

a



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

Outgoing  
C0410002  
#4200  
K

October 18, 2012

Allen Rowley, Acting Forest Supervisor  
U.S. Forest Service  
599 West Price River Drive  
Price, Utah 84501

Subject: South Fork of Quitchupah 2R2S Plan, Canyon Fuel Company, LLC, Sufco Mine, C/041/0002, Task ID #4200

Dear Mr. Rowley:

On October 17, 2012, the Division received the latest version of the mitigation proposal for the South Fork of Quitchupah Creek where a segment of the creek is planned for undermining. On June 8, 2011, Canyon Fuel Company (CFC) received approval from the Bureau of Land Management (BLM) to extract the 2R2 South A LW Block of coal located on Federal lease UTU-63214 using longwall mining techniques (see attached). The mitigation plan addresses water monitoring protocol and other mitigation measures that the Sufco Mine is proposing to undertake as a result of any damage due to subsidence-related affects.

The Division has conducted two field visits during the summer of 2012 to assess critical resources in the subject area including: springs, seeps, stock ponds, perennial water resources, the archeological rock shelter site, and riparian communities. The first trip was conducted on June 5, 2012 which was attended by representatives from the BLM, Division of Water Rights (DWRi), and the Manti La Sal National Forest, Division personnel, SUFCO representatives along with their hydrology and vegetation consultants. The second trip took place on August 28, 2012 which was attended by representatives from the Division and the company. The purpose of the second trip was to hike into the steeper sections of the canyon along the perennial stream to look for any additional springs that may contribute to base flow. Two additional springs were discovered in the canyon. As such, SUFCO has revised their Probable Hydrologic Consequences (PHC) section of the amendment to address these newly discovered springs and include them in the monitoring plan.

The DWRi issued a letter to the Division on December 8, 2011 (see attached) stating that all water rights in the Quitchupah Creek Appropriation upstream from major irrigation water



Page 2  
Allen Rowley  
October 18, 2012

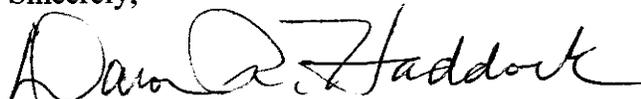
users are considered *Fully Appropriated* and that all surface and underground sources within the drainage are considered *State Appropriated* and would need to satisfy existed downstream rights.

We are enclosing a revised copy of the amendment. The original version of the amendment was reviewed by the Division and returned deficient on December 21, 2011 (see attached deficiency letter). You may also access a copy of the proposed amendment found on the Division ftp site at: <https://fs.ogm.utah.gov/GROUPS/USFS/Quitcupah/>. The files can be accessed using this link. A username and password is required to access these files.

In your letter dated December 6, 2011, you had provided comments on the first draft of the amendment. Your comments addressed the following items: 1) impacts to an archeological site; 2) consultation with the Fish and Wildlife Service to determine if any impacts to the perennial flow of Quitcupah Creek could impact aquatic resources; 3) develop a detailed inventory and monitoring plan for springs, seeps, riparian habitats, and the perennial stream; 4) the USFS requested the company develop a more detailed mitigation plan that provides a well-defined contingency plan in the event that critical water resources are lost.

Please review the amendment in order to determine if your comments or concerns have been adequately addressed. Please submit your response to us by no later than November 9, 2012. If you have any further questions regarding this amendment, please contact me at (801) 538-5325 or April Abate at (801) 538-5214.

Sincerely,



Daron R. Haddock  
Coal Program Manager

DRH/AAA/sqs  
Enclosures

BLM Letter - June 8, 2011  
USDA Forest Service Letter - December 6, 2011  
Utah DWRi Letter - December 8, 2011  
Utah DOGM Letter - December 21, 2011

cc: Ken May, Sufco  
Marc Stilson, Water Rights  
Floyd Johnson, BLM  
Darren Olsen, USFS  
Tom Lloyd, USFS  
Price Field Office

O:\041002.SUF\WG4200\WG4200 Quitcupah USFS comment letter.docx



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

Clayton  
C0410002  
#3950  
α

December 21, 2011

Ken May, General Manager  
Canyon Fuel Company, LLC  
597 South SR24  
Salina, Utah 84654

Subject: South Fork Quitchupah 2R2S, Canyon Fuel Company, LLC, Sufco Mine,  
C/041/0002, Task #3950

Dear Mr. May:

The Division has reviewed your application to longwall mine under the Panel A block of the 2R2S Panel approved for leasing by the Bureau of Land Management on June 8, 2011.

