#5932

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 910
East Carbon, Utah 84520
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

June 10, 2019

Utah Division of Oil, Gas & Mining
Utah Coal Program
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Attn: Steve Christensen
Permit Supervisor

Re: Lila Canyon Mine, UtahAmerican Energy, Inc. C/007/013
L19-003 Office Trailer Addition

Dear Mr. Christensen

Attached you will find the Clean Copies for the proposed plan to add an office trailer to the Lila Canyon Mine MRP.

If you have any questions, or need any additional information regarding this submittal, please contact me directly at 435-888-4000.

Sincerely,

Karin Madsen
Engineering Tech
UtahAmerican Energy, Inc.

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Application for Permit Processing
Detailed Schedule of Changes to the MRP

L19-003 Temporary Office Trailer Addition	Permit Number: ACT/007/013
	Mine: Lila Canyon
	Permittee: UtahAmerican Energy, Inc.

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☐ REPLACE	☐ REMOVE	Plate 5-2 As Built Surface Facilities
☐ ADD	☐ REPLACE	☐ REMOVE	Chapter 5 page 10
☐ ADD	☐ REPLACE	☐ REMOVE	Bonding Calculations - Tab 01 and Total tab.
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

Lila Canyon Mine Reclamation Bond Estimate

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	$830,345.00	
Subtotal Backfilling and Grading	$567,433.00	
Subtotal Revegetation	$151,618.00	
Direct Costs in 2017 Dollars	**$1,549,396.00**	

Indirect Costs

Mob/Demob	$154,940.00	10.0%
Contingency	$77,470.00	5.0%
Engineering Redesign	$38,735.00	2.5%
Main Office Expense	$105,359.00	6.8%
Project Management Fee	$38,735.00	2.5%
Subtotal Indirect Costs 2017 Dollars	**$415,239.00**	**26.8%**
Total Cost	**$1,964,635.00**	
Escalation factor		0.0232
Number of years		2
Escalation	$92,217.00	
Total Reclamation Cost 2021 Dollars	**$2,056,852.00**	
Bond Amount (rounded to nearest $1,000) 2021 dollars	**$2,057,000.00**	
Bond Posted	$2,057,000.00	
Difference Between Posted Bond and Cost Estimate	**$0.00**	

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Lila Canyon Mine Reclamation Bond Estimate

Demolition and Removal Cost Summary

Structure/Item	Cost ($)
01 Office/Bathhouse	81,311
02 ROM Coal Stockpile	0
03 Shop/Warehouse	170,039
04 Storage Shed	348
05 Employee Parking	96,771
06 Truck Loading/Unloading Area	0
07 Equipment/Materials Storage Area	0
08 Potable Water Tank	3,741
09 Sewer Treatment Plant	887
10 Power Poles	11,603
11 Electrical Transformers	4,961
12 Overhead Power Lines	2,952
13 Buried Power Lines	816
14 Rock Dust Silo	3,147
15 Fuel & Oil Tanks	7,902
16 Reclaim Tunnel	23,160
17 Reclaim Conveyor	3,709
18 Conveyor to Loadout Bin	4,341
19 Crusher MCC Building	364
20 Truck Loadout	7,270
21 Refuse Conveyor	826
22 Crusher/Screen Plant	3,913
23 Reclaim Escape Tunnel	12,851
24 Reclaim Feeder Gate	137
26 Extended ROM Conveyor	3,258
27 Refuse/Non-Coal Waste Pile	0
28 Electrical Grounding Field	1,986
29 Sedimentation Pond Spillways	1,430
30 Existing ROM Conveyor	6,432
31 Portal Closure	63,312
32 Concrete Conveyor Bay	371
33 ROM Coal Staking Tube	8,858
34 Mine MCC Building and Electrical Tower	1,595
35 Backup Ventilation Fans	37,668
36 Main Ventilation Fan	37,599
37 Non-Potable Water Tanks	7,670
38 Powder and Cap Magazines	4,924
39 Chain Link Fence	6,676
40 Concrete Electrical Junction Box	73
41 Loadout MCC Building	289
42 Mine Parking	35,311
43 Abandoned Concrete Reclaim Room	5,364
44 Jersey Barrier	10,640
45 Concrete Trash Chute	1,280
46 Emergency Reclaim Feeder Gate	69
47 Gantry Lift Assembly	5,727
Mine Substation	8,476

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Lila Canyon Mine
C0070013

Reclamation Bond Estimate

Paved Mine Roads	63,224
Culvert Demolition	46,055
Lila Old Fan Portals	24,586
Visual Disconnect	6,279
Drop Box	145
TOTAL	830,345

