C/041/002 Incoming

#4492

Canyon Fuel Company, LLC
A Subsidiary of Arch Western Bituminous Group, LLC

Sufco Mine
Kenneth E. May
General Manager
597 South SR24
Salina, Utah 84654
(435) 286-4400
Fax (435) 286-4499

December 30, 2013

Permit Supervisor, Utah Coal Regulatory Program
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, UT 84114-5801

Re: Amendment to Permit to Construct a Warehouse Annex Building, Add a Fan and Extend the Existing Fan Pad, Sufco Mine, C/041/002

Dear Sirs:

Please find enclosed with this letter two copies of an amendment to address the construction of a warehouse building to be used for the storage of parts and supplies. The building will be constructed within the existing disturbed area boundary. The location of the proposed building is on disturbed sub-soils and drainage controls are in-place for the area. Refer to Plates 5-2A and 5-2B for the location of the proposed building.

A second fan is proposed for the Mine 1 Fan Area. With the addition of a second fan, the existing pad will be extended. The area is pre-disturbed and the drainage controls are in-place for the area. The bond has been revised to include the second fan and pad removal during reclamation.

Bond – Provisions have been made to cover the reclamation of the Annex Building. The Annex was originally bonded to be attached to the existing warehouse however it is now proposed as a separate building. The bonding for the Warehouse/Shop Building has been adjusted in this submittal back to the bond amount prior to a March 13, 2012 increase submitted when the expansion was planned as an extension of the existing building. A separate page has been added to cover the bonding of the Annex Building.

If you have questions or need addition information please contact Vicky Miller at (435)286-4481.

CANYON FUEL COMPANY, SUFCO Mine

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Kenneth E. May
General Manager

Encl.

cc: DOGM Correspondence File

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Canyon Fuel Company, LLC
Mine: Sufco Mine **Permit Number:** C/041/0002
Title: Revisions to Permit to Construct a Warehouse Annex Building and Add a Fan and Extend the Existing Pad
Description, Include reason for application and timing required to implement:

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☒ Yes ☐ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes ☒ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☒ Yes ☐ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☒ Yes ☐ No 19. Does the application require or include certified designs, maps or calculation?
☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
☒ Yes ☐ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Print Name _____ Sign Name, Position, Date Kenneth E Wey 12/30/13

Subscribed and sworn to before me this 30 day of December, 20 13

Notary Public

My commission Expires: _____, 20___}
Attest: State of Utah } ss:
County of Sanpete

JACQUELYN NEBEKER
Notary Public
State Of Utah
My Commission Expires 3/24/2015
Commission# 606049

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining
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Form DOGM- C1 (Revised March 12, 2002)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Canyon Fuel Company, LLC
Mine: Sufco Mine **Permit Number:** C/041/002
Title: Revision to Permit to Construct a Warehouse Annex Building and Add a Fan and extend the Existing Pad

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐ Add	☐ Replace	☐ Remove	M&RP
☐ Add	☒ Replace	☐ Remove	Chapter 5, Pages 5-44 thru 5-46, 5-54 and 5-68
☐ Add	☒ Replace	☐ Remove	Appendix 5-9, Bond Revisions - Total Page, Demolition Cost Summary, Shop & Warehouse, Mine Pad 1
☒ Add	☐ Replace	☐ Remove	Appendix 5-9, Bond - Annex Building
☐ Add	☒ Replace	☐ Remove	Plate 5-2A & 5-2B
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

December 30, 2013

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Form DOGM - C2 (Revised March 12, 2002)

CHAPTER 5

ENGINEERING

TABLE 5-4

Description of Existing Structures

Structure	Construction Date	Construction Materials
Ambulance Garage	Summer 2007	Pre-Engineered Steel
Belt Deicer Tank	Fall 1994	Steel
Bulk & Used Oil Storage	Fall 1977 / Fall 2004	Steel & Concrete
Cap Magazine	Summer 1982	Steel & Wood
Chlorinator Building	Summer 1979	Steel
Covered Storage	Summer 1979	Concrete Block
Diesel Tank	Fall 1996	Steel & Concrete
Drainage Culverts	Summer 1976	Steel
Electrical Building	Summer 1977	Concrete Block
Fan	Winter 1980	Structural Steel
Fans - Mine #1 West Lease	Fall 2012 & Spring 2014	Structural Steel
Fire Water Tank - 300,000	Spring 2002	Steel & Concrete
Fuel Dock	Summer 1976	Concrete
Guard House	Summer 1977	Wood
Load-Out Belt	Summer 1975	Structural Steel
Lower Stacker Coal Storage	Summer 1975	Structural Steel
Lump Coal Belt	Fall 2010	Structural Steel
Lump Coal Storage	Fall 1981, Fall 1982	Concrete
No. 1 Belt	Fall 1977	Structural Steel
Office Building	September 1973 / 1990 / 2006	Pre-Engineered Steel
Powder Magazine	Summer 1982	Steel and Wood
Pulley Racks	Summer 1991	Steel
Pump Houses	Summer 1967 and 1975	Wood Frame & Metal
Rock Dust Bin	Fall 1976, Summer 1982	Structural Steel

