Date & Time (Eastern)	Author	Running Log
4/6/2010 11:21	John Urosek	Upper Big Branch Mine Explosion April 5, 2010
· · · · · · · · · · · · · · · · · · ·		MSHA approved a modification to the k-order to
		permit the mine operator to refuel equipment located
4/6/2010 11:31	James Jackson	on the surface near the bleeder shaft
		Incident Commander Name(000-000-0000) is
		changed to Bill Ponceroff(703-235-0920) and
	Marvin	Incident Chief MEO Name(000-000-0000) is
4/6/2010 12:45	Lichtenfels	changed to John Urosek(703-235-0907)
		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
4/6/2010 12:49	James Jackson	completed.
3.20.0 .2.10		12:00 Noon Meeting : Rejecting 2 reentry plans by
		Bill Ponceroff. Present Chris
		Adkins, VP Performance Coal Jason White,
		Performance Coal Ventilation Engineer Steve
		Snyder, WV Reg. Supervisor Bryan Tucker, WV
4/6/2010 12:53	John Hendley	Inspector
7/0/2010 12.00	John Fichaley	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% C/14, 0
<i>≬(6/2</i> 010 13⋅58	James Jackson	Ch4, 0 ppm CO.
4/0/2010 13.50	Janies Jackson	Bandy Bleeder Fan 2:00 p.m. 20.9 O2, 0.08 Ch4,
4/6/2010 15:27	Great Fetty	196 ppm CO
4/0/2010 13.27	Gleg i etty	190 ppin CO
		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.
AIC/0040 40:00	Crog Fotti	Tech Support has been notified of the discrepancies
4/6/2010 16:29	Greg retty	in the readings and is investigating.
		North Poture 20.89/ O2.0.09/ Ob4.0.555 CO
		North Return 20.8% O2, 0.0% Ch4, 0 ppm CO,
		South track portal 16:30 20.8% O2, 0.0% Ch4, 0
4/0/0040 40 44	C F-44	ppm CO, North track portal 13:16 20.8% O2, 0.0%
4/6/2010 16:44	Greg Fetty	Ch4, 0 ppm CO - Drilling has not been initiated
		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
4/6/2010 18:48	IGrea Fetty	a depth of 65'.

	15:00 Chromatograph 20.95 O2 0.2 Ch4 373 ppm
	16:00 Chromatograph 20.95 O2 0.2 Ch4 375 ppm
4/6/2010 18:55 Greg Fetty	17:00 Chromatograph 20.95 O2 0.2 Ch4 361 ppm
	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
4/6/2010 18:58 Greg Fetty	evening.
	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
i i	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,
4/6/0040 40:07/0 5 11	and 540 ppm CO; at 18:00 hrs, the readings were
4/6/2010 19:07 Greg Fetty	20.73% O2, 0.8% Ch4 and 549 ppm CO
	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;
	1
	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
4/6/2010 19:57 Greg Fetty	CO)
47072010 13.37 Greg Felly	00)
	Bandytown - IR Readings - 19:45 hrs - 20 84% O2
	Bandytown - IR Readings - 19:45 hrs - 20.84% O2, 0.7% Ch4, 500 ppm CO: 20:00 hrs - 20.84% O2.
	0.7% Ch4, 500 ppm CO; 20:00 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.,
	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.
4/6/2010 20:29 Greg Fetty	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
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4/6/2010 20:33 Greg Fetty 4/6/2010 20:59 Greg Fetty	<ul> <li>0.7% Ch4, 500 ppm CO; 20:00 hrs - 20.84% O2,</li> <li>0.7% Ch4, 493 ppm CO; At approximately 7:45 p.m.,</li> <li>#1 hole was down 400 feet. Stopped to set casings.</li> <li>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.</li> <li>Chromatograph readings - Bandy Bleeder - 20.95% O2, 0.2% Ch4, 353 ppm CO.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>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</li> </ul>
4/6/2010 20:33 Greg Fetty 4/6/2010 20:59 Greg Fetty	<ul> <li>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.</li> <li>Chromatograph readings - Bandy Bleeder - 20.95% O2, 0.2% Ch4, 353 ppm CO.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>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,</li> </ul>
4/6/2010 20:33 Greg Fetty 4/6/2010 20:59 Greg Fetty	<ul> <li>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.</li> <li>Chromatograph readings - Bandy Bleeder - 20.95% O2, 0.2% Ch4, 353 ppm CO.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>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</li> </ul>
4/6/2010 20:33 Greg Fetty 4/6/2010 20:59 Greg Fetty	<ul> <li>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.</li> <li>Chromatograph readings - Bandy Bleeder - 20.95% O2, 0.2% Ch4, 353 ppm CO.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>The Seismic is up and operational. No unusual noise to report.</li> <li>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,</li> </ul>

		y
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	Grea Fettv	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
		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
4/7/2010 10:33 4/7/2010 11:50	Timothy	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, exausting 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.
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.
7/1/2010 12.30	* * OTMITICAL I	120.00, OHT 0.7, OU-001.

		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
	Timothy	the Bandy Town Fan at 12:00 a. m. indicated: O2-
4/7/2010 12:36	Workman	20.59, CH4- 0.4, CO-381.
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		and no information other than noise has been
		detected. Air readings with hand held equipment at
	Timothy	the Bandy Town Fan at 12:00 a.m. indicated: O2-
4/7/2010 12:37	Workman	20.59, CH4- 0.4, CO-381.
		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
	Timothy	the Bandy Town Fan at 12:00 a.m. indicated: O2-
4/7/2010 12:37	Workman	20.59, CH4- 0.4, CO-381.
		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
	4	being used at the Bany Town Fan was replaced at
		12:30. The 13 th modification to the 103K Order
		4642503 was issued at12:54 to allow refueling of the
	Timothjy	diesel operated exaust fans that are installed on the
4/7/2010 13:26	Workman	drilled bore holes.
	Timothjy	Bandy Branch Fan GC Sample reading at 9:00 were:
4/7/2010 13:33	Workman	O2 -20.73, CH4 -0.22, CO - 314 ppm.
	Timothjy	Bandy Branch Fan GC Sample reading at 10:00
4/7/2010 13:35	Workman	were: O2 -20.73, CH4 -0.2, CO - 280 ppm.
	Timothjy	Bore hole air readings at 12:00 : O2 - 15.5%, CO2
4/7/2010 13:39	Workman	9999, CH4 -4.0
		Bandy Branch Fan readings with hand held
	Timothy	equipment at 13:45 were recorded as: O2 - 20.79,
4/7/2010 13:51	Workman	CH4 - 0.3, CO - 266.
		The statement "CO2 " entered into the log at
	Timothy	13:39:34 was in error. The statement should read as
4/7/2010 13:57	Workman	"CO".
		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,
	Timothy	CO2 - 2.44%, C2H2 - 251ppm, C2H4 - 1001ppm,
4/7/2010 14:13		C2H6 - 300ppm.
		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 -
		· · · · · · · · · · · · · · · · · · ·
	Timothy	13169nnm CO2 - 2 29% C2H2 - 234nnm C2H4 -
4/7/2010 14:18	Timothy	13169ppm, CO2 - 2.29%, C2H2 - 234ppm, C2H4 - 935ppm, C2H6 - 200ppm.

		Deadings at the Para Halo comple legation 0 at
		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 -
	Timothy	12812ppm, CO2 - 2.17%, C2H2 - 219ppm, C2H4 -
4/7/2010 14:27	Workman	923ppm, C2H6 - 200ppm.
•		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%,
	Timothy	CO - 8077ppm, CO2 - 1.55%, C2H2 - 147ppm,
4/7/2010 14:33	Workman	C2H4 - 628ppm, C2H6 - 200ppm.
	•	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 -
	Timothy	12072ppm, CO2 - 2.03%, C2H2 - 205ppm, C2H4 -
4/7/2010 14:35		826ppm, C2H6 - 200ppm.
		14:30 #2 bore hole down 634 feet. Stoped to install
		duct work, to route the air away from the #1 bore
		hole. #3 bore hole down 310 feet. Stoped to pull
	Timothy	pipe, to put casing in. Doing dozer work for proposed
4/7/2010 14:40		#4 bore hole.
1772010 11:10	TTORKINGH	The air readings at the Bandy Town Fan, taken with
	Timothy	hand held equipment at 14:00. 02 - 20.74, CH4 - 0.3,
4/7/2010 14:43		CO - 249
4/1/2010 14:43	VVOIKIIIaii	Readings taken at the Bandy Town Fan taken with
	Timothy	hand held equipment at 14:15. 02 - 20.75, CH4 - 0.3,
4/7/2010 14:50		ICO - 246
4/1/2010 14:50	VVOIKIIIaii	Readings taken at the Bandy Town Fan taken with
	Timothy	hand held equipment at 14:30. 02 - 20.71, CH4 - 0.3,
4/7/2010 14:51		CO - 245
4/1/2010 14.51	VVOIKIIIaii	Readings taken at the Bandy Town Fan taken with
	Timothy	· · · · · · · · · · · · · · · · · · ·
4/7/2010 14:52		hand held equipment at 14:45. 02 - 20.68, CH4 - 0.3,
4///2010 14:52	vvoikillati	CO - 242 Call from Bob Cornett at Command Center.
	Charles	
4/7/0040 45:07	Charles	Problems with computers. Are working on correcting
4/7/2010 15:37	Carpenter	the problem to transmit information.
	Time adds :	readings taken at the Bandy Town Fan with hand
417/0040 45 00	Timothy	held equipment at 15:00 were as folloes: 02 - 20.73,
4/7/2010 15:38	vvorkman	CH4 - 0.4, CO - 267
	T. "	Readings taken at the Bandy Town Fan with hand
	Timothy	held detector at 15:30 were as follows: O2 - 20.70,
4/7/2010 15:41		CH4 - 0.3, CO - 254
	Timothy	Readings at the Bandy Town Fan recorded at 15:45
4/7/2010 15:55	Workman	were : O2 - 20.68, CH4 - 0.3, CO - 246
		Readings taken at the Bandy Town Fan with
		handheld detector at 16:00 were: O2 - 20.66, CH4 -
4/7/2010 16:18	Reba Crawford	0.3, CO - 243
		Readings taken at the Bandy Town Fan with
		handheld detector at 16:15 were O2 - 20.63, CH4 -
4/7/2010 16:20	Reba Crawford	0.3, CO - 239

	1	Deading taken of the Dead Town Co. 20
		Readings taken at the Bandy Town Fan with
41710040 40 4	I Dobo Constant	handheld detector at 16:30 were O2 -20.62, CH4 -
4///2010 16:44	Reba Crawford	0.3, CO - 232
		Readings taken at the Bandy Town Fan with
	<u> </u>	handheld detector at 16:45 were O2 - 20.60, CH4 -
4/7/2010 16:57	Reba Crawford	0.3, CO - 226
		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
	Charles	operators. No drill activity has reported, since the
4/7/2010 17:51	Carpenter	1430 report.
	1	Readings taken at the Bandy Town Fan with
		handheld detector at 17:00 were O2 - 20.54, CH4 -
4/7/2010 17:55	Reba Crawford	0.3, CO - 228
	1.10.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	Readings taken at the Bandy Town Fan with
		handheld detector at 17:15 were O2 - 20.60, CH4 -
4/7/2010 17:56	Reba Crawford	0.3, CO - 223
7/1/2010 17.30	Treba Grawioid	Readings taken at the Bandy Town Fan with
		handheld detector at 17:30 were O2 - 20.58, CH4 -
4/7/2010 17.5	Reba Crawford	1
4///2010 17.5/	Reba Clawlold	0.3, CO - 217
		Readings taken at the Bandy Town Fan with
4/7/0040 47.56		handheld detector at 17:45 were O2 - 20.58, CH4 -
4/7/2010 17:58	Reba Crawford	0.3, CO - 218
		Readings taken at the Bandy Town Fan with
		handheld detector at 18:00 were O2 - 20.53, CH4 -
4/7/2010 18:55	Reba Crawford	0.3, CO - 213
		Readings taken at the Bandy Town Fan with
		handheld detector at 18:15 were O2 - 20.46, CH4 -
4/7/2010 18:57	Reba Crawford	0.3, CO - 211
		Readings taken at the Bandy Town Fan with
		handheld detector at 18:30 were O2 - 20.46, CH4 -
4/7/2010 18:58	Reba Crawford	0.3, CO - 212
•		Readings taken at the Bandy Town Fan with
		handheld detector at 18:45 were O2 - 20.44, CH4 -
4/7/2010 18:59	Reba Crawford	0.3, CO - 213
		Per Bob Cornett at 1825. No. 2 borehole is at 704
		feet. No. 3 borehole is at 310 feet. Operator will
	Charles	procure casing for the #1 borehole to get an
4/7/2010 19:13		uncontaminated sample from the mine.
		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
4/7/2010 19:16	Grea Fetty	2.36%, and CO is 9090 ppm.
###Z010 10.10	Jordy City	Bandytown Bleeder Fan readings - 5:00 p.m. 02 is
		20.95 percent, Ch4 is 0.20 percent, and CO 226
AI7/2010 10:20	Grog Eath:	, , , , , , , , , , , , , , , , , , , ,
4/7/2010 19:20	Joiey Felly	ppm.
		Readings taken at the Bandy Town Fan with
	I	handheld detector at 19:00 were O2 - 20.44, CH4 -
4/3/004040		0.000
4/7/2010 19:56	Reba Crawford	0.3, CO - 206
4/7/2010 19:56	Reba Crawford	Readings taken at the Bandy Town Fan with
	Reba Crawford  Reba Crawford	<u>1 </u>

I		Doodings taken at the Bandy Town Con with
		Readings taken at the Bandy Town Fan with
4/7/0040 40 57	D-b-0- 1	handheld detector at 19:30 were O2 - 20.49, CH4 -
4/7/2010 19:57	Reba Crawford	0.3, CO - 196
		Readings taken at the Bandy Town Fan with
4770040 00 44	D . O	handheld detectors at 19:45 were O2 - 20.69, CH4 -
4/7/2010 20:41	Reba Crawford	0.3, CO - 213
		Readings taken at the Bandy Town Fan with
		handheld detector at 20:00 were O2 - 20.69, CH4 -
4/7/2010 20:43	Reba Crawford	0.3, CO - 208
		Readings taken at the Bandy Town Fan with
	-	handheld detector at 20:15 were O2 - 20.70, CH4 -
4/7/2010 20:45	Reba Crawford	0.3, CO - 204
		Readings taken at the Bandy Town Fan with
		handheld detector at 20:30 were O2 - 20.71, CH4 -
4/7/2010 20:46	Reba Crawford	0.3, CO - 203
		Readings taken at the Bandy Town Fan with
		handheld detector at 20:45 were O2 - 20.73, CH4 -
4/7/2010 21:16	Reba Crawford	0.3. CO - 194
		Readings taken at the Bandy Town Fan with
		handheld detector at 21:00 were O2 - 20.63, CH4 -
4/7/2010 21:24	Reba Crawford	0.3, CO - 185
		Readings taken at the Bandy Town Fan with
		handheld detector at 21:15 were O2 - 20.50, CH4 -
4/7/2010 21:55	Reba Crawford	0.3, CO - 194
		Readings taken at the Bandy Town Fan with
		handheld detector at 21:30 were O2 - 20.48, CH4 -
4/7/2010 21:56	Reba Crawford	0.3, CO - 192
		Readings taken at the Bandy Town Fan with
		handheld detector at 21:45 were O2 - 20.47, CH4 -
4/7/2010 22:05	Reba Crawford	0.3, CO - 197
		0.00 PM
		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.
4/7/0040 00:00	O	8:00 PM readings from the Borehole - O2 is 17.27
4/7/2010 23:03	Greg Fetty	%, Ch4 is 2.42%, and CO is 8914 ppm.
		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 approximatley 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
4/7/2010 23:06	O F-44	occured.

r- · · · · · · · · · · · · · · · · · · ·	
	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
4/7/2010 23:10 Greg Fetty	collecting samples.
	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
Charles	
Charles	borehole. They have discussed plans on reentry into
4/7/2010 23:44 Carpenter	the mine pending results of sampling.
	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
4/7/2010 23:45 Greg Fetty	been completed to the other sites.
	Readings taken at the Bandy Town Fan with
	handheld detector at 23:00 were O2 - 20.51, CH4 -
4/8/2010 0:25 Fred Wills	0.3, CO - 202
4/6/2010 0.25/11ed Wills	Readings taken at the Bandy Town Fan with
	, , , , , , , , , , , , , , , , , , ,
	handheld detector at 23:15 were O2 - 20.54, CH4 -
4/8/2010 0:26 Fred Wills	0.3, CO - 204
	Readings taken at the Bandy Town Fan with
	handheld detector at 23:30 were O2 - 20.54, CH4 -
4/8/2010 0:27 Fred Wills	0.3, CO 204
	Readings taken at the Bandy Town Fan with
	handheld detector at 23:45 were O2 - 20.54, CH4 -
4/8/2010 0:28 Fred Wills	0.3, CO - 204
	Readings taken at the Bandy Town Fan with
	handheld detector at 24:00 were O2 - 20:55, CH4 -
4/8/2010 0:29 Fred Wills	0.3, CO - 202
47072010 0.2011 Ted \$\$\$\text{\$\ext{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texitt{\$\texitt{\$\texitt{\$\texittit{\$\texitt{\$\texitt{\$\texitt{\$\texittit{\$\texitt{\$\texititt{\$\texit{\$\texitititt{\$\texititit{\$\texitt{\$\texitt{\$\texitt{\$\texittit{\$\texitt{\$\t	Readings taken at the Bandy Town Fan with
	handheld detector at 0015 were 20:55, - Ch4 0.3,
4/9/2010 0:46 Fred Wille	
4/8/2010 0:46 Fred Wills	CO 204.
	Readings taken at the Bandy Town Fan with
	handheld detector at 0030 were O2 - 20:55, Ch4 0.3,
4/8/2010 0:48 Fred Wills	CO 204
	MSHA personnel on site 2400 hrs are, District 4 has
	6 people, Tech Support 5 people, Pier has 1 and
4/8/2010 0:50 Fred Wills	MEO has 4.
	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
4/0/0040 0 55/5 - 1345/	2, hole 4, casing, down 320'. Site 3, hole 5 casing.
4/8/2010 0:55 Fred Wills	All siesmic holes ready.

	Sample Location 9, Bore hole No 1 readings at 2100 hrs are H2 PPM 6697, O2 17.25, N2 76.20, Ch4
4/8/2010 1:38 Fred Wills	2,46, CO 9041, CO2 1.51, C2H2 149, C2H4 640, C2H6 200, Ar 0.91
	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,
4/8/2010 1:46 Fred Wills	Ar 0.91
	Commission of Boardale #4 and its 10000
	Sample location 9, Bore Hole #1 readings at 2200
4/8/2010 1:50 Fred Wills	H2 6562, O2 17.35, N2 76.20, Ch4 2.45, CO 8695, CO2 1.48, C2H2 167, C2H4 616, C2H6 200, Ar 91.
4/6/2010 1.50 Fred Wills	CO2 1.46, C2H2 167, C2H4 616, C2H6 200, AF91.
	Sample location 9, Bore hole #1 readings at 2230
1	hrs are H2 5683, O2 17.93, N2 76.49, Ch4 2.07, CO
4/8/2010 1:54 Fred Wills	7104, CO2 1.24, C2H4 513, C2H6 100, Ar 0.92
TO ZO TO T.O TITUE VVIIIS	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
4/8/2010 1:58 Fred Wills	0.91
	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
4/8/2010 1:58 Fred Wills	0.91
	Bleeder Fan readings at 2000 hrs are H2 118, O2
	20.95, N2 77.84, Ch4 0.20, CO 215, CO2 0.11,
4/8/2010 2:00 Fred Wills	C2H2 3, C2H4 11, C2H6 67, Ar 0.68
	Bleeder Fan readings at 2100 hrs are H2 113, O2
	20.95, N2 77.84, Ch4 0.19, CO 208, Co2 0.10, C2H2
4/8/2010 2:03 Fred Wills	3, C2H4 11, C2H6 66, Ar 0.67
	Bleeder Fan reading at 2200 are H2 108, O2 20.95,
4/0/2040 0 05	N2 77.92, Ch4 0.19, CO 199, CO2 0.10, C2H2 3,
4/8/2010 2:05 Fred Wills	C2H4 10, C2H6 65, Ar 0.58
	Readings taken at the Bandy Town Fan with
4/9/2040 2:20 Frod Man-	handheld detector at 0045, O2 20.55, Chr 0.3, CO
4/8/2010 2:29 Fred Wills	204 Readings taken at the Bandy Town Fan with
	handheld detector at 0100 hrs are O2 20.55, Chr
4/8/2010 2:30 Fred Wills	0.3, CO 198
110.2010 2.0011100 11110	Readings taken at the Bandy Town Fan with
	handheld detector at 0115, O2 20.55, Ch4 0.3, CO
4/8/2010 2:31 Fred Wills	199
	Readings taken at the Bandy Town Fan with
	handheld detector at 0130 O2 20.54, Ch4 0.3, CO
4/8/2010 2:32 Fred Wills	196.
	Readings taken at the Bandy Town Fan with
	handheld detector at 0145, O2 20.54, CH4 0.3, CO
4/8/2010 2:33 Fred Wills	193.
	Readings taken at the Bandy Town Fan with
	handheld detector at 0200 hrs O2 20.53, Ch4 0.2,
4/8/2010 2:34 Fred Wills	CO 191.

		O I I I' O D II I'' (0400)
		Sample location 9, Bore Hole #1 at 2130 hrs,
		reading are H2 6564, O2 17.30, N2 76.17, Ch4 2.46,
4/0/0040 0 405	1 4 211	CO 8737, CO2 1.53, C2H2 144, C2H4 603, C2H6
4/8/2010 2:42 Fred	VVIIIS	200, Ar 0.91
		Sample location 0. Pero Hele #1 at 2200 hrs. H2
		Sample location 9, Bore Hole #1 at 2200 hrs. H2
4/0/0040 0:45 5:	3 A 2 II -	6562, O2 17.35, N2 76.20, Ch4 2.45, CO 8695, CO
4/8/2010 2:45 Fred	VVIIIS	1.48, C2H2 167, C2H4 616, C2H6 200, Ar 0.91
		Sample location 9 Bore Hole #1 at 2230 hrs. H2
		5683, O2 17.93, N2 76.49, Ch4 2.07, CO 7104, CO2
4/9/2010 2:49 [	\A/illo	· · · · · · · · · · · · · · · · · · ·
4/8/2010 2:48 Fred	VVIIIS	1.24, C2H2 127, C2H4 513, C2H6 200, Ar 0.92
		Sample location 9, Bore Hole #1 at 2300 hrs. H2
		6107, O2 17.65, N2 76.31, Ch4 2.29, CO 7912, CO2
4/8/2010 2:50 Fred	\Λ/ille	1.35, C2H2 140, C2H4 559, H2H6 200, Ar 0.91
4/6/2010 2.50 Fled	VVIIIO	1.33, OZITZ 140, OZIT4 339, FIZITO 200, AI 0.91
		Sample location 9, Bore Hole #1 at 00.30 hrs. H2
		6672, O2 17.08, N2 75.99, Ch4 2,73, CO 9442, CO2
4/8/2010 2:53 Fred	\Λ/ille	1.59, C2H2 183, C2H4 641, C2H6 100, Ar 0.91
7/0/2010 2.33 FIEU	VVIIIO	1.00, OZITZ 100, OZITZ 071, OZITO 100, AL 0.91
		Sample location 9, Bore Hole #1, at 0.00 hrs, H2
		5016, O2 18.32, N2 76.66, Ch4 1.84, CO 6291, CO2
4/8/2010 2:55 Fred	\\/ille	1.07, C2H2 77, C2H4 434, C2H6 100, Ar 0.02
4/6/2010 2:55 Fled	VVIII2	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, C2H2 183, C2H4
4/8/2010 2:59 Fred	\//ille	641, C2H6 100, Ar 0.91
4/6/2010 2:331160	VVIIIS	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,
4/8/2010 3:05 Fred	\//ille	Ar 0.92
4/6/2010 3:031 Ted	VVIIIS	Readings taken at the Bandy Town Fan with
		handheld detector at 0245, O2 20.52, Ch4 0.2, CO
1		
4/8/2010 3:57 Fred	Wills	
4/8/2010 3:57 Fred	Wills	184
4/8/2010 3:57 Fred	Wills	184 Readings taken at the Bandy Town Fan with
		184 Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO
4/8/2010 3:57 Fred 4/8/2010 3:59 Fred		184 Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.
4/8/2010 3:59 Fred	Wills	184 Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190. Readings taken at the Bandy Town Fan with
	Wills	184 Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190. Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.
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.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with
4/8/2010 3:59 Fred 4/8/2010 4:01 Fred	Wills Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO
4/8/2010 3:59 Fred	Wills Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO 186.
4/8/2010 3:59 Fred 4/8/2010 4:01 Fred	Wills Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO 186.  Readings taken at the Bandy Town Fan with
4/8/2010 3:59 Fred 4/8/2010 4:01 Fred 4/8/2010 4:03 Fred	Wills Wills Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO 186.  Readings taken at the Bandy Town Fan with handheld detector at 0315. O2 20.52, Ch4 0.2, CO
4/8/2010 3:59 Fred 4/8/2010 4:01 Fred	Wills Wills Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO 186.  Readings taken at the Bandy Town Fan with handheld detector at 0315. O2 20.52, Ch4 0.2, CO 183.
4/8/2010 3:59 Fred 4/8/2010 4:01 Fred 4/8/2010 4:03 Fred	Wills Wills Wills	Readings taken at the Bandy Town Fan with handheld detector at 0215, O2 20.53, Ch4 0.2, CO 190.  Readings taken at the Bandy Town Fan with handheld detector at 0230, Ch4 0.2, CO 188.  Readings taken at the Bandy Town Fan with handheld detector at 0300, O2 20.52, Ch4 0.2, CO 186.  Readings taken at the Bandy Town Fan with handheld detector at 0315. O2 20.52, Ch4 0.2, CO

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.  Readings taken at the Bandy Town Fan with
4/8/2010 4:48	Fred Wills	handheld detector at 0345, O2 20.50, Ch4 0.2, CO 178.  Readings taken at the Bandy Town Fan with
4/8/2010 4:49	Fred Wills	handheld detector at 0400, O2 20.50, Ch4 0.2, CO 177.  Readings taken at the Bandy Town Fan with
4/8/2010 4:49	Fred Wills	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. Sample location 3, BH 1, bottom at 0300 hrs. H2
4/8/2010 4:56	Fred Wills	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.  Bleeder Fan at 0.00. H2 101, O2 20.95, N2 78.11,
4/8/2010 5:05	Fred Wills	Ch4 0.18, CO 191, CO2 0.10, C2H4 3, C2H4 10, C2H6 64, Ar 0.34.  Bleeder Fan at 0100. H2 97, O2 20.95, N2 78.14,
4/8/2010 5:07	Fred Wills	Ch4 0.18, CO 185, CO2 0.10, C2H2 2, C2H4 9, C2H6 63, Ar 0.31.  Bleeder Fan at 0200. H2 93, O2 20.95, N2 78.18,
4/8/2010 5:10	Fred Wills	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.

