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United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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DIVISION OF LANDS AND MINERALS

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DATE: 9/27/06 NUMBER OF PAGES SENT: 8

FAX NUMBER: (801) 359-3940

TO: DANA DEAN

FROM: PETER BRINTON

SUBJECT: Recorded occurrences where streams have been undermined
"Mining Under Potential Stream Data for
Carbon/Emery Co. Coal Mines (1994)

COMMENTS:
Has geology & coordinate data, etc
framing
Copy Dana
9/28
c/007/0007
c/007/0006
c/007/0018
c/015/0015
c/007/0011
c/007/0016

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Mining Under Perennial Stream Data

for

Carbon/Emery County Coal Mines

January 23, 1994

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Mine #1

Mine Name: Emery Deep Mine
 Stream Name: Quitchumpah Creek
 Township and Range: Township 22 South Range 6 East
 Stream Type: Perennial
 Overburden: 600 feet average
 Mining Method: room and pillar development
 Mining Orientation: perpendicular to stream bed
 Percent Extraction: 47%
 Coordinates of Stream Intercept and Date of Mining:

	<u>Easting</u>	<u>Northing</u>
Prior to 1977 -	2,067,250	193,625
Prior to 1977 -	2,067,906	193,531
1990 -	2,063,312	197,875
? -	2,067,687	193,906
? -	2,063,812	197,844

Geology: In descending order,
 Blue Gate sandstone 190 ft avg.
 Ferron sandstone 160 ft avg.
 sandstone & shale 240 ft avg.

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Mine #2

Mine Name: Cyprus Plateau Mine
 Stream Name: Right Fork of Miller Creek
 Township and Range: Township 15 South Range 8 East
 Stream Type: Perennial
 Overburden: 300 feet
 Mining Method: Longwall
 Mining Orientation: Stream is parallel to mining until the point of dry reach. From the dry reach on the stream is almost perpendicular to the longwall panel.
 Percent Extraction: 100%
 Coordinates of Stream Intercept and Date of Mining:

	<u>Easting</u>	<u>Northing</u>
February 1989	- 2,122,315	433,422

Geology: In descending order,
 Interbedded sandstone/shale - 20 ft.
 sandstone - 40 ft.
 Interbedded sandstone/shale - 40 ft.
 Tank Coal Seam - 5 ft.
 Interbedded sandstone/shale - 195 ft.

* all information is for the point at which stream flow was lost

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Mine #3

Mine Name: Soldier Creek Coal Mine
 Stream Name: Soldier Creek
 Township and Range: Township 13 South Range 12 East
 Stream Type: Perennial
 Mining Method: Room and pillar development
 Mining Orientation: mostly perpendicular to stream bed
 Percent Extraction: 47%
 Geology: Massive sandstones with some shale interbedding

Intercept 1

Coordinates and Date of Mining:

	<u>Northing</u>	<u>Easting</u>
1982 -	498,433	2,250,649

Overburden: 250 ft.

Intercept 2

Coordinates and Date of Mining:

	<u>Northing</u>	<u>Easting</u>
1981 -	502,594	2,251,274

Overburden: 750 ft.

Intercept 3

Coordinates and Date of Mining:

	<u>Northing</u>	<u>Easting</u>
1988 -	505,437	2,251,648

Overburden: 1250 ft.

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Mine #4

Mine Name: Sunnyside Coal Mine
Stream Name: Grassy Trail Creek
Township and Range: Township 14 South Range 14 East
Stream Type: Perennial
Mining Method: Longwall
Mining Orientation: variable
Percent Extraction: 100%
Geology: Sandstone with coal and shale interbedding

Intercept 1

Township Section and Date of Mining:

1985 - Section
18

Overburden: 1500 ft.

Intercept 2

Township Section and Date of Mining:

1980 - Section
20

Overburden: 1000 ft.

Intercept 3

Township Section and Date of Mining:

1981 - Section
20

Overburden: 1000 ft.

Intercept 4

Mining Method: Room and pillar, with pillar extraction

Percent Extraction: 85%

Township Section and Date of Mining:

1959 to 1964 - Section
29

Overburden: 500 ft.

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Mine #5

Mine Name: King Mines
 Stream Name: Cedar Creek
 Township and Range: Township 16 South Range 8 East
 Stream Type: Perennial
 Mining Method: Room and pillar, with pillar extraction
 Mining Orientation: variable
 Percent Extraction: 85%
 Geology: not available

Intercept 1

Township Section and Date of Mining:
 date unknown - Section
 6

Overburden: 1500 ft.

Intercept 2

Township Section and Date of Mining:
 date unknown - Section
 NW 8

Overburden: 500 ft.

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Mine #6

Mine Name: Gordon Creek No. 2 Mine
Stream Name: Beaver Creek
Township and Range: Township 13 South Range 8 East
Stream Type: undecided
Mining Method: Room and pillar, with pillar extraction
Mining Orientation: variable
Percent Extraction: 85%
Geology: Sandstone with shale interbedding

Intercept 1

Township Section and Date of Mining:
Section
date unknown - SW corner of section 7

Overburden: 670 ft.

Intercept 2

Township Section and Date of Mining:
Section
date unknown - NW corner of section 18
Overburden: 670 ft.

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