0028

Incoming C/015/0015

From: "Hardy, Russell" <RussellHardy@consolenergy.com>
To: "Hardy, Russell" <RussellHardy@consolenergy.com>, <ogmcoal@utah.gov>
CC: <SteveChristensen@utah.gov>, <karlhouskeeper@utah.gov>, <waynewestern@ut...
Date: 4/30/2008 11:47 AM
Subject: Emery Subsidence report
Attachments: Emery Subsidence 3-2008.pdf

Attached please find the monthly subsidence report for the Emery Mine.

Thank You,
-Russell

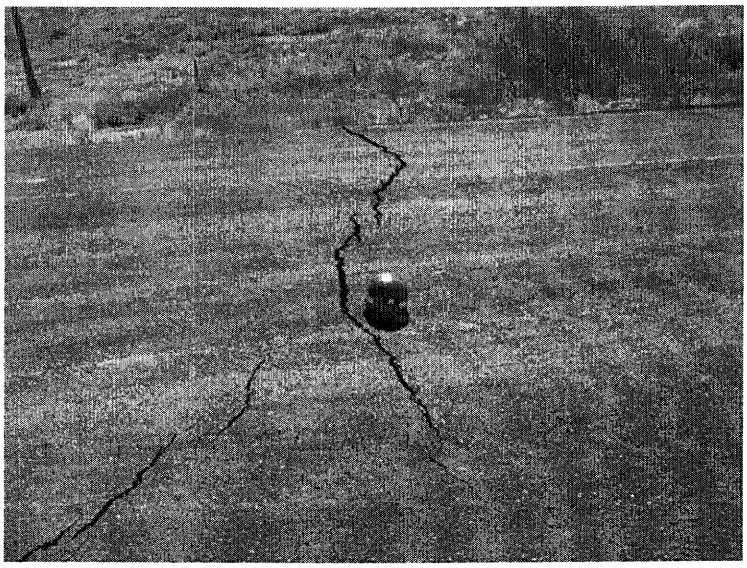
Russell Hardy
CONSOL ENERGY
Phone: (435) 286-3513
Fax: (435) 286-3516
email: russellhardy@consolenergy.com

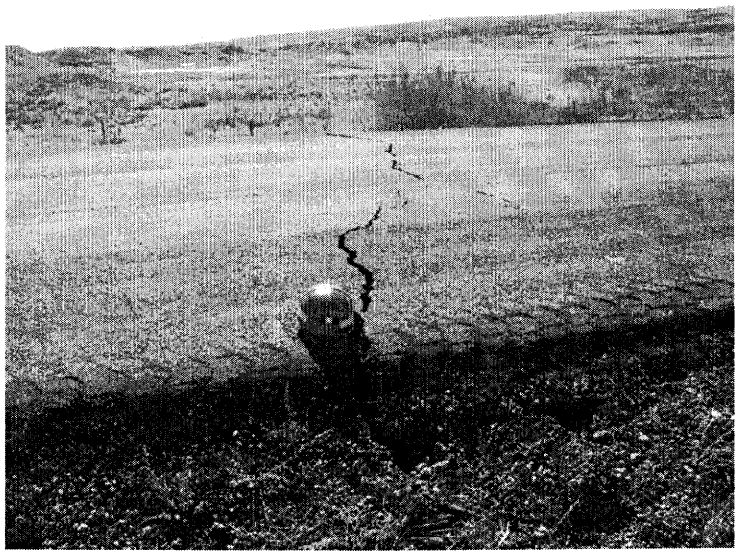
---------- "This communication, including any attachments, may contain confidential and privileged information that is subject to the CONSOL Energy Inc.'s Business Information Protection Policy. The information is intended solely for the use of the intended recipient(s). If you are not an intended recipient, you are prohibited from any use, distribution, or copying of this communication. If you have received this communication in error, please immediately notify the sender and then delete this communication in its entirety from your system."

