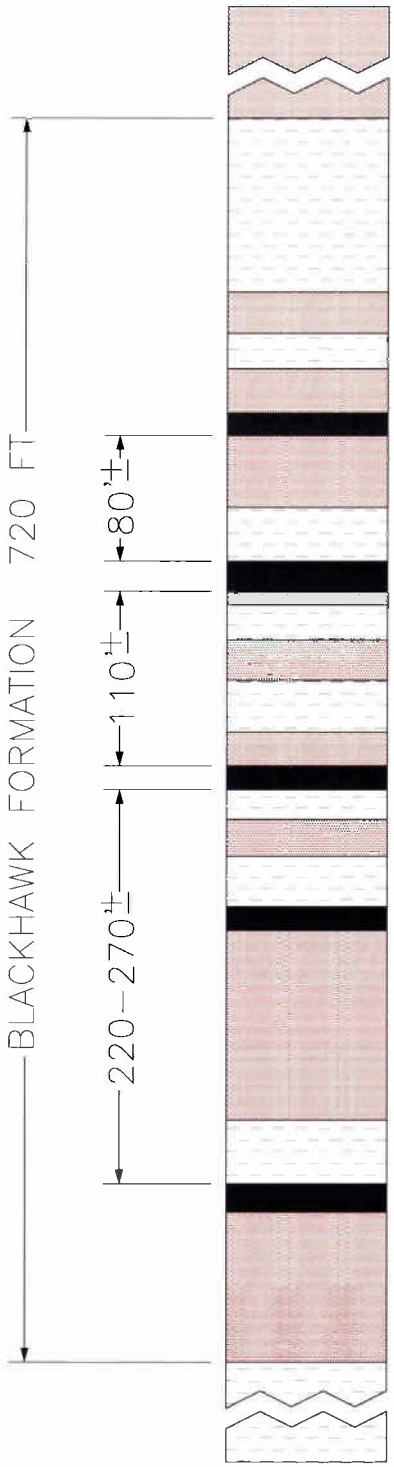


CASTLE GATE SANDSTONE

MSHA/OSRV

Document Number 203

APEX MINE
LOWER SUNNYSIDE COAL SEAM
4' – 5'

LOWER SUNNYSIDE SANDSTONE

PINNACLE MINE
CENTENNIAL COAL SEAM
4' – 7'

PINNACLE MINE
GILSON COAL SEAM
4' – 9'

KENILWORTH MINE
KENILWORTH COAL SEAM

KENILWORTH SANDSTONE

ABERDEEN MINE
ABERDEEN COAL SEAM
4' – 13'

ABERDEEN SANDSTONE

MANCOS SHALE 3,000 FT

GENERALIZED SECTION
BLACKHAWK FORMATION
DEADMAN CANYON

~Figure 1~

UtahAmerican Energy, Inc.

794 NORTH "C" CANYON ROAD, EAST CARBON, UTAH 84520
P.O. BOX 1077, PRICE, UTAH 84501
PHONE: (435) 888-4000 FAX: (435) 888-4002