<u> </u>	1	
		Sample location 3, BH 1 Bottom at 0200 hrs 7178,
		O2 16.85, N2 75.76, Ch4 3.00, CO 10209, CO2
4/8/2010 5:25	Fred Wills	1.64, C2H2 162, C2H4 725, C2H6 200, Ar 0.91
		Sample location 3, BH 1, Bottom at 0230 hrs. H2
i i		6734, O2 17.10, N2 75.89, Ch4 2.84, CO 9353, CO2
4/8/2010 5:27	Fred Wills	1.55, C2H2 164, C2H4 649, C2H6 200, Ar 0.91
		Sample Location 3, BH 1 bottom, at 0300 hrs. H2
		6342, O2 17.45, N2 76.04, Ch4 2.62, CO2 1.42,
4/8/2010 5:29	Fred Wills	C2H2 149, C2h4 588, c2h5 200, aR 0.91
		sAMPLE LOCATION 3, bh 1, BOTTOM AT 0100. h2
		8294, o2 16.28, n2 75.46, cH4 3.35, co 11905, co2
4/8/2010 5:33	Fred Wills	1.86, c2h2 177, c2h4 830, c2h6, Ar 0.91
		Readings taken at the Bandy Town Fan with
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		handheld detector at 0430. O2 20.50, Ch4 0.2, CO
4/8/2010 6:04	Fred Wills	170.
		Readings taken at the Bandy Town Fan with
4/0/0040 0 05	F	handheld detector at 0445. O2 20.50, Ch3 0.2, CO
4/8/2010 6:05	rea vvills	168.
· ·		Four (4) MINE DECLICE TEAMO UNDEDODOUND
		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
4/8/2010 7:01	Erod Millo	are now traveling in by 12 breaks to a phone. This information was obtained at 0700 hrs.
4/0/2010 7.01	i ieu vvilis	Readings taken at the Bandy Town Fan with
		handheld detector at 0500 hrs, O2 20.51, Ch4 0.2,
4/8/2010 7:08	Fred Wills	CO 165.
7/0/2010 1.00	I ICG VVIIIS	Readings taken at the Bandy Town Fan with
		handheld detector at 0515 hrs. O2 20.50, Ch4 0.2,
4/8/2010 7:09	Fred Wills	CO 164.
1.6.25 10 1.00		Readings taken at the Bandy Town Fan with
		handheld detector at 0530 hrs. O2 20.48, Ch4 0.2,
4/8/2010 7:10	Fred Wills	CO 166
		Readings taken at the Bandy Town Fan with
		handheld detector at 0545 hrs, O2 20.47, Ch4 0.2,
4/8/2010 7:13	Fred Wills	CO 163
	1	Readings taken at the Bandy Town Fan with
		handheld detector at 0600. O2 20.46, Ch4 0.2, CO
4/8/2010 7:14	Fred Wills	163.
·		Readings taken at the Bandy Town Fan with
		handheld detector at 0615. O2 20.46, Ch4 0.2, CO
4/8/2010 7:16	Fred Wills	162
	•	Readings taken at the Bandy Town Fan with
		handheld detector at 0630. O2 20.46, Ch4 0.2, CO
4/8/2010 7:17	Fred Wills	160
		Readings taken at the Bandy Town Fan with
		handheld detector at 0645. O2 20.46, Ch4 0.2, CO
4/8/2010 7:18	Fred Wills	158

	Readings taken at the Bandy Town Fan with
	handheld detector at 0700 hrs. O2 20.47, Ch4 0.2,
4/8/2010 7:19 Fred Wills	CO 156.
Timothy	Readings taken at Bandy Town Fan at 07:15 a.m.,
4/8/2010 7:59 Workman	O2 - 20.47%, CH4 - 0.2, CO - 156
Timothy	Readings taken at Bandy Town Fan at 07:30 a.m.
4/8/2010 8:10 Workman	O2 - 20.58, CH4 - 0.2, CO - 154
Timothy	Readings taken at Bandy Town Fan at 07:45 a.m.
4/8/2010 8:11 Workman	O2 - 20.58, CH4 - 0.2, CO - 151
Timothy	Readings taken at Bandy Town Fan at 08:00 a.m.
4/8/2010 8:36 Workman	O2 - 20.59, CH4 - 0.2, CO - 149
Timothy	Readings taken at Bandy Town Fan at 08:15 a.m.
4/8/2010 8:38 Workman	O2 - 20.58, CH4 - 0.2, CO - 150
Timothy	Working to move fresh air base to just outby long
4/8/2010 8:39 Workman	wall face.
Timothy	Train 1400.
4/8/2010 8:44 Workman	Stringing phone line from switch up to face area.
-7.072010 0.77 WORMING!	Plan to have team travel face, and then other team
Timothy	plans to move fresh air base to Head Gate 22 cross
4/8/2010 8:47 Workman	over
4/6/2010 6.47 VVOIKITIATI	Plan to have team travel face, and then other team
Timothy	i '
Timothy	plans to move fresh air base to Head Gate 22 cross
4/8/2010 8:48 Workman	over
Timothy	Readings taken at Bandy Town Fan at 08:30 a.m.
4/8/2010 9:01 Workman	O2 - 20.58, CH4 - 0.2, CO - 148
Timothy	Readings taken at Bandy Town Fan at 08:45 a.m.
4/8/2010 9:02 Workman	O2 - 20.58, CH4 - 0.2, CO - 147
<u></u>	Mine rescue team still in the process of establishing
Timothy	fresh air base outby long wall face to explore
4/8/2010 9:33 Workman	faceline.
Timothy	Readings taken at Bandy Town Fan at 09:00 a.m.
4/8/2010 9:35 Workman	O2 - 20.56, CH4 - 0.2, CO - 147
Timothy	Readings taken at Bandy Town Fan at 07:30 a.m.
4/8/2010 9:36 Workman	O2 - 20.53, CH4 - 0.2, CO - 152
1	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-
Timothy	Kingston-WV, 9 team members onsite; Alpha- Cobra
4/8/2010 9:51 Workman	Natural Resources, 6 team members onsite.
Timothy	Explosive mixture and 5% CH4 found at bore hole.
4/8/2010 9:53 Workman	Teams instructed to withdrawl.
	Mine rescue member (Jimmy) called out from the
	location 2 breaks inby fresh air base. Cris Adkins
Timothy	informed him to get out. Team was at survey spad
4/8/2010 9:56 Workman	#22656.
Timothy	Readings taken at Bandy Town Fan at 9:15 were:
ı *	·
4/8/2010 10:19 Workman	O2 - 20.53, CH4 - 0.2, CO - 152

	Timothy	Readings taken at Bandy Town Fan at 9:30 were:
4/8/2010 10:20		O2 - 20.66, CH4 - 0.2, CO - 146
4/6/2010 10.20		
4/0/2010 10:21	Timothy	Readings taken at Bandy Town Fan at 9:45 were:
4/8/2010 10:21		O2 - 20.76, CH4 - 0.2, CO - 132
1/0/00/10 10 00	Timothy	Readings taken at Bandy Town Fan at 10:00 a.m.
4/8/2010 10:22	VVorkman	were: O2 - 20.74, CH4 - 0.2, CO - 120
		At 9:44 a.m., Mine rescue teams are at the mouth of
	Timothy	the longwall traveling to break 78. Stated they will
4/8/2010 10:24		call out at break 78.
	Timothy	
4/8/2010 10:26		Bore Hole #2 at 1030 feet.
	Timothy	
4/8/2010 10:27	Workman	Bore Hole #3 at 90 feet.
	Timothy	Bore Hole #4 at 1150 feet, and stopped due to
4/8/2010 10:29	Workman	persons underground.
		The 04/08/2010 9:53:37 entry was in error. The total
	Timothy	cumbustibles were over 5%. The CH4 at last sample
4/8/2010 10:43		was 3.8%
	Timothy	10:07 a.m. team called out from break 78, teams are
4/8/2010 10:59		on mantrip traveling to surface.
	Timothy	
4/8/2010 11:00		Teams are outside at 10:55
17072010 11:00	Timothy	Bandy Town Fan at 10:45 a. m O2-20.63, CH4-
4/8/2010 11:02		0.3, CO-110
4/0/2010 11:02	VVOIKIIIAII	Sample location 3, BH-1 Bottom, at 7:30 a.m. on
		04/08/10 : H2 - 7485, O2-16.34, N2-75.11, CH4-
	Timothy	3.82, CO- 11359, CO2- 1.84, C2H2-144, C2H4- 758,
4/8/2010 11:09	,	C2H6- 200, Ar -0.90
4/8/2010 11:09	VVOIKIIIaii	Sample location 3, BH-1 Bottom, at 8:00 a.m. on
		04/08/10 : H2 - 7408, O2-16.39, N2-75.13, CH4-
4/0/0040 44 40	Timothy	3.81, CO- 11248, CO2- 1.79, C2H2-198, C2H4- 750,
4/8/2010 11:12	vvorkman	C2H6- 200, Ar -0.90
		Sample location 3, BH Bottom, at 9:00 a.m. on
	<b>_</b>	04/08/10 : H2 - 7112, O2-16.48, N2-75.14, CH4-
	Timothy	3.84, CO- 10838, CO2- 1.74, C2H2-161, C2H4- 699,
4/8/2010 11:16	Workman	C2H6- 200, Ar - 0.90
		Sample location, BH Bottom, at 9:30 a.m. on
		04/08/10 : H2 - 8575, O2-16.84, N2-75.19, CH4-
	Timothy	3.76, CO- 10100, CO2- 1.62, C2H2-180, C2H4- 718,
4/8/2010 11:38	Workman	C2H6- 196, Ar -0.62, Raw Total 97.89
·	1	Sample location, BH Bottom, at 10:00 a.m. on
		04/08/10 : H2 - 8274, O2-17.00, N2-75.30, CH4-
	Timothy	3.71, CO- 9630, CO2- 1.57, C2H2-175, C2H4- 694,
4/8/2010 11:41	Workman	C2H6- 190, Ar -0.52, Raw Total 97.58
		Sample location, BH Bottom, at 10:30 a.m. on
		04/08/10 : H2 - 8279, O2-16.98, N2-75.21, CH4-
	Timothy	3.76, CO- 9700, CO2- 1.57, C2H2-175, C2H4- 695,
4/8/2010 11:44		C2H6- 190, Ar -0.59, Raw Total 97.89
	Timothy	Bandy Town Fan readings at 11:00 were: O2- 20.60,
4/8/2010 11:57		CH4- 0.3, CO- 106
	Timothy	Bandy Town Fan readings at 11:15 were: O2- 20.54,
1		
4/8/2010 11:58	IVVorkman	CH4- 0.3, CO- 103

<del></del>	Timothy	Bandy Town Fan readings at 11:30 were: O2- 20.50,
4/8/2010 11:58		CH4- 0.3, CO- 105
4/0/2010 11.30	Timothy	Informed at command center that hole #2 went
4/8/2010 12:07	_	
4/0/2010 12.07		through.  Bandy Town Fan readings at 11:45 were: O2- 20.50,
4/8/2010 12:26	Timothy	
4/0/2010 12.20	<del> </del>	CH4- 0.3, CO- 101 Bandy Town Fan readings at 12:00 were: O2- 20.53,
4/0/2010 12:27	Timothy	, ,
4/8/2010 12:27		CH4- 0.3, CO- 100
4/0/2040 40:20	Timothy	Bandy Town Fan readings at 12:15 were: O2- 20.40,
4/8/2010 12:28		CH4- 0.3, CO- 101
4/0/0040 40:00	Timothy	At 12:01. Drill at location of hole 8-A at Burning
4/8/2010 13:06	vvorkman	Ridge informed to move to hole 8-B
		We received a call from Champio (a refuse
		We received a call from ChemBio (a refuge
		alternative manufacturer) and they offered the use of
1/0/0010 10 10		their 1250 CFM blower if needed for the rescue
4/8/2010 13:10	John Hendley	operations. They are located in Beaver WV and the
	L	At 12:01, C.J. Drilling at site 2 was informed to move
	Timothy	to site 3, hole UBB-5B. At time of move, hole at site
4/8/2010 13:11	Workman	3 was 150 feet from cutting through.
		At 12:01, C.J. Drilling at site 1, hole 3 was informed
	Timothy	to move to location of holes UBB-10A and UBB-7.
4/8/2010 13:13		Move in progress.
	Timothy	
4/8/2010 13:14	Workman	At 12:01, all drills moving to new locations.
		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
	Timothy	feet. This location is the same elevation as bore hole
4/8/2010 13:19	Workman	1 and 2.
	Timothy	Bandy Town Fan Air reading at 12:30. O2- 20.35,
4/8/2010 13:24	Workman	CH4- 0.3, CO- 105
	Timothy	Bandy Town Fan readings at 12:45 were: O2- 20.36,
4/8/2010 13:25	· -	CH4- 0.3, CO- 112
		Sample location, BH Bottom, at 11:00 a.m. on
		04/08/10 : H2 - 8061, O2-17.01, N2-75.14, CH4-
	Timothy	3.74, CO- 9615, CO2- 1.54, C2H2-172, C2H4- 683,
4/8/2010 13:29	Workman	C2H6- 188, Ar -0.69, Raw Total 97.58
	<del></del>	Sample location, BH Bottom, at 11:30 a.m. on
		04/08/10 : H2 - 6896, O2-17.60, N2-75.46, CH4-
	Timothy	3.37, CO- 8229, CO2- 1.34, C2H2-149, C2H4- 590,
4/8/2010 13:32	•	C2H6- 162, Ar -0.63, Raw Total 97.45
	Timothy	Bandy Town Fan at 13:15. O2-20.3, CH4- 0.2, CO-
4/8/2010 13:44	,	112
17012010 10.77	Timothy	Bandy Town Fan at 13:15. O2-20.3, CH4- 0.2, CO-
4/8/2010 13:45		1112
7/0/2010 10.40	Timothy	Bandy Town Fan at 13:30. O2-20.43, CH4- 0.2, CO-
4/8/2010 13:48		125
4/0/2010 13.40	VVOINIIIdii	At 12:45, The drill is in location at hole UBB-7/10A.
	Timothy	
A1010040 44:04	Timothy	The drill has drilled to a depth of 10 feet at this
4/8/2010 14:04	rvorkman	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		Bandytown Readings @ 1345 hours - 02 is 20.43, Ch4 is 0.2 and CO is 125 ppm (all readings taken with a handheld). At 1400 horus, 02 is 20.47, Ch4 is 0.2 and CO is 123 ppm. At 1415hours, the 02 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.
4/0/2010 14.50	Greg Felly	Ippin.
4/0/0040 45 00	0 5 "	Bandy Town Fan readings at 14:45 were: O2- 20.67, CH4- 0.2, CO- 112; Bandy Town Fan readings at
4/8/2010 15:09	Timothy	15:00 were: O2- 20.63, CH4- 0.2, CO- 114 At 14:55. Drilling has not started at drill hole 8-B, due
4/8/2010 15:17	•	to weather.
4/0/2010 13:17	Timothy	At 15:15. The UBB10A Hole has been drilled to a
4/8/2010 15:36	•	depth of 115 Feet.
47672010 10.00	Timothy	At 15:42. The drill hole at the refuge chamber has
4/8/2010 15:45	•	drilled to a depth of 200 feet.
	Timothy	At 15:42, the fan being installed on the second bore
4/8/2010 15:50		hole became operational at 15:20.
	Timothy	At 15:45. Drill that will drill monitoring hole is moving.
4/8/2010 15:53	Workman	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
4/0/2010 10:02	VVOINHAII	Hole 10A - the hole being installed over the Rescue
		Chamber is 200' deep. The drill rig in tailgate 22 is
4/8/2010 16:37	Fetty	ready to begin drilling operations.
	······································	
		Site 1, Hole 3 - steel is stopped up. Drilling stopped.
		Fans are running on holes 1 & 2. A drill rig has been
4/8/2010 17:00	Fetty	moved to hole 5B and should begin drilling shortly.

	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 reatings 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,
4/8/2010 17:34 Fetty	CO- 111
	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
4/8/2010 17:47 Fetty	hasn't made it to the site.
	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 reatings 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
4/8/2010 19:00 Fetty	readings at 18:30 were: O2- 20.8, CH4- 0.2, CO- 95
	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
4/8/2010 19:16 Fetty	not drilling.
	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
4/8/2010 19:35 Fetty	is still waiting to start, pending delivery of supplies.
	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 -
4/8/2010 19:41 Fetty	3.68, CO is 7800 ppm;
	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.
4/8/2010 20:38 Fetty	The road is being repaired and ballasted.
	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
1	3.66, CO is 7230; 8:00 p.m. 17.55 O2, 3.64 Ch4,
4/8/2010 22:13 Fetty	7145 ppm CO

4/9/2010 1:32	Kevin Lyall	face, proceeding to FAB at Muel Train on the long wall.
		Mine Rescue teams has arrived at Break 78, bare
4/9/2010 1:30	Kevin Lyall	road condition. BH-12 not started rig in bad location could not get drill steel. BH- 5B 270 ft and drilling
		BH- 3 no drilling 80 ft and holding dust system is down. BH-10A 400 ft adding casing, delay due to
4/9/2010 1:25	Kevin Lvall	Two (2) mine rescue teams entered mine at 24:40
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 1:15	Kevin Lyall	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.
		Readings taken at the BH-1 with handheld detector at O2 - 20.90, Ch4 - 0.2, CO 87 ppm at 23:30. O2 -
4/9/2010 0:55	Kevin Lyall	3.52, CO is 6188 ppm
		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 -
		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
4/9/2010 0:28	Fred Wills	guarding mine records at the main office.
		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,
		Support, Ed Hendrick is taking notes in the command center of event occuring underground
		transporting gas samples from Bandy Fan to Tech
		MSHA Personnel presently at mine site. Joe Athey is monitoring drill site, Bill Bane is the runner,
4/8/2010 23:49	Fetty	drilling within an hour or two.
4/8/2010 22:44	Fetty	changes to report.  Hole 5B is down 80' and drilling. Hole 12 should start
		being removed to install the casing. No other
		Hole 10A is drilled to a depth of 400'. The steel is

4/9/2010 1:52	Kavin I vall	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		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; CH4- 0.2
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

		BH 1 Bottom at 24:15 O2 17 96 Ch4 3 60 CO :-
		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
}		1 '' '
İ		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
4/9/2010 2:44	Kevin Lyall	18.01, Ch4 - 3.47, CO is 5921 ppm.
		BH-1 Bottom at 2:00 O2 - 17.99, Ch4 - 3.55, CO is
4/9/2010 3:07	Kevin Lyall	5860 ppm,
		Hole #3, 98 ft drilling; Hole #10-A, 400 ft ready to
		drill; Hole #5, MSHA sampling hole 545 ft not drilling;
4/9/2010 3:17	Kevin Lyall	Hole #12, 86 ft not drilling.
		BH-1 Bottom at 1:45 O2 - 17.98, Ch4 - 3.55, CO is
4/9/2010 3:20	Kevin Lyall	5911 ppm,
		BH-1 Bottom at 02:30 O2 - 18.26, Ch4 - 3.25, CO is
4/9/2010 3:42	Kevin I vall	5307 ppm,
0.012010 0.42		BH-1 Bottom at 2:15 O2 - 18.02, Ch4 - 3.56, CO is
4/9/2010 3:47	Kevin Lvall	5772 ppm,
7/3/2010 3.47	Noviii Lyaii	3:15; Mine rescue team at fresh air base Longwall
4/0/0040 0:54	IZ	stage loader, traveling inby from there. 0.00% Ch4,
4/9/2010 3:51	Kevin Lyaii	20.8% O2, Co 0 ppm
		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
4/9/2010 4:01	Kevin Lyall	at 03:30 were: O2- 20.81, CH4- 0.2, CO 83;
		BH-1 Bottom at 03:00 O2 - 18.06, Ch4 - 3.54, CO is
4/9/2010 4:07	Kevin Lyall	5680 ppm,
		BH-1 Bottom at 02:45 O2 - 18.04, Ch4 - 3.56, CO is
4/9/2010 4:24	Kevin Lyall	5734 ppm,
		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
4/9/2010 4:39	Kevin Lvall	water trucks on the road
4/9/2010 4:40		04:45: Hole #12, 103 ft and drilling
4/3/2010 4.40	Nevili Lyali	
		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-
4/9/2010 4:50	Kevin Lyall	0.2, CO 85;
		04:30: Mine rescue team examined rescue chamber
		inby Longwall, was not deployed. Team traveling
		toward cut through, in cut through detected CO 940
4/9/2010 4:56	Kevin I vall	ppm,and smoke, Team pulled from mine.
7/3/2010 7.00	TOTHI LYUN	BH-1 Bottom at 03:30 O2 - 18.10, Ch4 - 3.52, CO is
I		
4/9/2010 4:57	Kovin Lyoll	5645 ppm,

	1	DIL 4 Dattern at 02:45 02 40 00 Ch4 2 54 00 in
		BH-1 Bottom at 03:15 O2 - 18.09, Ch4 - 3.54, CO is
1/0/2010 5 10/1/		5619 ppm, BH-1 Bottom at 04:00 O2 - 18.18, Ch4 -
4/9/2010 5:16 Ke		3.47, CO is 5411 ppm,
1		BH-1 Bottom at 04:30 O2 - 18.14, Ch4 - 3.54, CO is
4/9/2010 5:33 Ke		5457 ppm,
		BH-1 Bottom at 04:15 O2 - 18.26, Ch4 - 3.37, CO is
4/9/2010 5:49 Ke		5183 ppm,
		06:05: Hole #3, 396 ft drilling; Hole #10-A, 555 ft
		drilling; Hole #5, MSHA sampling hole, 545 ft not
4/9/2010 6:04 Ke	evin Lyall	drilling; Hole #12, stopped drilling.
		BH-1 Bottom at 05:00 O2 - 18.15, Ch4 - 3.54, CO is
4/9/2010 6:06 Ke	evin Lyall	5473 ppm,
		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,
4/0/2010 6:16 K		· ·
4/9/2010 6:16 Ke		CH4- 0.2, CO 74;
1/0/0010 0 001/		BH-1 Bottom at 04:45 O2 - 18.17, Ch4 - 3.56, CO is
4/9/2010 6:23 Ke		5441 ppm,
4/9/2010 6:45 Ke		06:12: Mine rescue teams are on the surface.
		BH-1 Bottom at 05:30 O2 - 18.20, Ch4 - 3.54, CO is
4/9/2010 6:48 Ke		5319 ppm,
		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
4/9/2010 7:17 Ke		Hole #8.
		Bottle sample taken underground in the smoke area:
4/9/2010 7:23 Ke	evin Lyall	O2 20.74, CH4 0.16, CO 260 ppm.
		04/09/2010 at 5:30. BH-1 Bottm H2 - 4800ppm; O2
1		- 18.20%; N2 - 75.35%; CH4 - 3.54%; CO -
ļ ļTi	imothy	5319ppm; CO2 - 0.94%; C2H2 - 101ppm; C2H4 -
4/9/2010 7:44 W		387ppm; C2H6 - 100ppm; Ar 0.90;
		04/09/2010 at 6:00 a. m BH-1 Bottm H2 -
<b> </b>		4505ppm; O2 - 18.26%; N2 - 75.41%; CH4 - 3.48%;
		CO - 5224ppm; CO2 - 0.92%; C2H2 - 107ppm;
4/9/2010 7:50 W	•	C2H4 - 379ppm; C2H6 - 100ppm; Ar 0.90
-1,0,2010 1.00 00	- United the second	од от оррин, од по тооррин, и одо
[ ]		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
		, , ,
I I	- 1	AMOUNT ); C2H4 - ( NO DETECTIBLE AMOUNT );
4/9/2010 7:56 W		C2H6 - ( NO DETECTIBLE AMOUNT ); Ar 0.93
I I		Time 8:20 . Hole #3 at a depth of 396 feet. ( not
4/9/2010 8:27 W		drilling, working on drill)
1		Time 8:20 . Hole #10A at a depth of 780 feet. (
4/9/2010 8:29 W	Vorkman	Drilling )

	Timesthy	Time 9:20. Hele #ED at a doubt of 44E feet /
4/0/2010 8:20	Timothy	Time 8:20 . Hole #5B at a depth of 445 feet. ( not
4/9/2010 8:30		drilling, installing casing)
4/0/2010 0:21	Timothy	Time 8:20 . Hole #12 at tail gate. ( stopped drilling,
4/9/2010 8:31		drill is changing location)
4/0/0040 0.04	Timothy	Bandy Town Fan air reading. At 06:00. O2 - 20.98;
4/9/2010 8:34		CH4 - 0.2; CO - 72
4/0/0040 0.05	Timothy	Bandy Town Fan air reading. At 06:15. O2 - 20.97;
4/9/2010 8:35		CH4 - 0.2; CO - 71
4/0/0040 0:35	Timothy	Bandy Town Fan air reading. At 06:30. O2 - 20.97;
4/9/2010 8:35		CH4 - 0.2; CO - 70
4/0/2040 0:20	Timothy	Bandy Town Fan air reading. At 06:45. O2 - 20.98;
4/9/2010 8:36		CH4 - 0.2; CO - 68
4/0/2040 0:27	Timothy	Bandy Town Fan air reading. At 07:00. O2 - 20.98;
4/9/2010 8:37		CH4 - 0.2; CO - 65
4/0/0040 0:30	Timothy	Bandy Town Fan air reading. At 07:15. O2 - 21.00;
4/9/2010 8:38		CH4 - 0.2; CO - 63
4/0/0040-0:40	Timothy	Bandy Town Fan air reading. At 07:30. O2 - 20.99;
4/9/2010 8:40		CH4 - 0.2; CO - 59
4/0/0040 0:44	Timothy	Bandy Town Fan air reading. At 07:45. O2 - 21.00;
4/9/2010 8:41		CH4 - 0.2; CO - 57
4/0/2040 0:42	Timothy	Bandy Town Fan air reading. At 08:00. O2 - 20.99;
4/9/2010 8:42		CH4 - 0.2; CO - 54
4/0/2040 0:40	Timothy	Bandy Town Fan air reading. At 08:15. O2 - 20.98;
4/9/2010 8:43		CH4 - 0.2; CO - 55
4/0/2040 0:42	Timothy	Bandy Town Fan air reading. At 08:30. O2 - 20.98;
4/9/2010 8:43	vvorkman	CH4 - 0.2; CO - 56
	Tim othy	log entry dated 04/09/2010 07:56:05 (Smoke AREA)
4/9/2010 8:51	Timothy	This is the sample results of bottle sample taken by
4/9/2010 8.51		mine rescue team. Sampling is completed at bore hole #1. Fan has
4/9/2010 9:08	Timothy	l : = :
4/9/2010 9.06	VVOIKIIIAII	been pulled from bore hole #1. 04/09/2010 at 6:30 a. m BH-1 Bottom H2 -
		4567ppm; O2 - 18.25%; N2 - 75.38%; CH4 - 3.52%;
	Timothy	CO - 5193ppm; CO2 - 0.92%; C2H2 - 92ppm; C2H4 -
4/9/2010 9:25		348ppm; C2H6 - 100ppm; Ar 0.90
4/9/2010 9.23	VVOIKIIIAII	04/09/2010 at 7:00 a. m BH-1 Bottom H2 -
		4515ppm; O2 - 18.27%; N2 - 75.31%; CH4 - 3.60%;
	Timothy	CO - 5061ppm; CO2 - 0.90%; C2H2 - 93ppm; C2H4 -
4/9/2010 9:31		342ppm; C2H6 - 200ppm; Ar 0.90
4/3/2010 3.31	Timothy	Bandy Town Fan air reading. At 08:45. O2 - 20.97;
4/9/2010 9:33		CH4 - 0.2; CO - 53
4/3/2010 3.33	Timothy	Bandy Town Fan air reading. At 09:00. O2 - 20.97;
4/9/2010 9:34	•	CH4 - 0.2; CO - 51
4/3/2010 3.34	Timothy	0.14 - 0.2, 00 - 01
4/9/2010 10:03	•	8:50 a.m. Site 1, hole 3 waiting on casing not drilling.
7/3/2010 10.03	Timothy	o.55 a.m. Site 1, hole 5 waiting on casing not drilling.
4/9/2010 10:04		8:50 . Hole 10A (893 feet) drilling
7/3/2010 10.04	Timothy	O.SO . FISIE TOA (035 leet) diffilling
4/9/2010 10:06	•	9:09 Hole 5B (445feet) installing casing, not drilling
4/3/2010 10:00	Timothy	9:12 Drill still in process of moving from hole 12 to
4/9/2010 10:07	•	site 2 hole B
4/3/2010 10.0/	VVOINIIAII	SILE Z HOIE D

