PERMIT AREA "A"

PERMIT AREA "B"

PROJECTED CONTACT OF WATER AND COAL SEAM

PROJECTED PIEZIOMETRIC SURFACE

LAST OBSERVED WATER ELEVATION 5870

ESTIMATED FACE ELEVATION 5550

ROTARY DUMP WATER LEVEL - 5900'

EXPLORATION ENTRY

ROCK SLOPES

IPA #1 EL = 7034' 144 sh WATER LEVEL - 6904'

IPA #2 EL = 6865' 10.3' WATER LEVEL - 5962

IPA #3 EL = 6810' 11.0' WATER LEVEL - 5975

S-32 EL = 6567' 6.6' WATER LEVEL - 5836

ENTRY - 7500' FAULT

NORTH LILA CANYON FAULT

MIDDLE LILA CANYON FAULT

SOUTH LILA CANYON FAULT

CENTRAL GRABEN FAULT

WILLIAMS DRAW FAULT

SOUTH BOUNDARY FAULT

SUNNYSIDE FAULT

CARBON COUNTY RAILROAD

SOUTHERN PACIFIC RAILROAD

46K Volts

Horse Canyon Well

MDC Well

North Fork

South Fork

Middle Canyon

Horse Canyon

Lila Canyon

Grassy Wash

Lila Wash

Right Fork Lila Wash

Little Park Wash

Bear Canyon

Nelson Canyon

Pine Spring Wash

Nonume Wash

Left Fork Williams Draw

Middle Fork Williams Draw

Right Fork Williams Draw

Stinky Spring Wash

Marsh Flat Wash

Little Park Wash

County Road

TO SALT LAKE CITY

TO GRAND JUNCTION

T 15 S
T 16 S

T 16 S
T 17 S

R 13 E
R 14 E

R 14 E
R 15 E

LEGEND:

- SEEP AND SPRING MONITORING LOCATIONS: ▲12
- SURFACE WATER MONITORING LOCATIONS:
- IN-MINE MONITORING LOCATIONS:
- WELLS/PIEZOMETERS
- NATURAL DRAINAGE:
- COAL OUTCROP:
- PIEZOMETRIC SURFACE:
- STRUCTURE LINES:
- FAULTS: U / D

PERMIT AREA "B" (LILA CANYON):

PERMIT AREA "A" (HORSE CANYON):

REVISION DATE:

DATE:	BY:	DATE:	BY:
July 1999	WJ		
November 1999	BHE		
March 2000	BHE		
AUG 2000	BJ		
DEC 2000	BJ		
April 2002	RJM		
September 2002	RJM		

1000' 0' 2000' 4000'

UTAH REGISTERED PROFESSIONAL ENGINEER
#152606
R. Jay Marshall
11/01/05

RECEIVED
JAN 09 2006
DIV. OF OIL, GAS & MINING

LILA CANYON MINE

PERMIT AREA HYDROLOGY

DATE:	DESIGNED BY:
MAY 1998	BLACKHAWK ENG.
SCALE: AS SHOWN	PLATE #: 7-1