Consolidation Coal Emery Mine
Subsidence Report for March 2008

3-20-08 Panel 14 and 15 West – No change observed. PB
8 South – No change observed. PB
O North – No change observed. PB

3-24-08 Road and Power – Cracks on road found. Cracks are 1 inch wide and extend through the asphalt and road base. Cracks extend across width of road and terminate at the edge of the asphalt. Pictures of the cracks taken. BH





3-26-08	Road and Power – Cracks extending past roadway towards power line. Some cracking near power pole. Smaller ½ inch cracks appearing uphill and downhill of original cracks from 3-24-08. Also, the original 2 cracks noted in the 3-24-08 summary are showing more vertical displacement. RH
4-08-08	O North – No new cracks, existing cracks show no changes. PB
4-09-08	Panel 14 and 15 West – No change observed. BH
4-10-08	8 South – No change observed. BH

Pillar extraction completed in 0 North on 3-27-08. Pillar extraction has been complete in Panel 14 and 15 West and that miner unit is currently extracting 8 South. -RH

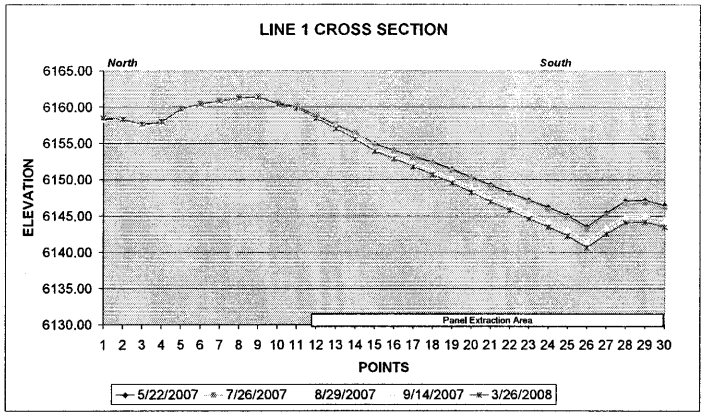
On 3-26-08 Cody Ware from Ware Surveying along with Peter Behling from CONSOL Surveyed the subsidence lines over Panel 14 and 15 West with a GPS unit. Following is the collected data.

CONSOL ENERGY

EMERY MINE

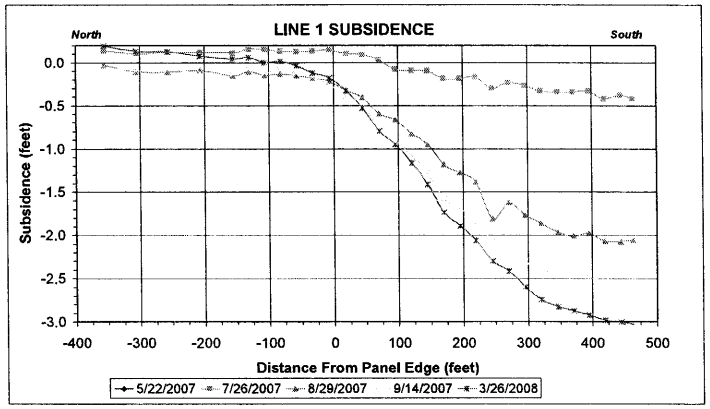
Original Survey by Cody Ware
Using NAD 83