	Timothy	Bandy Town Fan air reading. (hand held) At 09:15.
4/9/2010 10:21	•	O2 - 20.01; CH4 - 0.2; CO - 54
4/3/2010 10:21	VVOIRIIAII	nitrogen information: as of 06:00, 6 trucks on site,
		4000 gallons per truck, as of 09:05 a.m. 2512
	Timothy	gallons have been pumped. 121 gallons per minute,
4/9/2010 10:23	Timothy	conversion factor 93.12= 11,267cfpm
4/9/2010 10.23		
4/0/2010 10:24	Timothy	Bandy Town Fan air reading. (hand held) At 09:30.
4/9/2010 10:24		O2 - 20.01; CH4 - 0.2; CO - 53
4/0/2040 40:25	Timothy	Bandy Town Fan air reading. (hand held) At 09:45.
4/9/2010 10:25		O2 - 20.97; CH4 - 0.2; CO - 61
4/0/0040 40.07	Timothy	Bandy Town Fan air reading. (hand held) At 10:00.
4/9/2010 10:27	vvorkman	O2 - 20.97; CH4 - 0.2; CO - 64
	,	Bandy Town Fan sample. TIME 0:00. H2 - 101ppm;
		O2 - 20.95%; N2 78.11%; CH40.18%- ; CO
	Timothy	191ppm; CO2 0.10%; C2H2 3 ppm; C2H410
4/9/2010 10:36		ppm; C2H6 64ppm; Ar 0.34%
	Timothy	
4/9/2010 10:48		As of 10:30, 5B expected to be drilling in 30 minutes.
	Timothy	10:30 Site 1, hole 3. not drilling (depth 396 feet)
4/9/2010 10:53		waiting on casing to arrive on site.
	Timothy	
4/9/2010 10:54	Workman	10:30a m Hole 10A (1015 feet) drilling
		10:00 a.m. nitrogen information. 8033 gallons total
	Timothy	have been pumped. Pumping 182.5 gallons per
4/9/2010 11:00	Workman	minute. conversion factor of 93.12 =16,994cfpm
		Bleeder Fan sample. TIME 1:00. H2 - 97ppm; O2 -
		20.95%; N2 78.14%; CH40.18%- ; CO
	Timothy	185ppm; CO2 0.10%; C2H2 2 ppm; C2H49
4/9/2010 11:04	Workman	ppm; C2H6 63ppm; Ar 0.31%
		Bleeder Fan sample. TIME 2:00. H2 - 93ppm; O2 -
		20.95%; N2 78.18%; CH40.18%- ; CO
	Timothy	178ppm; CO2 0.09%; C2H2 2 ppm; C2H49
4/9/2010 11:10	Workman	ppm; C2H6 62ppm; Ar 0.27%
		Bleeder Fan sample. TIME 3:00. H2 - 94ppm; O2 -
		20.95%; N2 78.34%; CH40.18%- ; CO
	Timothy	179ppm; CO2 0.09%; C2H2 3 ppm; C2H49
4/9/2010 11:13	Workman	ppm; C2H6 62ppm; Ar 0.07%
		Bleeder Fan sample. TIME 4:00. H2 - 91ppm; O2 -
		20.95%; N2 78.30%; CH40.17%- ; CO
	Timothy	175ppm; CO2 0.10%; C2H2 2 ppm; C2H49
4/9/2010 11:15	-	ppm; C2H6 61ppm; Ar 0.12%
		Bleeder Fan sample. TIME 05:00. H2 - 88ppm; O2 -
		20.95%; N2 78.27%; CH40.18%- ; CO
	Timothy	176ppm; CO2 0.11%; C2H2 3 ppm; C2H411
4/9/2010 11:17	•	ppm; C2H6 61ppm; Ar 0.15%
		Bleeder Fan sample. TIME 06:00. H2 - 80ppm; O2 -
		20.95%; N2 78.27%; CH40.17%-; CO
	Timothy	165ppm; CO2 0.11%; C2H2 2 ppm; C2H48
4/9/2010 11:18	1 '	ppm; C2H6 60ppm; Ar 0.16%
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	,	
		Bleeder Fan sample. TIME 07:00. H2 - 83ppm; O2 -
		20.95%; N2 78.35%; CH40.18%- ; CO
	Timothy	166ppm; CO2 0.10%; C2H2 2 ppm; C2H48
4/9/2010 11:19	Workman	ppm; C2H6 61ppm; Ar 0.06%
		Bleeder Fan sample. TIME 8:00. H2 - 80ppm; O2 -
		20.95%; N2 78.22%; CH40.18%- ; CO
	Timothy	165ppm; CO2 0.12%; C2H2 3 ppm; C2H4
4/9/2010 11:21	Workman	910ppm; C2H6 60ppm; Ar 0.23%
		Bleeder Fan sample. 4/8/2010 TIME 09:00. H2 -
		76ppm; O2 - 20.95%; N2 78.06%; CH40.16%-;
	Timothy	CO125ppm; CO2 0.11%; C2H2 2 ppm; C2H4
4/9/2010 11:31	•	-8 ppm; C2H6 54ppm; Ar 0.45%
		Fan sample information entered into log on
		04/09/2010 at 11:04:22, 11:10:40, 11:13:31,
	Timothy	11:15:10, 11:17:03; 11:18:29, 11:19:41, and
4/9/2010 11:42		11:21:27 were sampled on the date of 4/08/2010
	Timothy	
4/9/2010 11:45	•	11:10 Drill at site 1, hole 3 is still down for casing.
	Timothy	Hole 10A at 11:15 drill depth 1050 feet expect to
4/9/2010 11:47	•	break through in 30 minutes.
	Timothy	and the second s
4/9/2010 11:48		Hole 5B at 11:30 depth 450 feet (drilling)
		nitrogen information. As of 11:00a. m. 4/9/2010
		20071 gallons have been pumed. Pumping 182.5
	Timothy	gallons per minute, conversion factor 93.12=
4/9/2010 11.52		16994cfpm
	Timothy	Bandy town Fan air reading (hand held) O2 20.90,
4/9/2010 12:00	<u>-</u>	CH4 0.2, CO 115
	Timothy	Gas Readings: Bandy town Fan 11:am   O2 20.9%
4/9/2010 12:04		CH4 .20%   CO 140ppm   CO2
	Timothy	Gas Readings: Bandy Town Fan 11:15   O2 20.91%
4/9/2010 12:06		CH4 0.20%   CO 171ppm   CO2
	Timothy	Gas Readings: Bandy town Fan 11:30   O2 20.92%
4/9/2010 12:07		CH4 0.30%   CO 197ppm   CO2
	Timothy	Gas Readings: Bandy town Fan 11:30   O2 20.92%
4/9/2010 12:10		CH4 0.30%   CO 197ppm   CO2
17072010 12.10	Timothy	Gas Readings: Bandy town Fan 11:45   O2 20.89%
4/9/2010 12:11		CH4 0.30%   CO 221ppm   CO2
11012010 12.11	Timothy	Gas Readings: Bandytown Fan 12:00pm   O2
4/9/2010 12:13		20.86%   CH4 0.30%   CO 234ppm   CO2
77072010 12.10	Workingin	12:15 MSHA Supervisor on site at location of Hole
	Timothy	10A called and stated that drill hole 10A is a
4/9/2010 12:17		confirmed miss.
7/3/2010 12.17	Timothy	Gas Readings: Bandytown Fan 1215pm   O2
4/9/2010 12:20	•	20.86%   CH4 0.30%   CO 222ppm   CO2
4/3/ZUTU 1Z.ZU	VVOINIIIaii	Bleeder Fan sample. TIME 00:00, 4/9/2010 H2 -
		49ppm; O2 - 20.95%; N2 78.29%; CH40.13%-;
	Timothy	1 '' '
4/9/2010 12:29	Timothy	CO89ppm; CO2 0.08%; C2H2 2 ppm; C2H4 5 ppm; C2H6 46ppm; Ar 0.14%
4/3/2010 12.29	vvoikillall	[э рріні, бұло 4орріні, Ат 0. 14%

		IDL. 1 5 1 71M5 04 00 4/0/0040 1/0
·		Bleeder Fan sample. TIME 01:00, 4/9/2010 H2 -
	<del>-</del>	52ppm; O2 - 20.95%; N2 77.73%; CH40.15%-;
	Timothy	CO88ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 12:31	Workman	5 ppm; C2H6 51ppm; Ar 0.93%
		Bleeder Fan sample. TIME 02:00, 4/9/2010 H2 -
*		49ppm; O2 - 20.95%; N2 77.72%; CH40.14%-;
	Timothy	CO84ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 12:34	Workman	4ppm; C2H6 50ppm; Ar 0.93%
		Bleeder Fan sample. TIME 03:00, 4/9/2010 H2 -
		49ppm; O2 - 20.95%; N2 77.72%; CH40.16%-;
	Timothy	CO82ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 12:38	Workman	5; C2H6 46ppm; Ar 0.93%
		Bleeder Fan sample. TIME 03:30, 4/9/2010 H2 -
		46ppm; O2 - 20.95%; N2 77.73%; CH40.15%-;
	Timothy	CO82ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 12:40	Workman	4 ppm; C2H6 49ppm; Ar 0.93%
		Bleeder Fan sample. TIME 04:00, 4/9/2010 H2 -
		45ppm; O2 - 20.95%; N2 77.73%; CH40.13%-;
	Timothy	CO76ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 12:45	Workman	4 ppm; C2H6 46ppm; Ar 0.93%
		Bleeder Fan sample. TIME 04:30, 4/9/2010 H2 -
		49ppm; O2 - 20.95%; N2 77.69%; CH40.15%-;
	Timothy	CO84ppm; CO2 0.09%; C2H2 2 ppm; C2H4
4/9/2010 12:48	,	6 ppm; C2H6 49ppm; Ar 0.93%
		Bleeder Fan sample. TIME 05:00, 4/9/2010 H2 -
		48ppm; O2 - 20.95%; N2 77.70%; CH40.15%-;
	Timothy	CO84ppm; CO2 0.09%; C2H2 2 ppm; C2H4
4/9/2010 12:52	,	6 ppm; C2H6 49ppm; Ar 0.93%
		Bleeder Fan sample. TIME 06:00, 4/9/2010 H2 -
		46ppm; O2 - 20.95%; N2 77.72%; CH40.14%-;
	Timothy	CO78ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 12:57	,	5 ppm; C2H6 46ppm; Ar 0.93%
17672010 12.07	Timothy	о ррин, одино порин, и одоло
4/9/2010 12:58	,	12:30 5B hole at a depth of 570 feet.
	Timothy	Gas Readings: Bandy town Fan 12:15(handheld)
4/9/2010 13:04	-	O2 20.86%   CH4 .20%   CO 222ppm   CO2
	Timothy	The CH4 reading entered into log on 04/09/2010 at
4/9/2010 13:21		13:04:08 is in error the correct CH4 reading is 0.3
1,5,2010 10.21	Timothy	Bandytown Fan Reading (handheld) 12:30pm02
4/9/2010 13:26	•	20.86; CH40.3; CO213
1,5,2010 10.20	Timothy	Bandytown Fan Reading (handheld) 12:45pmO2
4/9/2010 13:27	•	20.84; CH40.3; CO208
1,5/2010 10.27	Timothy	Bandytown Fan Reading (handheld) 13:00pmO2
4/9/2010 13:28	•	20.82; CH40.2; CO192
7/3/2010 13.20	Timothy	As of 13:30 hole 5B was drilling at a depth of 705
4/9/2010 13:29	_	feet
7/3/2010 13.29	Timothy	Bandytown Fan Reading (handheld) 13:15pmO2
4/9/2010 13:38		20.77; CH40.2; CO186
4/8/2010 13.30		Bandytown Fan Reading (handheld) 13:30pmO2
4/9/2010 13:39	Timothy	20.77; CH40.2; CO179
	rvw:trk:rr:=ff	1/0// 5/04-0// 5/5-1/9

	Timothy	nitrogen information: as of 12:30 pumping
4/0/2010 12:41	Timothy	, , , ,
4/9/2010 13:41		10,000cfpm
4/0/2040 40 40	Timothy	Nitrogen information as of 13:00. pumping 18000
4/9/2010 13:43		CFPM
	Timothy	As of 13:06 site 1, hole 3 is not drilling (waiting on
4/9/2010 13:45		casing)
	Timothy	As of 13:06 drill at hole 10A is drilling at a depth of
4/9/2010 13:47	Workman	1111 feet.
		Bleeder Fan sample. TIME 07:00, 4/9/2010 H2 -
		46ppm; O2 - 20.95%; N2 77.77%; CH40.14%-;
·	Timothy	CO80ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 13:51	Workman	5ppm; C2H6 48ppm; Ar 0.93%
		Bleeder Fan sample. TIME 08:00, 4/9/2010 H2 -
		41ppm; O2 - 20.95%; N2 77.77%; CH40.13%-;
	Timothy	CO72ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 13:53	Workman	4ppm; C2H6 45ppm; Ar 0.93%
		Bleeder Fan sample. TIME 09:00, 4/9/2010 H2 -
		39ppm; O2 - 20.95%; N2 77.75%; CH40.13%-;
1	Timothy	CO71ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 13:54	•	4ppm; C2H6 43ppm; Ar 0.93%
		Bleeder Fan sample. TIME 10:00, 4/9/2010 H2 -
		50ppm; O2 - 20.95%; N2 77.73%; CH40.15%-;
	Timothy	CO87ppm; CO2 0.08%; C2H2 1 ppm; C2H4
4/9/2010 13:57	· -	5ppm; C2H6 46ppm; Ar 0.93%
11012010 10.01	· · · · · · · · · · · · · · · · · · ·	Bleeder Fan sample. TIME 11:00, 4/9/2010 H2 -
		94ppm; O2 - 20.95%; N2 77.74%; CH40.19%-;
	Timothy	CO145ppm; CO2 0.09%; C2H2 2 ppm; C2H4 -
4/9/2010 14:00	,	-9ppm; C2H6 48ppm; Ar 0.93%
47072010114.00	Monanan	Bleeder Fan sample. TIME 12:00, 4/9/2010 H2 -
		140ppm; O2 - 20.91%; N2 77.79%; CH40.23%-
1	Timothy	; CO190ppm; CO2 0.09%; C2H2 3 ppm;
4/9/2010 14:07		С2H412ppm; С2H6 48ppm; Ar 0.93%
4/9/2010 14:07	Timothy	Bandytown Fan hand held readings at 14:00. O2
4/9/2010 14:09		20.59, CH40.2, CO172
4/9/2010 14:09		Hole 2B 30 feet from breaking through. Hole
4/0/2010 14:11	Timothy	,
4/9/2010 14:11		stopped.
4/0/2010 14:20	Timothy	Bandytown Fan hand held readings at 14:15. O2-
4/9/2010 14:29		20.59, CH40.2, CO157
4/0/0040 44 40	Timothy	At 14:30 hole 5B was at a depth of 815 feet. Plan to
4/9/2010 14:40		stop hole at 1000 feet.
	Timothy	14400111 4045 11 11 11 11005
4/9/2010 14:41		14:06 Hole 10A final depth 1130 feet
	Timothy	La.,
4/9/2010 14:42		Site 1 hole 3 not drilling.
1	Timothy	Bandytown Fan 14:30. O2 20.48, CH4 0.2, CO
4/9/2010 14:48		157
	Timothy	14:45 Bandytown fan handheld O2 20.41, CH4 0.2,
4/9/2010 15:18	Workman	CO 150
	Timothy	At 15:00 Bandytown Fan Handheld. O2-20.37, CH4
4/9/2010 15:20	Workman	0.2, CO 143
	Timothy	At 15:15 Bandytown fan handheld. O2-20.35, CH4 -
4/9/2010 15:26	•	0.2, CO - 131
	<del></del>	•

		TALACION The stores the state D. J. C. 1911
	Time allow	At 15:30 The air reading at the Bandy fan with hand
	Timothy	held equipmeny was :O220.37, CH40.2, CO
4/9/2010 15:35	vvorkman	121ppm
	<u> </u>	Hole 5B at 1530 is 940'. The drill has been instructed
4/9/2010 15:41	Fetty	to stop at 1000'.
		Bob Cornett called in on cell phone. Telephone
		communications are down at the CC. They are
	Charles	working on the problem. Updates to the MEO log will
4/9/2010 15:54	Carpenter	be added.
	Timothy	
4/9/2010 16:03	Workman	At 15:03 10A Hole . All pipe is out of hole.
	Timothy	
4/9/2010 16:04	1	Site 1 hole 3 still down.
		At 14:32 Nitrogen trucks completed pumping.
	Timothy	Changed over to nitrogen generator machine at
4/9/2010 16:07		14:40
4/3/2010 10.07	Timothy	At 16:05 Hole 5B stopped as instructed at a depth of
4/9/2010 16:08		I ''
4/9/2010 10.00	VVOIKIIIAII	1000 feet
		Deadless of Deadle Terry Femilia to the deadle to the
4/0/0040 40 40		Readings at Bandy Town Fan with handheld detector
4/9/2010 16:10	Reba Crawford	at 15:45 were O2 - 20.42, CH4 - 0.2, CO - 112
		Readings at Bandy Town Fan with handheld detector
4/9/2010 16:42	Reba Crawford	at 16:00 were 02 - 20.46, CH4 - 0.2, CO - 105
		}
		Readings at Bandy Town Fan with handheld detecto
4/9/2010 16:43	Reba Crawford	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
		Readings at Bandy Town Fan with handheld detecto
4/9/2010 16:59	Reba Crawford	at 16:45 were O2 - 20.69, CH4 - 0.1, CO - 83
<del></del> -	<u> </u>	· · · · · · · · · · · · · · · · · · ·
		Readings at Bandy Town Fan with handheld detector
4/9/2010 17:33	Reba Crawford	
4/9/2010 17:32	Reba Crawford	Readings at Bandy Town Fan with handheld detecto at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80
4/9/2010 17:32	Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80
		at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto
	Reba Crawford Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80
4/9/2010 17:33	Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72
4/9/2010 17:33 4/9/2010 17:34	Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity
4/9/2010 17:33 4/9/2010 17:34	Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72
4/9/2010 17:33 4/9/2010 17:34	Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm
4/9/2010 17:33 4/9/2010 17:34 4/9/2010 17:37	Reba Crawford Reba Crawford Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detector
4/9/2010 17:33 4/9/2010 17:34 4/9/2010 17:37	Reba Crawford Reba Crawford Reba Crawford Reba Crawford	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71
4/9/2010 17:33 4/9/2010 17:34 4/9/2010 17:33 4/9/2010 17:38	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detecto at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams
4/9/2010 17:33 4/9/2010 17:34 4/9/2010 17:37	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detecto at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71
4/9/2010 17:33 4/9/2010 17:34 4/9/2010 17:37 4/9/2010 17:38	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detecto at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams
4/9/2010 17:33 4/9/2010 17:34 4/9/2010 17:37 4/9/2010 17:38	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detecto at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detecto at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams advancing toward HG 22. Air quality good.
4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:38 4/9/2010 18:22	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams advancing toward HG 22. Air quality good.  Readings at Bandy Town Fan with handheld detector
4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:38 4/9/2010 18:22	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles Carpenter	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams advancing toward HG 22. Air quality good.
4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:38 4/9/2010 18:22	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles Carpenter	Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams advancing toward HG 22. Air quality good.  Readings at Bandy Town Fan with handheld detector at 16:30 were O2 - 20.62, CH4 - 0.2, CO - 131
4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:33 4/9/2010 17:38 4/9/2010 18:22 4/9/2010 19:08	Reba Crawford Reba Crawford Reba Crawford Reba Crawford Charles Carpenter	at 17:00 were O2 - 20.70, CH4 - 0.1, CO - 80  Readings at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.74, CH4 - 0.1, CO - 72  17:30 Hole 5B still idle - depth 1000 feet - no activity 17:30 - nitrogen generator pumping 716 scfm  Readings at Bandy Town Fan with handheld detector at 17:30 were O2 - 20.76, CH4 - 0.1, CO - 71  Ray McKinney called from CC - Rescue teams advancing toward HG 22. Air quality good.  Readings at Bandy Town Fan with handheld detector

4/9/2010 19	2:10 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	9:10 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	9:18 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 18:30 - Hole 5B - pulling out at 325 feet to put a
4/9/2010 19	20 Reba Crawford	gyroscope to make sure the hole is right - gyroscope is on way to site - not there at present
	9:22 Reba Crawford 9:44 Reba Crawford	18:30 - put gyroscope down hole 10A and missed by 23 feet - nitrogen generator flow rate is 703 scfm 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
	9:46 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	0:17 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 wee O2 - 20.85, CH4 - 0.1, CO - 57
4/9/2010 20	0:19 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	0:21 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	0:24 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	0:25 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	0:25 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	0:27 Reba Crawford	20:17 - Gary Bragg said drillers getting ready to install casing - all drilling has stopped
4/9/2010 20	0:31 Reba Crawford	20:31 - Bob Gross reported Hole 5B - gyroscope set up and running test - 1-1/2 hours before any results

	1	
4/9/2010 20:35	Reba Crawford	20:35 - nitrogen flow rate 722 scfm at Site 1, Hole 1
		Readings at Bandy Town Fan with handheld detector
4/9/2010 20:50	Reba Crawford	at 20:45 were O2 - 20.93, CH4 - 0.1, CO - 24
	11004 01411014	20.00, 0111 0.11, 00 21
		Readings at Bandy Town Fan with handheld detector
4/9/2010 20:51	Reba Crawford	at 20:30 were O2 - 20.95, CH4 - 0.1, CO - 27
		Readings at Bandy Town Fan with handheld detector
4/9/2010 21:33	Reba Crawford	at 21:00 were O2 - 20.90, CH4 - 0.1, CO - 25
		21:30 - Bog Gross (MSHA) per
		drillers - 5B Hole - azimuth from collar of hole
4/9/2010 21:36	Reba Crawford	165.87SE - distance 20.52 feet - 40 feet off mark
4/0/2010 21:27	Daha Craufard	21:32 - per Rick Hayhurst (MSHA) - Site 1, Hole 1 -
4/9/2010 21:37	Reba Crawford	flow rate nitrogen generator 720 scfm 22:30 Per Rick Hayhurst (MSHA) - Site 1 Hole 1 -
4/9/2010 23:44	Clydo Gray	flow rate nitrogen generator 719 scfm
4/9/2010 23:50		22:30 per Gary Bragg (MSHA) - All drill holes idle
4/3/2010 23.30	Ciyde Olay	23:40 Per Rick Hayhurst (MSHA) - Site 1 Hole 1 -
4/9/2010 23:50	Clyde Gray	flow rate nitrogen generator 723 scfm
1707201020.00	Joryan Gray	00:20- per Andy Sparks (MSHA)- Site1, Hole 1- flow
4/10/2010 0:29	Clyde Grav	rate nitrogen generator 718 scfm
4/10/2010 0:46		00:40 Personal at Mine Site Meu-9 D4-10 Tech-1
	1	01:00 Two Resue Teams are between break 74 and
4/10/2010 1:05	Clyde Gray	headgate in recovery mode
		01:25 Per Andy Sparks (MSHA) - Site 1, Hole 1- flow
4/10/2010 1:59	Clyde Gray	rate nitrogen generator 718 scfm
		01:55 per Kevin Lyle (MSHA) Holes not being drill at
4/10/2010 2:04	Clyde Gray	this time
		Bleeder Fan reading for 2300 hrs, H2 32, O2 20.95,
		N2 77.91, Ch4 .12, CO 48, CO2 .07, C2H2 1, C2H4
4/10/2010 2:28	Clyde Gray	2, C2H6 40, Ar .93.
		Bleeder Fan reading for 23:30 hrs, H2 32, 02
4/40/0040 0:00		20.95,N2 77.85, Ch4 0.13, CO 48, CO2 .07, C2H2 1,
4/10/2010 2:36	Clyde Gray	C2H4 2, C2H6 40,Ar .93
		Bleeder Fan reading for 00:00 hrs, H2 31,O2 20.95, N2 77.84, CH4 .12, CO45, CO2 .07, C2H2 1, C2H4
4/10/2010 2:41	Clyde Gray	2, C2H6 40, Ar.93
4/10/2010 2.4	l Ciyde Ciay	01:25 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow
4/10/2010 2:45	Clyde Grav	rate Nitrogen generator 723 scfm
17 10/2010 2.10	Joryan Gray	Bleeder Fan reading for 00:30 hrs, H2 31,02 20.95,
		N2 77.83, CH4.12, CO 43, CO2 .07, C2H2 1, C2H4
4/10/2010 2:51	Clyde Gray	2, C2H6 40, Ar .93
	<del>                                     </del>	Bleeder Fan reading for 01:00 hrs, H2 30, O2 20.95,
		N2 77.83, CH4 .13, CO 45, CO2 .07, C2H2 1, C2H4
4/10/2010 2:54	Clyde Gray	2, C2H6 40, Ar .93
		02:28 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow
4/10/2010 2:58	Clyde Gray	rate Nitrogen generator 719 scfm
		03:25 Per Andy Sparks (MSHA) Site 1 Hole 1- Flow
4/10/2010 3:32	Clyde Gray	rate Nitrogen generator 719 scfm