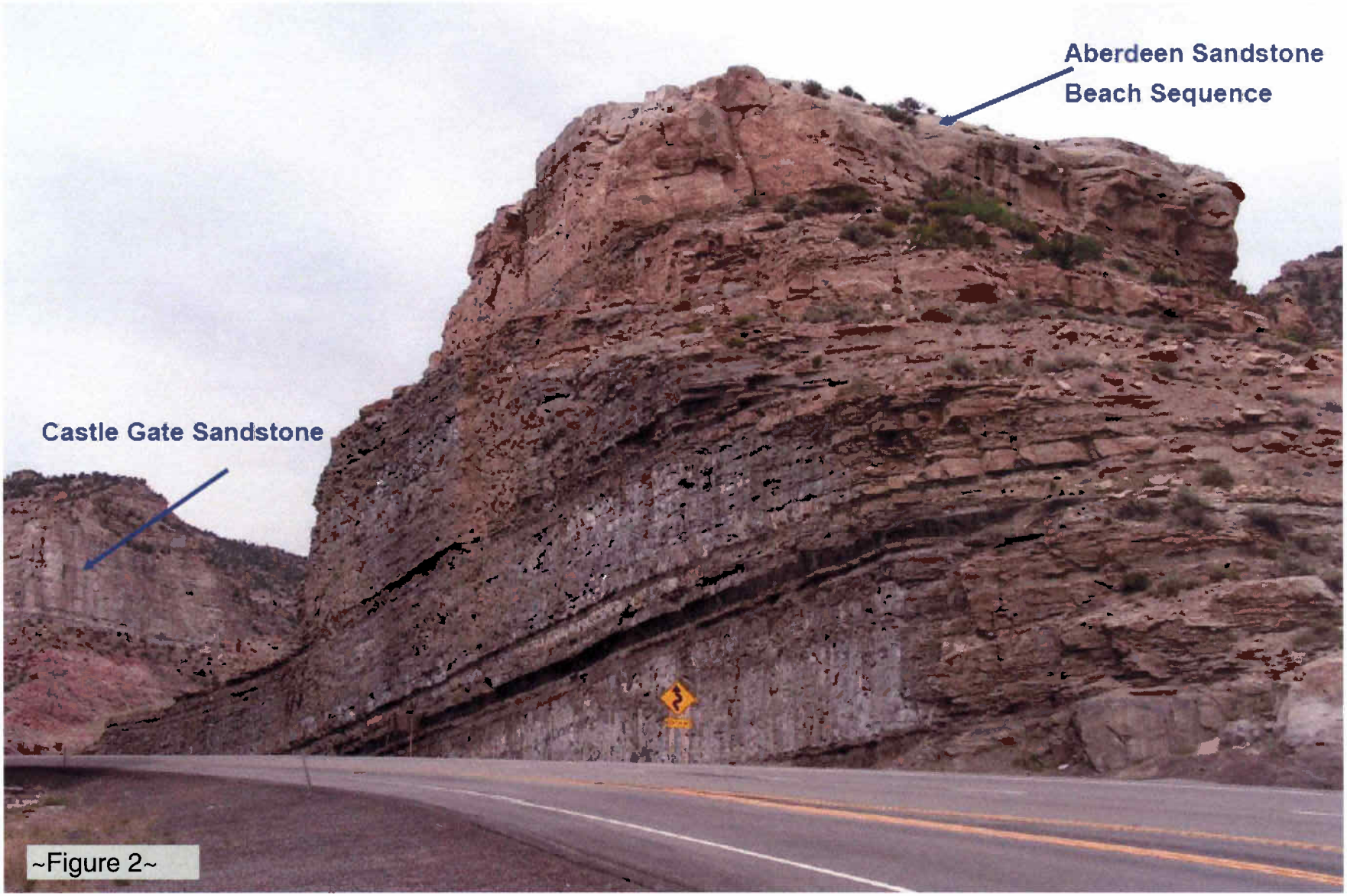
GENERALIZED SECTION

ABERDEEN MINE
TOWER DIVISION
6750 AIRPORT ROAD
PRICE, UTAH 84501

