 20.95; N2 - 77.90; CH4 - 0.12; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -31; Ar - 0.93
4/12/2010 15:11	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 13:15 were H2 13; O2 - 20.95; N2 - 77.89; CH4 - 0.12; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -31; Ar - 0.93
4/12/2010 15:12	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 13:30 were H2 14; O2 - 20.95; N2 - 77.88; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -31; Ar - 0.93

4/12/2010 15:14	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 13:35 were H2 13; O2 - 20.95; N2 - 77.87; CH4 - 0.13; CO - 6; CO2 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93
4/12/2010 15:16	Timothy Workman	Bandy Town Bleeder Fan 4/12/2010, 13:45 were H2 13; O2 - 20.95; N2 - 77.87; CH4 - 0.13; CO - 11; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -32; Ar - 0.93
4/12/2010 15:21	Timothy Workman	As per Ben Dulin at 15:00 . Hole 2A no change. Hole 2B , not drilling, waiting for water (depth 270 feet). Hole 2C drilling at a depth of 70 feet.
4/12/2010 16:32	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:15 were O2 - 20.95, CH4 - 0.1, CO2 - 0.05, CO - 5, Barometer 19.1532
4/12/2010 16:34	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:30 were O2 - 20.95, CH4 - 0.1, CO2 0.05, CO - 4, Barometer 29.1502
4/12/2010 16:35	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 15:45 were O2 - 20.97, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1470
4/12/2010 16:37	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:00 were O2 - 20.89, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1455
4/12/2010 16:38	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:15 were O2 - 20.87, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1399
4/12/2010 16:41	Reba Crawford	16:00 drill report - Site 2 - 2A hole - getting directional bit started - estimated time for drilling 7 pm - drilled 1,020 feet; 2B hole - waiting on water, drilled 270 feet; 2C hole - 85 feet and drilling
4/12/2010 16:47	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 14:00 were H2 13, O2 - 20.95, N2 - 77.84, CH4 - 0.13, CO - 10, CO2 - 0.08, C2H2 - nd, C2H4 - 1, C2H6 - 31, Ar - 0.93
4/12/2010 16:48	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 14:15 were H2 13, O2 - 20.95, N2 - 77.84, CH4 - 0.12, CO - 10, CO2 - 0.08, C2H2 - nd, C2H4 - 1, C2H6 - 31, Ar - 0.93
4/12/2010 16:49	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 14:30 were H2 13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 9, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 16:50	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 14:45 were H2 13, O2 - 20.95, N2 - 77.82, CH4 - 0.12, CO - 10, CO2 - 0.08, C2H2 - nd, C2H4 - 1, C2H6 - 30, Ar - 0.93
4/12/2010 16:51	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 15:00 were H2 13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 9, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93

4/12/2010 16:52	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 15:15 were H2 - 13, O2 - 20.95, N2 - 77.84, CH4 - 0.13, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 16:54	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 15:30 were H2 - 9, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 13, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 16:55	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:30 were O2 - 20.85, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1387
4/12/2010 16:57	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 16:45 were O2 - 20.80, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1343
4/12/2010 17:04	Reba Crawford	17:00 - Report from Rick Hayhurst - Site 1, Hole 1C (we previously called Hole 3 on 4/11/10) - Stopped at 60 feet with mechanical problem on drill - a mechanic is enroute and expected in 15 minutes; Nitrogen generator on Hole 1A (we previously called Hole 1 on 4/11/10) - is stopped and not pumping
4/12/2010 17:14	Reba Crawford	17:00 - Report from Gary Bragg - Hole 2A - at 1,015 feet and using directional bit to realign hole; Hole 2B - 275 feet and drilling; Hole 2C - 100 feet and drilling
4/12/2010 17:16	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 15:45 were H2 - 13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 8, CO2 - 0.09, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 17:16	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 16:00 were H2 - 13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 7, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 17:51	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:00 were O2 - 20.75, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1298
4/12/2010 17:52	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.73, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1259
4/12/2010 17:53	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.73, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1295
4/12/2010 18:02	Reba Crawford	18:00 - Report from Rick Hayhurst - Hole 1A - nitrogen not being pumped; Hole 1C - stopped 60 feet with mechanic on site
4/12/2010 18:04	Reba Crawford	18:00 - Report from Gary Bragg - Site 2, Hole 2A - 1,018 feet and trying to get directional bit set up; Hole 2B - 288 feet and drilling; Hole 2C - 115 feet and drilling
4/12/2010 18:32	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 17:45 were O2 - 20.71, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1316