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4/40/2040 2 25/01 1 0	03:30 Per Kevin Lyle (MSHA) no drilling being done
4/10/2010 3:35 Clyde Gray	at this time.
	Mine rescue teams (2) returned to the surface and
	being replaced by two other teams for recovery
4/10/2010 3:58 Clyde Gray	work.
	Bleeder Fan reading for 01:30 hrs, H2 29, O2 20.95,
	N2 77.84, CH4 .12, CO 42, CO2.07, C2H2 1, C2H4
4/10/2010 4:33 Clyde Gray	2, C2H6 40, Ar .93
	Bleeder Fan reading for 02:00 hrs, H2 29, 02 20.95,
	N2 77.83, CH4 .12, CO 39, CO2 .07, C2H2 1, C2H4
4/10/2010 4:38 Clyde Gray	2, C2H6 39, Ar .93
	Bleeder Fan reading for 02:30 hrs. H2 28, O2 20.95,
	N2 77.82, CH4 .12, CO 39, CO2 .07, C2H2 1, C2H4
4/10/2010 4:41 Clyde Gray	2, C2H6 39, Ar .93
	Bleeder Fan Reading 03:00 hrs. H2 28, O2 20.95,
	N2 77.82, C H4 .12, CO 37, CO2 .07, C2H2 1, C2H2
4/10/2010 4:46 Clyde Gray	1, C2H4 2, C2H6 40, Ar .93
	04:30 Per Andy Sparks (MSHA) Site 1 Hole 1- Flow
4/10/2010 4:50 Clyde Gray	rate nitrogen generator 720 scfm
n to zo to moo o y do o tay	03:45 Four Mine Rescue Teams enter mine with
	supplies starting recovery on Longwall Section MMU-
4/10/2010 5:44 Clyde Gray	1005-0
4, 10,2010 3.44 Glyde Glay	05:25 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow
4/10/2010 5:46 Clyde Gray	rate nitrogen generator 719 scfm
4/10/2010 3.40 Clyde Glay	
4/10/2010 C:25 Chida Cray	06:25 Per Andy Sparks (MSHA) Site 1 Hole 1-Flow
4/10/2010 6:35 Clyde Gray	rate nitrogen generator 720 scfm
	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
	at The onsite command center and
	company officials were notified of this offer via
4/10/2010 6:39 John Hendley	telephone.
	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
j	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
4/10/2010 7:19 Clyde Gray	21.03 .1 12 03:30 21.01 .1 14
	Handheld detector Bandy Town Fan Time Time 02
	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
4/10/2010 7:38 Clyde Gray	05:15 21.08 .1 22
Timothy	07.20a.m. As per Andy Sparks, Drilling Hole #3
4/10/2010 7.41 Workman	· · · · · · · · · · · · · · · · · · ·
	(depth 420 feet).
Timothy	07:20a.m. As per Andy Sparks. Nitrogen Generator
4/10/2010 7:44 Workman	flow 717 scfm.
Timothy	Bandy Town Fan 05:30(hand held). O2-21.09; CH4-
4/10/2010 7:47 Workman	0.1; CO19

		08:00a.m.As per Ronnie J. Dooley-MSHA. 1 team
4/10/2010 8:32	VVorkman	to allow a drill with a larger bit to be used at hole 3.
44404004055	Timothy	stopped at a depth of 514 feet. Drill will be moving,
		As per Andy Sparks at 08:18a.m. Drill at hole 3 has
4/10/2010 8:28	3 Workman	08:18a.m. 714scfm
	Timothy	As per Andy Sparks-MSHA: Nitrogen flow as of
4/10/2010 8:2:		0.07 ; C2H2 1; C2C42 ; C2H6 38; Ar0.93
,	Timothy	O220.95 ; N2 77.79; CH4 0.12; CO 33; CO2
		Bleeder Fan Reading for 07:00, 4/10/2010. H2 26;
4/10/2010 8:22	Workman	0.07 ; C2H2 1; C2C42 ; C2H6 35; Ar0.93
	Timothy	O220.95 ; N2 77.79; CH4 0.11; CO 31; CO2
		Bleeder Fan Reading for 06:30, 4/10/2010. H2 24;
4/10/2010 8:18		0.07 ; C2H2 1; C2C42 ; C2H6 39; Ar0.93
	Timothy	O220.95; N2 77.80; CH4 0.12; CO 35; CO2
		Bleeder Fan Reading for 06:00, 4/10/2010. H2 26;
4/10/2010 8:16	Workman	0.07 ; C2H2 1; C2C42 ; C2H6 38; Ar0.93
	Timothy	O220.95 ; N2 77.80; CH4 0.12; CO 35; CO2
		Bleeder Fan Reading for 05:30, 4/10/2010. H2 26;
77 10/2010 0.11	- Tomman	5.5., 52.12 1, 52.57 2 , 52.16-55, 71-5.55
4/10/2010 8:1	Timothy Workman	O220.95 ; N2 77.82; CH4 0.11; CO 35; CO2 0.07 ; C2H2 1; C2C42 ; C2H6 39; Ar0.93
	Timothy	Bleeder Fan Reading for 05:00, 4/10/2010. H2 26;
4/10/2010 8:14		0.07 ; C2H2 1; C2C42 ; C2H6 39; Ar0.93
	Timothy	O220.95 ; N2 77.81; CH4 0.12; CO 36; CO2
		Bleeder Fan Reading for 04:30, 4/10/2010. H2 27;
4/10/2010 7:50	ννοικman	-0.1; CO30
4/40/0040 7:5	Timothy	Bandy Town Fan 06::30(hand held). O221.05; CH4-
4/10/2010 7:49		0.1; CO23
	Timothy	Bandy Town Fan 06:15(hand held). O221.04; CH4-
4/10/2010 7:48		0.1; CO19
	Timothy	Bandy Town Fan 06:00(hand held). O221.07; CH4-
4/10/2010 7:48		0.1; CO-20
	Timothy	Bandy Town Fan 05:45(hand held). O2-21.08; CH4-

1	Timather	07:45a as Donaly Town Fac /hamilt 15 1 1
A/40/0040 0:04	Timothy	07:15a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:04		O2 21.18; CH4 0.1 ; CO 25
4/40/0040 0:05	Timothy	07:30 a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:05		O2 21.18; CH4 0.1 ; CO 25
4/40/0040 0:00	Timothy	07:45a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:08		O2 20.71; CH4 0.1 ; CO 30
4/40/0040 0 00	Timothy	08:00a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:08		O2 20.72; CH4 0.1 ; CO 30
4/40/0040 0 00	Timothy	08:15a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:09		O2 20.72; CH4 0.1 ; CO 28
414010040044	Timothy	08:30a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:11		O2 20.73; CH4 0.1 ; CO 28
	Timothy	08:45a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:12		O2 20.73; CH4 0.1 ; CO 27
	Timothy	09:00a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:12		O2 20.72; CH4 0.1 ; CO 25
	Timothy	09:15a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:18		O2 20.72; CH4 0.1 ; CO 26
	Timothy	09:30a.m.Bandy Town Fan (hand held) air readings:
4/10/2010 9:33		O2 20.73; CH4 0.1 ; CO 27
	Timothy	As per James Jackson at 9:00a.m. site 1, hole 3 still
4/10/2010 9:45		moving drill equipment. Plan to drill 24" hole
	Timothy	As per James Jackson at 9:00a.m. nitrogen flow
4/10/2010 9:47	Workman	718scfm As per Ronnie J. Dooley-MSHA . Rescue team
		information. 4 teams underground. locations of
4/10/2010 10:05	Timothy	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 10:05	_	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 10:05	_	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.  As per Ronnie J. Dooley: Bodies #1, #2, #3, #4, #5,
4/10/2010 10:05	_	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.  As per Ronnie J. Dooley: Bodies #1, #2, #3, #4, #5, #6 at cross-cut 78 being loaded on trips to be taken
4/10/2010 10:05	Workman	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.  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,
	Workman Timothy	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.  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
4/10/2010 10:05 4/10/2010 10:10	Workman Timothy Workman	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.  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 10:10	Workman Timothy Workman Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air
	Workman Timothy Workman Timothy Workman	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28
4/10/2010 10:10 4/10/2010 10:13	Timothy Workman Timothy Workman Timothy Workman Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air
4/10/2010 10:10	Timothy Workman Timothy Workman Timothy Workman Timothy Workman	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air
4/10/2010 10:10 4/10/2010 10:13	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95;
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14 4/10/2010 10:19	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07;
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H43; C2H6 38; Ar 0.93
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14 4/10/2010 10:19	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H43; C2H6 38; Ar 0.93  Bleeder Fan 4/10/2010 08:00. H226; O2 20.95;
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14 4/10/2010 10:19 4/10/2010 10:31	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H43; C2H6 38; Ar 0.93  Bleeder Fan 4/10/2010 08:00. H226; O2 20.95; N2 77.77; CH4 0.12; CO33; CO2 0.07;
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14 4/10/2010 10:19	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H43; C2H6 38; Ar 0.93  Bleeder Fan 4/10/2010 08:00. H226; O2 20.95; N2 77.77; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H42; C2H6 38; Ar 0.93
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14 4/10/2010 10:19 4/10/2010 10:31	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H43; C2H6 38; Ar 0.93  Bleeder Fan 4/10/2010 08:00. H226; O2 20.95; N2 77.77; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H42; C2H6 38; Ar 0.93  Bleeder Fan 4/10/2010 08:30. H225; O2 20.95;
4/10/2010 10:10 4/10/2010 10:13 4/10/2010 10:14 4/10/2010 10:19 4/10/2010 10:31	Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Workman Timothy Timothy Timothy Timothy	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.  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)  09:45a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 28  10:00a.m. Bandy Town Fan (hand Held) air readings. O2 20.73; CH4 0.1; CO 26  10:15a.m. Bandy Town Fan (hand Held) air readings. O2 20.74; CH4 0.1; CO 26  Bleeder Fan 4/10/2010 07:30. H225; O2 20.95; N2 77.78; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H43; C2H6 38; Ar 0.93  Bleeder Fan 4/10/2010 08:00. H226; O2 20.95; N2 77.77; CH4 0.12; CO33; CO2 0.07; C2H2 1; C2H42; C2H6 38; Ar 0.93

44404004040	Timothy	10:30a.m.Bandy Town Bleeder fan (hand held) O2-
4/10/2010 10:37		20.73; CH4 0.1 ; CO 28
	Timothy	As per James Jackson: at 10:00 the nitrogen Flow
4/10/2010 10:45	Workman	was 709.1 scfm
		Nitrogen Generator 4/9/2010. time 23:57 H2 8; O2
	Timothy	6.55; N2 92.50; CH40.00; CO7; CO2 0.01; Ar -
4/10/2010 10:50		- 0.93; Raw Total 98.3752
		Nitrogen Generator 4/10/2010. time 01:00 H2 10;
	Timothy	O2 7.42; N2 91.64; CH40.00; CO NDA; CO2
4/10/2010 10:52		0.01; Ar 0.93; Raw Total 98.31359
 4/10/2010 10.0E	VVOIRITIATI	Nitrogen Generator 4/10/2010. time 02:00 H2 10;
	Timothy	O2 5.85; N2 93.21; CH40.00; CO NDA; CO2
4/40/2040 40:54		
 4/10/2010 10:54	vvorkman	0.01; Ar 0.93; Raw Total 98.70101
	<del>-</del>	Nitrogen Generator 4/10/2010. time 03:00 H2 11;
4/40/64/5	Timothy	O2 6.48; N2 92.58; CH40.00; CONDA; CO2
 4/10/2010 10:56		0.01; Ar 0.93; Raw Total 98.3868
	Timothy	Bandy Town Fan air reading (hand held) O2 20.74
 4/10/2010 11:00		CH4 0.1; CO 30
 	Timothy	Bandy Town Fan air reading at 11:00 ; O2 20.71;
4/10/2010 11:06	Workman	CH4 0.1; CO 29
		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
	Timothy	moved to end of the track, rescue teams ready to
4/10/2010 11:15		switch out.
 1710/2010 11:10	· · ·	ownor out.
		As per Ronnie J. Dooleya at 11:05. CORRECTION
	Timothy	TO PREVIOUS INFORMATION, stage loader is at
4/10/2010 11:17		cross-cut 27, staging area is at 16 cross-cut
 4/10/2010 11.17	Timothy	
4/40/2040 44:20	•	Bandy Town air readings (hand held) at 11:15. O2
 4/10/2010 11:20		20.73; CH4 0.1 ; CO 31
	Timothy	As per James Jackson at 11:40. No changes at hole
 4/10/2010 11:41	Workman	3. Nitrogen flow 708.5 scfm
		As per RonnieJ. Dooley- MSHA at 11:54. Victims
	Timothy	information. Victims # 8, # 11, # 13 are at cross-cut
 4/10/2010 11:56	Workman	78 end of track
 	Timothy	Bandy Town air readings at 11:30 O220.72 ;
 4/10/2010 12:00	Workman	CH4 0.1 ; CO 34
	Timothy	Bandy Town air readings at 11:45 O220.73 ;
4/10/2010 12:01	Workman	CH4 0.1 ; CO 34
	Timothy	Bandy Town air readings at 12:00 O220.73;
4/10/2010 12:04	•	CH4 0.1 ; CO 36
		N2 PLANT sample not dated, date entered as
4, 10,2010 12.04		
17 10/2010 12:04	Timothy	
	Timothy	N2Gen, TIME 4:00, flow 720, H23, O212.25, N2
4/10/2010 12:21	•	N2Gen, TIME 4:00, flow 720, H23, O212.25, N286.60, CO2, CO20.21, Ar 0.93
	Workman	N2Gen, TIME 4:00, flow 720, H23, O212.25, N2 86.60, CO2, CO20.21, Ar 0.93 N2 PLANT sample not dated, date entered as
	Workman Timothy	N2Gen, TIME 4:00, flow 720, H23, O212.25, N286.60, CO2, CO20.21, Ar 0.93

Г			INO DI ANT comple not deted, dete entered co
		Timenthy	N2 PLANT sample not dated, date entered as
	4/40/2040 42:24	Timothy	N2Gen, TIME 6:00, flow 721, H23, O212.57, N2
-	4/10/2010 12:24	vvorkman	86.31, COnda, CO20.19, Ar 0.93
*		Ti 41	N2 PLANT sample not dated, date entered as
	4/40/0040 40:00	Timothy	N2Gen, TIME 7:00, flow 723, H23, O212:30, N2
•	4/10/2010 12:26	vvorkman	86.77, CO2, CO20.00, Ar 0.93
		<del>-</del> :	N2 PLANT sample not dated, date entered as
		Timothy	N2Gen, TIME 8:00, flow 716, H22, O212.34, N2
	4/10/2010 12:27	Workman	86.64, CO2, CO20.09, Ar 0.93
			N2 PLANT sample not dated, date entered as
		Timothy	N2Gen, TIME 9:00, flow 718, H23, O212.85, N2
ļ	4/10/2010 12:28		86.02, CO3, CO20.20, Ar 0.93
•		Timothy	Bandy Town Fan Hand held air readings O2
1	4/10/2010 12:30	Workman	20.73, CH40.1, CO36
I			Nitrogen generator 4/10/2010, TIME 10:00, H213,
1		Timothy	O25.68, N293.3, CH40.00, COnda, CO2
	4/10/2010 12:37		0.00, Ar 0.93, raw total 97.98607
		Timothy	As per James Jackson-MSHA at 12:35: Nitrogen
	4/10/2010 12:39		flow 706.5scfm. No change at drill site 1, hole 3.
		Timothy	Bandy Town Fan at 12:15 -O220.73, CH40.1,
	4/10/2010 12:46		CO36
		Timothy	Bandy Town Fan at 12:30 -O220.73, CH40.1,
	4/10/2010 12:46	Workman	CO36
8.		Timothy	Bandy Town Fan at 12:45 -O220.75, CH40.1,
	4/10/2010 13:04	Workman	CO33
		Timothy	Bandy Town Fan at 13:00 -O220.75, CH40.1,
į	4/10/2010 13:04		CO32
		Timothy	Bandy Town Fan at 13.15 -O220.74, CH40.1,
l	4/10/2010 13:21	Workman	CO33
		Timothy	informed by Joe Makoviac. Plan to drill hole 3 with a
	4/10/2010 13:26	Workman	12 inch bit
		Timothy	informed by James Jackson-MSHA at 13:35
	4/10/2010 13:38	Workman	nitrogen flow 702.3scfm. Total 903,333.
		Timothy	Bandy town fan hand held air reading at 13:30. O2
	4/10/2010 13:43	Workman	20.73; CH40.1; CO31
			Bleeder Fan 4/10/2010- time 10:30 ; H225; O2
		Timothy	20.95; N277.76; CH40.12; CO34; CO20.07;
	4/10/2010 13:49	Workman	C2H21; C2H42; C2H637; Ar0.93
			Bleeder Fan 4/10/2010- time 11:00 ; H225; O2
		Timothy	20.95; N277.75; CH40.12; CO37; CO20.07;
	4/10/2010 13:50	Workman	C2H21; C2H43; C2H637; Ar0.93
			Bleeder Fan 4/10/2010- time 12:00 ; H223; O2
		Timothy	20.95; N277.76; CH40.11; CO32; CO20.07;
	4/10/2010 13:51		C2H2(ND); C2H42; C2H634; Ar0.93
		Timothy	Bandy Town Fan hand held air reading at 13:45. O2-
	4/10/2010 13:54	Workman	20.72; CH40.1; CO 33
		Timothy	Bleeder Fan 4/10/2010- time 14:00 (hand held)
	4/10/2010 14:11	Workman	O220.71; CH40.1; CO34
		Timothy	Bleeder Fan 4/10/2010- time 14:15. (hand
	4/10/2010 14:20	Workman	held)O220.69; CH40.1; CO36

	1	Informed by James Joseph at 14:22 Nitrage flow
		Informed by James Jackson at 14:32. Nitrogen flow
	T:	703.9scfm. Drill at site 1, hole 3 is installing a
4/40/0040 44 44	Timothy	directional device to determine the correctness of
4/10/2010 14:41	vvorkman	the hole.
		As per Ronnie J. Dooley at 14:35. Two teams
	T' 41	underground exploring, other 4 are outside being
4/40/0040 44:47	Timothy	debriefed. Victim information: Victims # 8, # 11, # 13
4/10/2010 14:47		are at crosscut 2.
4/40/0040 44.40	Timothy	Bleeder Fan 4/10/2010- time 14:30. (hand
4/10/2010 14:48		held)O2_20.68; CH4_0.1; CO_38
4/40/2040 45:04	Timothy	Bleeder Fan 4/10/2010- time 14:45. (hand
4/10/2010 15:04		held)O2_20.68; CH4_0.1; CO_40
4/40/0040 45.05	Timothy	Bleeder Fan 4/10/2010- time 15:00. (hand
4/10/2010 15:05		held)O220.67; CH40.1; CO44
4/40/2040 45:40	Timothy	Bleeder Fan 4/10/2010- time 15:15. (hand
4/10/2010 15:19	vvorkman	held)O220.67; CH40.1; CO48
		As per Ronnie J. Dooley at 15:20. Victims
		information: # 8, # 11, #13 brought outside. Total of
		9 victims brought outside. Waiting on addittional
	T'	team members to go inside. 2 survey teams
4/40/0040 45:00	Timothy	underground exploring at survey spad 20274. Now
4/10/2010 15:26		under apparatus, 50 ppm CO.
4/40/2040 45:40	Timothy	As per James Jackson at 3:00p.m.Nitrogen flow
4/10/2010 15:46	VVOIKINAII	701.3. Total 982464. As per Ben Delin-MSHA at 3:40p.m. directioal device
	•	was droped 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
	Timothy	the drill hole, it is believed that the hole will NOT hit
4/10/2010 15:50		in an entry
4/10/2010 13:30	Timothy	Bleeder Fan 4/10/2010- time 15:30. (hand
4/10/2010 15:53		held)O220.69; CH40.1; CO44
4/10/2010 10:55	VVOIRITIATI	
		Readings taken at Bandy Town Fan with handheld
4/10/2010 16:35	Reba Crawford	detector at 15:45 were O2 - 20.71, CH4 - 0.1, CO 49
10,2010 10,00	- ISSE GIANIOIA	Readings taken at Bandy Town Fan with handheld
		detector at 16:00 were O2 - 20.72, CH4 - 0.1, CO -
4/10/2010 16:36	Reba Crawford	51
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Readings taken at Bandy Town Fan with handheld
		detector at 16:15 were O2 - 20.73, CH4 - 0.1, CO -
4/10/2010 16:36	Reba Crawford	52
17 10/2010 10:00	11000 01011010	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 -
4/10/2010 16:42	Reba Crawford	another rig coming to redrill hole
		Readings taken at Bandy Town Fan with handheld
		detector at 16:30 were O2 - 20.82, CH4 - 0.1, CO -
4/10/2010 17:24	Reba Crawford	54
		Readings taken at Bandy Town Fan with handheld
		detector at 16:45 were O2 - 20.84, CH4 - 0.1, CO -
4/10/2010 17:25	Reba Crawford	51
	1	I

		Readings taken at Bandy Town Fan with handheld
		detector at 17:00 were O2 - 20.84, CH4 - 0.1, CO -
4/10/2010 17:28 F	Reba Crawford	51
	-	Readings taken at Bandy Town Fan with handheld
		detector at 17:15 were O2 - 20.71, CH4 - 0.1, CO -
4/10/2010 17:30 F	Paha Crawford	30 (detector calibrated)
4/10/2010 17:30	Neba Ciawioiu	
		17:30 - Report from Rick Hayhurst - Site 1, Hole 1 -
4/10/2010 17:31 F	Reba Crawford	flow rate 706 scfm, total 1,076,159 pumped
		17:30 - Gary Bragg report - All drilling has stopped -
1		Site 1, Hole 3 - rig off of hole - 12 inch drill coming;
1		Hole 5B - 1000 feet and holding, Site 2, Hole 2A -
1		1100 feet + and holding; Hole 2B - not started; Hole
4/10/2010 17:58 F	Poho Croudord	· · · · · · · · · · · · · · · · · · ·
4/10/2010 17.56	Reba Crawlord	2C - not started but drill on way to site
		Readings taken at Bandy Town Fan with handheld
		detector at 17:30 were O2 - 20.69, CH4 - 0.1, CO -
4/10/2010 18:23 F	Reba Crawford	28
		Readings taken at Bandy Town Fan with handheld
1		detector at 17:45 were O2 - 20.67, CH4 - 0.1, CO -
4/10/2010 18:23 F	Reba Crawford	27
1, 10,2010 10.2011	.coa orawiora	Readings taken at Bandy Town Fan with handheld
1		
4/40/2010 10 5 ]		detector at 18:00 were O2 - 20.64, CH4 - 0.1, CO -
4/10/2010 18:24 F	Reba Crawford	23
		18:30 - Report from Rick Hayhurst - Site 1, Hole 1 -
4/10/2010 18:31 F	Reba Crawford	701 scfm flow rate; Total volume pumped 1,111,347
		Readings taken at Bandy Town Fan with handheld
		detector at 18:15 were O2 - 20.61, CH4 - 0.1, CO -
4/10/2010 19:19 R	Poha Crowford	19
4/10/2010 19.191	Neba Clawiolu	
1		Readings taken at Bandy Town Fan with handheld
.,,		detector at 18:30 were O2 - 20.59, CH4 - 0.1, CO -
4/10/2010 19:20 R	Reba Crawford	19
		Readings taken at Bandy Town Fan with handheld
		detector at 18:45 were O2 - 20.57, CH4 - 0.1, CO -
4/10/2010 19:21 R	Reba Crawford	22
		Readings taken at Bandy Town Fan with handheld
		detector at 19:00 were O2 - 20.56, CH4 - 0.1, CO -
4/40/2040 40:20	Poha Craudari	
4/10/2010 19:22 R	zena Ciamiold	21
		Readings taken at Bandy Town Fan with handheld
		detector at 19:15 were O2 - 20.59, CH4 - 0.1, CO -
4/10/2010 19:23 R	Reba Crawford	19
		19:30 Report from Rick Hayhurst - Site 1, Hole 1 -
4/10/2010 19:31 R	Reha Crawford	705 scfm flow rate; Total volume pumped 1,159,922
7,10/2010 13.311	TODA OTAWIOIU	
		Readings taken at Bandy Town Fan with handheld
		detector at 19:45 were O2 - 20.57, CH4 - 0.1, CO -
4/10/2010 20:19 R	Reba Crawford	17
		Readings taken at Bandy Town Fan with handheld
1		detector at 20:00 were O2 - 20.59, CH4 - 0.1, CO -
4/10/2010 20:38 R	Reba Crawford I	13

·		IDandings taken at Dandy T
		Readings taken at Bandy Town Fan with handheld
414010010 00 ===		detector at 20:15 were O2 - 20.60, CH4 - 0.1, CO -
4/10/2010 20:39	Reba Crawford	14
44401001001		20:15 - Water gauge at Bandy Town Fan 3 inches;
4/10/2010 20:39	Reba Crawford	157,536 cfm
	•	Readings taken at Bandy Town Fan with handheld
		detector at 20:30 were O2 - 20.62, CH4 - 0.1, CO -
4/10/2010 20:40	Reba Crawford	13
		20:30 - Site 1, Hole 1 - Nitrogen flow rate 702 scfm;
4/10/2010 20:41	Reba Crawford	Total pumped 1,203,420
444040040.00.55		Readings taken at Bandy Town Fan with handheld
4/10/2010 20:55	Reba Crawford	detector at 20:45 were O2 - 20.62, CH4 - 0.1, CO - 7
		Readings taken at Bandy Town Fan with handheld
		detector at 2100 were O2 - 20.59, CH4 - 0.1, CO -
4/10/2010 21:09	Reba Crawford	10
		Readings taken at Randy Town For with headhald
4/10/2010 21:44	Poho Crouford	Readings taken at Bandy Town Fan with handheld
4/10/2010 21:44	Repa Clawford	detector at 21:15 were O2 - 20.57, CH4 - 0.1, CO - 9
4/40/2040 24:45	Dobo Crauford	21:30 - Hole 1, Site 1 - 703 scfm nitrogen flow rate;
4/10/2010 21:45	Repa Crawford	total pumped 1,244,843
		Readings taken at Bandy Town Fan with handheld
4/40/0040 04 50	Date O. C.	detector at 21:30 were O2 - 20.74, CH4 - 0.1, CO -
4/10/2010 21:50	Reba Crawford	25
		Readings taken at Bandy Town Fan with handheld
		detector at 21:45 were O2 - 20.76, CH4 - 0.1, CO -
4/10/2010 21:50	Reba Crawford	24
		Readings taken at Bandy Town Fan with handheld
		detector at 22:00 were O2 - 20.78, CH4 - 0.1, CO -
4/10/2010 22:23	Reba Crawford	23
		Readings taken at Bandy Town Fan with handheld
		detector at 22:15 were O2 - 20.80, CH4 - 0.1, CO -
4/10/2010 22:24	Reba Crawford	20
4/40/06/15 55 55		22:30 - Hole 1, Site 1 - 701 scfm flow rate; Total
4/10/2010 22:39	Reba Crawford	pumped 1,287,849; purity reading 5%
		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
4/10/2010 22:40	Reba Crawford	inch water gauge
		Readings taken at Bandy Town Fan with handheld
		detector at 22:45 were O2 - 20.81, CH4 - 0.1, CO -
4/10/2010 23:19	Reba Crawford	17
		Readings taken at Bandy Town Fan with handheld
		detector at 23:00 were O2 - 20.80, CH4 - 0.1, CO -
4/10/2010 23:21	Reba Crawford	16
		Readings taken at Bandy Town Fan with handheld
İ		detector at 23:15 were O2 - 20.80, CH4 - 0.1, CO -
4/10/2010 23:23	Reba Crawford	17
		23:30 -Hole 1, Site 1-nitrogen flow rate 701 scfm;
		passes riole i, old i indogen new rate / or selli,
4/10/2010 23:40	Clyde Gray	Total pumped 1,327,388: purity reading 5%