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C0070013

Reclamation Bond Estimate

Ref.	Description	Materials
	01 Office/Bathhouse	
	Structure's Demolition Cost	Pre-engineered steel bldg demo,>12,500 SF
	Structure's Vol. Demolition	
	Bathhouse New Addition Demo	Building Demolition - Mixture of Types
	Truck's Capacity	
	Haulage	
	Loading Cost Bathhouse New	Front End Loader 3CY
	Transportation Cost Bathhouse New	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Cost Bathhouse New	On Site Disposal
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Load Conex Units	Hydraulic crane, 12 ton, with operator
	Haul Connex Units to SLC, UT	Haul Conex units offsite
	Disposal Costs	
	Subtotal	
	Concrete Demolition	Concrete Wall/Floor Demo, 12" thick, reinforced
	Concrete Footings - Conex Units	Concrete Wall/Floor Demo, 12" thick, reinforced
	Concrete Vol. Demolished	
	Loading Costs	Front End Loader 3CY
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Costs	On Site Disposal
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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C0070013

Reclamation Bond Estimate

Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume
13 05 05.50 0650	1.68	SF Flr	150	100	15		15000	
								225000
02 41 16.13 0100	0.40	CF			10		432	4320
31 23 16.42 1300	2.21	CY						
31 23 23.20 1014	3.74	CY						
02 41 16.17 4200	11.40	CY						
Scamp	6.00	Ton						
Crew A-3H	1518.58	Day						
01 52 13.20 0800	12.10	Mile						
02 41 16.17 2500	1.57	SF	157	102	1			
02 41 16.17 2500	1.57	SF	200	2	1			
31 23 16.42 1300	2.21	CY						
31 23 23.20 1014	3.74	CY						
02 41 16.17 4200	11.40	CY						

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Lila Canyon Mine
C0070013

Reclamation Bond Estimate

Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
						15000	SF Flr	25200
					0.3	2500	CY	
					0.3	1296	CF	518
						48		106
						48		180
						48	CY	547
	480			lb/cy		600	Tons	3600
								0
								30151
		1		Day				1519
			140	Miles		6	EA	10164
								11683
			16014	SF		593.1	CY	25142
			400	SF	1.3	14.8		628
						790	CY	1746
						790	CY	2955
						790	CY	9006
								39477
								81311

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Ref.	Description	Materials
	15 Fuel & Oil Tanks	
	Structure's Demolition Cost	5000 to 12000 gal. abovegrnd steel tank rem
	Structure's Demolition Cost	
	Structure's Vol. Demolition	
	Rubble's Weight (exclude steel)	
	Truck's Capacity	
	Haulage	
	Transportation Cost Non Steel Truck	
	Transportation Cost Non Steel Drive	
	Disposal Cost Non Steel	
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Transportation Cost Steel Truck	
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment Disposal Cost	
	Tank Removal	3000 to 5000 gal. undrgrnd steel tank remova
	Remove Sludge	3000 to 5000 gal. tank, sludge removal
	Tank Disposal	3000 to 5000 gal. tank, disposal, 100 mi RT
	Sludge Disposal	Dispose of sludge off site
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume
1305 05.75 0530	1625.00	EA.						
Scamp	6.00	Ton						
02 65 10.30 0110	860.00	EA						
02 65 10.30 0300	285.00	EA						
02 65 10.30 1023	830.00	EA.						
02 65 10.30 0390	6.80	Gal						

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Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
						1	EA	1625
2				Ton		2.00	Ton	12
								1637
			3	EA		3	EA	2580
			3	EA		3	EA	855
			3	EA		3	EA	2490
			50	Gal		50	Gal	340
								6265
								7902

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Note: Long-Term Underground Pipes are not shown.
Note: Culvert locations are shown on Plate 7-5.

A description of current temporary and long-term structures and facilities:

BUILDINGS

1) Temporary Bath House

The temporary bath house is shown on Plate 5-2. This complex is made up of interconnected portable structures (trailers and metal intermodal structures) and a concrete and wood-framed shower area. Shower and toilet facilities for all male employees are at this location. Female employees utilize a separate, nearby temporary trailer for showers and toilet facilities (see #2 below). The bath house provides a location for underground miners to change from clean street clothes to clothing suitable for underground use. The area provides showers for employees for use after their scheduled work shifts so they can clean up prior to returning home. The trailers and metal intermodal structures rest upon stacked concrete blocks for stability and leveling purposes. Once the long-term bath house (per Plate 8-1) is constructed, the temporary bath house and all supporting structures will be removed.

2) Temporary Office Trailer

The temporary office trailers are prefabricated, self-contained, modular trailers, similar to those often seen on construction sites. The trailers can be moved using a vehicle with a tow hitch. Each trailer typically contains two (2) or three (3) offices and one (1) restroom. Each trailer is equipped with a waste water storage tank for the rest room. The waste water storage tank is emptied on a regular basis. One (1) temporary office trailer has been modified to provide shower and toilet facilities for female employees similarly to the temporary bath house (see #1 above). The office trailers are used by mine personnel in support positions to mine operations. Multiple trailers are currently used. The locations of these trailers are shown on Plate 5-2. Once long-term office areas are constructed, the temporary office trailers and all supporting structures will be removed.