The Division has determined that there are deficiencies that must be addressed before a determination can be made that the requirements of the R645 Coal Mining Rules have been met, and an approval can be granted. Those deficiencies and the full technical memorandums prepared by the Division staff are listed as an attachment to this letter.

Each deficiency identifies its author by that author's initials in parentheses, such that your staff can directly communicate with that individual should any questions arise relative to the preparation of Canyon Fuel Company's response to that particular deficiency.

The plans as submitted are denied. Please resubmit the entire application.

Sincerely,

Daron R. Haddock  
Coal Program Manager

DRH/AAA/sqs  
Attachment  
cc: Price Field Office  
O:\041002.SUF\WG3950\3950 DEFICIENCIES.DOC



## **Deficiency List**

**Task No. 3950**

**Task Name: South Fork Quitchupah 2R2S**

The members of the review team include the following individuals:

April Abate (AA)  
Ingrid Campbell (IC)  
James Owen (JO)

**[R645-301-525]:** A similar protocol to that of the East Fork of Box canyon should also be adopted at the South Fork of Quitchupah Creek including filming the channel and the corresponding canyon rims. Documentation of the channel width, stream bed substrate, flow conditions, and subsidence cracks along a series of monitoring locations. Monitoring criteria should include fixed vantage points that can easily be reproducible for subsequent monitoring events, collected width and depth measurements of any pools in the stream and height and depth of any cracks. Additional tools should also be used to observe subsidence crack monitoring such as satellite imagery. In the case of East Fork of Box Canyon, a post-subsidence monitoring report was due 90 days after subsidence was complete. Past experience has shown that access to the surface is limited to the summer months where access is available to monitor the stream bed surface and observe subsidence cracks. As a result, the mining of the panel will have to be timed such that access to the surface is possible so that the effects from subsidence can be evaluated.  
**(AA)**

**[R645-301.724.100]:** There are no groundwater monitoring wells in the canyon where the South Fork of Quitchupah Creek flows. As a result, baseline data from the nearest perched aquifers (if any) closest to the surface is absent. A groundwater well in the vicinity of the stream channel is essential for characterizing baseline groundwater conditions. The additional well in the stream channel will also be instrumental in measuring any losses of perennial flow from the stream that could migrate from fractures in the surface to any groundwater system below. A rise in the groundwater water table will provide important data to help better mitigate effects from loss of surface flow. Furthermore, based on the orientation of the proposed 2R2 panel and the panel adjacent south, it appears that groundwater monitoring well US-81-4 will be destroyed eventually by longwall mining. Please advise the Division if there is a plan to eliminate this well via mining and provide a proposed location for a replacement well. **(AA)**

**[R645-301-724.100]:** Geologic resources, baseline and operational data should be included in the Probable Hydrologic Consequences (PHC) report prepared for the South Fork of Quitchupah Creek along with discharge and solute composition of the surface and groundwater properties of all hydrologic resources in the area. Currently, a lack of baseline data from springs, seeps, stock watering ponds and groundwater monitoring wells exists in the area. The locations of the water rights from springs, point to point diversions and stockwatering ponds identified on the adjudication map provided by the Division of Water Rights (DWRi) require field verification with other interested stakeholders such as the US Forest Service, DWRi, the Division and mine personnel. A consensus should be reached among all stakeholders which groundwater resources and ponds should be targeted for an active baseline water monitoring program. An interagency

field reconnaissance will need to be scheduled in the summer of 2012 to identify critical groundwater and stockwater resources in the area. (AA)