4/12/2010 18:32	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:00 were O2 - 20.72, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1218
4/12/2010 18:43	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:15 were O2 - 20.73, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1266
4/12/2010 18:45	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:30 were O2 - 20.77, CH4 - 0.1, CO2 - 0.05, CO - 1, Barometer 29.1275
4/12/2010 19:14	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 18:45 were O2 - 20.76, CH4 - 0.1, CO2 - 0.05, CO - 1, Barometer 29.1295
4/12/2010 19:15	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:00 were O2 - 20.75, CH4 - 0.1, CO2 - 0.05, CO - 0, Barometer 29.1313
4/12/2010 19:19	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 16:15 were H2 13, O2 - 20.95, N2 - 77.81, CH4 - 0.13, CO - 8, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 19:19	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 16:30 were H2 13, O2 - 20.95, N2 - 77.85, CH4 - 0.13, CO - 8, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 19:20	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 16:45 were H2 13, O2 - 20.95, N2 - 77.81, CH4 - 0.13, CO - 8, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 19:20	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 17:00 were H2 13, O2 - 20.95, N2 - 77.79, CH4 - 0.13, CO - 8, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 19:22	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 17:15 were H2 12, O2 - 20.95, N2 - 77.82, CH4 - 0.12, CO - 7, CO2 0.09, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/12/2010 19:22	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 17:30 were H2 13, O2 - 20.95, N2 - 77.82, CH4 - 0.13, CO - 8, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 19:23	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 17:45 were H2 12, O2 - 20.95, N2 - 77.84, CH4 - 0.13, CO - 7, CO2 0.08, C2H2 - nd, C2H4 - 0, C2H6 - 30, Ar - 0.93
4/12/2010 19:24	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 18:00 were H2 12, O2 - 20.95, N2 - 77.78, CH4 - 0.13, CO - 7, CO2 0.08, C2H2 - nd, C2H4 - nd, C2H6 - 31, Ar - 0.93
4/12/2010 19:57	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:30 were O2 - 20.58, CH4 - 0.2, CO2 - 0.05, CO - 0, Barometer 29.1351

4/12/2010 19:59	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:15 were O2 - 20.71, CH4 - 0.2, CO2 - 0.05, CO - 0, Barometer 29.1331
4/12/2010 20:00	Reba Crawford	20:00 - report from Rick Hayhurst - Site 1, Hole 1A - nitrogen not being pumped; Hole 1C - 105 feet depth and drilling
4/12/2010 20:17	Reba Crawford	20:00 report from Gary Bragg - Hole 2A - almost ready to create formation - by 2AM should be ready to drill - will wait on OK before drilling; Hole 2B - 315 feet and drilling; Hole 2C - 160 feet and drilling; operator going to change out compressor 1 drill at a time - should speed up drilling but will take most of the night to change compressor
4/12/2010 20:18	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:45 were O2 - 20.47, CH4 - 0.2, CO2 - 0.05, CO - 0, Barometer 29.1328
4/12/2010 20:18	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:00 were O2 - 20.63, CH4 - 0.2, CO2 - 0.05, CO - 0, Barometer 29.1351
4/12/2010 20:24	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 19:45 were O2 - 20.47, CH4 - 0.2, CO2 - 0.05, CO - 0, Barometer 29.1328
4/12/2010 20:25	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:00 were O2 - 20.63, CH4 - 0.2, CO2 - 0.05, CO - 0, Barometer 29.1351
4/12/2010 20:27	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 18:15 were H2 12, O2 - 20.95, N2 - 77.76, CH4 - 0.12, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nd, a C2H6 - 31, Ar - 0.90
4/12/2010 20:27	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 18:30 were H2 12, O2 - 20.95, N2 - 77.74, CH4 - 0.12, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nd, a C2H6 - 31, Ar - 0.93
4/12/2010 20:28	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 18:45 were H2 13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nd, a C2H6 - 31, Ar - 0.93
4/12/2010 20:29	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 19:00 were H2 13, O2 - 20.95, N2 - 77.81, CH4 - 0.16, CO - 7, CO2 0.08, C2H2 - nd, C2H4 - nd, a C2H6 - 31, Ar - 0.85
4/12/2010 20:30	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 19:15 were H2 13, O2 - 20.95, N2 - 77.81, CH4 - 0.16, CO - 7, CO2 0.08, C2H2 - nd, C2H4 - nd, a C2H6 - 31, Ar - 0.87
4/12/2010 21:04	Reba Crawford	21:00 Report from Rick Hayhurst - Site 1, Hole 1A - no nitrogen being pumped; Hole 1C - Down 130 feet and drilling
4/12/2010 21:06	Reba Crawford	21:00 Report from Rick Hayhurst - Site 1, Hole 1A - No nitrogen being pumped; Hole 1C - Down 130 feet and drilling