TABLE 5-4 (Continued)

Description of Existing Structures

Structure	Construction Date	Construction Materials
ROM Coal Storage	Winter 1988	Struct. Steel/Concrete
ROM MCC Building	Winter 1988	Concrete Block
Sampler Building	Fall 2003	Structural Steel
Sand & Salt Storage	Fall 2010	Concrete
Seal Portals	At Reclamation	Concrete
Sediment Trap	Summer 1979	Concrete
Septic Tanks	Summer 1976 / Summer 2006	Steel / Concrete
Shelves	Summer 1990	Steel
Shop Garage	Summer 1989	Pre-Engineered Steel
Shop Office	Summer 1977	Wood
Side Release Tank	Fall 1997	Steel
Steam Cleaner Building	Fall 1981	Concrete
Stoker Belt	Fall 1977	Structural Steel
Stoker Bin	Fall 1977	Structural Steel
Stoker Coal Storage	Fall 1982	Concrete
Stoker Oil Tanks	Fall 1977 / Fall 2004	Steel & Concrete
Storage Trailers	1975	Wood & Aluminum
Substation - Lower	Fall 1991 / Fall 2006 -2007	Steel /Concrete/ Binwall
Ticket Printers	Summer 1996	Steel
Tipple Building	Fall 1977 / Mod. Fall 2008	Struct. Steel & Concrete
Tipple MCC Building	Summer 2005	Concrete Block
Tipple Office Building	Fall 1977	Concrete Block

TABLE 5-4 (Continued)

Description of Existing Structures

Structure	Construction Date	Construction Materials
Transfer Building	Fall 1977	Structural Steel
Truck Loader Bin	Fall 2002	Structural Steel
Truck Scale	1975 / 1982 / 1996	Structural Steel
Warehouse and Shop	Summer 1976	Pre-Engineered Steel
Warehouse Annex	Spring 2014	Pre-Engineered Steel
Water Tanks - Lower	Summer 1975/Summer 2002	Steel & Plastic
Water Tank - Upper	Summer 1975	Steel
Link Canyon Facilities		
Link Canyon Portals	Spring 2003	Steel
Link Canyon Substation	Summer 2000	Steel Skid
Four East Facilities		
Fan Generator Building	Fall 2003	Pre-Engineered Steel
4 East Fan	Spring 1996	Structural Steel

is only temporarily stored at the mine prior to off-site disposal, there is no significant potential for this debris to spontaneously combust. Fire extinguishers are kept on mobile equipment in the mine yard to extinguish any fires should combustion of the waste materials occur. Waste materials that constitute a fire hazard (e.g.,grease, lubricants, paints, and flammable liquids) will be stored in such a manner as to minimize any fire hazard. Empty containers of such products will only be stored temporarily at the mine-site prior to proper off site disposal.

5.2.8.4 Dams, Embankments, and Impoundments

No dams, embankments, or impoundments are used for the handling or disposal of coal, overburden, excess spoil, or coal mine waste in the permit area.