[R645-301-728.100]: A PHC needs to be developed by the operator for the proposed longwall mining below the South Fork of Quitchupah Creek. Similar to the PHC for the 3 Left Modification Panel found in Appendix 7-19 of the SUFCO Mining and Reclamation Plan, full characterization of groundwater and surface water systems for the South Fork of Quitchupah Creek needs to be developed prior to the undermining of the South Fork of Quitchupah Creek via longwall mining. The PHC will outline the risks of significant disruption to the hydrologic balance to the hydrologic resources within the area of the South Fork of Quitchupah as well as any nearby springs, seeps and stockwatering ponds found in the area (AA)

[R645-301.731.224.1]: Quarterly laboratory analytical data will be collected on the stream samples SUFCO 006, as defined in the water monitoring protocol of the MRP on page 7-41. However, additional surface and/or groundwater samples should be collected for total iron if a visible iron precipitate is noted within the stream channel or originating from the springs and seeps. (AA)

[R645-301.731.530]: It is in the best interest of the mine operator, as well as the regulatory management agencies involved to have a well-defined water replacement contingency plan in place prior to the onset of mining under the S. Fork of Quitchupah Creek. This mitigation plan can be incorporated into the PHC prepared for the S. Fork of Quitchupah Creek. Comment letters received from DWRi declared that all surface and groundwater within the drainage that supplies Quitchupah Creek is considered State-appropriated and will be required to satisfy downstream water rights. The USFS expressed concern over the statements made regarding if the mine is unsuccessful in restoring flow after two spring runoff periods and that Canyon Fuel Company will initiate "additional planning and analysis with the Forest Service". The USFS' position is that a solid mitigation plan should be hashed out prior to any water loss or riparian habitat loss. (AA)

[R645-300-113 and R645-301-333]: The Fish and Wildlife Service should be consulted on the undermining of the South Fork of the Quitchupah. The Permittee should address the requirements of the Fish and Wildlife Service's Colorado Fish Recovery Program. (IC)

[R645-301-321]: Please provide a monitoring plan for the riparian vegetation along the South Fork of Quitchupah creek that could be impacted from mining through loss of water or subsidence cracks. (IC)

[R645-301-322.210]: Please provide an updated list and investigation of effect of mining on listed or proposed endangered or threatened species of plants or animals or their critical habitats listed by the Secretary under the Endangered Species Act of 1973 and species or habitats protected by similar states statutes. (IC)

[R645-301-322.220, -333,-358, and 358.400]: Please provide a commitment to provide alternate sources of water for wildlife via "development of springs, wells or guzzlers at strategic

locations”, as suggested by the Smith and Pritchett Report in Appendix 3-3 and page 3-40 of the MRP, in the case that water is lost due to undermining the South Fork of Quitchupah Creek. This commitment would have to be implemented immediately upon discovery of water loss, which may be prior to long term plans of water restoration development approval. (IC)

[R645-301-322]: Please provide a monitoring plan for aquatic wildlife prior to undermining to assess potential degradation impacts as suggested in the Smith and Pritchett Report Appendix 3-3 page 45. (IC)

[R645-301-358]: Annual raptor surveys must be conducted over areas that mining could disturb nests or nesting raptors including subsidence areas and surface disturbance areas. The survey conducted in 2011 does not include areas over projected mine panels. The 2012 annual raptor survey must include areas over projected panels for the 2012 mining year. (IC)

[R645-301-411]: A monitoring and mitigation plan must be developed for the protection of site 42SV3464 as suggested by the Canyon Environmental Report No. 110122. The plan must be developed prior to undermining the South Fork of Quitchupah Creek and prepared in consultation with the US Forest Service, the Division and the State Historic Preservation Office. The MOU in appendix 4-5 does not currently include this site. (IC)

[R645-301.525.500]: On page 5-39E of the application, CFC states that if mitigation measures by Sufco personnel, and their consultants and contractors, are not successful in restoring flows after two spring runoff periods, Sufco will initiate additional analysis and planning with the Forest Service. In accordance with the Utah Coal Mining Rules as well as the requests from the US Forest Service, the applicant must include with this application a definite contingency plan for the event that mitigation measures are not successful. The Division and USFS seek to avoid a situation where the currently planned mitigation measures are unsuccessful and there is no "backup" plan in place. (JO)

a

04/002 Incoming



**United States Department of the Interior**

**BUREAU OF LAND MANAGEMENT**

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY PLEASE REFER TO:  
3482  
U-63214, U-47080  
(UT-923)