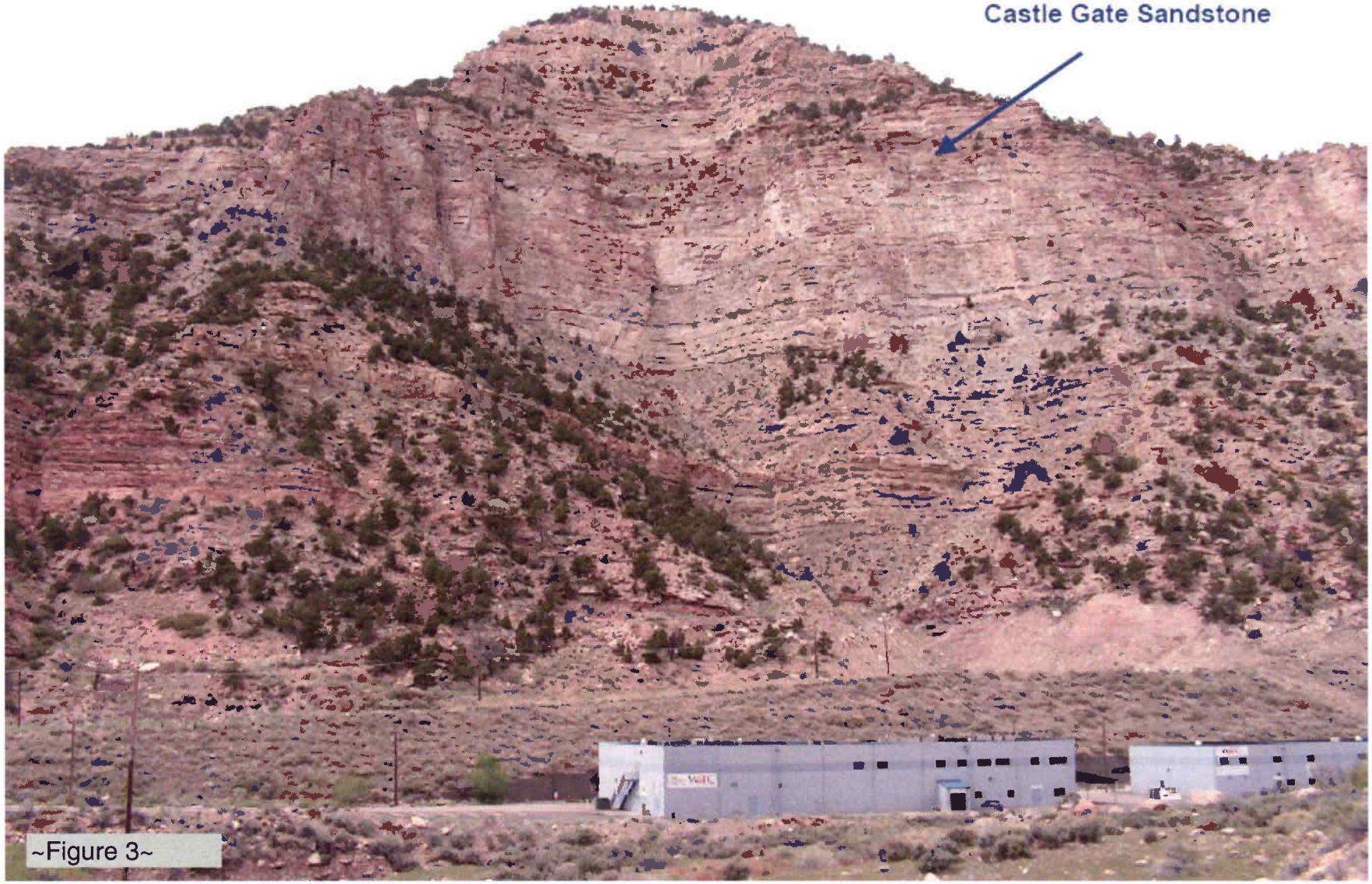
MSHA MINE ID #42-02028

DRAWN BY: PJ	SCALE: NONE
APPROVED BY: LA	DATE: 14 MAY 2007
SHEET	FIGURE 1