5.2.9 Management of Mine Openings

Thirteen underground mine openings exist within the permit area. Locations of these portals are shown on Plates 5-2A,C,&F. Six of these openings are located at the mine surface facilities in East Spring Canyon and serve as primary pathways for ingress and egress of personnel and machinery, removal of coal from the mine, and mine ventilation. The ~~remaining seven openings~~ are located as follows:

East Spring Canyon portals - 4 portals and 2 intakes
3 East portals - 2 intakes
Quitchupah portals - 2 intakes
4 East portals - 1 intake and 1 portal
Link Canyon Portal - 1 intake

These remaining (non-East Spring Canyon) openings are used for mine ventilation and emergency egress. Each of these supplementary intakes is protected from unauthorized entry by the installation of steel sets and a locked chain-link gate. The keys for the gates are kept approximately 25 feet from the gates inside the mine. This permits emergency exit from the mine but prevents entrance from the outside.

described in Section 3.40 of the permit. Since the reclaimed acreage will be the same as the pad disturbed area, erosion controls for final reclamation will be placed in essentially the same location as shown on Plates 5-2D, 5-2E, and 5-2F. The reclaimed pads, access roads, and affected slopes will be fenced with a three-strand barbwire fence to prevent damage from cattle grazing during reclamation. The reclamation soil surface and vegetation will be monitored and maintained in accordance with this M&RP.

The regrading plan for the East Spring Canyon facility is summarized below. Engineering calculations and design details associated with this regrading plan are presented in Appendix 2-4. The East Spring Canyon regrading plan was designed to meet the objectives of balancing cut and fill quantities, maintaining a geotechnically stable surface configuration, and controlling erosion. Major features of the East Spring Canyon regrading plan are:

- Reduction of the slope at the southern end of the mine-yard fill,
- Removal of the sedimentation pond dams and implementation of interim sediment-control measures,
- Backfilling to remove highwalls and cut slopes to the extent possible within the objectives noted above (cut and fill balance, site stability, and erosion control),
- Construction of an armored embankment at the inlet of the main reclamation channel, and
- Construction of reclamation diversion channels.

The estimated cut quantity for East Spring Canyon is approximately 74,734 cubic yards with an estimated fill of 71,173 cubic yards (see Appendix 2-4). The difference between these two quantities is anticipated to be balanced by compaction. Regrading activities will continue until the final surface configuration defined by Plates 5-3A&B and 5-4 has been achieved. Details regarding topsoil placement and revegetation following regrading are provided in Chapters 2 and 3, respectively.

The Warehouse Annex building will be constructed in an area which has existing drainage controls and the soil have been pre-disturbed (Plate 5-2A & 5-2B). The area will be leveled to allow access to the building by small equipment and delivery trucks.

APPENDIX 5-9

Reclamation Bond Estimate

Bonding Calculations

Direct Costs		
Subtotal Demolition and Removal	$1,232,440.50	
Subtotal Backfilling and Grading	$548,005.00	
Subtotal Revegetation	$171,967.00	
Direct Costs	$1,952,412.50	
Indirect Costs		
Mob/Demob	$195,241.00	10.0%
Contingency	$97,621.00	5.0%
Engineering Redesign	$48,810.00	2.5%
Main Office Expense	$132,764.00	6.8%
Project Mainagement Fee	$48,810.00	2.5%
Subtotal Indirect Costs	$523,246.00	26.8%
Total Cost	$2,475,658.50	
Escalation factor		0.012
Number of years		5
Escalation	$152,147.00	
Reclamation Cost Escalated	$2,627,805.50	
Bond Amount (rounded to nearest $1,000) 2016 Dollars	$2,628,000.00	
Posted Bond	$2,874,000.00	
Difference Between Cost Estimate and Bond	$246,000.00	
Percent Difference	8.56%	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Ambulance Garage																			$2,504.00
	Belt Deicer Tank																			$13.00
	Blast Channels A																			$143,211.00
	Blast Channels B																			$53,488.00
	Bulk and Used Oil Storage																			$1,518.00
	Cap Magazine																			$22.00
	Chlorinator Bld																			$18.00
	Covered Storage*																			$0.00
	Diesel Tank																			$995.00
	Drainage Culvets																			$25,423.00
	Electrical Bld																			$602.00
	Fan																			$8,435.50
	Fire Water Tank 300000 Gal																			$11,126.00
	Fuel Dock																			$928.00
	Guard House																			$349.00
	Loadout Belt																			$2,593.00
	Lower Stacker Coal Storage																			$2,149.00
	Lump Coal Belt																			$533.00
	Lump Coal Storage																			$2,139.00
	No 1 Belt																			$3,404.00
	Office Building																			$67,377.00
	Pavement Removal																			$35,857.50
	Powder Magazine																			$22.00
	Pulley Racks *																			$0.00
	Pump Houses																			$972.00
	Riprap Filter Fabric																			$259,568.00
	Rock Dust Bin																			$3,557.00
	ROM Coal Storage																			$21,139.00
	ROM MCC Bld																			$1,022.00
	Sampler Building																			$991.00
	Sand and Salt Storage																			$2,905.00
	Seal Portals																			$62,400.00
	Sediment Trap																			$1,533.00
	Septic Tanks																			$0.00
	Shelves *																			$0.00
	Shop and Warehouse																			$121,933.00
	Shop Garage																			$11,941.00
	Shop Office																			$2,322.00
	Side Release Tank																			$161.00
	Steam Cleaner Building																			$7,747.00
	Stoker Belt																			$1,104.00
	Stoker Bin																			$5,755.00
	Stoker Coal Storage																			$3,127.00
	Stoker Oil Tanks																			$1,539.00
	Storage Trailers																			$1,256.00
	Substation Lower*																			$79,848.00
	Substation Upper*																			$0.00
	Ticket Printers																			$69.00
	Tipple Building																			$36,194.00
	Tipple MCC Buidling																			$2,759.00
	Tipple Office Building																			$3,161.00
	Transfer Building																			$10,303.00
	Trash Pit																			$542.00
	Truck Loader Bin																			$1,895.00
	Truck Scale																			$36,352.00
	Water Tank Upper																			$0.00
	Water Tank Lower																			$0.00
	West Lease Tunnels & Belt																			$83,424.00
	Yard Hoist																			$945.50
	Northwater Mitigation																			$4,117.00
	Link Canyon Facilities																			
	Link Canyon Portals																			$8,042.00
	Link Canyon Substation																			$39,150.00
	Fourth East Facilities																			
	Fan Generator Building																			$2,591.00
	Four East Fan																			$18,066.00
	Mine 1 Pad																			$10,807.00
	Annex Building																			$19,496.00
	Total																			$ 1,232,440.50