**RECEIVED**

**JUN 09 2011**

DIV. OF OIL, GAS & MINING

Certified Mail--Return Receipt Requested  
Certificate No. 7009 1410 0001 9070 9844

**JUN 08 2011**

Mr. Kenneth E. May  
General Manager  
Canyon Fuel Company, LLC  
SUFCO Mine  
397 South 800 West  
Salina, Utah 84654

**DECISION**

APPROVED

Minor Modification to Resource Recovery and Protection Plan (R2P2) 2R2 South A LW Block

On December 10, 2010, the Bureau of Land Management (BLM) received from Canyon Fuel Company, LLC (Canyon Fuel), the proposed SUFCO mine plan minor modification to the Resource Recovery and Protection Plan (R2P2) for the 2R2 South A coal reserve block (map attached). The A area of the 2R2 South longwall panel is on Federal lease UTU-63214. The 2R2 South B area of this longwall panel was approved in the Resource Recovery and Protection Plan (R2P2) minor modification dated March 22, 2010.

The Canyon Fuel proposed mine plan minor modification is in response to the BLM request that further evaluation be conducted to ensure Maximum Economic Recovery (MER) is achieved (BLM Price Field Office recommendation of November 10, 2010). Canyon Fuel has provided a sufficient evaluation that first mining of 2R2 South A Block is uneconomic.

A meeting was held on January 4, 2011 in the BLM Utah State Office to discuss the minor modification. The following personnel attended the meeting:

- |               |  |
|---------------|--|
| Dale Harber   | Leasable Mineral Coordinator, Forest Service – Intermountain Region      |
| Tom Lloyd     | Staff Officer for Minerals and Engineering – Manti-LaSal National Forest |
| Jason Kling   | District Ranger, Fishlake National Forest                                |
| Roger Bankert | BLM State Office, Minerals Branch Chief                                  |
| Jeff McKenzie | BLM State Office, Coal Mining Engineer/Economist                         |
| Steve Rigby   | BLM Price Field Office, Coal Mining Engineer                             |

Pursuant to the meeting the BLM sent a letter, dated January 10, 2011, requesting Canyon Fuel provide additional data including but not limited to: related mine plan maps, subsidence

projections, coal seam dip, springs in the related area, perennial stream factors (such as gradient, flows, morphology), and a mitigation plan should surface flow be lost.

Canyon Fuel responded to the January 10, 2011 request by:

1. Further engaging staff and third party consultants to assess the perennial stream.
2. Preparing summary reports of past and ongoing hydrologic monitoring and evaluations.
3. Summarizing and presenting findings in a meeting held with the BLM and Forest Service on March 4, 2011 at the Fishlake Forest Service Office in Richfield Utah.
4. Providing to the BLM on May 3, 2011, a summary of the findings and the mitigation plan.

The BLM has reviewed the 2R2 South A coal reserve area and finds that if it is not mined at this time it is highly likely the coal block will be sterilized because it cannot be economically accessed in the future resulting in the wasting of 2.2 million tons of coal and over \$7 million in Federal royalties. Further, based on the information submitted by Canyon Fuel and reviewed by the BLM Price Field Office and State Office staff the BLM has determined that the longwall mining of the 2R2 South A Block will:

- Not result in hazardous conditions for the public due to the signage and other steps referred to in the Canyon Fuel mitigation plan.
- There are no surface structures over the 2Right 2South LW A Block.
- Any possible effects to the perennial stream can be and will be successfully mitigated so no damage to or alternation of the perennial stream will result.

The BLM hereby approves, subject to the two items listed below, the mining of the 2R2 South A LW Block by full extraction longwall methods as shown on the attached mine plan map with the mitigation measures submitted by Canyon Fuel:

1. The Forest Service has stated by letter to BLM that the Forest Service "...will continue to work with SUFCO Mine through their monitoring and mitigation plan..." Sufco is directed to continue these significant cooperative efforts with the Forest Service.
2. Within 30 days of receipt of this approval, Sufco is required to provide the current timing and projected tonnage to be mined for the development and longwall mining of the 2Right 2South LW A Block, along with the current projected Sufco Mine LMU recoverable tonnage listed by mining blocks.