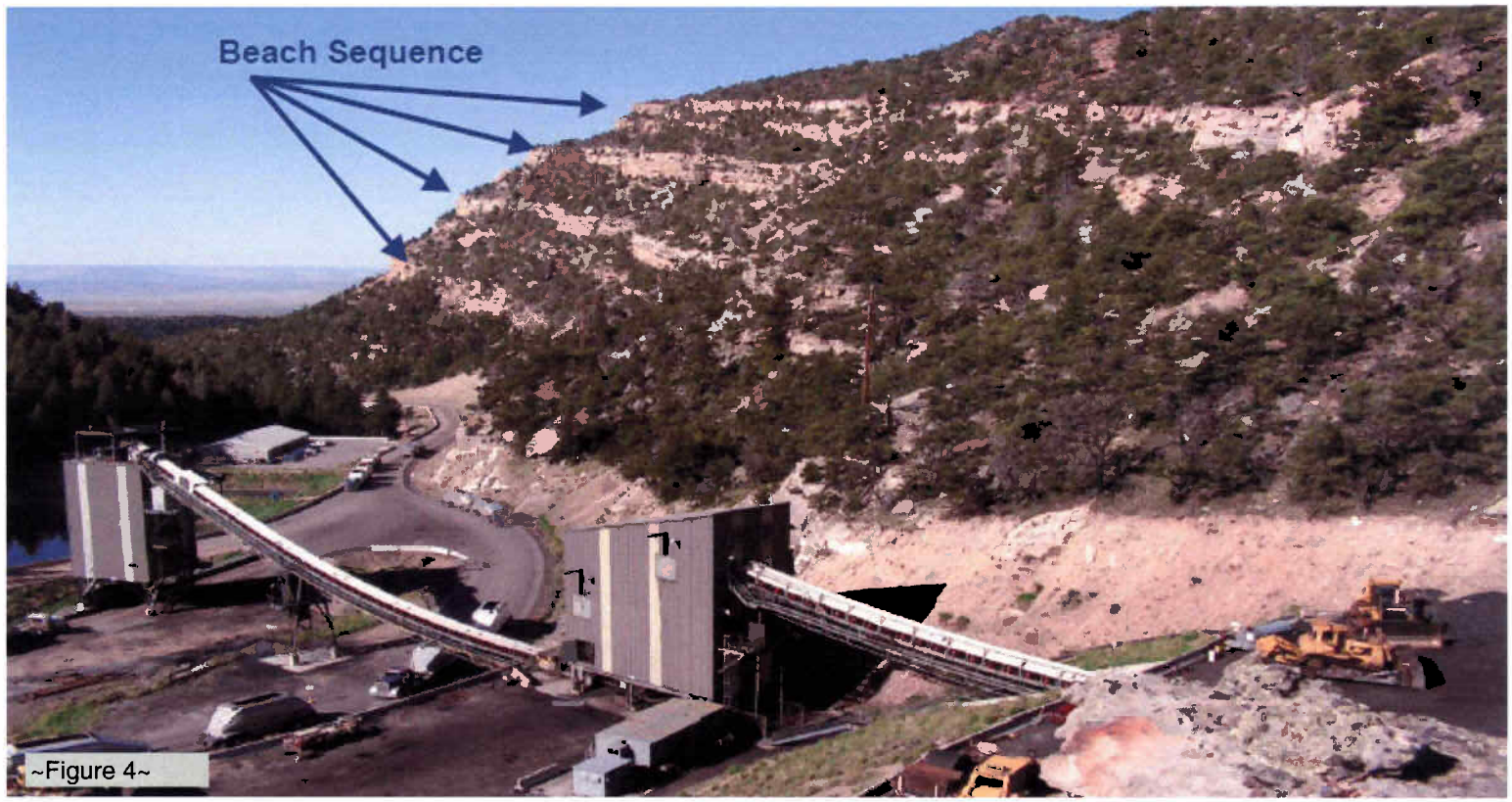
G:\Shared\Current Drawings\Mine Maps\Tower Mine\PRESENTATION\BLACKHAWK FORMATION.dwg, 8 x 11, 5/14/2007 10:28:40 AM



