PERMIT AREA "A"

PERMIT AREA "B"

NORTH LILA CANYON FAULT

MIDDLE LILA CANYON FAULT

SOUTH LILA CANYON FAULT

ENTRY FAULT

CENTRAL GRABEN FAULT

Old Lila Canyon Fan Portals Mined from Inside Out NO Surface Disturbance Permananetly Sealed

PROJECTED NEW PORTALS

FIRST MINING ONLY

EXPLORATION ENTRY

EXISTING EMERY COUNTY ROAD

FOREST OIL COMPANY

S-19 EL = 7237 13.6'

S-3 EL = 7070 13.5'

IPA #1 EL = 7034 14.4'

S-20 EL = 6957 13.9'

S-18 EL = 7105 13.5'

IPA #2 EL = 6865 10.3'

S-2 EL = 6825 11.5'

IPA #3 EL = 6810 11.0'

S-21 EL = 6782 13.1'

S-16 EL = 6850 10.9'

S-15 EL = 6668 11.2'

S-22 EL = 6720 11.0'

Area Partially Mined

OC-01 OC-02 OC-03 OC-1a OC-1b OC-2 OC-3 OC-3a OC-4 OC-6 OC-7 OC-8 OC-9

D 13' D 8' D 17' D 25' D 40' D 205' D 145' D 50'

INCORPORATED OCT 18 2011 Div. of Oil, Gas & Mining

RECEIVED SEP 26 2011 DIV. OF OIL, GAS & MINING

RECEIVED JUL 05 2011 DIV. OF OIL, GAS & MINING

LEGEND:

- PERMIT AREA "B" (LILA CANYON):
- PERMIT AREA "A" (HORSE CANYON):
- LMU
- COAL OUTCROP:
- OUTCROP MEASURMENTS: OC-11
- FAULTS: U D
- COVER LINES: 500
- MAXIMUM EXTENT OF SUBSIDENCE:
- Using 21.5° angle draw
- FIRST MINING
- OUTCROP BARRIER (Extent of 2nd Mining)

REVISION DATE:

DATE:	BY:	DATE:	BY:
APRIL 23 1998	RJM	May 18, 2009	RJM
AUG. 28, 2000	BJ	June 14, 2011	RJM
DEC 14, 2000	BJ		
Sep 20, 2002	RJM		
Oct 15, 2003	RJM		
Dec 29, 2004	RJM		
Jan 14, 2005	RJM		

N

T16S R14E

500' 0' 1000' 2000'

UTAH REGISTERED PROFESSIONAL ENGINEER #152606 R. Jay Marshall 10/28/11

LILA CANYON MINE

Mine Map

DATE:	DESIGNED BY:
JANUARY 1999	UtahAmerican Energy, Inc.
SCALE: AS SHOWN	PLATE #: PLATE 5-5

QUARTERS LEGEND:

- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016-2020
- 2021-2025