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Shop and Warehouse																			
	Structure's Demolition Cost	Steel Bld, Large	02220 110 0012	0.31	/CF						269360					CF		269360	CF	83502
	Structure's Vol. Demolished																0.1	998	CY	
	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										16					CY		62	Trips	
	Haulage													3		Trip/Day				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	718.44	/day													20.7	DAY	14872
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	$55.55	HR													165.6	HR	9199
	Disposal Cost Steel																			
	Subtotal																			107573
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	11.38	/CY						505							505	CY	5747
	Concrete's Vol. Demolished																1.3	657	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.06	/CY													657	CY	696
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	2.9	/CY													657	CY	1905
	Disposal Costs	On site disposal	02220 240 5550	9.15	/CY													657	CY	6012
	Subtotal																			14360
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			121933

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine 1 Pad																			
	Structure's Demolition Cost	Steel removal	02220 110 0012	0.31	/CF						160					CF		160	CF	50
	Structure's Vol. Demolished																			
	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										16					CY		10	Trips	
	Haulage													3		Trip/Day				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	718.44	/day													3.3	DAY	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	50.55	HR													26.4	HR	
	Disposal Cost Steel																			
	Subtotal																			50
	Structure's Removal Cost	Fan Removal	SUFCO2	7000	/EA										2	EA		2	EA	14000
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	11.38	/CY						131.5					CY		132	CY	1502
	Concrete's Vol. Demolished																1.3	172	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.06	/CY													172	CY	182
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	2.9	/CY													172	CY	499
	Disposal Costs	On site disposal	02220 240 5550	9.15	/CY													172	CY	1574
	Subtotal																			3757
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			10807

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Annex Building																			
	Structure's Demolition Cost	Steel removal	02220 110 0012	0.31	/CF						11263					CF		11263	CF	3492
	Structure's Vol. Demolished																0.2	83	CY	
	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										16					CY		5	Trips	
	Haulage														3	Trip/Day				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	718.44	/day													1.7	DAY	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	50.55	HR													13.6	HR	
	Disposal Cost Steel																			
	Subtotal																			3492
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	11.38	/CY						563					CY		563	CY	6407
	Concrete's Vol. Demolished																1.3	732	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.06	/CY													732	CY	776
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	2.9	/CY													732	CY	2123
	Disposal Costs	On site disposal	02220 240 5550	9.15	/CY													732	CY	6698
	Subtotal																			16004
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			19496