Line 1 Points	Northing	Easting	Elevation	Distance Between Stations (ft)	Distance from Station 1 (ft)	Distance from Panel Edge (ft)
1	6760848.47	1706836.62	6158.30			-356
2	6760810.39	1706804.61	6158.16	49.75	49.75	-306
3	6760770.54	1706775.75	6157.48	49.21	98.96	-257
4	6760727.95	1706749.13	6157.86	50.22	149.17	-207
5	6760689.63	1706715.76	6159.70	50.82	199.99	-156
6	6760670.18	1706700.17	6160.34	24.93	224.92	-131
7	6760651.53	1706684.27	6160.79	24.51	249.43	-107
8	6760633.78	1706667.51	6161.14	24.40	273.83	-82
9	6760615.20	1706650.81	6161.36	24.99	298.82	-57
10	6760596.53	1706634.69	6160.50	24.67	323.49	-33
11	6760575.42	1706620.09	6160.04	25.66	349.15	-7
12	6760554.98	1706604.52	6158.81	25.70	374.85	19
13	6760535.17	1706588.52	6157.54	25.46	400.31	44
14	6760515.78	1706572.44	6156.35	25.19	425.50	69
15	6760495.88	1706556.51	6154.88	25.49	450.99	95
16	6760476.50	1706540.15	6154.00	25.37	476.36	120
17	6760457.29	1706524.67	6153.19	24.67	501.03	145
18	6760438.49	1706508.62	6152.44	24.71	525.74	170
19	6760419.03	1706492.93	6151.41	25.00	550.75	195
20	6760399.32	1706477.71	6150.32	24.90	575.65	220
21	6760380.07	1706461.36	6149.24	25.26	600.91	245
22	6760359.98	1706446.01	6148.17	25.28	626.18	270
23	6760339.92	1706430.19	6147.16	25.54	651.73	296
24	6760320.35	1706414.96	6146.14	24.80	676.53	320
25	6760300.11	1706398.86	6145.05	25.87	702.40	346
26	6760281.54	1706384.08	6143.44	23.73	726.13	370
27	6760262.50	1706368.52	6145.38	24.59	750.71	395
28	6760243.12	1706353.75	6147.00	24.37	775.08	419
29	6760224.30	1706337.41	6147.12	24.92	800.00	444
30	6760209.47	1706324.14	6146.43	19.90	819.91	464



ELEVATION and SUBSIDENCE FOR LINE 1 STATIONS

POINTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
5/22/2007	6158.30	6158.16	6157.48	6157.86	6159.70	6160.34	6160.79	6161.14	6161.38	6160.50	6160.04	6158.81	6157.54	6156.35	6154.88	6154.00	6153.19	6152.44	6151.41	6150.32	6149.24	6148.17	6147.16	6146.14	6145.05	6143.44	6145.38	6147.00	6147.12	6146.43	PB/BB
Subsidence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7/26/2007	6158.43	6158.26	6157.59	6157.97	6159.81	6160.49	6160.94	6161.27	6161.48	6160.63	6160.19	6158.91	6157.63	6156.38	6154.80	6153.90	6153.09	6152.25	6151.22	6150.15	6148.94	6147.94	6146.89	6145.81	6144.70	6143.10	6145.05	6146.56	6146.74	6146.01	MH/PB/BP/RH
Subsidence	0.13	0.10	0.11	0.11	0.11	0.15	0.15	0.13	0.12	0.13	0.15	0.10	0.09	0.03	-0.08	-0.10	-0.10	-0.19	-0.19	-0.17	-0.30	-0.23	-0.27	-0.33	-0.35	-0.34	-0.33	-0.42	-0.38	-0.42	
8/29/2007	6158.26	6158.05	6157.36	6157.78	6159.54	6160.23	6160.64	6161.00	6161.20	6160.32	6159.82	6158.48	6157.13	6155.75	6154.21	6153.17	6152.24	6151.25	6150.13	6148.93	6147.43	6146.55	6145.39	6144.28	6143.08	6141.43	6143.40	6144.93	6145.05	6144.37	PB/BH
Subsidence	-0.04	-0.11	-0.12	-0.10	-0.16	-0.11	-0.15	-0.14	-0.16	-0.18	-0.22	-0.33	-0.41	-0.60	-0.67	-0.82	-0.95	-1.19	-1.28	-1.39	-1.81	-1.62	-1.77	-1.86	-1.97	-2.01	-1.98	-2.07	-2.07	-2.06	
9/14/2007	6158.25	6158.06	6157.39	6157.74	6159.56	6160.26	6160.67	6161.05	6161.23	6160.33	6159.78	6158.42	6157.02	6155.61	6153.98	6152.91	6151.91	6150.86	6149.72	6148.46	6147.18	6146.03	6144.85	6143.75	6142.80	6141.00	6142.89	6144.47	6144.55	6143.91	CW/PB
Subsidence	-0.05	-0.10	-0.09	-0.12	-0.14	-0.08	-0.12	-0.09	-0.13	-0.17	-0.26	-0.39	-0.52	-0.74	-0.90	-1.09	-1.28	-1.58	-1.69	-1.86	-2.06	-2.14	-2.31	-2.39	-2.44	-2.44	-2.49	-2.53	-2.57	-2.52	
3/26/2008	6158.49	6158.29	6157.60	6157.93	6159.74	6160.40	6160.79	6161.15	6161.32	6160.38	6159.86	6158.48	6157.01	6155.55	6153.93	6152.83	6151.78	6150.70	6149.52	6148.26	6146.94	6145.76	6144.56	6143.40	6142.22	6140.57	6142.46	6144.02	6144.12	6143.40	CW/PB
Subsidence	0.19	0.13	0.13	0.07	0.04	0.06	0.00	0.01	-0.04	-0.12	-0.18	-0.33	-0.53	-0.80	-0.95	-1.16	-1.41	-1.74	-1.89	-2.08	-2.30	-2.41	-2.60	-2.74	-2.82	-2.87	-2.92	-2.98	-3.00	-3.03	