Maximum economic recovery of the Federal coal will be achieved as the plan is followed.

This approval of a minor modification to an approved R2P2 at an existing underground coal mine is categorically excluded from NEPA analysis as explained in the Department Manual (5 DM Part 516 11.5 (F) (8)).

The BLM has determined that portions of this minor modification as specified above complies with the Mineral Leasing Act of 1920, as amended, the regulations at 43 CFR 3489, and the lease terms and conditions.

If you have any questions, please contact Jeff McKenzie of my staff at (801) 539-4038.

/S/ Roger L. Bankert

Roger L. Bankert  
Chief, Branch of Minerals

**Enclosure:**

**Approved Mine Map**

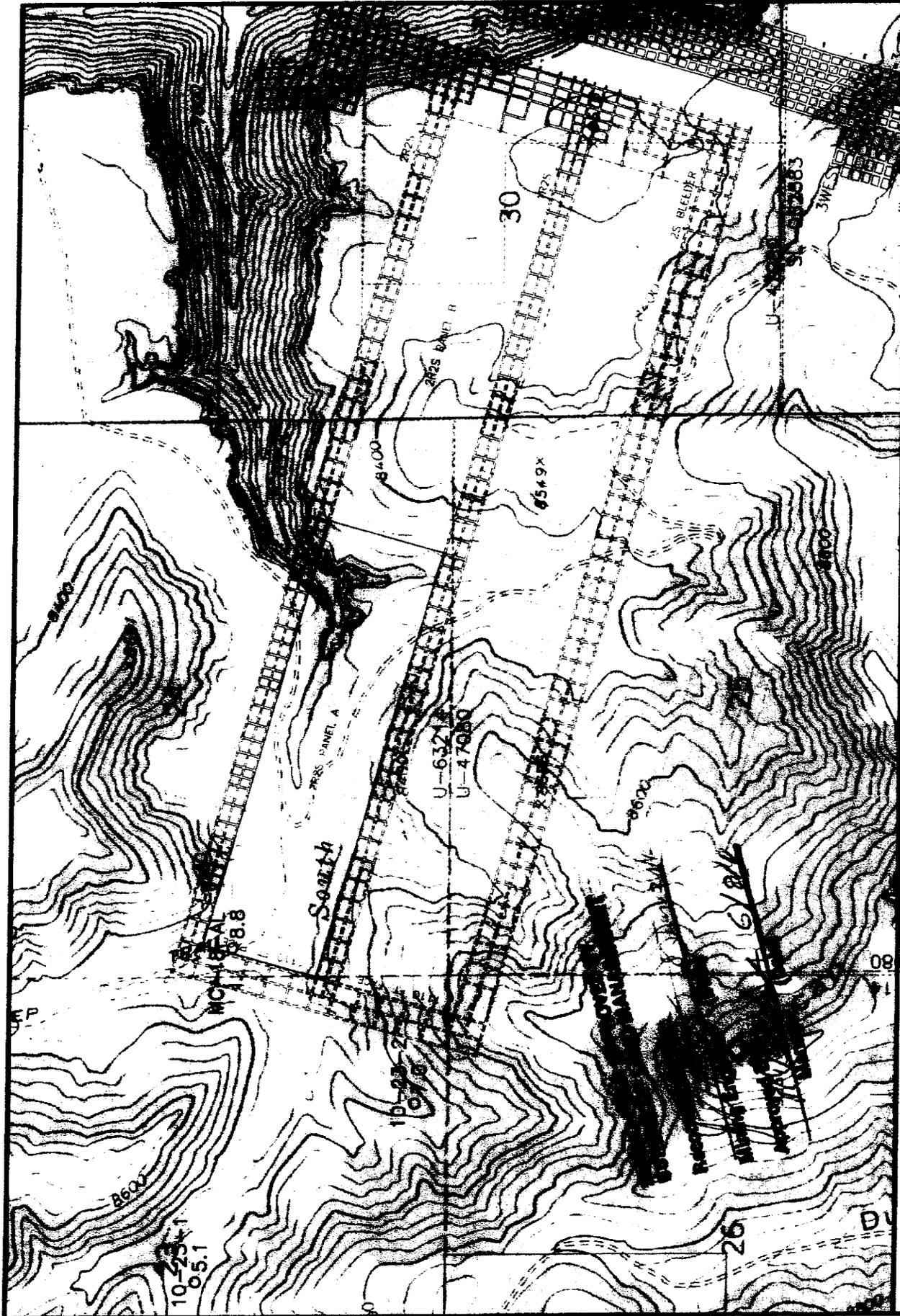
**cc: Price Field Office**

**D. Haddock, Coal Program Manager, Utah Division of Oil, Gas, and Mining**

**P. Brown, Forest Supervisor, Manti-LaSal National Forest**

**A. Rowley, Forest Supervisor, Fishlake National Forest**

**Harv Forsgren, Regional Forester, USFS Intermountain Region**



SHEET NO. 2

**2 SOUTH LONGWALL DISTRICT**  
**2R2S PANEL "A" TOPOGRAPHIC MAP**

SCALE: 1" = 1200'  
 ENGINEER: JMB  
 DATE: 01/12/2011  
 CHECKED BY: JDB  
 FILE NAME: H:\DRAWINGS\BLM\2South\2SouthTopo.dwg

**Canyon Fuel Company, LLC**  
**SUFCO Mine**  
 587 South SR 24 - Salina, UT 84854  
 (435) 286-4880 Phone  
 (435) 286-4499 Fax



2041/002 Incoming  
CC: April  
Joe  
#3950  
R

**USDA** United States  
Department of  
Agriculture

Forest  
Service

Fishlake National Forest  
115 East 900 North  
Richfield, UT 84701  
(435) 896-9233

Manti-LaSal National Forest  
599 West Price River Drive  
Price, UT 84501  
(435) 637-2817

File Code: 2820  
Date: December 6, 2011

State of Utah - Department of Natural Resources  
Division of Oil, Gas and Mining  
Attn: Daron R. Haddock, Coal Program Manager  
PO Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801

**RECEIVED**  
**DEC 07 2011**  
DIV. OF OIL, GAS & MINING

Dear Mr. Haddock:

Thank you for the opportunity to comment on Canyon Fuel Company's South Fork Quitcupah 2R2S Amendment. We have reviewed the proposed amendment and the potential effects to surface resources. The South Fork Quitcupah area is a unique area with a perennial stream, several springs and other resources. Mining induced subsidence could adversely impact these resources. The proposed Amendment is on