Panel 18
Panel 17
Panel 16
Panel 15
Panel 14
Panel 13
Panel 12
Panel 11
Panel 10
Panel 9
Panel 8
Panel 22
Panel 21
Panel 7
Panel 31
Panel 30
Panel 29
Panel 28
Panel 27

Whitmore Canyon
Grassy Trail Reservoir
2500' COVER
2000' COVER
500' COVER
Potential Fracture/Fault Zone
FEDERAL LEASE UTU-78562
STATE LEASE ML 47711
STATE LEASE ML 49287
FEDERAL LEASE SL-068754
FEE
Kaiser Steel Corp. Sunnyside Mine Workings (Inactive) LOWER SUNNYSIDE SEAM WORKINGS
UPPER SUNNYSIDE SEAM WORKINGS
OUTCROP
Canyon
"B" CANYON ROAD
PANEL #6
PANEL #5A
PANEL #5
PANEL #4
PANEL #3
PANEL #2
PANEL #1
BARRIER
COVER
6'
5'
6.5'
7'
7.5'
8'
9'

LEGEND

Longwall Gob Areas
Jan. 2005 Production Area
Feb. 2005 Production Area
Mar. 2005 Production Area
Apr. 2005 Production Area
May 2005 Production Area
Jun. 2005 Production Area
Jul. 2005 Production Area
Aug. 2005 Production Area
Sep. 2005 Production Area
Oct. 2005 Production Area
Nov. 2005 Production Area
Dec. 2005 Production Area
2006 Production Area

STATE OF UTAH
#191486
PROFESSIONAL ENGINEER

I hereby certify that the design and/or map contained herein was prepared by me or under my supervision and is true and correct to the best of my knowledge.

LEGEND

STOPPING
STOPPING WITH DOOR
EQUIPMENT DOOR
BOX CHECK CURTAIN
TRAVEL CURTAIN
REGULATOR
OPEN WALL STOPPING WITH DOOR
FUTURE MINING
SEAL
PROPOSED SEAL
CONVEYOR TRANSFER POINT
ROCK STORAGE
INTAKE AIR
RETURN AIR
BLEEDER AIR
PRIMARY EGRESS
SECONDARY EGRESS
PROPERTY CORNER
X-CUT NUMBER
OVERCAST
OVERCAST W/ WINDOOR
EXTRACTED RESOURCES
BLEEDER MEASUREMENT POINT
CO SENSOR
CO2 SENSOR
H2S SENSOR
CH4 SENSOR
PROJECTED OVERCAST
POSTED NOT MAINTAINED
VENTILATION PIPE
STOPPING/DAM
PROJECTED STOPPING
BRATTICE LINE
OVERBURDEN
TOP OF COAL SEAM (STRUCTURE)
SURFACE DRILL HOLE
EVALUATION POINTS
LEASE BOUNDARY
BASELINE POINT

SURVEY INFORMATION:

ENTRY HT.
STATION
SCRIP ELEVATION

SEAL INSTALLATION

1. SEAL WILL BE INSTALLED ACCORDING TO R2-7-305 (B)(1)(a) AND (B)(1)(b) WHEN SEAL WILL BE INSTALLED IN A PANEL.
2. PANEL SEALS IN THE HIGHEST CLEARANCE WILL BE INSTALLED IN A PANEL SEAL.
3. PANEL SEALS IN LOWEST CLEARANCE WILL BE EQUIPPED WITH A DRAIN PIPE AND A WATER TRAP

NOTES

1. NO WATER POOLS EXIST ABOVE THE MINE.
2. MINE WORKINGS ARE APPROXIMATELY 400' THE TOP OF THE SEAM.
3. ALL SEALS AND WELLS ARE SHOWN ACCURATELY WITH RESPECT TO EACH OTHER.
4. ALL WELLS ARE CAPPED.

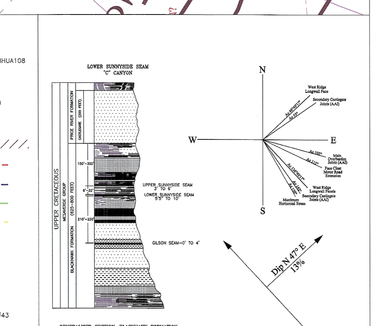
EVALUATION POINT LOCATIONS

1. SUMP #1 – MAINS #1 RETURN ENTRY
POINT-IN (E11)
POINT-OUT (E2)
2. SUMP #1 – MAINS #1 RETURN ENTRY
POINT-IN (E3)
POINT-OUT (E4)
3. SUMP #1 – MAINS #1 RETURN ENTRY XC #10
POINT-IN (E5)
POINT-IN (E6)
4. SUMP #4 – MAINS #1 RETURN ENTRY XC #18
POINT-IN (E7)
POINT-OUT (E8)
5. SUMP #5 – MAINS #1 RETURN ENTRY XC #21
POINT-IN (E9)
POINT-OUT (E10)
6. SUMP #6 – MAINS #1 RETURN ENTRY XC #27
POINT-IN (E11)
POINT-OUT (E12)
7. SUMP #7 – MAINS #1 RETURN ENTRY XC #32
POINT-IN (E13)
POINT-OUT (E14)
8. SUMP #8 – MAINS #1 RETURN ENTRY XC #37
POINT-IN (E15)
POINT-OUT (E16)
9. SUMP #9 – MAINS #2 RETURN ENTRY XC #42
POINT-IN (E17)
POINT-IN (E18)
10. SUMP 9 – NORTH INTAKE BLEEDER ENTRY XC #1
POINT-IN (E19)
POINT-OUT (E20)
11. SUMP 9 – NORTH INTAKE BLEEDER ENTRY #1 XC #15
POINT-IN (E21)
POINT-OUT (E22)
12. SUMP 10 – MAINS #1 RETURN ENTRY XC #50
POINT-IN (E23)
POINT-OUT (E24)
13. SUMP 11 – MAINS #1 RETURN ENTRY XC #56
POINT-IN (E25)
POINT-OUT (E26)
MAINS #2 INTAKE ENTRY XC #56
POINT-IN (E27)
POINT-OUT (E28)
14. SUMP #12 – MAINS #3 BELT ENTRY XC #56
POINT-IN (E29)
POINT-OUT (E30)
15. SUMP #12 – MAINS #4 INTAKE ENTRY XC #56
POINT-IN (E31)
POINT-OUT (E32)
MAINS #5 RETURN ENTRY XC #56
POINT-IN (E33)
POINT-OUT (E34)

FAN INFORMATION

MANUFACTURER – JeffreyCrosser Dolne-Hold Model BHLA108
IMPELLER DIAMETER– 108" IMPELLER WIDTH– 10"
DIAMETER– 9'
VOLTAGE– 4160, 60 hertz, 3 phase
Kw– 180 BLADE SETINGS– 10
FAN INSULATION MEETS REQUIREMENTS OF 75.310

Permit Boundary
Federal Lease
State Lease
Leased Penta Creek Fee
Penta Creek Fee


UPPER SUNNYSIDE SEAM
LOWER SUNNYSIDE SEAM
LOWER SUNNYSIDE SEAM
SANDSTONE
SHALE
COAL
SANDSTONE
SHALE
SANDSTONE
SHALE
SANDSTONE
SHALE