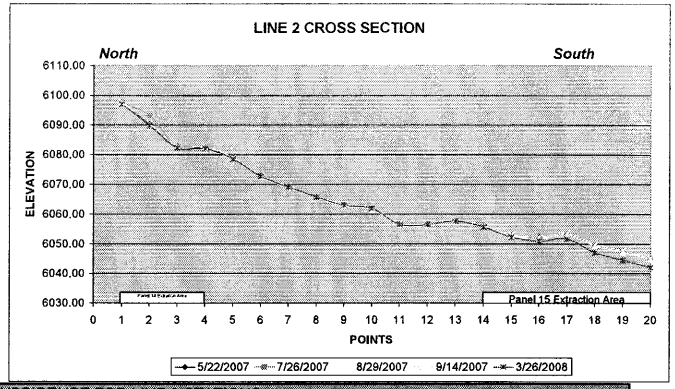


CONSOLENERGY

EMERY MINE

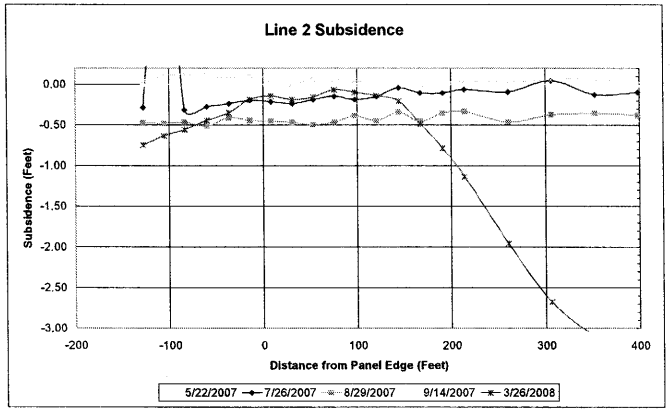
Original Survey by Cody Ware
Using NAD 83