4/12/2010 21:08	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:15 were O2 - 20.69, CH4 - 0.2, CO2 - 0.05, CO - 4, Barometer 29.1372
4/12/2010 21:09	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:30 were O2 - 20.69, CH4 - 0.2, CO2 - 0.06, CO - 3, Barometer 29.1372
4/12/2010 21:13	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:45 were O2 - 20.67, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1473
4/12/2010 21:17	Reba Crawford	21:00 Report from Gary Bragg - Hole 2A - 1,024 feet - operator thinks he has ledge established to start drilling adjacent hole; Hole 2B - 330 feet and drilling; Hole 2C - 180 feet and drilling - expects 1st void in @ 2-1/2 hours at 225 feet, will drill 10 feet below (@ another hour) - will not case until daylight
4/12/2010 21:23	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:00 were O2 - 20.67, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1461
4/12/2010 21:26	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:15 were O2 - 20.72, CH4 - 0.1, CO2 - 0.05, CO - 3, Barometer 29.1511
4/12/2010 21:34	Reba Crawford	Test run
4/12/2010 21:49	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 20:15 were O2 - 20.69, CH4 - 0.2, CO2 - 0.05, CO - 4, Barometer 29.1372
4/12/2010 23:40	Reba Crawford	Reading taken at Bandy Town Fan with handheld detector at 21:30 were O2 - 20.74, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1555
4/12/2010 23:41	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 21:45 were O2 - 20.74, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1585
4/12/2010 23:42	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:00 were O2 - 20.69, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1620
4/12/2010 23:43	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:15 were O2 - 20.75, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1662
4/12/2010 23:43	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:30 were O2 - 20.73, CH4 - 0.1, CO2 - 0.06, CO - 2, Barometer 29.1644
4/12/2010 23:44	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 22:45 were O2 - 20.75, CH4 - 0.1, CO2 - 0.06, CO - 2, Barometer 29.1653
4/12/2010 23:45	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:00 were O2 - 20.71, CH4 - 0.1, CO2 - 0.06, CO - 2, Barometer 29.1650
4/12/2010 23:46	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:15 were O2 - 20.72, CH4 - 0.1, CO2 - 0.06, CO - 2, Barometer 29.1641