	Readings taken at Bandy Town Fan with handheld
	detector at 23:30 were O2 - 20.81, CH4 - 0.1, CO -
4/10/2010 23:52 Clyde Gray	17
	Readings taken at Bandy Town Fan with handheld
	detector at 23:45 were O2 - 20.79, CH4 - 0.1, CO -
4/10/2010 23:54 Clyde Gray	20
	MSHA personal on site Midnight Shift Tech Support
4/10/2010 23:57 Clyde Gray	1 MEU 7 D-4 8 Pier 1
	Readings taken at Bandy Town Fan with handheld
	detector at 00:00 were O2 - 20.78, CH4 - 0.1, CO -
4/11/2010 0:30 Clyde Gray	21
	Readings taken at Bandy Town Fan with handheld
· ·	detector at 00:15 were O2 - 20.77, CH4 - 0.1, CO -
4/11/2010 0:31 Clyde Gray	22
"The to did holyde dray	12:30 Hole 1, Site 1 699 scfm Total nitrogen
4/11/2010 0:49 Clyde Gray	1,366,583 purity 5%
	Reading at bleeder Fan time 22:00 H2 22, O2
	20.95,N2 77.44, CH4 .12, CO 21, CO2 21, C2H2
4/11/2010 0:55 Clyde Gray	ND, C2H4 2, C2H6 34, Ar.93
4/11/2010 0.33 Clyde Glay	Reading at bleeder fan time 22:30 H2 21, O2 20.95,
	N2 77.44, CH4 .12, CO 21, CO2 .07, C2H2 1, C2H4
4/11/2010 1:01 Clude Cray	
4/11/2010 1:01 Clyde Gray	1, C2H6 34, Ar .93
	Reading at bleeder Fan time 23:00 H2 23, O2 20.95,
4/44/0040 4 05/01 4 0	N2 77.74, CH4 .12, CO 19, CO2 .07, C2H2 1, C2H4
4/11/2010 1:05 Clyde Gray	1, C2H6 34, Ar .93
	Readings taken at Bandy Town Fan with handheld
	detector at 00:30 were O2 - 20.76, CH4 - 0.1, CO -
4/11/2010 1:08 Clyde Gray	22
	Readings taken at Bandy Town Fan with handheld
	detector at 00:45 were O2 - 20.81, CH4 - 0.1, CO -
4/11/2010 1:32 Clyde Gray	18
	Readings taken at Bandy Town Fan with handheld
	detector at 01:00 were O2 - 20.80, CH4 - 0.1, CO -
4/11/2010 1:33 Clyde Gray	20
	Readings taken at Bandy Town Fan with handheld
	detector at 01:15were O2 - 20.77, CH4 - 0.1, CO -
4/11/2010 1:35 Clyde Gray	22
	01:30 Hole 1, Site 1 702 scfm Total nitrogen
4/11/2010 1:45 Clyde Gray	1,410,467 purity 5%
	Readings taken at Bandy Town Fan with handheld
	detector at 01:30 were O2 - 20.77, CH4 - 0.1, CO -
4/11/2010 2:16 Clyde Gray	23
	Readings taken at Bandy Town Fan with handheld
1	detector at 01:45 were O2 - 20.77, CH4 - 0.1, CO -
4/11/2010 2:17 Clyde Gray	29
	Reading at Bleeder Fan Time 23:30 H2 23, O2
	20.95, N2 77.74, CH4 .12, CO 19, CO2 .07, C2H2 0,
4/11/2010 2:26 Clyde Gray	C2H4 1, C2H6 34, Ar .93
	Reading at Bleeder Fan Time 00:00 H2 23, O2
	20.95, N2 77.75, CH4 .12, CO 19, CO2 .07, C2H2 0,
4/11/2010 2:32 Clyde Gray	C2H4 1, C2H6 34, Ar .93
17 1 17 ZO TO Z. OZ JOTYGO OTAY	102.11.1, 02.10.01,711.00

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	I=
	Reading at Bleeder Fan Time 00:30 H2 26, O2
	20.95, N2 77.74, CH4 .12, CO 18, CO2 .07, C2H2 1,
4/11/2010 2:35 Clyde Gray	
	02:30 Hole 1, Site 1 703 scfm Total nitrogen
4/11/2010 2:37 Clyde Gray	
4/11/2010 2:45 Clyde Gray	, , , , , , , , , , , , , , , , , , , ,
	Readings taken at Bandy Town Fan with handheld
	detector at 02:15 were O2 - 20.79, CH4 - 0.1, CO -
4/11/2010 3:08 Clyde Gray	
	Readings taken at Bandy Town Fan with handheld
·	detector at 02:30 were O2 - 20.82, CH4 - 0.1, CO -
4/11/2010 3:15 Clyde Gray	
	Readings taken at Bandy Town Fan with handheld
	detector at 02:45 were O2 - 20.81, CH4 - 0.1, CO -
4/11/2010 3:17 Clyde Gray	
	03:30 Hole 1, Site 1, 708 scfm Total nitrogen
4/11/2010 3:37 Clyde Gray	
	Readings at Bleeder Fan 01:00 H2 22, 02 20.95, N2
	77.75 CH4 .11, C0 18, CO2 .07, C2H2 1, C2H4 1,
4/11/2010 3:52 Clyde Grav	
	Reading at Bleeder Fan 01:30 H2 23, 02 20.95, N2
	77.75, CH4 .12, CO 19, CO2 .07, C2H2 ND, C2H4
4/11/2010 3:56 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
4/11/2010 4:12 Clyde Gray	y 1, C2H6 32, Ar .93
	Reading at Bleeder Fan 02:30 H2 23, O2 20.95, N2
	77.74, CH4 .12, CO 18, CO2 .07, C2H2 1, C2H4 1,
4/11/2010 4:17 Clyde Gray	
	Reading taken at Bandy Town Fan with handheld
4/11/2010 4:28 Clyde Gra	
	Reading taken at Bandy Town Fan with handheld
4/11/2010 4:31 Clyde Gra	
	Reading taken at Bandy Town Fan with handheld
4/11/2010 4:34 Clyde Gray	
	04:30 Hole 1, Site 1, 706 scfm Total nitrogen 1,528,
4/11/2010 4:40 Clyde Gra	
	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
4/11/2010 4:55 Clyde Gray	
4/11/2010 5:08 Clyde Grav	
	Reading taken at Bandy Town Fan with handheld
4/11/2010 5:25 Clyde Gray	
	Reading taken at Bandy Town Fan with handheld
4/11/2010 5:27 Clyde Gray	
4/11/2010 5:43 Clyde Gray	·
	05:30 Hole 1, Site 1 704 scfm; Total nitrogen
4/11/2010 5:52 Clyde Gray	
4/11/2010 5:53 Clyde Gray	y 05:30 Hole 3 down at 180 feet and drilling

	Reading taken at Bandy Town Fan 05:45 O2 20.81
4/11/2010 6:30 Clyde Gray	CH4 .1 CO 9
	Reading taken at Bandy Town Fan 06:00 O2 20.76
4/11/2010 6:31 Clyde Gray	CH4 .1 CO 9
	Reading taken at Bandy Town Fan 06:15 O2 20.73
4/11/2010 6:33 Clyde Gray	CH4 .1 CO 11
	06:30 Hole 1, Site 1 706 scfm Total nitrogen
4/11/2010 6:44 Clyde Gray	1,611,111 purity 5%
4/11/2010 6:46 Clyde Gray	#3 hole 255' 06:30
	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
4/11/2010 6:51 Clyde Gray	.93
	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
4/11/2010 6:55 Clyde Gray	.93
	Bleeder Fan 04:00 H2 22, O2 20.95, N2 77.74, CH4
	.12, CO 17, CO2 .07, C2H21, C2H4 2, C2H6 33,
4/11/2010 6:59 Clyde Gray	Ar.93
	Bleeder Fan 04:30 H2 22, O2 20.95, N2 77.74, CH4
	.12, CO 17, CO2 .07, C2H2 1, C2H41, C2H6 33, Ar
4/11/2010 7:02 Clyde Gray	.93
	Bleeder Fan 5:00 H2 22, 02 20.95, N2 77.74, CH4
	.12, Co 16, CO2 .07, C2H2 1, C2H4 1, C2H6 33, Ar
4/11/2010 7:06 Clyde Gray	.93
	Bleeder Fan 05:30 H2 22, 02 20.95, N2 77.74, CH4
	.12, CO 18, CO2 .07, C2H2 1, C2H4 1, C2H6 33, Ar
4/11/2010 7:08 Clyde Gray	.93
	Reading taken at Bandy Town Fan 06:30 O2 20.73,
4/11/2010 7:23 Clyde Gray	CH4 .1, CO 12
	07:25 Hole 1, Site 1, Nitrogen flow rate 706 Total
4/11/2010 7:35 Clyde Gray	pumped 1,645,012 purity 5%
4/11/2010 7:37 Clyde Gray	07:30 Hole 3 down 330 feet
	Reading taken at Bandy Town Fan with handheld
4/11/2010 7:45 Clyde Gray	detector power failure no report for 07:00
11011110190000	Reading taken at Bandy Town Fan with handheld
4/11/2010 7:47 Clyde Gray	detector 07:15 O2 20.75, CH4 .1, CO 20
	Reading taken at Bandy Town Fan with handheld
4/11/2010 7:52 Clyde Gray	detector 07:30 O2 20.74 CH4 .1, CO 22
Timothy	Reading taken at Bandy Town Fan with handheld
4/11/2010 8:10 Workman	detector 07:45 O2 20.74; CH4 0.1; CO 22
Timothy	Reading taken at Bandy Town Fan with handheld
4/11/2010 8:10 Workman	detector 07:45 O2_20.74; CH4 _0.1; CO_18
	Bleeder Fan 4/11/2010, 6:30a.m. H2 22;
	O2 20.95; N2 77.74; CH4 0.12; CO 17;
Timothy	CO20.07; C2H20; C2H41; C2H633;
4/11/2010 8:29 Workman	Ar 0.93; Raw Total 99.14
4/11/2010 0.25 WORMAN	Bleeder Fan 4/11/2010, 6:00a.m. H2 21;
	O2 20.95; N2 77.75; CH4 0.11; CO 16;
Timothy	
4/11/2010 8:31 Workman	CO20.08; C2H20 ; C2H41 ; C2H631 ;
1 4/ 1 1/ 2 0 1 0 6 3 11 VVOTKMAN	Ar 0.93; Raw Total 99.16

		Disades Fee 4/44/2040, 7:00s see 142, 20
		Bleeder Fan 4/11/2010, 7:00a.mH222;
	Time a Alba .	O220.95 ; N277.74 ; CH40.12 ; CO 17;
4/44/2040 0:20	Timothy	CO20.07; C2H20 ; C2H41 ; C2H633 ;
4/11/2010 8:38		Ar0.93 ; Raw Total99.12
4/44/2040.0.44	Timothy	Bandy Town Fan hand held 8:15a.mO220.76;
4/11/2010 8:41		CH40.1; CO18
	Timothy	Bandy Town Fan hand held 8:30a.mO220.76;
4/11/2010 8:41		CH40.1 ; CO16
	Timothy	Hole # 3 at site # 1 is drilling at a depth of 405 feet at
4/11/2010 9:00		8:30a.m.
	Timothy	8:30 Nitrogen information. flow 703 scfm. total
4/11/2010 9:07	Workman	nitrogen 1702764, purity 5%
		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
	Timothy	4 crosscuts of mantrip in the track entry. Mapping
4/11/2010 9:27	Workman	team underground at crosscut 78
		MISC; sample name_1XC-IB 20828; collection date
	i	04/11/10 ; time 2:43 ; H2_1778 ; O2_19.84 ;
	Timothy	N2_77.09 ; CH4_1.28 ; CO_1882 ; CO2_0.48 ;
4/11/2010 9:43		C2H2_53 ; C2H4_177 ; C2H6_40 ; Ar_0.92
		MISC; sample name_1XC-IB 20820; collection date
		04/11/10; time 2:38; H2_2008; O2_19.84;
	Timothy	N2_77.08; CH4_1.26; CO_1868; CO2_0.48;
4/11/2010 9:47		C2H2_63 ; C2H4_178 ; C2H6_50 ; Ar_0.92
		MISC; sample name_1-Entry LOB; collection date
	'	04/11/10; time 5:25; H2_180; O2_19.98;
	Timothy	N2_78.31 ; CH4_0.61 ; CO_294 ; CO2_0.11 ;
4/11/2010 9:52	•	C2H2_12; C2H4_26; C2H6_10; Ar_0.93
1111/2010 0.02	· · ·	02112_12 , 02111_20 , 02110_10 , 11_0.00
		MISC ; sample name Face 040-0MMU ; collection
	1	date 04/11/10; time 5:25; H2, 201; O2, 19.56;
	Timothy	N2_78.07; CH4_1.25; CO_354; CO2_0.13;
4/11/2010 9:56		C2H2_11; C2H4_34; C2H6_30; Ar_0.93
4/11/2010 3:30	VVOIKIIIAII	Nitrogen information at 9:30a.m. Flow 703.1scfm,
1	Timothy	total 1724793. Hole 3, site 1 drill at 405 feet. Drilling
4/11/2010 10:01		progress having trouble with a mine void.
7,11/2010 10.01	VVOINITIAIT	progress having housie with a fillie volu.
		MISC ; sample name_Face 040-0MMU ; collection
		date 04/11/10; time 5:30; H2_204; O2_19.80;
	Timothy	N2_77.94; CH4_1.16; CO_295; CO2_0.12;
4/11/2010 10:05	Timothy	C2H2_13; C2H4_29; C2H6_20; Ar_0.93
4/11/2010 10:05	VVOINIIIdii	
		MISC; sample name_Smoke Area; collection date
	Timethy	04/11/10 ; time 6:30 ; H2_154 ; O2_20.74 ;
4/44/2010 10:00	Timothy	N2_78.03 ; CH4_0.16 ; CO_260 ; CO2_0.09 ;
4/11/2010 10:09		C2H2_nda ; C2H4_nda ; C2H6_nda ; Ar_0.93
4/44/2010 10 10	Timothy	Bandy Town Fan (handheld) at 8:45. O2_19.6 ; CH4-
4/11/2010 10:12		0.1 ; CO_31
4/44/0040 40 40	Timothy	Bandy Town Fan (handheld) at 9:00. O2_19.2 ; CH4-
4/11/2010 10:13	vvorkman	0.2 ; CO_44

	T:4L	ID1-T
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Timothy	Bandy Town Fan (handheld) at 9:15. O2_19.33;
4/11/2010 10:14		CH4-0.2 ; CO_43
	Timothy	Bandy Town Fan (handheld) at 9:30. O2_19.41;
4/11/2010 10:15	Workman	CH4-0.1; CO_34
	Timothy	Reading taken at Bandy Town Fan with handheld
4/11/2010 10:17	Workman	detector 07:45 O2_20.74; CH4 _0.1; CO_22
	Timothy	Bandy Town Fan (handheld) at 9:45. O2 19.19;
4/11/2010 10:22		CH4_0.1; CO_39
	Timothy	Bandy Town Fan (handheld) at 10:00a.m O2_18.91
4/11/2010 10:23		; CH4-0.1 ; CO_41
4/11/2010 10:23	Timothy	Bandy Town Fan ( barometer reading) at10:00a.m.
4/44/2040 40:25	•	
4/11/2010 10:25	vvorkman	4/11/2010 was reported as 29.2155
		Update 9:45 2 back-up mine rescue teams
		outside. 48 persons undergound: 20 mine rescue
ľ	Timothy	members, 26 people mapping and installing
4/11/2010 10:37	Workman	temporary controls, 2 motorman
		readings reported by Joe Macoviac at 10:30. location
[	Timothy	Bandytown fan CH4 0.1; CO 76ppm; O2 18.38;
4/11/2010 10:45	•	CO2 0.02
	Timothy	Bandy Town Fan (handheld) at 10:15. O2 18.38;
4/11/2010 10:51	,	CH4-0.1; CO_76
4/11/2010 10.51		Bandy Town Fan (handheld) at 10:15. O2 18.48;
4/44/0040 40 55	Timothy	, , , , , — , , — , , , , , , , , , , ,
4/11/2010 10:55	vvorkman	CH4-0.1; CO_78
		informed by MSHA/CMI Josh Mcneely that the 10:15
		reading at the bandy fan was not taken, and as a
	Timothy	result the log entry 4/11/2010 10:45:03 and
4/11/2010 11:29	Workman	4/11/2010 10:51:15 are in error.
		CORRECTION Bandy Town Fan (handheld) no
		reading was taken at 10:15, reading at 10:30.
	Timothy	O2_18.38 ; CH4-0.1 ; CO_76; reading at 10:45
4/11/2010 11:32		O2_18.48 ; CH4-0.1 ; CO_78
	Timothy	Bandy Town Fan (handheld) at 11:00. O2_18.65;
4/11/2010 11:33	•	CH4-0.1 ; CO_85
7/11/2010 11:33	Timothy	Bandy Town Fan (handheld) at 11:15. O2_18.75;
4/44/0040 44 04		
4/11/2010 11:34	vvorkman	CH4-0.1; CO_96
		As per Ronnie J. Dooley at 11:35 Two mine rescue
		teams underground at crosscut 101, loading
	Timothy	supplies. All mapping crews are outside. Still have
4/11/2010 11:58	Workman	crews installing temporary control frames.
	Timothy	Bandy Town Fan (handheld) at 11:30. O2 20.70;
4/11/2010 12:03		CH4-0.1; CO_14
	Timothy	Bandy Town Fan (handheld) at 11:45. O2 20.70;
4/11/2010 12:03	,	CH4-0.1; CO 15
-1.11/2010 12.03	TTOMMING	Bandy Town Fan (handheld) equipment was
	Timothy	, , , , ,
4/44/0040 40 07	Timothy	changed between the 11:15a.m. and 11:30a.m.
4/11/2010 12:07	vvorkman	readings on 4/11/2010
		1
	Timothy	Site 1, hole 3 (casing hole) . N2 plant has been off
4/11/2010 12:11	Workman	since 10:08. Reported by James Jackson at 11:45
	Timothy	Bandy Town Fan (handheld) at12:00. O2_20.60;
4/11/2010 12:31	Workman	CH4-0.1; CO_14
	L	<u> </u>

	Timothy	Bandy Town Fan (handheld) at 12:15. O2 20.60;
4/11/2010 12:32		CH4-0.1 ; CO_15
4/11/2010 12.32		OT14-0.1 , OO_10
4/44/2040 42:22	Timothy Workman	Randy Town Fon (horomotor) at 10:45 20:1000
4/11/2010 12:33		Bandy Town Fan (barometer) at 12:15 was 29.1963
A/44/0040 40:00	Timothy	As per James Jackson at 12:30 Nitrogen still
4/11/2010 12:39		turned off. Site 1, hole 3 still -casing the hole.
4/44/0040 40 70	Timothy	Bandy Town Fan (handheld) at 12:30p.m O2_20.60
4/11/2010 12:52		; CH4_0.1 ; CO_17
A144/0040 40:50	Timothy	Bandy Town Fan (handheld) at 12:45p.m O2_20.60
4/11/2010 12:52	VVOINIIIali	; CH4_0.1; CO_16 As per Ronnie J. Dooley at 12:55 One mine rescue
		1 .
	Timethy	team at fresh air base at crosscut 25 proceding inby.
A/44/0040 40 00	Timothy	Supplies being delivered to A section to finish frames
4/11/2010 13:00		with rolled up curtains.
4/44/0040 40 00	Timothy	Bandy Town Fan (handheld) at 13:00p.m O2_20.60
4/11/2010 13:22		; CH4_0.1; CO_15
4/44/0040 40 ==	Timothy	Bandy Town Fan (handheld) at 13:15p.m O2_20.86
4/11/2010 13:23	vvoikman	; CH4_0.1 ; CO_14
	Timeth	As per James Jackson 13:30 site 1, bore hole 3. No
A14410040 40 ==	Timothy	changes still putting in casing. Nitrogen still turned
4/11/2010 13:39		off  Pandy Town Fan (handhold) at 12:15 m. O2: 20:20
414410040	Timothy	Bandy Town Fan (handheld) at 13:15p.m O2_20.86
4/11/2010 14:04		; CH4_0.1 ; CO_14
41441000	Timothy	Bandy Town Fan (handheld) at 13:30p.m O2_20.89
4/11/2010 14:05		; CH4_0.1 ; CO_10
41441001011	Timothy	Bandy Town Fan (handheld) at 13:45p.m O2_20.87
4/11/2010 14:05	vvorkman	; CH4_0.1 ; CO_6
		Bleeder Fan 4/11/2010, 7:30a.mH210;
	Time (	O220.81 ; N278.05 ; CH40.13 ; CO 15;
4/44/0040	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:12	vvorkman	; Ar_0.93
		Bleeder Fan 4/11/2010, 8:00a.mH210;
		O2_20.82; N2_78.05; CH4_0.13; CO_15;
444.000.000	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:13	vvorkman	; Ar0.93
		Bleeder Fan 4/11/2010, 8:30a.mH29;
	True   0	02_20.82; N2_78.04; CH4_0.13; CO_14;
*****	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:14	vvorkman	; Ar0.93
		Bleeder Fan 4/11/2010, 9:00.mH29;
	 	02_20.82; N2_78.05; CH4_0.13; CO_14;
	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:15	vvorkman	; Ar0.93
		Bleeder Fan 4/11/2010, 9:30a.mH29;
	<u></u>	O220.83 ; N278.04 ; CH40.13 ; CO 14;
	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:17	Workman	; Ar0.93
		Bleeder Fan 4/11/2010, 10:00a.mH28 ;
	<u></u>	O220.83 ; N278.04 ; CH40.12 ; CO 13;
	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:18	Workman	; Ar0.93

	<del></del>	DI 1 5 4/4/0040 40.00
		Bleeder Fan 4/11/2010, 10:30a.mH29;
	<i></i>	O220.81 ; N278.05 ; CH40.13 ; CO23;
	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H640
4/11/2010 14:20	Workman	; Ar0.93
		Bleeder Fan 4/11/2010, 11:00a.mH28;
		O220.81 ; N278.05 ; CH40.13 ; CO13;
	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:23	Workman	; Ar0.93
		Bleeder Fan 4/11/2010, 11:05a.mH28;
		O220.80 ; N278.05 ; CH40.14 ; CO 12;
	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H640
4/11/2010 14:24	Workman	; Ar0.93
		Bleeder Fan 4/11/2010, 11:25a.mH27 ;
		O220.81 ; N278.07 ; CH40.11; CO 14;
	Timothy	CO20.07; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:26	Workman	; Ar0.93
		Bleeder Fan 4/11/2010, 11:30a.mH29;
		O220.80 ; N278.06 ; CH40.13 ; CO14;
	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H620
4/11/2010 14:34	Workman	; Ar0.93
		Bleeder Fan 4/11/2010, 12:00a.mH28;
		O220.80 ; N278.05 ; CH40.13 ; CO14;
444400404405	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H640
4/11/2010 14:35	VVorkman	; Ar0.93
		Bleeder Fan 4/11/2010, 12:30a.mH210;
		O220.80 ; N278.06 ; CH40.13 ; CO 15;
4444004044400	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H630
4/11/2010 14:39		; Ar0.93
4/44/0040 44:40	Timothy	Bandy town fan (hand held) air readings
4/11/2010 14:46		at14:00_O2_20.8 ; CH4_0.1 ; CO_2
4/44/0040 44:50	Timothy	As per James Jackson at 14:35 Site 1, hole 3-still
4/11/2010 14:50	vvorkman	installing casing. Nitrogen pumping is still off
		As per Ronnie J. Dooley at 14:10 Four teams
	Timathu	underground, teams still working on temporary
A/44/2040 44/50	Timothy	ventilation controls with curtains rolled up. waiting on
4/11/2010 14:56		supplies to be delievered to crosscut 78
4/11/2010 15:01	Timothy	Bandy Town Fan air readings (hand held) at 14:1502_20.77; CH4_0.1; CO_0
4/11/2010 15:01	Timothy	Bandy Town Fan air readings (hand held) at
4/11/2010 15:02	· •	14:30 O2 20.85 ; CH4 0.3 ; CO 0
7/11/2010 10:02	Timothy	Bandy Town Fan air readings (hand held) at
4/11/2010 15:02	I -	14:30O2_20.70 ; CH4_0.1 ; CO_0
4/11/2010 15:02	VVOIKIIIaii	Bleeder Fan 4/11/2010, 13:00a.m. H2 8;
		O2_20.79; N2_78.05; CH4_0.14; CO_15;
	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H640
4/11/2010 15:11		CO20.06; C2H2nda ; C2H4nda ; C2H640    ; Ar
4/11/2010 13.11	VVOINIII	Bleeder Fan 4/11/2010, 13:30a.m. H2 8 ;
	Timothy	O2_20.78; N2_78.06; CH4_0.14; CO_16;
4/11/2010 15:14	Timothy	CO20.08; C2H2nda ; C2H4nda ; C2H640 ; Ar
4/11/2010 15:14		
	ITimothy	
4/11/2010 15:28	Timothy	Correction to enrty 04/11/2010 15:02:28 the air reading was taken at 14:45