3) Temporary Office / Shop Building

The Temporary Office / Shop Building is shown on Plate 5-2. The building is a prefabricated metal building on a concrete foundation system, with a 4" thick concrete floor slab. The building is split down the middle width-wise with one side being the shop area, and the other office space for mine personnel in support positions to mine operations. The shop area is used to

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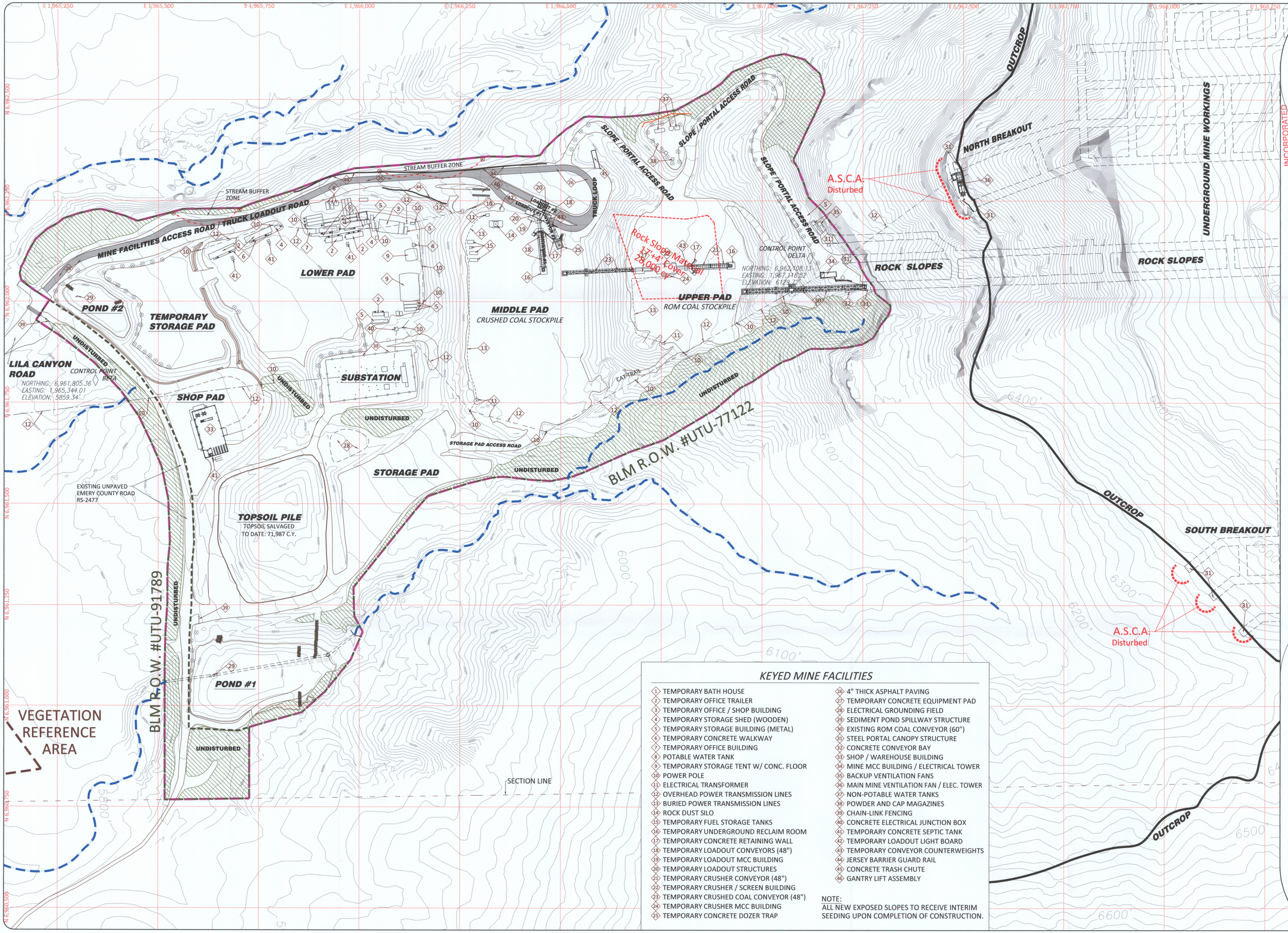