Line 2 Points	Northing	Easting	Elevation	Distance Between Stations (ft)	Distance from Station 1 (ft)	Distance from Panel Edge (ft)
1	6759338.47	1706797.12	6097.75			-128
2	6759328.74	1706774.22	6090.40	24.88	24.88	-106
3	6759317.49	1706753.65	6082.75	23.45	48.33	-84
4	6759303.83	1706733.23	6082.32	24.57	72.90	-60
5	6759290.48	1706712.30	6078.90	24.83	97.73	-37
6	6759278.51	1706691.64	6072.87	23.88	121.61	-14
7	6759267.52	1706670.05	6069.20	24.23	145.84	8
8	6759255.07	1706649.37	6065.86	24.14	169.98	31
9	6759244.31	1706627.80	6063.14	24.10	194.08	53
10	6759233.00	1706606.06	6061.95	24.51	218.59	76
11	6759222.74	1706584.15	6056.56	24.19	242.78	97
12	6759209.44	1706563.61	6056.58	24.47	267.25	121
13	6759197.25	1706541.52	6057.84	25.23	292.48	144
14	6759185.46	1706519.72	6056.15	24.78	317.26	167
15	6759172.35	1706499.00	6052.97	24.52	341.78	191
16	6759160.64	1706476.75	6052.05	25.14	366.92	214
17	6759137.12	1706432.81	6053.52	49.84	416.76	260
18	6759114.78	1706388.45	6049.67	49.67	466.43	306
19	6759090.68	1706344.94	6047.63	49.74	516.17	352
20	6759066.81	1706302.17	6045.16	48.98	565.15	398



ELEVATIONS and SUBSIDENCE FOR LINE 2 STATIONS

POINTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
5/22/2007	6097.75	6090.40	6082.75	6082.32	6078.90	6072.87	6069.20	6065.86	6063.14	6061.95	6056.56	6056.58	6057.84	6056.15	6052.97	6052.05	6053.52	6049.67	6047.63	6045.16	PB/BB
Subsidence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7/26/2007	6097.46	6093.08	6082.43	6082.05	6078.66	6072.67	6068.99	6065.62	6062.95	6061.80	6056.37	6056.43	6057.79	6056.04	6052.86	6051.99	6053.43	6049.72	6047.50	6045.06	MH/PB/BP/RH
Subsidence	-0.29	2.68	-0.32	-0.27	-0.24	-0.19	-0.21	-0.24	-0.19	-0.15	-0.19	-0.15	-0.05	-0.11	-0.11	-0.06	-0.09	0.05	-0.13	-0.10	
8/29/2007	6097.27	6089.92	6082.28	6081.81	6078.49	6072.42	6068.75	6065.39	6062.64	6061.48	6056.17	6056.13	6057.49	6055.69	6052.61	6051.72	6053.06	6049.30	6047.27	6044.78	PB/BH
Subsidence	-0.48	-0.48	-0.47	-0.51	-0.41	-0.44	-0.45	-0.47	-0.50	-0.47	-0.39	-0.45	-0.34	-0.46	-0.36	-0.33	-0.46	-0.37	-0.36	-0.38	
9/14/2007	6097.78	6090.51	6082.87	6082.43	6078.98	6072.98	6069.27	6065.86	6063.21	6062.01	6056.60	6056.61	6057.89	6056.15	6052.99	6052.09	6053.56	6049.73	6047.70	6045.16	CW/PB
Subsidence	0.03	0.11	0.12	0.11	0.08	0.11	0.07	0.00	0.07	0.06	0.04	0.03	0.06	0.00	0.02	0.04	0.04	0.06	0.07	0.00	
3/26/2008	6097.00	6089.77	6082.19	6081.88	6078.55	6072.68	6069.06	6065.67	6062.98	6061.88	6056.46	6056.44	6057.63	6055.66	6052.18	6050.92	6051.57	6047.00	6044.54	6041.98	CW/PB
Subsidence	-0.75	-0.63	-0.56	-0.44	-0.35	-0.18	-0.14	-0.19	-0.16	-0.07	-0.10	-0.14	-0.20	-0.49	-0.79	-1.13	-1.95	-2.67	-3.09	-3.18	



Below is a summary of the flow data from SP-10 collected by Karla Knoop, from JBR Environmental.

Consol Emery Mine
Panel 14th West
Bryant No. 1
Flow Measurements made at dam breach
Measurements taken by Karla Knoop

Date	Flow (gpm)
6/13/2007	77
7/24/2007	52
8/28/2007	75
9/20/2007	69
10/19/2007	59
11/15/2007	54
12/17/07	frozen
1/15/08	Flowing under, over & through ice/snow; can't measure, but flow appears to be similar to the November flow rate.
2/26/08	67
3/21/2008	90