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EXPLANATION

- FW — FIRE WATER
- W — WATER LINE
- S — SEWER LINE
- P — POWER LINE
- T — TELEPHONE LINE
- D — DRAINAGE CULVERT
- DRAINAGE DITCH
- PERMIT AREA BOUNDARY
- DISTURBED AREA BOUNDARY
- SLOPE MEASUREMENT
- FIRE HYDRANT
- DISTURBED AREA BOUNDARY MARKER
- POWER POLE
- LIGHT POLE

NOTES:

1. SEE PLATE 5-2B FOR ADJACENT AREAS OUTSIDE THE BOUNDARY OF THIS MAP.
2. SEE PLATE 7-6 FOR DIVERSIONS.

REGISTERED PROFESSIONAL ENGINEER #334504-2202 JOHN D. BYARS STATE OF UTAH

I CERTIFY THE ITEMS SHOWN ON THIS DRAWING ARE ACCURATE TO THE BEST OF MY KNOWLEDGE

50 0 50

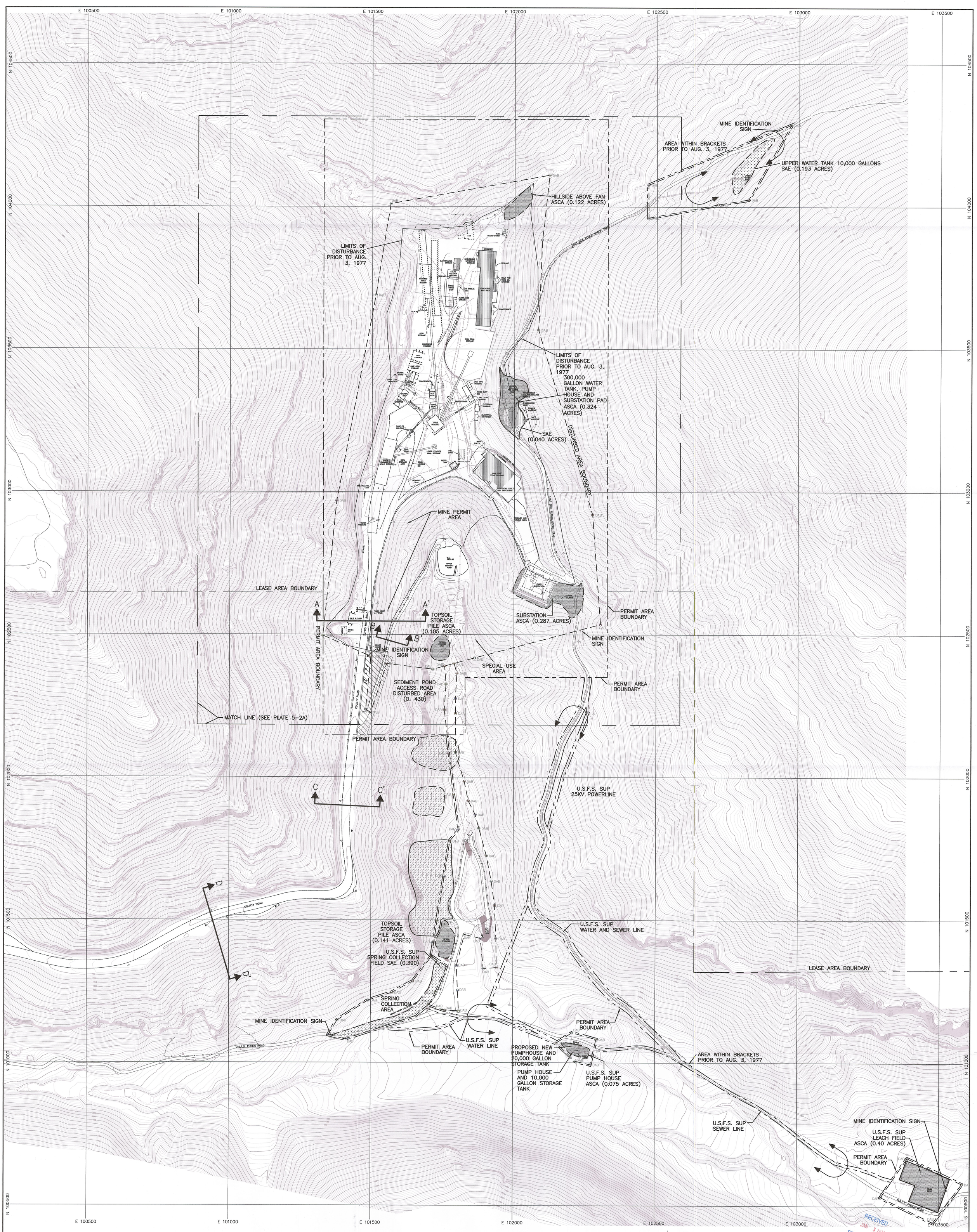
REVISIONS

NO.	DATE	REQ. BY	DWG. BY	REMARKS
15	JULY 24, 2009	MLD	KBB	
16	JUNE 3, 2010	FLR	KBB	ADDED MINE 2 PORTALS AND DRAINAGE
17	AUG. 6, 2010	FLR	KBB	ADDED SAND & SALT BIN, LUMP BIN & CONV.
18	JULY 22, 2011	MLD	KBB	ADDED YARD HOIST, SALT & SAND BIN
19	AUG. 07, 2013	MLD	TRB	ADDED WEST LEASE PORTAL & BELTLINE
20	DEC. 11, 2013	VLM	TRB	ADDED ANNEX BUILDING

Canyon Fuel Company, LLC
SUFCO Mine
597 South SR 24 — Salina, UT 84654
(435) 286-4880 Phone
(435) 286-4499 Fax

DETAIL OF EAST SPRING CANYON SURFACE FACILITIES

SCALE:	DATE:	DRAWN BY:	ENGINEER:	SHEET NO.
1" = 50'	12/17/91	SWF\TRB	RBW	PLATE 5-2Av20
CHECKED BY: VSB	FILE NAME: H:\DRAWINGS\MRP\PLATES\PLATE 5-2Av20.dwg			



RECEIVED JAN 3 2014 DIV. OF OIL, GAS & MINING

EXPLANATION

- FW — FIRE WATER
- W — WATER LINE
- S — SEWER LINE
