C. W. MINING CO.

HUNTINGTON, UTAH

BLIND CANYON SEAM

SCALE:	DRAWN BY:	DATE:
1" = 500'	C. Reynolds	1-1-03

BEAR CANYON | PLATE 3-4A

LICENSED PROFESSIONAL ENGINEER
CHARLES REYNOLDS
No. 179670
11/17/03
STATE OF UTAH

Note: Retreat mining will only take place within the potential subsidence zone. Pillars will be developed and left in place in unhatched areas as described in Appendix 3-C.

E 2,111,000 E 2,112,000 E 2,113,000 E 2,114,000 E 2,115000 E 2,116000 E 2,117000 E 2,118000 E 2,119000 E 2,120000 E 2,121000 E 2,122000 E 2,123000

N 403,000 N 402,000 N 401,000 N 400,000 N 399,000 N 398,000 N 397,000 N 396,000 N 395,000 N 394,000 N 393,000 N 392,000 N 391,000 N 390,000

11 12 / 14 13 — 12 17 / 13 18 — 13 18 / 24 19 — 23 24 / 26 25 — 24 19 / 25 30

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-024316

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-61049

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-38727

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-61049

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-024318

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-38727

C.O.P. DEVELOPMENT
FEDERAL LEASE
U-020668

LOW COAL AREA

LOW COAL AREA

BLIND CANYON FAULT
UP 150-200'
DOWN

BEAR CANYON FAULT
UP 230'
DOWN

DH-4 (Abandoned)

(MINING NOT PROJECTED DUE TO LARGE FAULTS)
(AREA WILL BE EXPLORED OR DRILLED)

All Pillars will be left in place in this area within 200' of the property boundary. Pillars will be developed a minimum of 80' X 80' o.c. for subsidence protection as described in Appendix 3-C.

RFM-1
RFM-2
RFM-3

Borehole to WHR #4 Mine

Main Entries 2,017

3-30-92
4-27-93
9-17-91
11-20-90
11-3-92
11-28-89
6-24-91
8-3-89
2-8-91
9-15-87
3-15-87
8-28-91
6-85
10-5-92
9-22-86
3-1-91
3-16-89
4-15-88
2-29-88
2-25-92
9-30-82
12-1-82
3-89
RETREAT
PILLARED 7-14-95
PILLARED 4-5-95
PILLARED 7-11-95
Retreat 2000
Retreat 2001
Retreat 2002
Retreat 2003
Retreat 2004
Retreat 2005
Retreat 2006
Retreat 2007
Retreat 2008
Develop 2000
3' FAULT OFFSET
1984 - 1985 RETREAT

LEGEND

MONITOR WELLS — DH-1
MINE WORKINGS
PROJECTED MINING
PILLARED AREA
PERMIT BOUNDARY
LEASE BOUNDARY
COAL OUTCROP
POTENTIAL SUBSIDENCE ZONE
COAL BURNOUT
ROOF, FLOOR, MIDSEAM SAMPLE LOCATIONS
RFM-1

See Section 3.4.1.2 for discussion of mining methods and MER

N