~Figure 2~

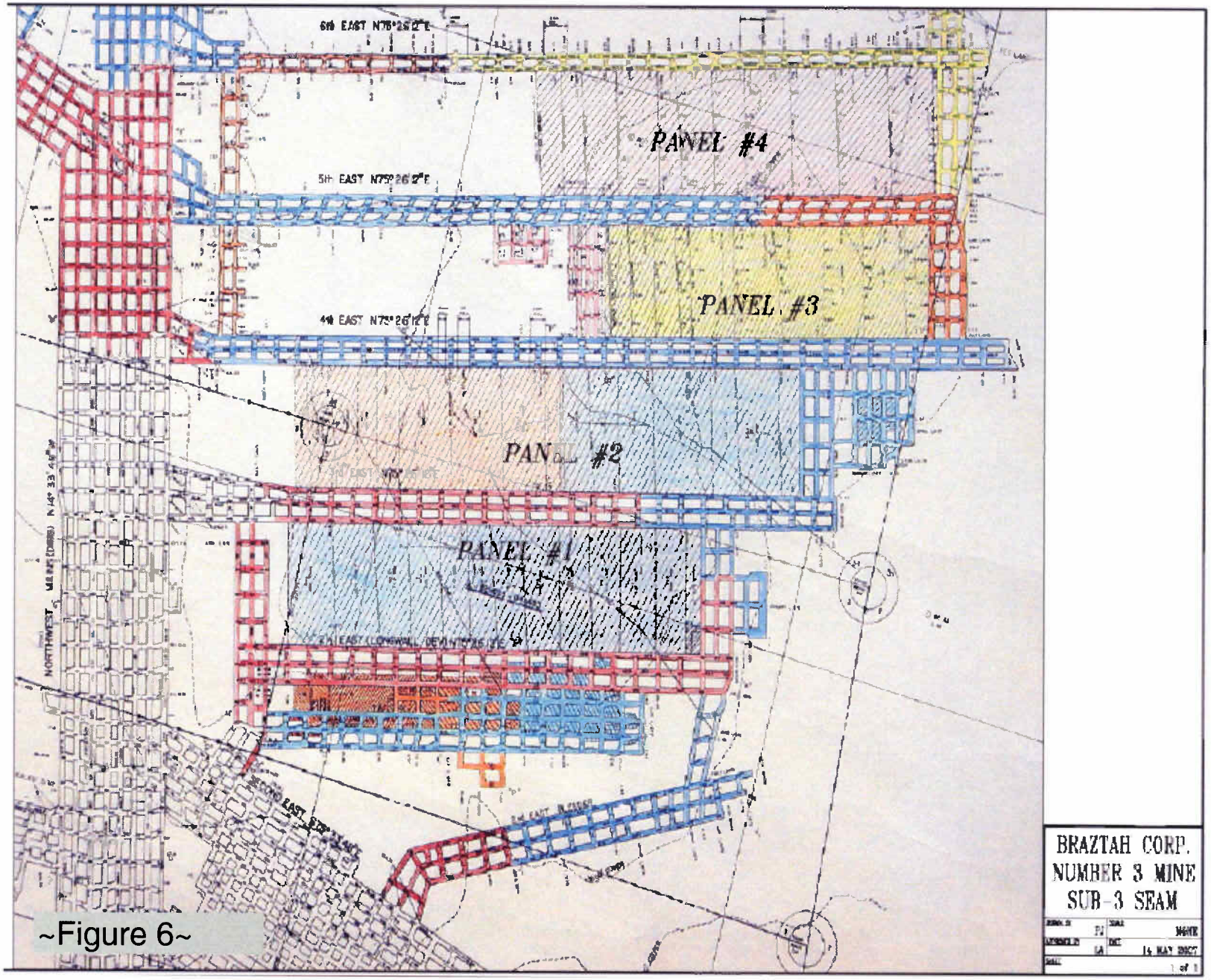


~Figure 3~

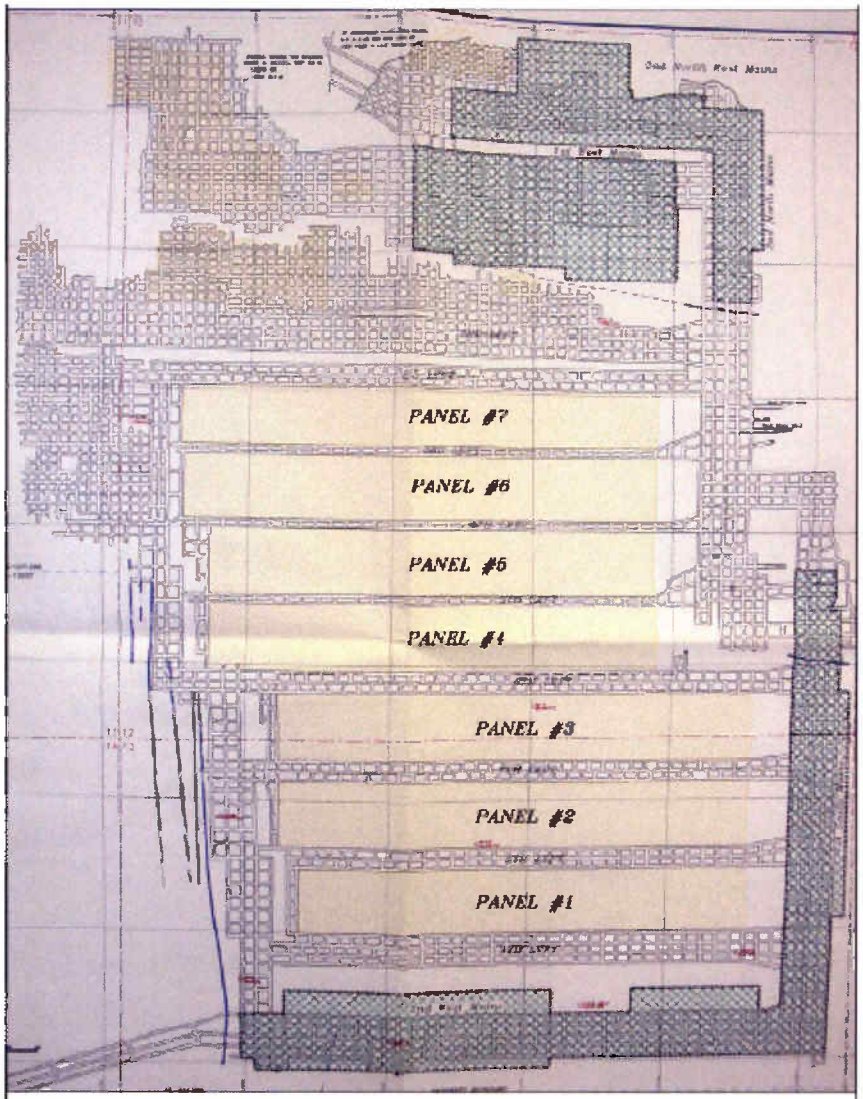


~Figure 4~

~Figure 5~


PANEL #4
PANEL #3
PANEL #2
PANEL #1
BRAZTAH CORP.
NUMBER 3 MINE
SUB-3 SEAM

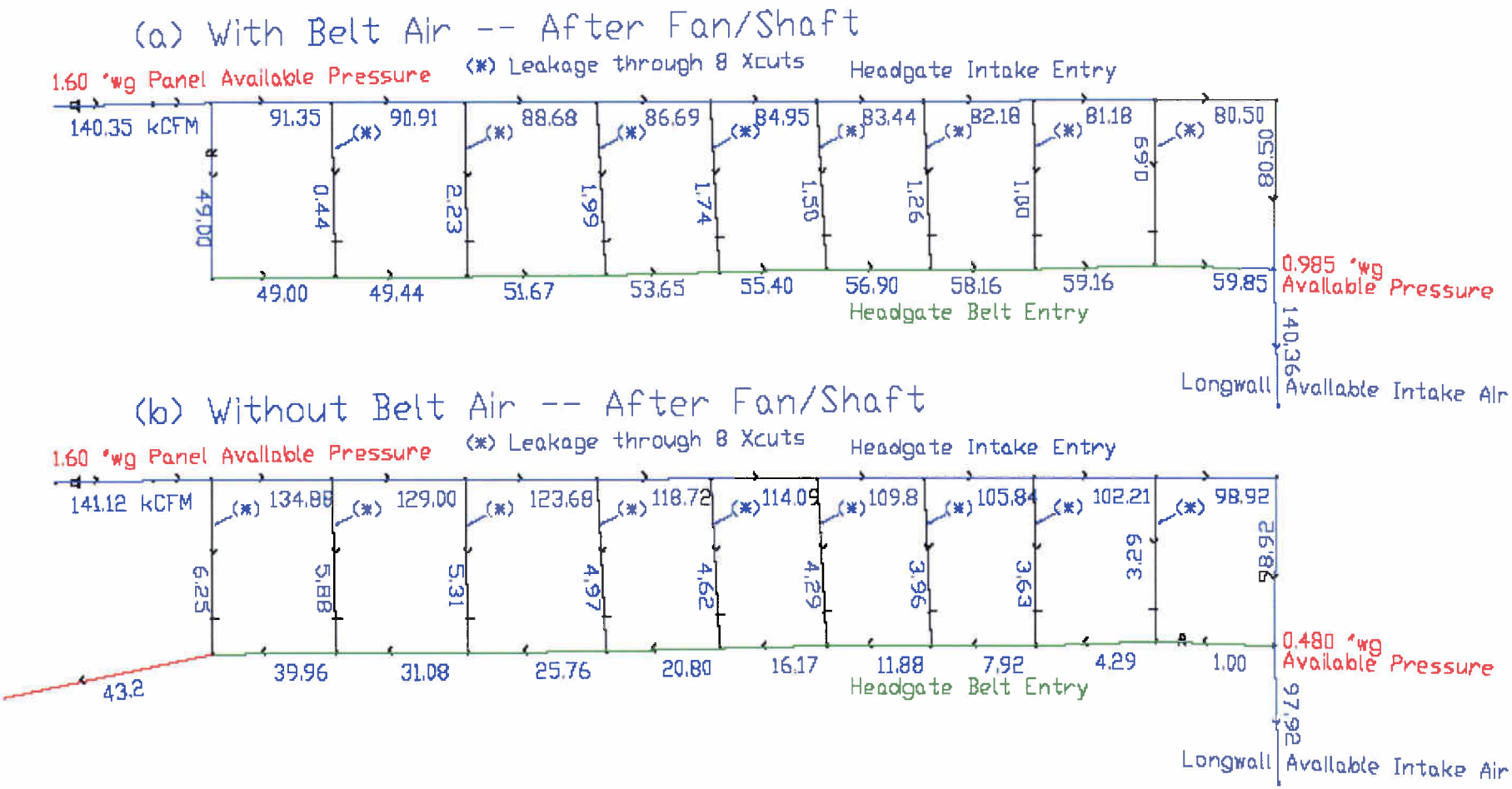
~Figure 6~



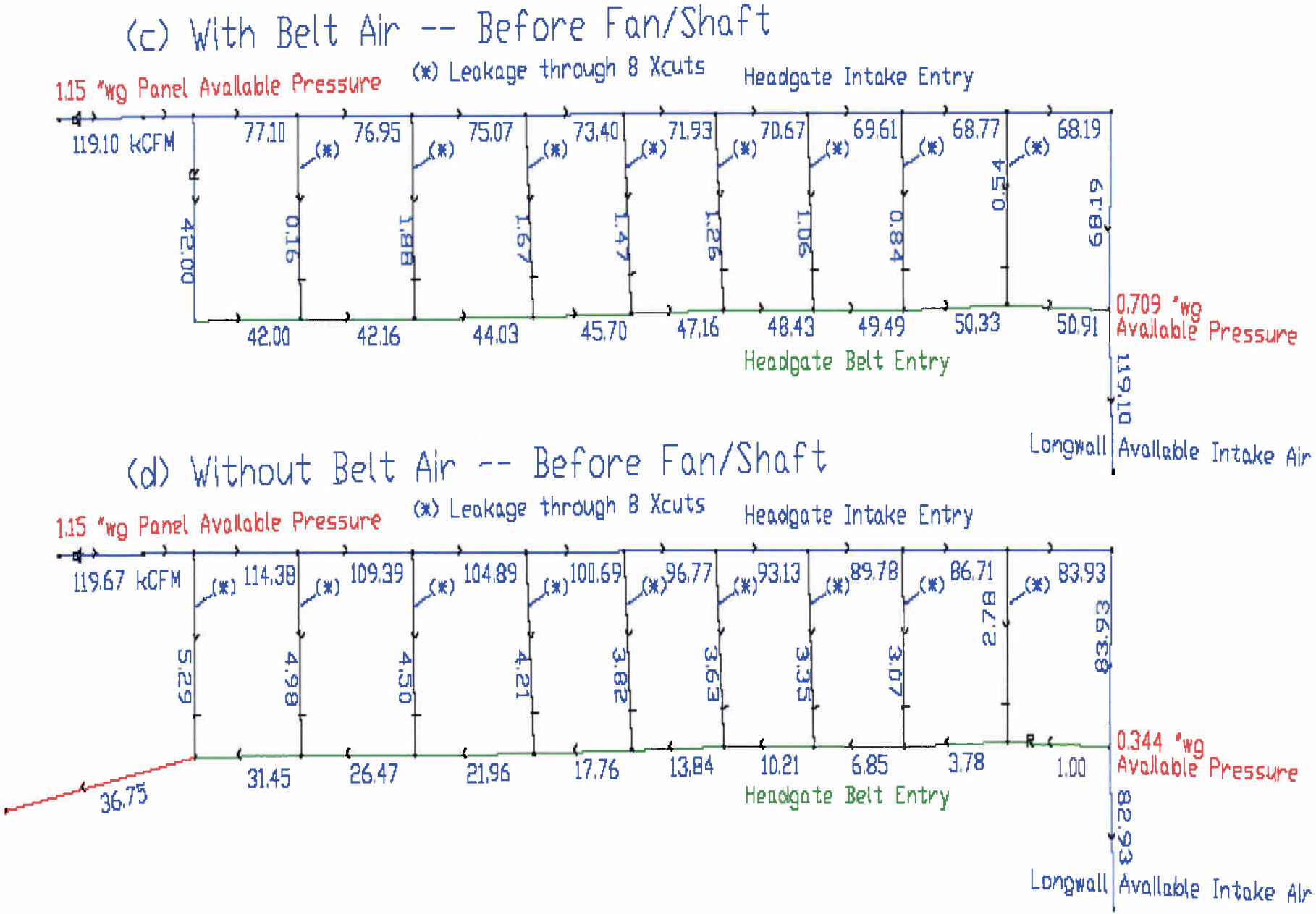
PLATEAU MINING COMPANY
STAR POINT #2 MINE
WATTIS SEAM

~Figure 7~

Tower Mine Longwall Panel 10