	Timothy	Hand held Bandy Town Fan air reading at 14:45_
4/11/2010 15:31		O2_20.70; CH4_0.1 ; CO_0
		Readings taken at Bandy Town Fan with handheld
4/11/2010 15:50	Reba Crawford	detector at 15:00 were O2 - 20.7, CH4 - 0.1, CO - 0
	·	Readings taken at Bandy Town Fan with handheld
		detector at 15:15 were O2 - 20.68,. CH4 - 0.1, CO -
4/11/2010 15:51	Reba Crawford	0
		Readings taken at Bandy Town Fan with handheld
4/11/2010 15:51	Reba Crawford	detector at 15:30 were O2 - 20.66, CH4 - 0.1, CO - 1
		15:45 - Report from James Jackson - Hole 3, Site 1 -
4/11/2010 16:00	Reba Crawford	just turned nitrogen on at 3:39 p.m no flow rate yet
		Readings taken at Bandy Town Fan with handheld
41441001010		detector at 15:45 were O2 - 20.67, CH4 - 0.1, CO -
4/11/2010 16:03	Reba Crawford	0, Barometer 29.1068
		Readings taken at Bandy Town Fan with handheld
4/44/0040 40 47		detector at 16:00 were O2 - 20.63, CH4 - 0.1, CO -
4/11/2010 16:17	Reba Crawford	0, Barometer 29.1015
		Readings taken at Bandy Town Fan with handheld
4/44/0040 46:20	Doba Crowford	detector at 16:15 were O2 - 20.65, CH4 - 0.1, CO -
4/11/2010 16:38	Reba Crawlold	2, Barometer 29.1006
		Readings taken at Bandy Town Fan with handheld
4/11/2010 16:40	Bobo Crowford	detector at 16:30 were O2 - 20.65, CH4 - 0.1, CO -
4/11/2010 10.40	Repa Crawlold	0, Barometer 29.0985 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 borelole 3 - no change - still
4/11/2010 16:43	Reha Crawford	casing hole
4/1//2010 10:40	TCDA CIAWIOIG	leasing note
		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
	1	and drilling; Hole 2C - setting up drill now and should
4/11/2010 17:14	Reba Crawford	be ready in 1 hour
		Readings taken at Bandy Town Fan with handheld
		detector at 16:45 were O2 - 20.66, CH4 - 0.1, CO -
4/11/2010 17:17	Reba Crawford	1, Barometer 29.0989
		Readings taken at Bandy Town Fan with handheld
		detector at 17:00 were O2 - 20.70, CH4 - 0.1, CO -
4/11/2010 17:18	Reba Crawford	2, Barometer 29.0985
		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
4/11/2010 17:34	Reba Crawford	0.93

	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
4/11/2010 17:35 Reba Crawford	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
4/44/2010 17:44 Pake Crowford	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
4/11/2010 17:44 Reba Crawford	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
" The To The Total Claw of a	rest 20 total depth to be diffied 1 for foot
	Readings taken at Bandy Town Fan with handheld detector at 17:15 were (detector calibrated) O2 -
4/11/2010 17:52 Reba Crawford	20.68, CH4 - 0.1, CO - 25, Barometer 29.0953
	Readings taken at Bandy Town Fan with handheld
	detector at 17:30 were O2 - 20.75, CH4 - 0.1, CO -
4/11/2010 17:53 Reba Crawford	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
17172310 17.00 Noba olawida	Readings taken at Bandy Town Fan with handheld
4/11/2010 18:53 Reba Crawford	detector at 18:00 were O2 - 20.82, CH4 - 0.1, CO - 25, Barometer 29.0931
	Readings taken at Bandy Town Fan with handheld
	detector at 18:15 were O2 - 20.81, CH4 - 0.1, CO -
4/11/2010 18:55 Reba Crawford	26, Barometer 29.0971
·	Readings taken at Bandy Town Fan with handheld
4/44/2040 40 5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	detector at 18:30 were O2 - 20.78, CH4 - 0.1, CO -
4/11/2010 18:57 Reba Crawford	21, Barometer 29.0962
	Readings taken at Bandy Town Fan with handheld
A/44/2040 49:59/Daha Craufard	detector at 18:45 were O2 - 20.76, CH4 - 0.1, CO -
4/11/2010 18:58 Reba Crawford	21, Barometer 29.0947 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,
4/11/2010 19:07 Reba Crawford	trouble getting casing in hole
7.172010 10.071100a Orawiold	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 -
4/11/2010 19:11 Reba Crawford	just started drilling
	<u>r</u>

4/11/2010 19:45	Reba Crawford	drilling; Hole 2C - depth is about 15 feet and drilling
		holding - concrete is curing - expecting to drill again about 2AM; Hole 2B - depth is about 123 feet and
		19:30 - Report from Gary Bragg - Hole 2A - currently
1,11,2010 10.42	- i i i i i i i i i i i i i i i i i i i	sacrig, soc up and roam
4/11/2010 19:42	Reba Crawford	Site 1, Hole 3 - casing fouled at 200 feet, will remove casing, set up and redrill
	,	699 scfm flow rate, O2 - 5%, Total pumped 153,304;
		19:30 - Report from Rick Hayhurst - Site 1, Hole 1 -
4/11/2010 19:37	Reba Crawford	21, Barometer 29.0968
		detector at 19:15 were O2 - 20.80, CH4 - 0.1, CO -
1,11,2010 10.00	TODA OTAMIOIA	Readings taken at Bandy Town Fan with handheld
4/11/2010 19:36	Reba Crawford	detector at 19:00 were O2 - 20.78, CH4 - 0.1, CO - 22, Barometer 29.0962
		Readings taken at Bandy Town Fan with handheld
4/11/2010 19:34	Reba Crawford	0.93
	<u>L</u>	CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
		18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 14;
		Bandy Town Bleeder Fan 4/11/2010, 17:15 were H2
4/11/2010 19:32	Reba Crawford	0.93
		CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
		Bandy Town Bleeder Fan 4/11/2010, 17:00 were H2 18; O2 - 20.95; N2 - 77.74; CH4 - 0.13; CO - 15;
4/11/2010 19:32	Reba Crawford	0.93
		CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
		18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 14;
		Bandy Town Bleeder Fan 4/11/2010, 16:45 were H2
4/11/2010 19:31	Reba Crawford	0.93
		CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
		18; O2 - 20.95; N2 - 77.735; CH4 - 0.13; CO - 15;
7/11/2010 19.30	Titoba Olawiold	Bandy Town Bleeder Fan 4/11/2010, 16:30 were H2
4/11/2010 19:30	Reba Crawford	0.93
		18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 18; CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
	ļ	Bandy Town Bleeder Fan 4/11/2010, 16:15 were H2
4/11/2010 19:27	Reba Crawford	0.93
		CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar -
		18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 16;
	1	Bandy Town Bleeder Fan 4/11/2010, 16:00 were H2
4/11/2010 19:26	Reba Crawford	0.93
	·	CO2 - 0.09; C2H2 - 1; C2H4 - 1; C2H6 - 33; Ar -
		17; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 16;
4/11/2010 19:24	repa Crawford	0.93 Bandy Town Bleeder Fan 4/11/2010, 15:45 were H2
4/11/2010 10:04	Poho Crouford	CO2 - 0.09; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
		18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 19;
		Bandy Town Bleeder Fan 4/11/2010, 15:30 were H2
4/11/2010 19:20	Reba Crawford	0.93
		CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
		18; O2 - 20.95; N2 - 77.75; CH4 - 0.12; CO - 19;
	<u> </u>	Bandy Town Bleeder Fan 4/11/2010, 15:15 were H2

	4/44/2040 40-50 Daha Ozorfard	Readings taken at Bandy Town Fan with handheld detector at 19:30 were O2 - 20.82, CH4 - 0.1, CO -
1	4/11/2010 19:56 Reba Crawford	18, Barometer 29.0997
	4/11/2010 10:57 Poho Crowford	Readings taken at Bandy Town Fan with handheld detector at 19:45 were O2 - 20.75, CH4 - 0.1, CO -
ŀ	4/11/2010 19:57 Reba Crawford	19, Barometer 29.1000
		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 -
	4/11/2010 20:17 Reba Crawford	0.93
		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 -
	4/11/2010 20:17 Reba Crawford	0.93
		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 -
ļ	4/11/2010 20:19 Reba Crawford	0.93
		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 -
ļ	4/11/2010 20:20 Reba Crawford	0.93
	4/44/2040 20:20 Robo Crowford	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
ŀ	4/11/2010 20:30 Reba Crawford	Readings taken at Bandy Town Fan with handheld
	4/11/2010 20:31 Reba Crawford	detector at 20:00 were O2 - 20.71, CH4 - 0.1, CO - 22, Barometer 29.1018
	4/44/0040.00.00 D. I	Readings taken at Bandy Town Fan with handheld detector at 20:15 were O2 - 20.72, CH4 - 0.1, CO -
	4/11/2010 20:32 Reba Crawford	24, Barometer 29.1086 20:35 - Report by Gary Bragg - 2A hold - holding on concrete to dry; 2B - 130 feet and drilling; 2C - 15
ļ	4/11/2010 20:49 Reba Crawford	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
	47 1 1/2010 20.02 Neba Glawiold	Readings taken at Bandy Town Fan with handheld detector at 20:45 were O2 - 20.74, CH4 - 0.1, CO -
	4/11/2010 20:53 Reba Crawford	30, Barometer 29.1242
		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 -
ļ	4/11/2010 21:04 Reba Crawford	0.93
,		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 -
į	4/11/2010 21:05 Reba Crawford	0.93

		ID4-T
		Bandy Town Bleeder Fan 4/11/2010, 19:00 were H2
		18; O2 - 20.95; N2 - 77.74; CH4 - 0.13; CO - 10;
4/44/0040 04 00		CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
4/11/2010 21:06	Reba Crawford	0.93
		Bandy Town Bleeder Fan 4/11/2010, 19:15 were H2
		18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 11;
44441004004		CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar -
4/11/2010 21:06	Reba Crawford	0.93
		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 -
4/11/2010 21:07	Reba Crawford	0.93
		Readings taken at Bandy Town Fan with handheld
4/44/0040-04-04		detector at 21:00 were O2 - 20.75, CH4 - 0.1, CO -
4/11/2010 21:21	Reba Crawford	28, Barometer 29.1263
		Readings taken at Bandy Town Fan with handheld
4/44/0040 04:00	D-1 0	detector at 21:15 were O2 - 20.76, CH4 - 0.1, CO -
4/11/2010 21:22	Reba Crawford	33, Barometer 29.1322
		21:20 Papart from Pick Hauburat - Cita 1 Hala 1.0
		21:30 - Report from Rick Hayhurst - Site 1, Hole 1 0 flow rate 699 scfm, 5% O2, Total pumped 233,000;
4/11/2010 21:31	Pobo Crouford	Site 1, Hole 3 - moved rig to another hole - have not
4/11/2010 21.31	Neba Ciawioiu	started drilling - will continue to call hole 3
		21:30 - Report from Gary Bragg - Hole 2A - waiting
		on concrete to dry; Hole 2B - depth 136 feet and
4/11/2010 21:32	Reha Crawford	drilling; Hole 2C - depth 20 feet and drilling
4/11/2010 21.32	rteba Ciawiciu	Readings taken at Bandy Town Fan with handheld
		detector at 21:30 were O2 - 20.81, CH4 - 0.1, CO -
4/11/2010 22:22	Reha Crawford	31, Barometer 29.1366
17 1 17 20 10 ZZ.ZZ	rioba Giamora	Readings taken at Bandy Town Fan with handheld
		detector at 21:45 were O2 - 20.84, CH4 - 0.1, CO -
4/11/2010 22:23	Reba Crawford	29, Barometer 29.1411
		Readings taken at Bandy Town Fan with handheld
		detector at 22:00 were O2 - 20.87, CH4 - 0.1, CO -
4/11/2010 22:24	Reba Crawford	23, Barometer 29.1443
		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
4/11/2010 22:30	Reba Crawford	1, Hole 3 - drill rig set up - no drilling being done
		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
4/11/2010 22:41	Reba Crawford	drillers are working on
		Readings taken at Bandy Town Fan with handheld
		detector at 22:15 were O2 - 20.88, CH4 - 0.1, CO -
4/11/2010 22:42	Reba Crawford	21, Barometer 29.1452
		Readings taken at Bandy Town Fan with handheld
		, , , , , , , , , , , , , , , , , , , ,
4/11/2010 22:43		detector at 22:30 were O2 - 20.87, CH4 - 0.1, CO -

		ı	Boodings taken at Bandy Town Fan with handhold
	i		Readings taken at Bandy Town Fan with handheld
	4/44/2040 20:00	Daniel Danie	detector at 22:45 were O2 - 20.83, CH4 - 0.1, CO -
	4/11/2010 23:22	Ronaid Barber	23, Barometer 29.1481
			Readings taken at Bandy Town Fan with handheld
,	4/11/2010 22:29	Danald Darbar	detector at 23:00 were O2 - 20.83, CH4 - 0.1, CO -
	4/11/2010 23:28	Ronald Barber	27, Barometer 29.1493
	1		Readings taken at Bandy Town Fan with handheld
	4/11/2010 22:22	Danald Darbar	detector at 2315 were O2 - 20.83, CH4 - 0.1, CO -
	4/11/2010 23:32	Ronaid Barber	27, Barometer 29.1475.
			Bandy Town Bleeder Fan 4/11/2010, 19:30 were H2
			18; O2 - 20.95; N2 - 77.74; CH4 - 0.12; CO - 11;
	4/11/2010 22:47	Danald Darbar	CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 33; Ar -
	4/11/2010 23:47	Ronaid Barber	0.93.
			Bandy Town Bleeder Fan 4/11/2010, 19:45 were H2
			17; O2 - 20.95; N2 - 77.74; CH4 - 0.11; CO - 11;
	4/11/2010 22:40	Danald Dankar	CO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 30; Ar -
	4/11/2010 23:49	Kouaid Barber	0.93
		ļ	Bandy Town Bleeder Fan 4/11/2010, 20:00 were H2
			18; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 11;
	4/11/2010 22:50	Daneld Danhar	GO2 - 0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar -
	4/11/2010 23:50	Ronald Barber	0.93 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 -
	4/11/2010 23:53	Panald Parhar	0.93
	4/11/2010 23.53	Ronald barber	0.93
			Bandy Town Bleeder Fan 4/11/2010, 20:30 were H2
			18; O2 - 20.95; N2 - 77.73; CH4 - 012 -; CO2 -
	4/11/2010 23:55	Popald Barbor	0.08; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar - 0.93
	4/11/2010 25:55	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 -
	4/11/2010 23:56	Ronald Barber	0.93
	4/11/2010 20:00	Tronaid Baibei	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 -
	4/11/2010 23:57	Ronald Barber	10.93
		. tonaia baiboi	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 -
	4/11/2010 23:58	Ronald Barber	0.93
			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 -
	4/12/2010 0:00	Ronald Barber	10.93
	17 12/2010 0.00	TOTAL BUIDE	Readings taken at Bandy Town Fan with handheld
			detector at 23:30 were O2 - 20.84, CH4 - 0.2, CO -
	4/12/2010 0:04	Ronald Barber	28, Barometer 29.1464
	1,712,720,10 0.04	Tonaia Daibei	Readings taken at Bandy Town Fan with handheld
			I
	<i>∆/12/2</i> 010 0·06	Ronald Barber	detector at 23:45 were O2 - 20.91, CH4 - 0.2, CO - 26, Barometer 29.1475

		IDeadings taken at Dandy Taylor 5 - 10 to 10 to
		Readings taken at Bandy Town Fan with handheld
4/40/0040 0.50	Damald Dadean	detector at 00:00 were O2 - 20.91, CH4 - 0.2, CO -
4/12/2010 0:53	Ronald Barber	26, Barometer 29.1505
		Readings taken at Bandy Town Fan with handheld
		detector at 00:15 were O2 - 20:90, CH4 - 0.2, CO -
4/12/2010 1:09	Ronald Barber	24 , Barometer 29.1535
		Readings taken at Bandy Town Fan with handheld
		detector at 00:30 were O2 - 20.90, CH4 - 0.2, CO -
4/12/2010 1:11	Ronald Barber	22, Barometer 29.1540
		MSHA Personnel on site 4/12/2010 - Midnight 1)
4/12/2010 1:15	Ronald Barber	Tech Support - 1 2) Dist. 4 - 10 3)MEU - 6
		AR Rodney Lusk called from drill site 2A, 2B, 2C 2A
		will start drilling at 02:00. 2B is at 155', currently
4/12/2010 1:21	Ronald Barber	drilling. 2C disabled - working on collar.
		AR Kevin Lyall called from drill site 1 at 00:30. 695
		CFM Nitrogen being pumped 5% O2 Total since
4/12/2010 1:25	Ronald Barber	
4/ 12/2010 1.23	Nonaiu Baibei	start 358,607. Working to start drilling UBB site 1
		Readings taken at Bandy Town Fan with handheld
4/40/0040 4:00	Danald Dada	detector at 00:45 were O2 - 20.82, CH4 - 0.2, CO -
4/12/2010 1.29	Ronald Barber	22, Barometer 29.1567
	<u> </u>	Readings taken at Bandy Town Fan with handheld
4/40/0040 4:07	Damald Dadaa	detector at 01:00 were O2 - 20.76, CH4 - 0.2, CO -
4/12/2010 1:37	Ronald Barber	20, Barometer 29.1588
		Readings taken at Bandy Town Fan with handheld
	<u>_</u>	detector at 0:115 were O2 - 20.76, CH4 - 0.2, CO -
4/12/2010 1:41	Ronald Barber	21, Barometer 29.1617
		AR Kevin Lyall called from drill site - 1st Right hole
		@ 1:40 Hole started at 1:10. At 1:30, down 3'.
4/12/2010 1:45	Ronald Barber	Nitrogen- 683 CFM 402,251 ST3.
		AR Rodney Lusk called at 1:50 2A - not started 2B
4/12/2010 1:47	Ronald Barber	165' 2C idle
		Bandy Town Bleeder Fan 4/11/2010, 22:00 were H2
		18; O2 - 20.95; N2 - 77.71; CH4 - 0.12; CO - 28;
	1	CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar -
4/12/2010 1:54	Ronald Barber	0.93
		Bandy Town Bleeder Fan 4/11/2010, 22:15 were H2
		16; O2 - 20.95; N2 - 77.73; CH4 - 0.12; CO - 11;
	1	CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar -
4/12/2010 1:56	Ronald Barber	0.93
		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 -
4/12/2010 1:58	Ronald Barber	0.93
		Bandy Town Bleeder Fan 4/11/2010, 22:45 were H2
	i	22; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 15;
		CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 32; Ar -
4/12/2010 2:01	Ronald Barber	0.93
		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 -
4/12/2010 2:02	Ronald Barber	0.93
4/ 12// 11 11 / 11/		

	1	Pandy Town Blooder Fon 4/44/2040, 22:45 1/2
		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 -
4/40/0040 0:05	Donald Dorbor	
4/12/2010 2.00	Ronald Barber	0.93
		Bandy Town Bleeder Fan 4/11/2010, 23:30were H2 -
		22; O2 - 20.95; N2 - 77.71; CH4 - 0.20; CO - 11;
44404004000	<u> </u>	CO2 - 0.07; C2H2 - nda; C2H4 - 3; C2H6 - 37; Ar -
4/12/2010 2:06	Ronald Barber	0.93
		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 -
4/12/2010 2:09	Ronald Barber	0.93
		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 -
4/12/2010 2:10	Ronald Barber	0.93
		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 -
4/12/2010 2:12	Ronald Barber	0.93
4/12/2010 2:20	Ronald Barber	No further underground activity until 0:430.
		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 -
4/12/2010 2:26	Ronald Barber	0.93
		Bandy Town Bleeder Fan 4/12/2010, 00:45were H2 -
		19; O2 - 20.95; N2 - 77.71; CH4 - 0.16; CO - 16;
	•	CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 37; Ar -
4/12/2010 2:31	Ronald Barber	0.93
		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 -
4/12/2010 2:32	Ronald Barber	0.93
······································		Bandy Town Bleeder Fan 4/12/2010, 01:15 were H2
	<b>l</b> ,	18; O2 - 20.95; N2 - 77.72; CH4 - 0.15; CO - 13;
		CO2 - 0.07; C2H2 - nda; C2H4 - 1; C2H6 - 37; Ar -
4/12/2010 2:40	Ronald Barber	0.93
		AR Kevin Lyall called from site 1 at 02:40 730 CFM
4/12/2010 2:42	Ronald Barber	O2 5% 442,980 @02:30 UBA 1st rt. 10' deep.
		Readings taken at Bandy Town Fan with handheld
		detector at 01:30 were 20.76, CH4 - 0.2, CO - 20,
4/12/2010 2:59	Ronald Barber	Barometer 29.1635
		Readings taken at Bandy Town Fan with handheld
		detector at 01:45 wre O2 - 20.77, CH4 - 0.1, CO -
4/12/2010 3:01	Ronald Barber	21, Barometer 29.1626
***		Readings taken at Bandy Town Fan with handheld
		detector at 02:00 were O2 - 20.78, CH4 - 0.1, CO -
4/12/2010 3:05	Ronald Barber	21, Barometer 29.1629
		Readings taken at Bandy Town Fan with handheld
		detector at 02:15 were O2 - 20.78, CH4 - 0.1, CO -
4/12/2010 3:07	Ronald Barber	21, Barometer 29.1620
	I toliaia Daibel	In the second control of the second control

<del></del>		IAD Dedection and the control of the
4/40/0040 0 00	Dameld Deals	AR Rodney Lusk called - in at 02:45 2A - About to
4/12/2010 3:09	Ronald Barber	start 2B - 180' down 2C Still idle
4/40/0040 0 07	Daniel de Deutse	Bandy Town Bleeder Fan 4/12/2010, 01:30 , 01:45,
4/12/2010 3:27	Ronald Barber	0200, no readings.
		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 -
4/12/2010 3:33	Ronald Barber	0.93
		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 -
4/12/2010 3:34	Ronald Barber	0.93
		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 -
4/12/2010 4:19	Ronald Barber	490,662
	,	Kevin Lyall called - in at 03:45 1st rt. hole 20' deep
4/12/2010 4:20	Ronald Barber	O2 5%
		Bandy Town Bleeder Fan 4/12/2010, 02:45were H2 -
		17; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 11;
4/12/2010 4:31	Ronald Barber	CO2 - 0.07; C2H4 - 1;C2H6 -36; Ar - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 03:00 were H2
		16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2
4/12/2010 4:33	Ronald Barber	0.07; C2H4 - 1;C2H6 -36; Ar - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 03:30 were H2
		17; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 10;
4/12/2010 4:34	Ronald Barber	CO2 - 0.07; C2H4 - 1;C2H6 -36; Ar - 0.93
		AR Kevin Lyall called in at 04:35 729 cfm nitrogen,
		total 525,401cf 5% O2 1st rt. hole 20' deep, 24"
4/12/2010 4:38	Ronald Barber	casing Changing drill bit
		Readings taken at Bandy Town Fan with handheld
		detector at 02:30 were O2 - 20.78, CH4 - 0.1, CO -
4/12/2010 4:45	Ronald Barber	24, Barometer 29.1600
1		Readings taken at Bandy Town Fan with handheld
		detector at 02:45 were O2 - 20.78, Ch4 - 0.1, CO -
4/12/2010 4:47	Ronald Barber	22, Barometer - 29.1588
77 12/2010 7.71	. Condid Darbor	Readings taken at Bandy Town Fan with handheld
		detector at 03:00 were O2 - 20.79, CH4 - 0.1, CO -
A/12/2010 4:40	Ronald Barber	22, Barometer 29.1573
7/12/2010 4.49	TOTAL DAIDE	Readings taken at Bandy Town Fan with handheld
		detector at 03:15 were O2 - 20.78, CH4 - 0.1, CO -
A/12/2010 4:51	Ronald Barber	21, Barometer - 29.1594
4/12/2010 4.51	TOHAIU DAIDEI	
		Readings taken at Bandy Town Fan with handheld
4/40/0040 4:50	Panald Dadies	detector at 03:30 were O2 - 20.79, Ch4 - 0.1, Co -
4/12/2010 4:52	Ronald Barber	21, Barometer 29.1600
		Readings taken at Bandy Town Fan with handheld
4/40/0040 / ==	D	detector at 03: 45 were O2 - 20.79, CH4 - 0.1, CO -
4/12/2010 4:55	Ronald Barber	18, Barometer 29.1597
		Readings taken at Bandy Town Fan with handheld
		detector at 04:00 were O2 - 20.78, CH4 - 0.1, CO -
4/12/2010 5:01	Ronald Barber	14, Barometer - 29.1617

