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*Incoming  
C/015/0015*

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**Date:** 5/29/2009 12:27 PM  
**Subject:** Emery Subsidence report  
**Attachments:** Emery Subsidence 04-2009.pdf

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

Regards,  
- Ian

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## Consolidation Coal Emery Mine Subsidence Report for April 2009

4-17-09

6<sup>th</sup> West – Cracks very hard to find. Most of the cracks have weathered and started to fill in. No fresh non-weathered cracks found. RH & JJ

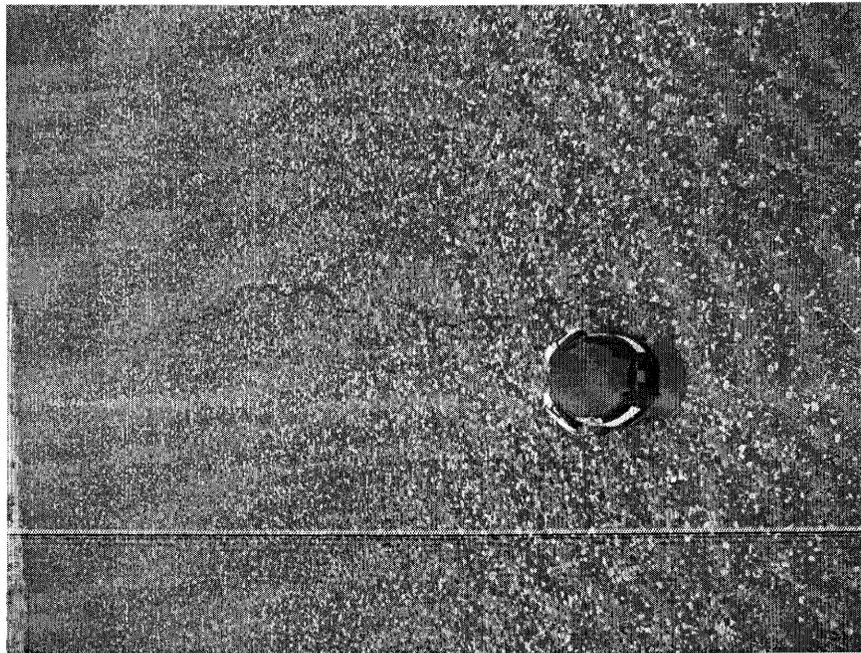
12<sup>th</sup> West – No new cracks were found. Cave underground has advanced to cross-cut 13 and stopped. From cross-cut 12 outby, we are pillaring in the lower seam. The pillar line has advanced under the road and power line. Underground pillar area is sagging but no immediate signs of caving. On the surface, the road fence and power-line show no signs of cracks. On the fence, the fence post may be slightly off vertical. It is unknown of the cause. Looking down the road no large bumps or offsets are apparent. In one picture there is a crack across the road. The crack has small pebbles and dirt in the void. It doesn't appear to be new. RH & JJ



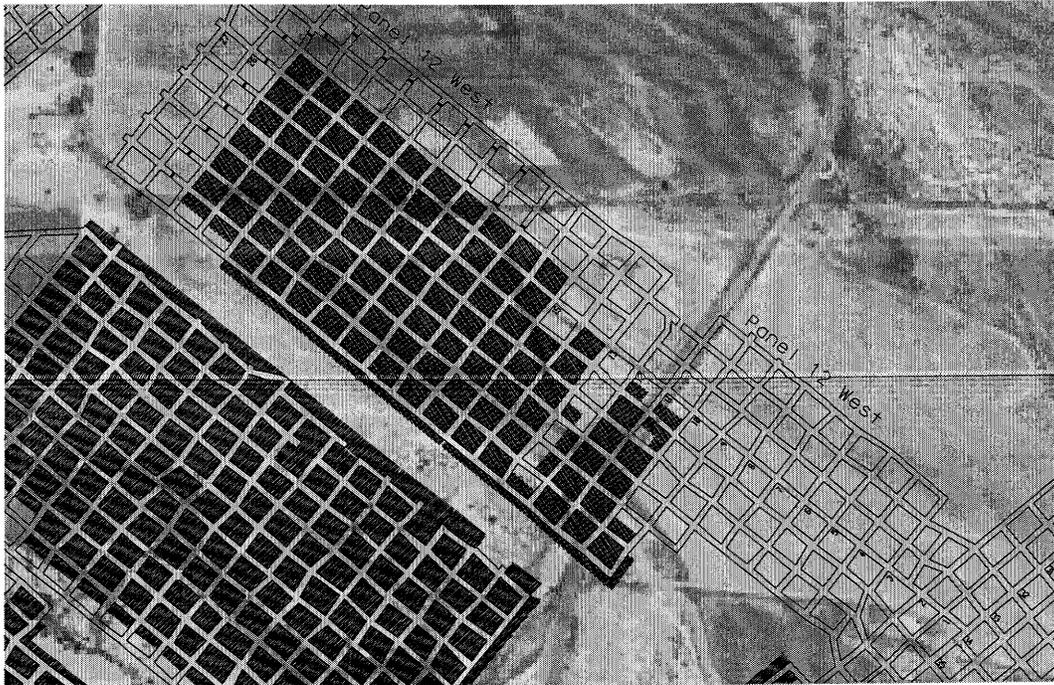
12<sup>th</sup> West Road and Fence



12<sup>th</sup> West Fence and Post



12<sup>th</sup> West Crack Along Road



12<sup>th</sup> West Pillared area as of 4-17-09

4-20-09      6<sup>th</sup> West – Cracks are weathering, but still visible. No new cracks were found at this time. JJ