Effect of Utilizing Belt Air Before & After Ventilation Improvements
(including addition of Airshaft & Blowing Fan)



~Figure 8~


(c) With Belt Air -- Before Fan/Shaft
1.15 "wg Panel Available Pressure
(*) Leakage through 8 Xcuts
Headgate Intake Entry
119.10 kCFM
77.10
76.95
75.07
73.40
71.93
70.67
69.61
68.77
68.19
(*)
42.00
0.16
1.88
1.67
1.47
1.26
1.06
0.84
0.54
68.19
R
42.00
42.16
44.03
45.70
47.16
48.43
49.49
50.33
50.91
0.709 "wg
Available Pressure
Headgate Belt Entry
119.10
Longwall
Available Intake Air
(d) Without Belt Air -- Before Fan/Shaft
1.15 "wg Panel Available Pressure
(*) Leakage through 8 Xcuts
Headgate Intake Entry
119.67 kCFM
114.38
109.39
104.89
101.69
96.77
93.13
89.78
86.71
83.93
(*)
5.29
4.98
4.50
4.21
3.82
3.63
3.35
3.07
2.78
83.93
R
36.75
31.45
26.47
21.96
17.76
13.84
10.21
6.85
3.78
1.00
0.344 "wg
Available Pressure
Headgate Belt Entry
82.93
Longwall
Available Intake Air

~Figure 9~

Tower Mine Longwall Panel 10

Effect of Utilizing Belt Air Before & After Ventilation Upgrade

Case	Belt Air	Fan Upgrade	Air Available at Headgate (cfm)	Percent Increase with Belt Air	Diagonal Pressure at HG (inches w.g.)
a	X	X	140,000	42.9%	0.98
b		X	98,000		0.48
c	X		119,000	43.4%	0.71
d			83,000		0.34

Figure 10