·		Deadings taken at Dandy Tayya Can with bondhald	
		Readings taken at Bandy Town Fan with handheld	
4/42/2010 F:04 Bar	a alal Dankan	detector at 04:15 were O2 - 20.78, CH4 - 0.1, CO -	
4/12/2010 5:04 Ror	naid baibei	13, Barometer - 29.1600	
		Readings taken at Bandy Town Fan with handheld	
		detector at 04:30 were O2 - 20.79, CH4 - 0.1, CO -	
4/12/2010 5:06 Ror	nald Barber	17, Barometer - 29.1626	
		<b> </b>	
		AR Rodney Lusk called in at 04:40 2A not started 2B	
4/12/2010 5:08 Ror	nald Barber	187' deep 2C idle - waiting on concrete	
		<u></u> .,	
		AR Kevin Lyall called in at 05:40 from site 1 705 cfm,	
4/12/2010 5:40 Ror	nald Barber	5% O2 566,907 total Still changing bitr at 1st rt.	
		AR Rodney Lusk called in at 05:45 from drill site 2A	
		has started back up- concrete not firm will not try	
4/12/2010 5:43 Ror	nald Barber	again until 10:00 2B hole - 194' deep 2C still idle	
		Readings taken at Bandy Town Fan with handheld	
		detector at 04:45 were O2 20.79, CH4 - 0.1,CO - 18,	
4/12/2010 5:57 Ror	nald Barber	Barometer 29.1647	
		Readings taken at Bandy Town Fan with handheld	
		detector at 05:00 were O2 - 20.80, CH4 - 0.1, CO -	
4/12/2010 5:59 Ror	nald Barber	18, Barometer 29 1679	
		Readings taken at Bandy Town Fan with handheld	
		detector at 05:15 were O2 - 20.79, CH4 - 0.1, CO -	
4/12/2010 6:02 Ror	nald Barber	11	
		Readings taken at Bandy Town Fan with handheld	
		detector at 05:30 were O2 - 20.78, CH4 - 0.1, CO -	
4/12/2010 6:03 Ror	nald Barber	12, Barometer 29.1703	
		Readings taken at Bandy Town Fan with handheld	
		detector at 05:45 were O2 - 20.78, CH4 - 0.1, CO -	
4/12/2010 6:05 Ror	nald Barber	11, Barometer - 29.1703	
		Bandy Town Bleeder Fan 4/12/2010, 03:15 were H2	
		17; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 10;	
4/12/2010 6:23 Ror	nald Barber	CO2 - 0.07; C2H4 - 1;C2H6 -36; Ar - 0.93	
		Bandy Town Bleeder Fan 4/12/2010, 03:45 were H2	
1		17; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 11;	
4/12/2010 6:26 Ror	nald Barber	CO2 - 0.07; C2H4 - 2;C2H6 -36; Ar - 0.93	
		222 223, 22 2,22 00,711 0.00	
1		Bandy Town Bleeder Fan 4/12/2010, 04:00 were H2	
İ		16; O2 - 20.95; N2 - 77.72; CH4 - 0.14; CO - 9; CO2	
4/12/2010 6:30 Ror	nald Barber	0.08; C2H2 - nd;C2H4 - 1;C2H6 -35; Ar - 0.93	
	a Daibei	5.55, 52.12 11d, 52.11 1,52.116 55,71 0.55	
		Bandy Town Bleeder Fan 4/12/2010, 04:30 were H2	
}		16; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 10;	
4/12/2010 6:34 Ror	nald Barber	CO2 - 0.08;C2H2- nd; C2H4 - 1;C2H6 -35; Ar - 0.93	
7/12/2010 0.54 Rui		Bandy Town Bleeder Fan 4/12/2010, 04:15 were H2	
		16; O2 - 20.95; N2 - 77.72; CH4 - 0.14; CO - 10;	
4/12/2010 G:20 D		CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -35; Ar -	
4/12/2010 6:36 Ror	nalu balbel	0.93	

	l <sub>R</sub>	Bandy Town Bleeder Fan 4/12/2010, 04:45 were H2
·		6; O2 - 20.95; N2 - 77.73; CH4 - 0.12; CO - 9; CO2
4/12/2010 6:39 Rona		0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
17 12/20 TO 0.00 TROMA		Bandy Town Bleeder Fan 4/12/2010, 05:00 were H2
		8; O2 ;20.95 CH4 - 0.13; CO - 10; CO2 - 0.08;
4/12/2010 6:42 Rona		C2H2 - nd; C2H4 - 1;C2H6 -35; Ar - 0.93
W12/2010 0.12 Hone	u Dailboi   O	7,02110 00,711 0.00
	la	AR Kevin Lyall called in at 06:40 from site 1 cfm -
4/12/2010 6:46 Rona		34 5% O2 total 608,601 1st rt. still changing drill bit
		AR Rodney Lusk called in at 06:45 from site 2A -
4/12/2010 6:49 Rona	ld Barber 🛮 lid	dle, 2C idle 2B at 200'
	В	Bandy Town Bleeder Fan 4/12/2010, 05:15 were H2
	110	6; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 11;
	C	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -34; Ar -
4/12/2010 6:51 Rona		.93
		Bandy Town Bleeder Fan 4/12/2010, 05:30 were H2
		6; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
		CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -34; Ar -
4/12/2010 6:52 Rona		0.93
	1	Bandy Town Bleeder Fan 4/12/2010, 05:45 were H2
	1	8; O2 - 20.95; N2 - 77.73; CH4 - 0.14; CO - 10;
		CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -34; Ar -
4/12/2010 6:53 Rona		0.93
4/12/2010 6:57 Rona		wo teams scheduled to go underground at 06:50
		Readings taken at Bandy Town Fan with handheld
4/42/2040 7:40 8		letector at 06:00 were O2 - 20.78, CH4 - 0.1, CO -
4/12/2010 7:10 Rona		3, Barometer - 29.1759 Readings taken at Bandy Town fan with handheld
		letector at 06:15 were O2 - 20.80, CH4 - 0.1, CO -
4/12/2010 7:11 Rona		), Barometer - 29.1845
4/12/2010 /.11 Rolla		Readings taken at Bandy Town Fan with handheld
		letector at 06:30 were O2 - 20.80, Ch4 - 0.1, Co -
4/12/2010 7:13 Rona		0, Barometer 29.1874
		Readings taken at Bandy Town Fan with handheld
		letector at 06:45 were O2 - 20.81, CH4 - 0.1, CO -
4/12/2010 7:15 Rona		· · · · · · · · · · · · · · · · · · ·
		Readings taken at Bandy Town Fan with handheld
		letector at 07:00 were O2 - 20.83, CH4 - 0.1, CO -
4/12/2010 7:16 Rona		· · · · · · · · · · · · · · · · · · ·
4/12/2010 7:31 Rona		Barometer at 06:45 - 29.1933; at 0700 - 29.1972
]		AR Kevin Lyall called in from site 1 at 07:40 cfm 732
4/12/2010 7:36 Rona		O2 - 5% total 647,774 drill truck, site 1, first rt. idle
		R Rodney Lusk called in at 07:45 2A, 2C still idle
4/12/2010 7:41 Rona		B at 205'
		Bandy Town Bleeder Fan 4/12/2010, 06:15 were H2
		8; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
		CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -34; Ar -
4/12/2010 7:44 Rona	d Barber   0.	1.93

		T
		Bandy Town Bleeder Fan 4/12/2010, 06:30 were H2
1		16; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 9; CO2
4/12/2010 7:45	Ronald Barber	0.08; C2H2 - nd; C2H4 - 1;C2H6 -34; Ar - 0.93
7,12,2010 1.10	Tronaid Barbor	Bandy Town Bleeder Fan 4/12/2010, 06:45 were H2
		16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 11;
	Timothy	CO2 - 0.08 ;C2H2 - nd; C2H4 - 1;C2H6 -34; Ar -
4/12/2010 8:07		0.93
4/ 12/2010 0.07	VVOIRIIIAII	Bandy Town Bleeder Fan 4/12/2010, 07:00 were H2
		18; O2 - 20.95; N2 - 77.73; CH4 - 0.13; CO - 10;
	Timothy	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
4/12/2010 8:10	1 -	0.93
4/ 12/2010 8.10	vvorkman	
	T: 41	Update as per Ronnie J Dooley-MHSA. Four teams
4/40/2040 0 05	Timothy	underground at crosscut 78, proceeding to crosscut
4/12/2010 8:25	vvorkman	139 to complete seals and install tubing
		Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 07:15 were O2 - 20.84, CH4 - 0.1, CO -
4/12/2010 8:50	Workman	10, Barometer 29.2078
	<u></u>	Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 07:30 were O2 - 20.84, CH4 - 0.1, CO -
4/12/2010 8:53	Workman	9, Barometer 29.2187
		Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 08:00 were O2 - 20.85, CH4 - 0.1, CO -
4/12/2010 8:56	Workman	2, Barometer 29.2361
		Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 07:45 were O2 - 20.84, CH4 - 0.1, CO - 3
4/12/2010 8:56	Workman	Barometer 29.2293
		Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 08:15 were O2 - 20.85, CH4 - 0.1, CO -
4/12/2010 8:58	Workman	5, Barometer 29.2435
		Readings taken at Bandy Town Fan with handheld
İ	Timothy	detector at 08:30 were O2 - 20.83, CH4 - 0.1, CO -
4/12/2010 9:02	Workman	8, Barometer 29.2923
	Timothy	
4/12/2010 9:03		update: at 8:45 Two teams entering mine.
		8:30 as per Kevin Lyale-MSHA Nitrogen-729 scfm,
	Timothy	purity 5%, Total 686620. Site 1, 1st right hole 20 feet
4/12/2010 9:07		in depth changing bits
	Timothy	8:30 as per James Jackson -MSHA. Bandy town Fan
4/12/2010 9:12	•	air reading 454,000cfm, water guage 3.1
		As per Ronnie J. Dooley at 9:00 Mine rescue
	Timothy	team at crosscut 129, 1 break inby spad 20208,
4/12/2010 9:18		track entry_250cfm, 20.9_O2; 0.0_CH4; 0_CO
0.12,2313 0.10		Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 08:45 were O2 - 20.80, CH4 - 0.1, CO -
4/12/2010 9:21		10, Barometer 29.2432
4/12/2010 9.21	VVOINITIATI	Readings taken at Bandy Town Fan with handheld
	Timothy	detector at 09:00 were O2 - 20.80, CH4 - 0.1, CO -
4/10/2010 0:24	•	
4/12/2010 9:24	Ivvoikilian	11, Barometer 29.2391

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. Hole 2B drilling at a depth of 222 feet. Hole 2C idle-waiting for cement to dry, expect to drill at 10:00.  As per Perry Brown at 09:30. Site 1, 1st right Hole Drilling at a depth of 35 feet.  Drilling at a depth of 35 feet.  As per Perry Brown at 9:30a.m. Nitrogen Flow 720.1 scfm, purity 5%, total 729;527  Readings taken at Bandy Town Fan with handheld detector at 9:15 were 02 - 20.82, CH4 - 0.1, CO - 13, Barometer 29:2361  Readings taken at Bandy Town Fan with handheld detector at 09:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29:2314  Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29:2314  Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29:2314  Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29:2314  Readings taken at Bandy Town Fan with handheld detector at 00:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 7, Barometer 29:2353  Readings taken at Bandy Town Fan with handheld detector at 01:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29:2353  Readings taken at Bandy Town Fan with handheld detector at 01:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29:2353  Readings taken at Bandy Town Fan with handheld detector at 01:03 workman  Readings taken at Bandy Town Fan with handheld detector at 01:03 workman were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29:2353  Bandy Town Bleeder Fan 4/12/2010, 07:15 were H2 16; 02 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93  Bandy Town Bleeder Fan 4/12/2010, 07:30 were H2 16; 02 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 16; 02 -			· · · · · · · · · · · · · · · · · · ·
Timothy			As per Ben Dulin at 00:00a m Hole 24 idle waiting
Timothy   drilling at a depth of 222 feet. Hole 2C idle-waiting for cement to dry, expect to drill at 10:00.   Timothy   As per Perry Brown at 09:30. Site 1, 1st right Hole   Drilling at a depth of 35 feet.   Timothy   As per Perry Brown at 9:30a.m. Nitrogen Flow 720.1			
### 12/2010 9:31 Workman Cement to dry, expect to drill at 10:00.  ### A per Perry Brown at 09:30. Site 1, 1st right Hole Drilling at a depth of 35 feet.  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1 scfm, purity 5%, total 72:95.27  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1 scfm, purity 5%, total 72:95.27  ### Readings taken at Bandy Town Fan with handheld detector at 9:15 were 02 - 20.82, CH4 - 0.1, CO - 13, Barometer 29.2361  ### Readings taken at Bandy Town Fan with handheld detector at 09:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2333  ### Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314  ### A per Perry Brown at 09:30 s.iii e 1, 1st right Hole Drilling at a depth of 15 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2335  ### Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314  ### A per Perry Brown at 09:30 s.iii e 1, 1st right Hole Drilling at a depth of 20 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.236 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.235 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.235 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.235 were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2353  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown at 9:30a.m. Nitrogen Flow 720.1  ### A per Perry Brown Ea ta Bandy Town Fan with handheld detector at 010:03a m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2355  ### A per Perry Brown Ea ta Bandy Town Fan with handheld detector at 010:03a m. were 02 - 20.84, CH4 - 0.1, CO - 8, Barometer 29.2355  ### A per Perry Brown Ea ta		Timothy	
As per Perry Brown at 09:30. Site 1, !st right Hole   Drilling at a depth of 35 feet.   Timothy   As per Perry Brown at 9:30a.m. Nitrogen Flow 720.1	4/12/2010 0:31	1	
A/12/2010 9:36   Workman	4/12/2010 9.31		
As per Perry Brown at 9:30a.m. Nitrogen Flow 720.1 scfm, purity 5%, total 729,527   Scfm, purity	4/12/2010 0:36		
Scfm, purity 5%, total 729,527   Readings taken at Bandy Town Fan with handheld detector at 9:15 were 02 - 20.82, CH4 - 0.1, CO - 13, Barometer 29.2361   Readings taken at Bandy Town Fan with handheld detector at 0:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2323   Readings taken at Bandy Town Fan with handheld detector at 0:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2323   Readings taken at Bandy Town Fan with handheld detector at 0:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314   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.   Update as per Kieth Sigmon -MSHA at 10:35. Mine rescue team at seal 8 north. air 02_20.7;0.5_CH4; 500pm_CO. installing curtain to sweep the air.   Readings taken at Bandy Town Fan with handheld detector at 010:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2353   Readings taken at Bandy Town Fan with handheld detector at 010:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2354   Readings taken at Bandy Town Fan with handheld detector at 010:15 were 02 - 20.85, CH4 - 0.1, CO - 7, Barometer 29.2354   Readings taken at Bandy Town Fan with handheld detector at 010:15 were 02 - 20.85, CH4 - 0.1, CO - 8, Barometer 29.2335   Bandy Town Bleeder Fan 4/12/2010, 07:15 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 4/12/2010 10:45   Workman   Sandy 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   Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 4/12/2010 10:45   Kim Diederich   CH4 . 10%   CO 8ppm   CO2 0.06%   Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 4/12/2010 10:46   Workman   CH4 . 10%   CO 8ppm   CO2 0.06%   CH4 . 10%   CO 8ppm   CO2 0.06%   CH4 . 10%   CO 8ppm   CO2 0.06%   CH4 . 10%   CO 8ppm   CO	4/12/2010 9.30		
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 9:38		· · · · · · · · · · · · · · · · · · ·
Timothy   A/12/2010 9:41   Workman   Readings taken at Bandy Town Fan with handheld detector at 09:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29:2323   Readings taken at Bandy Town Fan with handheld detector at 09:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29:2323   Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29:2314   10:00a.m. as per Ben Dulin-MHSA. Hole 2A Drillling 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.   Update as per Kieth Sigmon - MSHA at 10:35. Mine rescue team at seal 8 north. air 02_20.7;,0.5_CH4; 500ppm_CO. installing curtain to sweep the air.   Readings taken at Bandy Town Fan with handheld detector at 010:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29:2353   Readings taken at Bandy Town Fan with handheld detector at 010:15 were 02 - 20.84, CH4 - 0.1, CO - 7, Barometer 29:2364   Readings taken at Bandy Town Fan with handheld detector at 010:30a.m. were 02 - 20.84, CH4 - 0.1, CO - 8, Barometer 29:2335   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   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   CH4 - 10:46   CH4 - 10:46   CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93   CH4 - 10:46   CH4 - 10:46   CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93   CH4 - 10:46   CH4	4/12/2010 9:30	VVOIKITIATI	
13, Barometer 29.2361   Readings taken at Bandy Town Fan with handheld detector at 09;30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2323   Readings taken at Bandy Town Fan with handheld detector at 09;45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314   10:00 a.m. as per Ben Dulin-MHSA. Hole 2A Drilling at a depth of 1020 feet. hole has a 6 inch casing.		Timothy	, ,
Readings taken at Bandy Town Fan with handheld detector at 09:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2323     Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314     10:00.a.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 1027 feet, not drilling, waiting on water.	4/12/2010 9:41		
Timothy   detector at 09:30 were 02 - 20.83, CH4 - 0.1, CO - 13, Barometer 29.2323   Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314   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.   Update as per Kieth Sigmon -MSHA at 10:35. Mine rescue team at seal 8 north. air 02_20.7;0.5_CH4;	4/12/2010 9.41	VVOIKITIAIT	
13, Barometer 29.2323   Readings taken at Bandy Town Fan with handheld detector at 09:45 were 02 - 20.83, CH4 - 0.1, CO - 7, Barometer 29.2314   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.   Update as per Kieth Sigmon -MSHA at 10:35. Mine rescue team at seal 8 north. air 02_20.7;,0.5_CH4; 500ppm_CO. installing curtain to sweep the air.   Readings taken at Bandy Town Fan with handheld detector at 010:00a.m. were 02 - 20.84, CH4 - 0.1, CO - 9, Barometer 29.2353   Readings taken at Bandy Town Fan with handheld detector at 010:15 were 02 - 20.85, CH4 - 0.1, CO - 7, Barometer 29.2364   Readings taken at Bandy Town Fan with handheld detector at 010:30a.m. were 02 - 20.84, CH4 - 0.1, CO - 8, Barometer 29.2335   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   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   CH4 - 10%   CO 8ppm   CO2 0.06%   CH4 - 10%   CO 8ppm   CO2 0.06%   CH4 - 10; CO3 - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO		Timothy	-
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Timothy 4/12/2010 9:58 Workman  Timothy 4/12/2010 9:58 Workman  Timothy 4/12/2010 10:27 Workman  Timothy 4/12/2010 10:27 Workman  Timothy 4/12/2010 10:27 Workman  Timothy 4/12/2010 10:27 Workman  Timothy 4/12/2010 10:35 Workman  Timothy 4/12/2010 10:35 Workman  Timothy 4/12/2010 10:35 Workman  Timothy 4/12/2010 10:35 Workman  Timothy 4/12/2010 10:35 Workman  Timothy 4/12/2010 10:37 Workman  Timothy 4/12/2010 10:37 Workman  Timothy 4/12/2010 10:38 Workman  Timothy 4/12/2010 10:38 Workman  Timothy 4/12/2010 10:39 Workman  Timothy 4/12/2010 10:39 Workman  Timothy 4/12/2010 10:39 Workman  Timothy 4/12/2010 10:43 Workman  Timothy 4/12/2010 10:43 Workman  Timothy 4/12/2010 10:43 Workman  Timothy 4/12/2010 10:45 Kim Diederich  Timothy 4/12/2010 10:45 Kim Diederich  Timothy 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 . 10%   CO 8ppm   CO2 0.06%  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 . 10%   CO 8ppm   CO2 0.06%  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  Timothy 4/12/2010 10:45 Kim Diederich  Timothy 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 9.43	VVOIKIIIAII	
7, Barometer 29.2314  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.  update as per Kieth Sigmon -MSHA at 10:35. Mine rescue team at seal 8 north. air O2_20.7,;0.5_CH4; 500ppm_C0. installing curtain to sweep the air.  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  Readings taken at Bandy Town Fan with handheld detector at 010:15 were O2 - 20.85, CH4 - 0.1, CO - 7, Barometer 29.2364  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  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  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%		Timothy	1
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Timothy detector at 010:00a.m. were O2 - 20.84, CH4 - 0.1, CO - 9, Barometer 29:2353  Readings taken at Bandy Town Fan with handheld detector at 010:15 were O2 - 20.85, CH4 - 0.1, CO - 4/12/2010 10:38 Workman  Readings taken at Bandy Town Fan with handheld detector at 010:30a.m. were O2 - 20.84, CH4 - 0.1, CO - 7, Barometer 29:2364  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  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  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 . 10%   CO 8ppm   CO2 0.06%  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  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO	4/12/2010 10:35	vvorkman	
A/12/2010 10:37   Workman   CO - 9, Barometer 29.2353		<del>-</del> ,,	
Readings taken at Bandy Town Fan with handheld detector at 010:15 were O2 - 20.85, CH4 - 0.1, CO - 7, Barometer 29.2364  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  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  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  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 20.95; N2 - 77.72; CH4 - 1, C2H6 - 33; Ar - 0.93	1/40/0040 40 07		
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7, Barometer 29.2364  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  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  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 . 10%   CO 8ppm   CO2 0.06%  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  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			
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Timothy 4/12/2010 10:39 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- 4/12/2010 10:43 Workman  Bandy Town Bleeder Fan 4/12/2010, 07:30 were H2- 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2- 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2- 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2- 4/12/2010 10:45 Workman  Timothy  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  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 10:38	Workman	
A/12/2010 10:39   Workman   CO - 8, Barometer 29.2335			1 1
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  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  Timothy CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 - 33; Ar - 0.93  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  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	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Timothy 4/12/2010 10:43 Workman 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  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 10:39	vvorkman	CO - 8, Barometer 29.2335
Timothy 4/12/2010 10:43 Workman 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  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 10:43 Workman  0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93  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  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 4/12/2010 10:46 Workman  0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93		u	
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16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10; CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93   Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%	4/12/2010 10:43	vvorkman	
Timothy CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93  Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 4/12/2010 10:46 Workman  CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93			
4/12/2010 10:45 Workman       0.93         Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%         Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - Timothy         16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93		,	
Gas Readings: Bandytown Fan 10:45   O2 20.84%   CH4 .10%   CO 8ppm   CO2 0.06%  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 Timothy 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 4/12/2010 10:46 Workman 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93	.,,		
A/12/2010 10:45 Kim Diederich CH4 .10%   CO 8ppm   CO2 0.06%  Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 Timothy 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 4/12/2010 10:46 Workman 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93	4/12/2010 10:45	Workman	
Bandy Town Bleeder Fan 4/12/2010, 07:45 were H2 - Timothy 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 - 0.08; C2H2 - nd; C2H4 - 1; C2H6 - 33; Ar - 0.93		l	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Timothy 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 4/12/2010 10:46 Workman 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93	4/12/2010 10:45	Kim Diederich	CH4 .10%   CO 8ppm   CO2 0.06%
Timothy 16; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2 4/12/2010 10:46 Workman 0.08; C2H2 - nd; C2H4 - 1; C2H6 -33; Ar - 0.93			
4/12/2010 10:46 Workman 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93			1 ,
		,	
4/12/2010 10:46[Kim Diodorich   Parameter 20 2295			
4/12/2010 10:40 Killi Diederich Barometer 29:2205	4/12/2010 10:46	Kim Diederich	Barometer 29.2285

,	··	ID 1 T DI 1 E 4/40/0040 00 00 1101
1		Bandy Town Bleeder Fan 4/12/2010, 08:00 were H2
!		15; O2 - 20.95; N2 - 77.71; CH4 - 0.13; CO - 10;
	Timothy	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
4/12/2010 10:47	Workman	0.93
		Bandy Town Bleeder Fan 4/12/2010, 08:15 were H2
]		15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
j	Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
4/12/2010 10:52	Workman	0.93
		Bandy Town Bleeder Fan 4/12/2010, 08:30 were H2
		15; O2 - 20.95; N2 - 77.71; CH4 - 0.13; CO - 10;
	Timothy	СО2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -32; Аг -
4/12/2010 10:55	Workman	0.93
<b> </b>		Bandy Town Bleeder Fan 4/12/2010, 08:45 were H2
	Timothy	15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 9; CO2
4/12/2010 10:58	•	0.07; C2H2 - nd; C2H4 - 1;C2H6 -32; Ar - 0.93
		Barometer readings included with the Bandytown
}		Fan are from the Setra recording barometer in the IR
} <b> </b>		truck. They were recorded at the time of the gas
4/12/2010 11:00	Kim Diederich	readings.
		Gas Readings: Bandytown Fan 11:00   O2 20.83%
4/12/2010 11:03	Kim Diederich	CH4 .10%   CO 9ppm   CO2 0.06%
4/12/2010 11:03		Barometer 11:00 29.2234
		update at 1105 as per Ben Dulin site 2, hole 2A- hole
		shut down by Massey at 10:45. 2B hole starting in 15
l i	Timothy	minutes at a depth of 227'. 2C hole started at 11a.m.
4/12/2010 11:17	•	at a depth of 32 feet
111272010111111		Gas Readings: Bandytown Fan 11:15   O2 20.83%
4/12/2010 11:18	Kim Diederich	CH4 .10%   CO 14ppm   CO2 0.06%
4/12/2010 11:18		Barometer 29.2214
112,20,011.10	Tami Biodonon	Gas Readings: Bandytown Fan 11:30   O2 20.82%
4/12/2010 11:30	Kim Diederich	CH4 .10%   CO 12ppm   CO2 0.07%
4/12/2010 11:31		Barometer 29.2199
17 12/2010 11:07	Tam Diedenon	Gas Readings: Bandytown Fan 11:45   O2 20.81%
4/12/2010 11:47	Kim Diederich	CH4 .10%   CO 17ppm   CO2 0.06%
4/12/2010 11:48		Barometer 29.2137
7/12/2010 11.40	Tail Diedelicii	IR readings the Bandytown fan, instrument zeroed at
4/12/2010 12:02	Kim Diaderich	11:50 Barometer 29.2104
4/12/2010 12:02	VIII Diedelicii	Gas Readings: Bandytown Fan 12:00   O2 20.78%
4/12/2010 12:02	Kim Diodorich	CH4 .10%   CO 14ppm   CO2 0.03%
7/12/2010 12:02	WILL DIEGELICII	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
	Timothy	hole at a depth of 231 feet) drilling. Hole 2C drilling
4/12/2010 12:07	•	at a depth of 37 feet
4/ 12/2010 12.0/	VVOINIIIAII	Bandy Town Bleeder Fan 4/12/2010, 09:00 were H2
		l •
	Timothy	15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
1	Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
4/12/2010 12:09	vvorkman	0.93
		Bandy Town Bleeder Fan 4/12/2010, 09:15 were H2
	T' (I	15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
1,40,0040.45.45	Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
4/12/2010 12:13	Workman	0.93

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			Bandy Town Bleeder Fan 4/12/2010, 10:45 were H2
			15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
	4/12/2010 12:14	Workman	0.93
			Gas Readings: Bandytown Fan 12:15   O2 20.78%
	4/12/2010 12:21		CH4 .10%   CO 15ppm   CO2 0.03%
	4/12/2010 12:22	Kim Diederich	Barometer 12:15 29.2048
			Gas Readings: Barometer 12:30   O2 20.78%   CH4
	4/12/2010 12:39	Kim Diederich	.10%   CO 18ppm   CO2 0.03%
			As per Kieth Sigmon 12:30Temporary Seals have
		Timothy	been cleared and teams are in process of moving
	4/12/2010 12:40		the fresh air base.
	4/12/2010 12:40	Kim Diederich	Barometer 29.2022
			Gas Readings: Bandytown Fan 12:45   O2 20.78%
	4/12/2010 12:47	Kim Diederich	CH4 .10%   CO 20ppm   CO2 0.03%
	4/12/2010 12:48	Kim Diederich	Barometer 29.1951
			Gas Readings: Bandytown Fan 13:00   O2 20.78%
	4/12/2010 13:00	Kim Diederich	CH4 .10%   CO 23ppm   CO2 0.03%
	4/12/2010 13:01	Kim Diederich	Barometer 29.1939
			Update as per Ben Dulin -MSHA, at 13:05 2A hole
		Timothy	(not drilling); 2B hole drilling at a depth of 255 feet.
	4/12/2010 13:08		2C hole drilling at a depth of 43 feet
			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
	4/12/2010 13:09	Melanie Calhoun	1ppm   C2H6 32ppm   Ar 0.93%
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
			Bandy Town Bleeder Fan 4/12/2010, 10:00 were H2
		Timothy	15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO -11; CO2
	4/12/2010 13:13	•	- 0.07; C2H2 - nd; C2H4 - 1;C2H6 -32; Ar - 0.93
		·	Bandy Town Bleeder Fan 4/12/2010, 10:15 were H2
			15; O2 - 20.95; N2 - 77.83; CH4 - 0.13; CO - 17;
		Timothy	CO2 - 0.09; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
	4/12/2010 13:14	•	0.93
			Bandy Town Bleeder Fan 4/12/2010, 10:45 were H2
	-		15; O2 - 20.95; N2 - 77.72; CH4 - 0.13; CO - 10;
		Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
	4/12/2010 13:16		0.93
			Bandy Town Bleeder Fan 4/12/2010, 11:00 were H2
			15; O2 - 20.95; N2 - 77.84; CH4 - 0.12; CO - 11;
		Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -30; Ar -
	4/12/2010 13:18	•	0.93
			Bandy Town Bleeder Fan 4/12/2010, 11:15 were H2
•			15; O2 - 20.95; N2 - 77.85; CH4 - 0.13; CO - 12;
		Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar -
	4/12/2010 13:20		0.93
	7/12/2010 13.20	Timothy	Bandy Town Fan (Hand Held) at 13:15 O2 20.79;
	4/12/2010 13:33	•	CH4 0.1; CO 24 barometer 29.1868
	4/ 12/2010 13.33	Timothy	Gas Readings: Bandy Town Fan(13:15a.m.)   O2
	4/12/2010 13:37	•	- ' ' ' ' '
	4/ 12/2010 13.3/	Timothy	20.8%   CH4 0.10%   CO 30ppm   CO2 0.03%
		THIOUTY	
	4/12/2010 13:39	•	Bandy Town Fan barometer at 13:15 was 29.1868

