GEOLOGY OF DUGOUT CANYON MINE PERMIT AREA

Canyon Fuel Company, LLC
Soldier Canyon & Dugout Canyon Mines

DATE	BY	REVISION
12/29/03	RR	
10/07/03	SC	
02/28/03	JHJ	
02/21/08	KVH/SWF	

Dugout Canyon Mine

DRAWN BY: A.P.	DATE: MAY 7, 1999
CHECKED BY: MKS	FILE NAME: D-666.DGN
DRAWING OF: PLAT 6-1	SCALE: 1" = 1000'

APPROVED BY: MKS
K:\2006\Mining Plan\Figures\Misc\Plate 6-1.dwg
Last Updated By: mstrand

PLATE 6-1

RECEIVED
APR 1 8 2008
DIV. OF OIL, GAS & MINING

0' 1000'

UTAH PROFESSIONAL GEOLOGIST
STATE OF UTAH
No. 166246
RICHARD D. WHITE
Richard D. White
4/16/08

Filed for record at the request of Canyon Fuel Company, LLC
Date 4/18/2008 Time 3:00 PM
Book M-3 Page 0
Fee $0.00
Carbon County Recorder
By Deputy

GEOLOGIC MAP BASED ON ANDERSON (1983) & INTRAGEARCH (1998).

LEGEND

- PERMIT AREA BOUNDARY
- STRIKE AND DIP
- DRILL HOLE LOCATION
- ADDITION TO PERMIT BOUNDARY
- APPROXIMATE LOCATION OF THE ROCK CANYON COAL SEAM
- APPROXIMATE LOCATION OF THE TOP OF THE MIDDLE SANDSTONE MEMBER OF THE BLACKHAWK FORMATION
- NORMAL FAULT, DASHED WHERE INFERRED. U. UPTHROWN SIDE D. DOWNTHROWN SIDE

QUATERNARY
- Qal ALLUVIUM
- Qg PEDIMENT GRAVELS

TERTIARY
- Tc COLTON FORMATION
- Tf FLAGSTAFF FORMATION

TERTIARY–CRETACEOUS
- Tkn NORTH HORN FORMATION

CRETACEOUS
- Kp PRICE RIVER FORMATION
- Kcg CASTLEGATE SANDSTONE
- Kb BLACKHAWK FORMATION
- Ksp STAIR POINT SANDSTONE
- Km MANCOS SHALE

NOTES:
1. REFER TO REFUSE PILE AMENDMENT AND METHANE DRAINAGE PLAN AMENDMENT FOR INFORMATION PERTAINING TO THESE AREAS.
2. SEE PLATE 6-1 FOR A-A', CROSS SECTION.
3. SEE PLATE 6-3 FOR B-B' AND C-C' CROSS SECTIONS.
4. SEE PLATE 6-3A FOR D-D' CROSS SECTION.
5. SEE PLATE 6-3B FOR E-E' AND F-F' CROSS SECTIONS.

T 13 S
T 14 S
R 12 E
R 13 E

NEW PERMIT BOUNDARY

PAGE CANYON FAULT
DISTURBED AREA BOUNDARY

DISTURBED AREA BOUNDARY

COUNTY ROAD (PUBLIC ROAD)

LEACH FIELD

A
A'
B
B'
C
C'
D
D'
E
E'
F
F'