12<sup>th</sup> West – Daily check on county road was taken. No new cracks were found at this time. There is one crack that we are monitoring. It has caused a slight bump in the road, but does not seem to create a road hazard at this time. Other crack areas have been hard to find because of the amount of brush. JJ



12<sup>th</sup> West Crack/Bump on the Road

- 4-20-09      12<sup>th</sup> West – Crack in the road appears to have remained the same. The bump and crack size has not increased since last checked. JJ
- 4-22-09      12<sup>th</sup> West – The crack in the road has still remained the same as it was when last checked. The crack may be slightly more swollen but still does not prove to be a road hazard. JJ
- 4-23-09      12<sup>th</sup> West – The road crack still shows no signs of change. JJ
- 4-24-09      12<sup>th</sup> West – The road has bumped up a little bit more, but this still doesn't appear to be a road hazard. JJ

4-27-09

12<sup>th</sup> West – Still following a crack pattern in the panel formation. On the left of the panel, cracks are in a gully and hard to find. These cracks appear to be ranging from 0.5” to 1” in width and atleast 5’ to 6’ apart. The right side of the panel the cracks are harder to find. These cracks are very small and sometimes not visible. The road still remains hazard free although the bump is rougher and seems a little wider, but the crack appears to have remained the same. JJ

6<sup>th</sup> West – There have been very little changes. The old cracks continue to fill in with dirt but still are visible. No new cracks have formed. JJ



12<sup>th</sup> West Crack Along Left Side of Panel



12<sup>th</sup> West Crack Along Right Side of the Panel



12<sup>th</sup> West Road Bump

- 4-28-09 12<sup>th</sup> West – The now seems to have swelled a little, but still no hazard. JJ
- 4-29-09 12<sup>th</sup> West – The county road crack has remained the same. JJ
- 4-30-09 12<sup>th</sup> West - The county road crack has remained the same. JJ
- 5-1-09 12<sup>th</sup> West - The county road crack has remained the same. JJ
- 5-4-09 12<sup>th</sup> West - The panel continues to move down and the left of the panel cracks are still much more noticeable. These cracks have gotten wider ranging from 1” to 1.5” and now 5’ to 7’ apart. The right side cracks are still small. Noticed a new crack near the road and will check it daily to see if it cracks the road. JJ & IM
- 6<sup>th</sup> West – No new cracks at the time and the old cracks continue to weather. JJ & IM



12<sup>th</sup> West Left Side of Panel Crack



12<sup>th</sup> West Right Side of Panel Cracks

- 5-5-09            12<sup>th</sup> West - The county road crack has remained the same. JJ
- 5-6-09            12<sup>th</sup> West - The county road crack has remained the same. Although did find a crack but it was very small. No hazard at this time. JJ & IM
- 5-7-09            12<sup>th</sup> West – New small/tiny cracks found on road, but the old cracks remain the same. JJ
- 5-8-09            12<sup>th</sup> West - The county road crack has remained the same. JJ

5-11-09

12<sup>th</sup> West – Found new small cracks in the road about 0.25” wide. JJ

6<sup>th</sup> West – Some of the cracks appear to be slightly larger ranging from 1” to 1.5” wide. JJ



12<sup>th</sup> West Powerlines

5-12-09

12<sup>th</sup> West - The county road crack has remained the same. JJ

5-13-09

12<sup>th</sup> West - The county road crack has remained the same. JJ

5-14-09

12<sup>th</sup> West - The county road crack has remained the same. JJ

5-15-09

12<sup>th</sup> West - The county road crack has remained the same. JJ



12<sup>th</sup> West Road Bump/Crack

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

<b>Date</b>	<b>Flow (gpm)</b>
6/13/2007	77
7/24/2007	52
8/28/2007	75
9/20/2007	69
10/19/2007	59
11/15/2007	54
12/17/2007	frozen
1/15/2008	Flowing under, over & through ice/snow; can't measure, but flow appears to be similar to the November flow rate.
2/26/2008	67
3/21/2008	90
4/24/2008	35
5/22/2008	255
6/25/2008	230
7/16/2008	355
8/14/2008	275
9/10/2008	190
10/21/2008	117
11/19/2008	48
12/11/2008	56
1/21/2009	34
2/26/2008	23
3/10/2009	29
4/20/2009	12