KEYED MINE FACILITIES

1. TEMPORARY BATH HOUSE
2. TEMPORARY OFFICE TRAILER
3. TEMPORARY OFFICE / SHOP BUILDING
4. TEMPORARY STORAGE SHED (WOODEN)
5. TEMPORARY STORAGE BUILDING (METAL)
6. TEMPORARY CONCRETE WALKWAY
7. TEMPORARY OFFICE BUILDING
8. POTABLE WATER TANK
9. TEMPORARY STORAGE TENT W/ CONC. FLOOR
10. POWER POLE
11. ELECTRICAL TRANSFORMER
12. OVERHEAD POWER TRANSMISSION LINES
13. BURIED POWER TRANSMISSION LINES
14. ROCK DUST SILO
15. TEMPORARY FUEL STORAGE TANKS
16. TEMPORARY UNDERGROUND RECLAIM ROOM
17. TEMPORARY CONCRETE RETAINING WALL
18. TEMPORARY LOADOUT CONVEYORS (48")
19. TEMPORARY LOADOUT MCC BUILDING
20. TEMPORARY LOADOUT STRUCTURES
21. TEMPORARY CRUSHER CONVEYOR (48")
22. TEMPORARY CRUSHER / SCREEN BUILDING
23. TEMPORARY CRUSHED COAL CONVEYOR (48")
24. TEMPORARY CRUSHER MCC BUILDING
25. TEMPORARY CONCRETE DOZER TRAP
26. 4" THICK ASPHALT PAVING
27. TEMPORARY CONCRETE EQUIPMENT PAD
28. ELECTRICAL GROUNDING FIELD
29. SEDIMENT POND SPILLWAY STRUCTURE
30. EXISTING ROM COAL CONVEYOR (60")
31. STEEL PORTAL CANOPY STRUCTURE
32. CONCRETE CONVEYOR BAY
33. SHOP / WAREHOUSE BUILDING
34. MINE MCC BUILDING / ELECTRICAL TOWER
35. BACKUP VENTILATION FANS
36. MAIN MINE VENTILATION FAN / ELEC. TOWER
37. NON-POTABLE WATER TANKS
38. POWDER AND CAP MAGAZINES
39. CHAIN-LINK FENCING
40. CONCRETE ELECTRICAL JUNCTION BOX
41. TEMPORARY CONCRETE SEPTIC TANK
42. TEMPORARY LOADOUT LIGHT BOARD
43. TEMPORARY CONVEYOR COUNTERWEIGHTS
44. JERSEY BARRIER GUARD RAIL
45. CONCRETE TRASH CHUTE
46. GANTRY LIFT ASSEMBLY

NOTE:
ALL NEW EXPOSED SLOPES TO RECEIVE INTERIM SEEDING UPON COMPLETION OF CONSTRUCTION.

LEGEND:
- UNDISTURBED WITHIN THE DISTURBED AREA
- DISTURBED AREA BOUNDARY
- NATURAL DRAINAGE
- 6' HIGH CHAIN LINK FENCE
- INCIDENTAL ROCK DISTRIBUTION
- STREAM BUFFER ZONE SIGNS
- BLM R.O.W. BOUNDARY LINE
- TEMPORARY RONDWAYS
- STRUCTURAL FILL
- LEASE BOUNDARY LINES
- EXISTING INDEX CONTOURS (5' INTERVALS)
- NEW INDEX CONTOURS (5' INTERVALS)
- NEW INTERMEDIATE CONTOURS (1' INTERVALS)
- REMOVED INDEX CONTOURS (5' INTERVALS)

NOTES: 1. REFER TO PLATE 5-7A&B FOR CROSS-SECTIONS.

Sec. 15, T 16 S, R14 E

NOTE:
CONTROL POINT COORDINATE SYSTEM IS U.S. STATE PLANE 1983 - UTAH CENTRAL (4302) ADJUSTED TO SEA LEVEL.

REVISION DATE:

DATE	BY	DATE	BY	DATE	BY
JAN 2008	RJM	JUNE 2011	PJJ	JUNE 2017	PJJ
APR. 2009	PJJ	JAN. 2012	PJJ	APRIL 2018	PJJ
DEC. 2009	PJJ	MAR. 2014	PJJ	JANUARY 2019	PJJ
AUGUST 2010	PJJ	JULY 2014	PJJ	FEBRUARY 2019	PJJ
SEPT. 2010	PJJ	DEC. 2015	PJJ	MAY 2019	PJJ
APRIL 2011	PJJ	JUNE 2016	PJJ		
MAY 2011	PJJ	NOV. 2016	PJJ		

LILA CANYON MINE

AS-BUILT SURFACE FACILITIES

DATE: APRIL 2016 | DESIGNED BY: R. Jay Marshall | PLATE #: 5-2
SCALE: AS SHOWN

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REGISTERED PROFESSIONAL ENGINEER No. 7150 A. THOMAS PALUSO STATE OF UTAH