Federal Coal Lease UTU-63214, which has lease stipulations designed to protect non-coal resources. Proposed mining and mitigation measures must be done so the lease stipulations and other laws are adhered to. The Forest Land and Resource Management Plan (LRMP) designates use in the area for emphasis on livestock grazing and management indicator species habitat. Protection of riparian habitat is also a priority.

Before you permit the amendment there are several items that should be resolved.

The proposed amendment may impact an archeological site. Therefore, the Utah State Historic Preservation Office (SHPO) needs to be consulted, and we have begun that process. Consistent with Stipulation 1 of the coal lease, Canyon Fuel Company has an archeologist that will complete the surveys, determination of significance and effect, and mitigation measures if the effect will be adverse. We expect the archeologist to determine that the proposal will have an adverse effect and that SHPO will concur with the finding. In cases like this a mitigation plan is typically required from SHPO; we recommend that the company begin preparing such a plan and sharing the site inventory and plan with us to complete the consultation. As required, we have consulted with the Native American Tribes concerned about this area.

The proposed amendment may have significant impacts to aquatic resources. The Forest Service initially consulted with the US Fish and Wildlife Service in 1988. The December 8, 1988, concurrence letter from the US Fish and Wildlife Service (FWS) to the Manti-LaSal National Forest on this coal lease states that "the Service has taken the position that any depletion of water from the upper Colorado River basin constitutes a "may affect" situation for the endangered Colorado squawfish, humpback chub, and bonytail chub, requiring formal consultation according to Section 7 of the Endangered Species Act of 1973, as amended. The final EA for this lease application concluded that no depletion of water would result from issuing and developing this coal lease. Therefore, no further Section 7 consultation is required." With a possibility that the proposed plan modification to allow longwall mining would alter the flow of South Fork of



Quitcupah Creek, we feel the US Fish and Wildlife Service needs to be consulted for this proposal and we have also begun that process.

