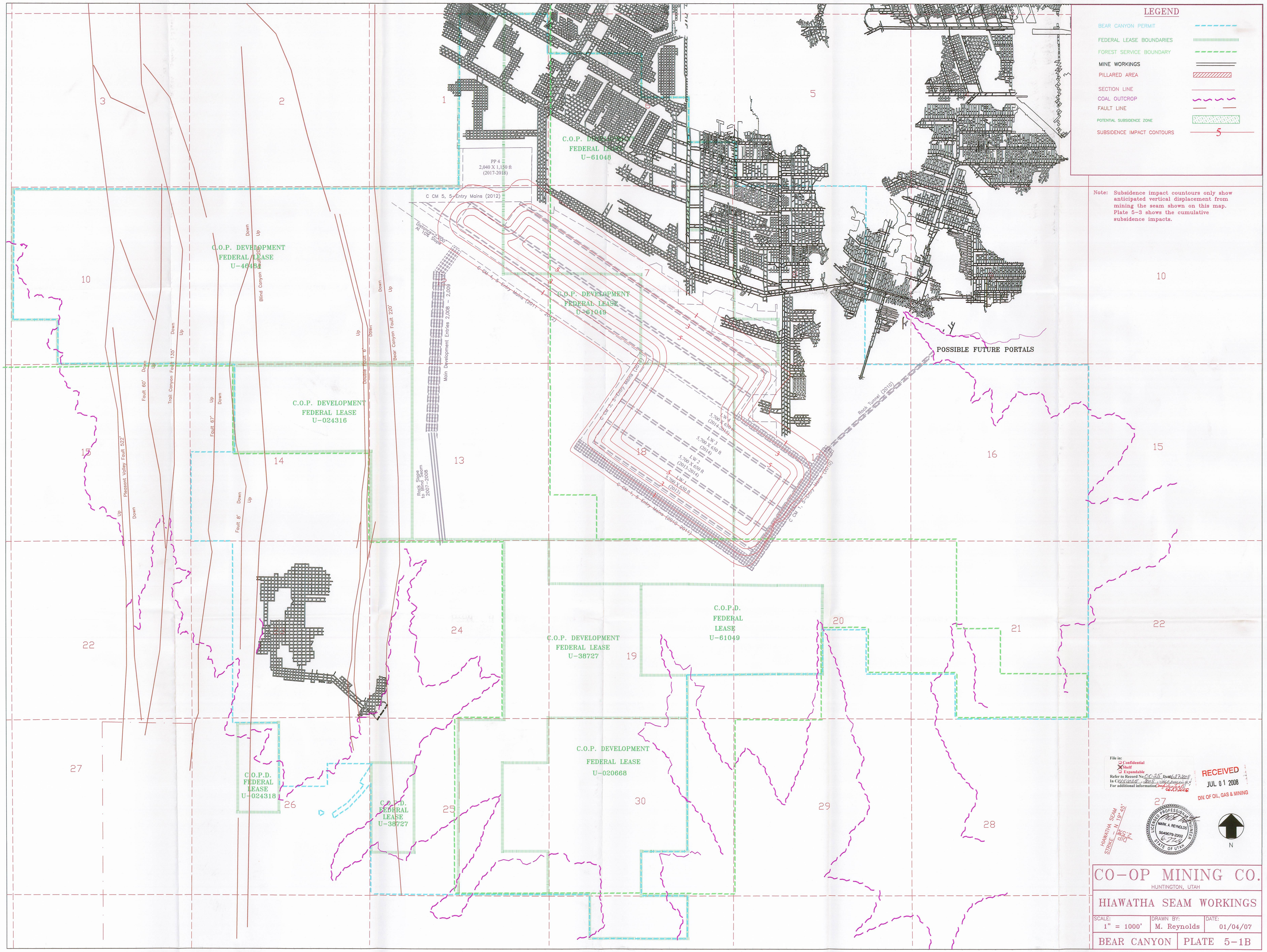
LEGEND
BEAR CANYON PERMIT
FEDERAL LEASE BOUNDARIES
FOREST SERVICE BOUNDARY
MINE WORKINGS
PILLARED AREA
SECTION LINE
COAL OUTCROP
FAULT LINE
POTENTIAL SUBSIDENCE ZONE
SUBSIDENCE IMPACT CONTOURS
5
Note: Subsidence impact countours only show anticipated vertical displacement from mining the seam shown on this map. Plate 5-3 shows the cumulative subsidence impacts.
C.O.P. DEVELOPMENT FEDERAL LEASE U-61048
C.O.P. DEVELOPMENT FEDERAL LEASE U-61049
C.O.P. DEVELOPMENT FEDERAL LEASE U-46458
C.O.P. DEVELOPMENT FEDERAL LEASE U-024316
C.O.P.D. FEDERAL LEASE U-61049
C.O.P. DEVELOPMENT FEDERAL LEASE U-38727
C.O.P. DEVELOPMENT FEDERAL LEASE U-020668
C.O.P.D. FEDERAL LEASE U-024318
C.O.P.D. FEDERAL LEASE U-38727
PP 4 2,040 X 1,150 ft (2017-2018)
C CM 5, 5-Entry Mains (2012)
C CM 4, 5-Entry Mains (2011-2012)
C CM 3, 5-Entry Mains (2010-2011)
C CM 2, 5-Entry Mains (2010-2011)
C CM 1, 5-Entry Mains (2010-2011)
Main Development Entries 2,008 - 2,009
Rock Tunnel (2010)
Rock Slope Hiawatha Seam 2007-2008
LW 4 5,700 X 650 ft (2014-2015)
LW 3 5,700 X 650 ft (2014)
LW 2 5,700 X 650 ft (2013-2014)
LW 1 5,700 X 650 ft (2013)
POSSIBLE FUTURE PORTALS
Pleasant Valley Fault 522'
Trail Canyon Fault 135'
Blind Canyon Fault 120'
Bear Canyon Fault 220'
Fault 60'
Fault 67'
Fault 8'
Double Fault 6'
Up
Down
1
2
3
5
10
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
File in:
Confidential
Shelf
Expandable
Refer to Record No 0035 Date 07/30/08
In C0150038, 308, Hiawatha
For additional information
RECEIVED
JUL 01 2008
DIV. OF OIL, GAS & MINING
HIAWATHA SEAM STRIKE - N 19°45' E
DIP 5°
LICENSED PROFESSIONAL ENGINEER
MARK A. REYNOLDS
5049079-2202
STATE OF UTAH
N
CO-OP MINING CO.
HUNTINGTON, UTAH
HIAWATHA SEAM WORKINGS
SCALE: 1" = 1000'
DRAWN BY: M. Reynolds
DATE: 01/04/07
BEAR CANYON
PLATE 5-1B