- P — UNDERGROUND POWER LINE
- T — TELEPHONE LINE
- D — DRAINAGE CULVERT
- PERMIT AREA BOUNDARY
- DISTURBED AREA BOUNDARY
- FIRE HYDRANT
- DISTURBED AREA BOUNDARY MARKER
- POWER POLE
- LIGHT POLE
- ROAD CROSS SECTION (SEE PLATE 5-9)
- PRE-SMCRA COAL DUMPS RECLAIMED 1981
- PRIOR TO AUG. 3, 1977
- SMALL AREA EXEMPTION AREA (SAE)
- ALTERNATE SEDIMENT CONTROL AREA (ASCA)

NOTES:

1. SEE VOLUME 3 REGARDING ASCA AT WASTE ROCK DISPOSAL SITE.
2. SEE PLATE 5-2C FOR LOCATION OF QUITCHUPAH CANYON PORTAL SITES (ALSO LISTED AS ASCAs)
3. "PERMIT AREA" INCLUDES ALL FEDERAL COAL LEASES, FEE LANDS AND U.S.F.S. SPECIAL USE PERMIT (SUP) AREAS SHOWN ON THIS MAP.
4. "DISTURBED AREAS" INCLUDE THE SUFCO MINE OPERATION AREA SHOWN ABOVE INSIDE THE DAB BOUNDARY, THE SEDIMENT POND ACCESS DISTURBED AREA, U.S.F.S. SUP ASCA'S, REMOTE PORTAL AREAS, WATER TANK AREA AND THE WASTE ROCK SITE.

REGISTERED PROFESSIONAL ENGINEER #334504-2202 JOHN D. BYARS STATE OF UTAH

I CERTIFY THE ITEMS SHOWN ON THIS DRAWING ARE ACCURATE TO THE BEST OF MY KNOWLEDGE

100 0 100

REVISIONS				
NO.	DATE	REQ. BY	DWG. BY	REMARKS
16	08/14/08	MLD	KBB	
17	06/09/09	MLD	KBB	
18	06/04/10	FLR	KBB	
19	08/06/10	FLR	KBB	
20	08/07/13	MLD	TRB	
21	12/11/13	VLM	TRB	ADDED ANNEX BUILDING

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EXTENDED EAST SPRING CANYON

SCALE:	DATE:	DRAWN BY:	ENGINEER:	SHEET NO.
1" = 100'	11/01/91	SWF/TRB	RBW	PLATE 5-2Bv21
CHECKED BY: VSB	FILE NAME: H:\DRAWINGS\MRP\PLATES\PLATE 5-2Bv21.dwg			