4/12/2010 23:51	Reba Crawford	22:00 Report from Rick Hayhurst - Site 1 - no nitrogen being pumped in 1A hole; Hole 1C - stopped at 130 feet - worked 24 hours and went home
4/12/2010 23:53	Reba Crawford	22:00 Report from Gary Bragg - Hole 2A - 1,024 feet - drilling for ledge - currently 4 inches above concrete grout; Hole 2B - 342 feet and drilling; Hole 2C - 190 feet and rig is down due to mechanical problems - mast cable broke
4/12/2010 23:55	Reba Crawford	23:00 Report from Rick Hayhurst - Site 1 - No nitrogen beng pumped in 1A hole; Hole 1C - stopped at 130 feet - worked 24 hours and went home
4/12/2010 23:56	Reba Crawford	24:00 Tech Support 4 people; D4 - 6 people
4/12/2010 23:58	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:30 were O2 - 20.73, CH4 - 0.1, CO2 - 0.06, CO - 2, Barometer 29.1632
4/12/2010 23:59	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:45 were O2 - 20.68, CH4 - 0.1, CO2 - 0.06, CO - 2, Barometer 29.1611
4/13/2010 0:03	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 19:30 were H2 13, O2 - 20.95, N2 - 77.76, CH4 - 0.17, CO - 8, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/13/2010 0:05	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 19:45 were H2 13, O2 - 20.95, N2 - 77.76, CH4 - 0.16, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 29, Ar - 0.93
4/13/2010 0:09	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 20:00 were H2 13, O2 - 20.95, N2 - 77.76, CH4 - 0.16, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/13/2010 0:23	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 20:15 were H2 13, O2 - 20.95, N2 - 77.76, CH4 - 0.15, CO - 7, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.91
4/13/2010 0:24	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 20:30 were H2 14, O2 - 20.95, N2 - 77.74, CH4 - 0.14, CO - 5, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 34, Ar - 0.93
4/13/2010 0:25	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 20:45 were H2 12, O2 - 20.95, N2 - 77.76, CH4 - 0.13, CO - 3, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/13/2010 0:25	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 21:00 were H2 12, O2 - 20.95, N2 - 77.76, CH4 - 0.13, CO - 3, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/13/2010 0:28	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 21:14 were H2 9, O2 - 20.95, N2 - 77.75, CH4 - 0.13, CO - nd, CO2 0.09, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93

4/13/2010 0:29	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 21:15 were H2 - 12, O2 - 20.95, N2 - 77.74, CH4 - 0.13, CO - 2, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:29	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 21:30 were H2 - 12, O2 - 20.95, N2 - 77.75, CH4 - 0.13, CO - 3, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:30	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 21:45 were H2 - 12, O2 - 20.95, N2 - 77.75, CH4 - 0.13, CO - 1, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:30	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 22:00 were H2 - 12, O2 - 20.95, N2 - 77.74, CH4 - 0.12, CO - 2, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:31	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 22:15 were H2 - 12, O2 - 20.95, N2 - 77.73, CH4 - 0.13, CO - 1, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:31	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 22:30 were H2 - 12, O2 - 20.95, N2 - 77.74, CH4 - 0.12, CO - 2, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:33	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 22:45 were H2 - 12, O2 - 20.95, N2 - 77.75, CH4 - 0.12, CO - nd, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.88
4/13/2010 0:34	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 23:00 were H2 - 12, O2 - 20.95, N2 - 77.73, CH4 - 0.12, CO - 12, CO2 - 0.078, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.91
4/13/2010 0:35	Reba Crawford	Bandy Town Bleeder Fan 4/12/2010, 23:15 were H2 - 12, O2 - 20.95, N2 - 77.71, CH4 - 0.12, CO - 3, CO2 - 0.07, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
4/13/2010 0:37	Reba Crawford	00:01 4/13/2010 - Report from Rick Hayhurst - Site 1 - No nitrogen being pumped in 1A hole; Hole 1C - stopped at 130 feet - worked 24 hours and went home
4/13/2010 0:39	Reba Crawford	00:01 4/13/2010 - Report from Gary Bragg - Site 2, Hole 2A - no drilling; Hole 2B - 355 feet and drilling; Hole 2C - 190 feet and mechanical problems
4/13/2010 0:40	Reba Crawford	23:00 - 4/12/10le 2C - Report from Gary Bragg - Hole 2A - 1027 feet and drilling; Hole 2B - 355 feet and drilling; Hole 2C - 190 feet and mechanical problems
4/13/2010 2:03	Reba Crawford	01:30 - Report from Rodney Lusk - Hole 2A - idle; Hole 2B - 380 feet and drilling; Hole 2C - idle

4/13/2010 2:26	Reba Crawford	Readings taken at Bandy Town Fan with handheld detector at 23:59 were O2 - 20.69, CH4 - 0.1, CO2 - 0.05, CO - 2, Barometer 29.1591
4/13/2010 2:40	Reba Crawford	Report from Rodne Lusk - Hole 2A - Idle, Hole 2B - 380', and drilling, hole 2C - idle at 0240 hrs