	<del></del>	ID 1 T DI 1 T 200 T T T T T T T T T T T T T T T T T
		Bandy Town Bleeder Fan 4/12/2010, 12:45 were H2
		13; O2 - 20.95; N2 - 77.88; CH4 - 0.12; CO - 10;
4/40/0040 40 55	Timothy	CO2 - 0.07; C2H2 - nd; C2H4 - 1;C2H6 -31; Ar -
4/12/2010 13:55	vvorkman	0.93
		Hadata as non Bon Bulin at 14:00 . Oits 0.00 /s s
	Ti	Update as per Ben Dulin at 14:00 Site 2, 2A-(no
4/40/0040 44.40	Timothy	change); 2B drilling at a depth of 265 feet; 2C is at a
4/12/2010 14:16		depth of 43 feet(down due to induction problem)
	Timothy	Gas Readings: Bandy Town Fan(13:30a.m.)   O2
4/12/2010 14:20		20.8%   CH4 0.10%   CO 30ppm   CO2 0.03%
4/40/0040 44:04	Timothy	Deady Terry Fee homewater 12:20 20 1010
4/12/2010 14:21	vvorkman	Bandy Town Fan barometer 13:30 was 29.1848
	T: 41- ·	Bandy Town Fan hand held air reading at 13.45
4/40/0040 4 4:00	Timothy	O2_20.81 ; CH4_0.1 ; CO_33 ; Barometer
4/12/2010 14:26	vvorkman	29.1783
	Time addes a	Deady Tayon For head hold air reading at 44.00
4/40/0040 44.04	Timothy	Bandy Town Fan hand held air reading at 14:00 was
4/12/2010 14:31	vvoikman	O2_20.75 ; CH4_0.1 ; CO_16 barometer 29.1709
	Timothy	Bandy Town Fan hand held air reading at 14:15 was
4/12/2010 14:31		O2_20.77; CH4_0.1; CO_17 barometer 29.1673
4/12/2010 14.51	VVOIRIIIAII	Have had some phone communication problems
	Timothy	with the Arlington Command Center during the mid
4/12/2010 14:34	1	day hours on 4/12/2010
17 1272010 14:04	VVOIRIIMI	ludy Hours on 4/12/2010
		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
	Timothy	_20.5; CO_0;CH4_0 air quality behind temporary
4/12/2010 14:54	· •	number 3 seal O2_20.0 ; CO_1592 ;CH4 2.36
	Timothy	Bandy Town Fan hand held air reading at 14:30 was
4/12/2010 15:05	Workman	O2_20.80 ; CH4_0.1 ; CO_ 5 ;barometer 29.1664
	Timothy	Bandy Town Fan hand held air reading at 14:45 was
4/12/2010 15:06	Workman	O2_20.85 ; CH4_0.1 ; CO_5 barometer 29.1650
		_ , , , , , , ,
440/0040 45 55	Timothy	Bandy Town Fan hand held air reading at 15:00 was
4/12/2010 15:07	vvorkman	O2_20.90 ; CH4_0.1 ; CO_4 barometer 29.1617
		Bandy Town Bleeder Fan 4/12/2010, 13:00 were H2
	T: 4L	13; O2 - 20.95; N2 - 77.90; CH4 - 0.12; CO - 10;
4/40/0040 45:40	Timothy	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -31; Ar -
4/12/2010 15:10	vvorkman	0.93
		Bandy Town Bleeder Fan 4/12/2010, 13:15 were H2
	T:41	13; O2 - 20.95; N2 - 77.89; CH4 - 0.12; CO - 10;
A/AD/0040 4E 44	Timothy	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -31; Ar -
4/12/2010 15:11	Workman	0.93
		Bandy Town Bleeder Fan 4/12/2010, 13:30 were H2
	Timethy	14; O2 - 20.95; N2 - 77.88; CH4 - 0.13; CO - 10;
4/12/2010 15:12	Timothy	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -31; Ar - 0.93
		111 97 3

		T
		Bandy Town Bleeder Fan 4/12/2010, 13:35 were H2
	Timothy	13; O2 - 20.95; N2 - 77.87; CH4 - 0.13; CO - 6; CO2
4/12/2010 15:14		0.08; C2H2 - nd; C2H4 - 1;C2H6 -33; Ar - 0.93
4/12/2010 13.14	VVOIRIIIaii	Bandy Town Bleeder Fan 4/12/2010, 13:45 were H2
		13; O2 - 20.95; N2 - 77.87; CH4 - 0.13; CO - 11;
	Timothy	CO2 - 0.08; C2H2 - nd; C2H4 - 1;C2H6 -32; Ar -
4/12/2010 15:16		10.93
4/ 12/2010 15.10	VVOIKIIIAII	As per Ben Dulin at 15:00 . Hole 2A no change. Hole
	Timothy	2B , not drilling, waiting for water (depth 270 feet).
4/12/2010 15:21	· ·	Hole 2C drilling at a depth of 70 feet.
4/ 12/2010 15.21	VVOIKIIIaii	Readings taken at Bandy Town Fan with handheld
		detector at 15:15 were O2 - 20.95, CH4 - 0.1, CO2 -
4/12/2010 16:32	Reha Crawford	0.05, CO - 5, Barometer 19.1532
4/ 12/2010 10:32	Treba Clawiold	0.03, CO - 3, Barometer 19.1332
		Readings taken at Bandy Town Fan with handheld
		detector at 15:30 were OO2 - 20.95, CH4 - 0.1, CO2
4/12/2010 16:34	Reha Crawford	0.05, CO - 4, Barometer 29.1502
4/12/2010 10.34	i vena Ciawioiu	Readings taken at Bandy Town Fan with handheld
		detector at 15:45 were O2 - 20.97, CH4 - 0.1, CO2 -
4/12/2010 16:35	Reha Crawford	0.05, CO - 2, Barometer 29.1470
7/12/2010 10:33	i toba Olawioid	Readings taken at Bandy Town Fan with handheld
		detector at 16:00 were O2 - 20.89, CH4 - 0.1, CO2 -
4/12/2010 16:37	Reha Crawford	0.05, CO - 2, Barometer 29.1455
7/12/2010 10.3/	i reba Crawioiu	Readings taken at Bandy Town Fan with handheld
		detector at 16:15 were O2 - 20.87, CH4 - 0.1, CO2 -
4/12/2010 16:38	Reha Crawford	0.05, CO - 2, Barometer 29.1399
7/12/2010 10.30	I COA CIAWIOIU	0.00, 00 - 2, Daloinetel 28.1088
		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,
4/12/2010 16:41	Reha Crawford	drilled 270 feet; 2C hole - 85 feet and drilling
7/12/2010 10.41	, coa orawiora	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 -
4/12/2010 16:47	Reba Crawford	10.93
- 12/2010 10.41	, toba Olawiola	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 -
4/12/2010 16:48	Reba Crawford	10.93
1, 12,2010 10.40	. toba Olawiola	
		Bandy Town Bleeder Fan 4/12/2010, 14:30 were H2
		13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 9, CO2
4/12/2010 16:49	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
17212010 10.40	. CDa Olawiola	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 -
4/12/2010 16:50	Reha Crawford	10.93
7/12/2010 10:50	ricua Grawioid	0.00
		Bandy Town Bleeder Fan 4/12/2010, 15:00 were H2
		13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 9, CO2
4/12/2010 16:51	Reha Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
1 4/12/2010 10.31	hizena Ciawinia	10.00, 02112 - 114, 02114 - 1148, 02110 - 31, A1 - 0.93

	I	
		Bandy Town Bleeder Fan 4/12/2010, 15:15 were H2
		13, O2 - 20.95, N2 - 77.84, CH4 - 0.13, CO - 6, CO2
4/12/2010 16:52	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
7/ 12/2010 10.32	TCDA CIAWIOIU	0.00, 02112 - 11d, 02114 - 11da, 02110 - 01, At - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 15:30 were H2
		9, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 13, CO2
4/12/2010 16:54	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
1112201010101	11000 01011010	Readings taken at Bandy Town Fan with handheld
		detector at 16:30 were O2 - 20.85, CH4 - 0.1, CO2 -
4/12/2010 16:55	Reba Crawford	0.05, CO - 3, Barometer 29.1387
		Readings taken at Bandy Town Fan with handheld
		detector at 16:45 were O2 - 20.80, CH4 - 0.1, CO2 -
4/12/2010 16:57	Reba Crawford	0.05, CO - 3, Barometer 29.1343
		17:00 - Report from Rick Hayhurst - Site 1, Hole 1C
	1	(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
4/12/2010 17:04	Reba Crawford	Hole 1 on 4/11/10) - is stopped and not pumping
		17:00 - Report from Gary Bragg - Hole 2A - at 1,015
		feet and using directional bit to realign hole; Hole 2B
4/12/2010 17:14	Reba Crawford	275 feet and drilling; Hole 2C - 100 feet and drilling
		Bandy Town Bleeder Fan 4/12/2010, 15:45 were H2
	L	13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 8, CO2
4/12/2010 17:16	Reba Crawford	0.09, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		Pandy Tayon Blandar Fan 4/12/2010, 10:00
		Bandy Town Bleeder Fan 4/12/2010, 16:00 were H2
4/40/0040 47:46	Daha Crauford	13, O2 - 20.95, N2 - 77.83, CH4 - 0.13, CO - 7, CO2
4/12/2010 17:16	Reba Crawlord	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		Readings taken at Bandy Town Fan with handheld detector at 17:00 were O2 - 20.75, CH4 - 0.1, CO2 -
4/12/2010 17:51	Peha Crawford	0.05, CO - 3, Barometer 29.1298
4/12/2010 17:51	INCUA CIAWIOIU	
		Readings taken at Bandy Town Fan with handheld detector at 17:15 were O2 - 20.73, CH4 - 0.1, CO2 -
4/12/2010 17:52	Roba Crawford	0.05, CO - 3, Barometer 29.1259
4/12/2010 17.32	incua Ciawioiu	Readings taken at Bandy Town Fan with handheld
		detector at 17:30 were O2 - 20.73, CH4 - 0.1, CO2 -
4/12/2010 17:53	Reha Crawford	0.05, CO - 3, Barometer 29.1295
4/12/2010 17.00	Treba Clawiold	18:00 - Report from Rick Hayhurst - Hole 1A -
		initrogen not being pumped; Hole 1C - stopped 60
4/12/2010 18:02	Reha Crawford	feet with mechanic on site
7/12/2010 10:02	Troba Grawioid	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
4/12/2010 18:04	Reba Crawford	land drilling
		Readings taken at Bandy Town Fan with handheld
		detector at 17:45 were O2 - 20.71, CH4 - 0.1, CO2 -
4/12/2010 18:32	Reba Crawford	0.05, CO - 2, Barometer 29.1316
12,2010 10.02		15.55, 55 2, 54.5110.00 20.1010

	· ·	
		Readings taken at Bandy Town Fan with handheld
	<u>.</u>	detector at 18:00 were O2 - 20.72, CH4 - 0.1, CO2 -
4/12/2010 18:32	Reba Crawford	0.05, CO - 2, Barometer 29.1218
		Readings taken at Bandy Town Fan with handheld
		detector at 18:15 were O2 - 20.73, CH4 - 0.1, CO2 -
4/12/2010 18:43	Reba Crawford	0.05, CO - 2, Barometer 29.1266
		Readings taken at Bandy Town Fan with handheld
		detector at 18:30 were O2 - 20.77, CH4 - 0.1, CO2 -
4/12/2010 18:45	Reba Crawford	0.05, CO - 1, Barometer 29.1275
		Readings taken at Bandy Town Fan with handheld
		detector at 18:45 were O2 - 20.76, CH4 - 0.1, CO2 -
4/12/2010 19:14	Reba Crawford	0.05, CO - 1, Barometer 29.1295
		Readings taken at Bandy Town Fan with handheld
		detector at 19:00 were O2 - 20.75, CH4 - 0.1, CO2 -
4/12/2010 19:15	Reba Crawford	0.05, CO - 0, Barometer 29.1313
		Bandy Town Bleeder Fan 4/12/2010, 16:15 were H2
	<u> </u>	13, O2 - 20.95, N2 - 77.81, CH4 - 0.13, CO - 8, CO2
4/12/2010 19:19	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		Daniel Tarre Blands Fra 4/40/0040 40.00
		Bandy Town Bleeder Fan 4/12/2010, 16:30 were H2
4/40/0040 40.46	Daha Cassafara	13, O2 - 20.95, N2 - 77.85, CH4 - 0.13, CO - 8, CO2
4/12/2010 19:19	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 16:45 were H2
		13, O2 - 20.95, N2 - 77.81, CH4 - 0.13, CO - 8, CO2
4/12/2010 10:20	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 19.20	TREBA CIAWIOIU	0.00, C2112 - 11d, C2114 - 11da, C2110 - 31, At - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 17:00 were H2
		13, O2 - 20.95, N2 - 77.79, CH4 - 0.13, CO - 8, CO2
4/12/2010 19:20	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 17:15 were H2
		12, O2 - 20.95, N2 - 77.82, CH4 - 0.12, CO - 7, CO2
4/12/2010 19:22	Reba Crawford	0.09, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 17:30 were H2
		13, O2 - 20.95, N2 - 77.82, CH4 - 0.13, CO - 8, CO2
4/12/2010 19:22	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		Bandy Town Bleeder Fan 4/12/2010, 17:45 were H2
		12, O2 - 20.95, N2 - 77.84, CH4 - 0.13, CO - 7, CO2
4/12/2010 19:23	Reba Crawford	0.08, C2H2 - nd, C2H4 - 0, C2H6 - 30, Ar - 0.93
		Pandy Town Blooder Fon 4/40/2040, 40:00 1/2
		Bandy Town Bleeder Fan 4/12/2010, 18:00 were H2
4/40/0040 40 0	(Daha O	12, O2 - 20.95, N2 - 77.78, CH4 - 0.13, CO - 7, CO2
4/12/2010 19:24	HREDA Crawford	0.08, C2H2 - nd, C2H4 - nd, C2H6 - 31, Ar - 0.93
	,	Readings taken at Bandy Town Fan with handheld
4/40/0040 40 55	7 Daha C	detector at 19:30 were O2 - 20.58, CH4 - 0.2, CO2 -
4/12/2010 19:57	Repa Crawford	0.05, CO - 0, Barometer 29.1351

		Dodings taken at Dandy Tame Can with the William
		Readings taken at Bandy Town Fan with handheld
4/40/2040 40 50/0 1 /	Samuel of	detector at 19:15 were O2 - 20.71, CH4 - 0.2, CO2 -
4/12/2010 19:59 Reba (	<u>rawtord</u>	0.05, CO - 0, Barometer 29.1331
		20:00 - report from Rick Hayhurst - Site 1, Hole 1A -
4/40/0040 00 00 0	O 5 - 1	nitrogen not being pumped; Hole 1C - 105 feet depth
4/12/2010 20:00 Reba (	Crawford	and drilling
		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
4/12/2010 20:17 Reba (	Crawford	the night to change compressor
		Readings taken at Bandy Town Fan with handheld
1		detector at 19:45 were O2 - 20.47, CH4 - 0.2, CO2 -
4/12/2010 20:18 Reba (	Crawford	0.05, CO - 0, Barometer 29.1328
12.23.13 20.1011000		Readings taken at Bandy Town Fan with handheld
		detector at 20:00 were O2 - 20.63, CH4 - 0.2, CO2 -
4/12/2010 20:18 Reba	`rawford	0.05, CO - 0, Barometer 29.1351
4/12/2010 20.10 Neba (	Jiawiolu	
		Readings taken at Bandy Town Fan with handheld
4/40/2040 20:04 Data 4	~-ad	detector at 19:45 were O2 - 20.47, CH4 - 0.2, CO2 -
4/12/2010 20:24 Reba (	Jiawiord	0.05, CO - 0, Barometer 29.1328
		Readings taken at Bandy Town Fan with handheld
4/40/0040 00 05		detector at 20:00 were O2 - 20.63, CH4 - 0.2. CO2 -
4/12/2010 20:25 Reba (	rawford	0.05, CO - 0, Baromater 29.1351
		Bandy Town Bleeder Fan 4/12/2010, 18:15 were H2
44404004000		12, O2 - 20.95, N2 - 77.76, CH4 - 0.12, CO - 6, CO2
4/12/2010 20:27 Reba (	Jrawford	0.08, C2H2 - nd, C2H4 - nd,a C2H6 - 31, Ar - 0.90
		Bandy Town Bleeder Fan 4/12/2010, 18:30 were H2
		12, O2 - 20.95, N2 - 77.74, CH4 - 0.12, CO - 6, CO2
4/12/2010 20:27 Reba	<u> Crawford</u>	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
` <b> </b>		Bandy Town Bleeder Fan 4/12/2010, 18:45 were H2
·		13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2
4/12/2010 20:28 Reba (	Crawford	
4/12/2010 20:28 Reba	Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 20:28 Reba (	Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  Bandy Town Bleeder Fan 4/12/2010, 19:00 were H2
		13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
4/12/2010 20:28 Reba (		13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  Bandy Town Bleeder Fan 4/12/2010, 19:00 were H2
		13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  Bandy Town Bleeder Fan 4/12/2010, 19:00 were H2 - 13, O2 - 20.95, N2 - 77.81, CH4 - 0.16, CO - 7, CO2
		13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  Bandy Town Bleeder Fan 4/12/2010, 19:00 were H2 - 13, O2 - 20.95, N2 - 77.81, CH4 - 0.16, CO - 7, CO2
		13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  Bandy Town Bleeder Fan 4/12/2010, 19:15 were H2 - 13.
4/12/2010 20:29 Reba (	Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  Bandy Town Bleeder Fan 4/12/2010, 19:15 were H2 - 13, O2 - 20.95, N2 - 77.81, CH4 - 0.16, CO - 7, CO2
	Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  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 - nda, C2H6 - 31, Ar - 0.87
4/12/2010 20:29 Reba (	Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  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 - nda, C2H6 - 31, Ar - 0.87  21:00 Report from Rick Hayhurst - Site 1, Hole 1A -
4/12/2010 20:29 Reba ( 4/12/2010 20:30 Reba (	Crawford Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  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 - nda, C2H6 - 31, Ar - 0.87  21:00 Report from Rick Hayhurst - Site 1, Hole 1A - no nitrogen being pumped; Hole 1C - Down 130 feet
4/12/2010 20:29 Reba (	Crawford Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  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 - nda, C2H6 - 31, Ar - 0.87 21:00 Report from Rick Hayhurst - Site 1, Hole 1A - no nitrogen being pumped; Hole 1C - Down 130 feet and drilling
4/12/2010 20:29 Reba ( 4/12/2010 20:30 Reba (	Crawford Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 - 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  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 - nda, C2H6 - 31, Ar - 0.87  21:00 Report from Rick Hayhurst - Site 1, Hole 1A - no nitrogen being pumped; Hole 1C - Down 130 feet and drilling  21:00 Report from Rick Hayhurst - Site 1, Hole 1A -
4/12/2010 20:29 Reba ( 4/12/2010 20:30 Reba (	Crawford Crawford Crawford	13, O2 - 20.95, N2 - 77.75, CH4 - 0.14, CO - 6, CO2 0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93  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 - nda, C2H6 - 31, Ar - 0.85  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 - nda, C2H6 - 31, Ar - 0.87 21:00 Report from Rick Hayhurst - Site 1, Hole 1A - no nitrogen being pumped; Hole 1C - Down 130 feet and drilling

	IB 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Readings taken at Bandy Town Fan with handheld
4440/2040 04 00 2	detector at 20:15 were O2 - 20.69,CH4 - 0.2, CO2 -
4/12/2010 21:08 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
	detector at 20:30 were O2 - 20.69, CH4 - 0.2, CO2 -
4/12/2010 21:09 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
	detector at 20:45 were O2 - 20.67, CH4 - 0.1, CO2 -
4/12/2010 21:13 Reba Crawford	0.05, CO - 3, Barometer 29.1473
	24.00 Day at frame Oan, Day at 11512 24, 4.024 frank
	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
4/40/0040 04 47 P + 0 - 5 - 4	@ 2-1/2 hours at 225 feet, will drill 10 feet below (@
4/12/2010 21:17 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/40/2040 04 00 72 4 00 12	detector at 21:00 were O2 - 20.67, CH4 - 0.1, CO2 -
4/12/2010 21:23 Reba Crawford	
ł	Readings taken at Bandy Town Fan with handheld
1/10/2010 01 00 7	detector at 21:15 were O2 - 20.72, CH4 - 0.1, CO2 -
4/12/2010 21:26 Reba Crawford	
4/12/2010 21:34 Reba Crawford	
·	Readings taken at Bandy Town Fan with handheld
4/40/2040 04 40 D   0   6	detector at 20:15 were O2 - 20.69, CH4 - 0.2, CO2 -
4/12/2010 21:49 Reba Crawford	= L=u - : 2
	Reading taken at Bandy Town Fan with handheld
4/12/2010 22:40 Paha Crouford	detector at 21:30 were O2 - 20.74, CH4 - 0.1, CO2 -
4/12/2010 23:40 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/42/2040 22:44 Daha Casarfand	detector at 21:45 were O2 - 20.74, CH4 - 0.1, CO2 -
4/12/2010 23:41 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/12/2010 22:42 Paha Crouderd	detector at 22:00 were O2 - 20.69, CH4 - 0.1, CO2 -
4/12/2010 23:42 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/12/2010 22:42 Daha C	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
4/12/2010 22:42 Daha Car (5:1	detector at 22:30 were O2 - 20.73, CH4 - 0.1, CO2 -
4/12/2010 23:43 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/12/2010 22:44 Daha C	detector at 22:45 were O2 - 20.75, CH4 - 0.1, CO2 -
4/12/2010 23:44 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/12/2010 22:45 Daha Carrida	detector at 23:00 were O2 - 20.71, CH4 - 0.1, CO2 -
4/12/2010 23:45 Reba Crawford	
	Readings taken at Bandy Town Fan with handheld
4/12/2010 23:46 Reba Crawford	detector at 23:15 were O2 - 20.72, CH4 - 0.1, CO2 -
4/12/2010 23:46IReba Grawford	0.06, CO - 2, Barometer 29.1641

	<u>r ·· ·· · · · · · · · · · · · · · · ·</u>	Table -
	]	22:00 Report from Rick Hayhurst - Site 1 - no
	1	nitrogen being pumped in 1A hole; Hole 1C -
	1	stopped at 130 feet - worked 24 hours and went
4/12/2010 23:51	Reba Crawford	home
		22:00 Report from Gary Bragg - Hole 2A - 1,024 feet
	1	- drilling for ledge - currently 4 inches above
	ļ	concrete grout; Hole 2B - 342 feet and drilling; Hole
	ļ	2C - 190 feet and rig is down due to mechanical
4/12/2010 23:53	Reba Crawford	problems - mast cable broke
	1	23:00 Report from Rick Hayhurst - Site 1 - No
		nitrogen beng pumped in 1A hole; Hole 1C - stopped
4/12/2010 23:55	Reba Crawford	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
		Readings taken at Bandy Town Fan with handheld
		detector at 23:30 were O2 - 20.73, CH4 - 0.1, CO2 -
4/12/2010 23:58	Reba Crawford	0.06, CO - 2, Barometer 29.1632
		Readings taken at Bandy Town Fan with handheld
		detector at 23:45 were O2 - 20.68, CH4 - 0.1, CO2 -
4/12/2010 23:59	Reba Crawford	0.06, CO - 2, Barometer 29.1611
		Bandy Town Bleeder Fan 4/12/2010, 19:30 were H2
		13, O2 - 20.95, N2 - 77.76, CH4 - 0.17, CO - 8, CO2
4/13/2010 0:03	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
·- ··-,		
		Bandy Town Bleeder Fan 4/12/2010, 19:45 were H2
		13, O2 - 20.95, N2 - 77.76, CH4 - 0.16, CO - 6, CO2
4/13/2010 0:05	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 29, Ar - 0.93
		, , , , , , , , , , , , , , , , , , ,
		Bandy Town Bleeder Fan 4/12/2010, 20:00 were H2
		13, O2 - 20.95, N2 - 77.76, CH4 - 0.16, CO - 6, CO2
4/13/2010 0:09	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
	<u> </u>	
		Bandy Town Bleeder Fan 4/12/2010, 20:15 were H2
		13, O2 - 20.95, N2 - 77.76, CH4 - 0.15, CO - 7, CO2
4/13/2010 0:23	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.91
	<u> </u>	
	[	Bandy Town Bleeder Fan 4/12/2010, 20:30 were H2
		14, O2 - 20.95, N2 - 77.74, CH4 - 0.14, CO - 5, CO2
4/13/2010 0:24	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 34, Ar - 0.93
	1	
		Bandy Town Bleeder Fan 4/12/2010, 20:45 were H2
	1	12, O2 - 20.95, N2 - 77.76, CH4 - 0.13, CO - 3, CO2
4/13/2010 0:25	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
	[	Bandy Town Bleeder Fan 4/12/2010, 21:00 were H2
		12, O2 - 20.95, N2 - 77.76, CH4 - 0.13, CO - 3, CO2
4/13/2010 0:25	Reba Crawford	0.08, C2H2 - nd, C2H4 - nda, C2H6 - 31, Ar - 0.93
		,,,,,
		Bandy Town Bleeder Fan 4/12/2010, 21:14 were H2
		9, O2 - 20.95, N2 - 77.75, CH4 - 0.13, CO - nd, CO2
4/13/2010 0:28	Reba Crawford	0.09, C2H2 - nd, C2H4 - nda, C2H6 - 30, Ar - 0.93
10,2010 0.20	1. 1000 010111010	10.00, 02112 114, 02111 1144, 02110 00,74 - 0.00

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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
	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
	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
	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
	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
		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
	Reba Crawford Reba Crawford	problems 01:30 - Report from Rodney Lusk - Hole 2A - idle; Hole 2B - 380 feet and drilling; Hole 2C - idle

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