?? Consistent with Stipulations 9 and 17, we believe a detailed inventory and monitoring plan of the known springs, seeps, and associated riparian habitats, along with monitoring flow of the perennial stream, is necessary. We suggest monitoring once per quarter is not sufficient. The monitoring plan should include the measurement of stream and spring flow, elevations, photos, GPS locations, etc. Frequent monitoring of water sources as mining approaches and undermining occurs is warranted to adequately assess impacts to water resources.

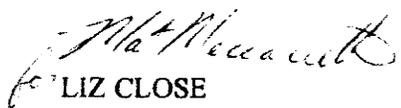
The Company's proposed mining and reclamation plan states, "If mitigation measures by Canyon Fuel Company personnel, and their consultants and contractors, are not successful in restoring flows after two spring runoff periods, Canyon Fuel Company will initiate additional analysis and planning with the Forest Service." Resolution of the potential issues and acceptable mitigation for loss of water in quantity and quality must be defined prior to their loss. With your agency's technical expertise and help, perhaps we can suggest changes to the contingency plans and description of level of water loss restoration Canyon Fuel Company should identify. We would like to work with your staff on specific ideas for consideration in your permitting process.

Thank you for your suggestion to contact the cattlemen who hold grazing permits in the area. We will see if they have any input on the proposal.

If you have questions on our comments and concerns, please contact either one of us, Tom Lloyd at our office in Price, or Rob Hamilton at our office in Richfield.

Sincerely,

  
ALLEN ROWLEY  
Forest Supervisor  
Fishlake National Forest

  
LIZ CLOSE  
Acting Forest Supervisor  
Manti-LaSal National Forest



GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
Division of Water Rights

MICHAEL R. STYLER  
Executive Director

KENT L. JONES  
State Engineer/Division Director

December 8, 2011

Daron R. Haddock  
Coal Program Manager  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Subject: Water Rights Consultation Related to South Fork Quitchupah Amendment,  
Canyon Fuel Company, LLC, SUFCO Mine, C/041/002

Dear Mr. Haddock,

A review of water rights on the South Fork Quitchupah Amendment has been completed. This review identifies the water rights within or near the proposed mine workings. Included with this review is a map showing water rights in and near the subject area and a distribution schedule for water rights on Quitchupah Creek.

### Quitchupah Creek Appropriation

Quitchupah Creek and its associated drainage basin, upstream from the major irrigation water users, are considered **Fully Appropriated**. Water rights established on the stream generally exceed in flow and volume the available water supply during most times of the irrigation season. All of the surface and underground sources of water within the drainage that contribute as direct flow or storage supply to Quitchupah Creek are considered **State Appropriated** water needed to satisfy existing downstream rights.

The distribution schedule shows the stream has early decreed and appropriated rights for direct flow. Some of the earliest rights date to 1882. The rights shown on the schedule represent that the stream is fully appropriated up to a flow volume of 21.7 cubic feet per second (cfs), and an estimated 2,358 acre-feet (af) of beneficial use for irrigation, livestock and domestic.

### Stock Watering Rights

Point to point stock watering rights were identified within the subject area. Water within these stretches of stream as well as all surface and underground source water including springs or seeps feeding into the stream through these stretches are considered **State Appropriated** water supplying the point to point stock watering rights. The attached map shows the location of the



Page 2  
December 8, 2010  
Subject: SUFCO

point to point rights for livestock watering directly on the stream. Individual stock watering rights directly on a spring were also identified within and adjacent to the subject area as shown on the attached map.

If you have any questions regarding this information, please feel free to contact me at 435-613-3750.

Sincerely,

Marc Stilson, P.E.  
SE Regional Engineer

Updated December 8, 2011

**LISTED BY PRIORITY DATE**

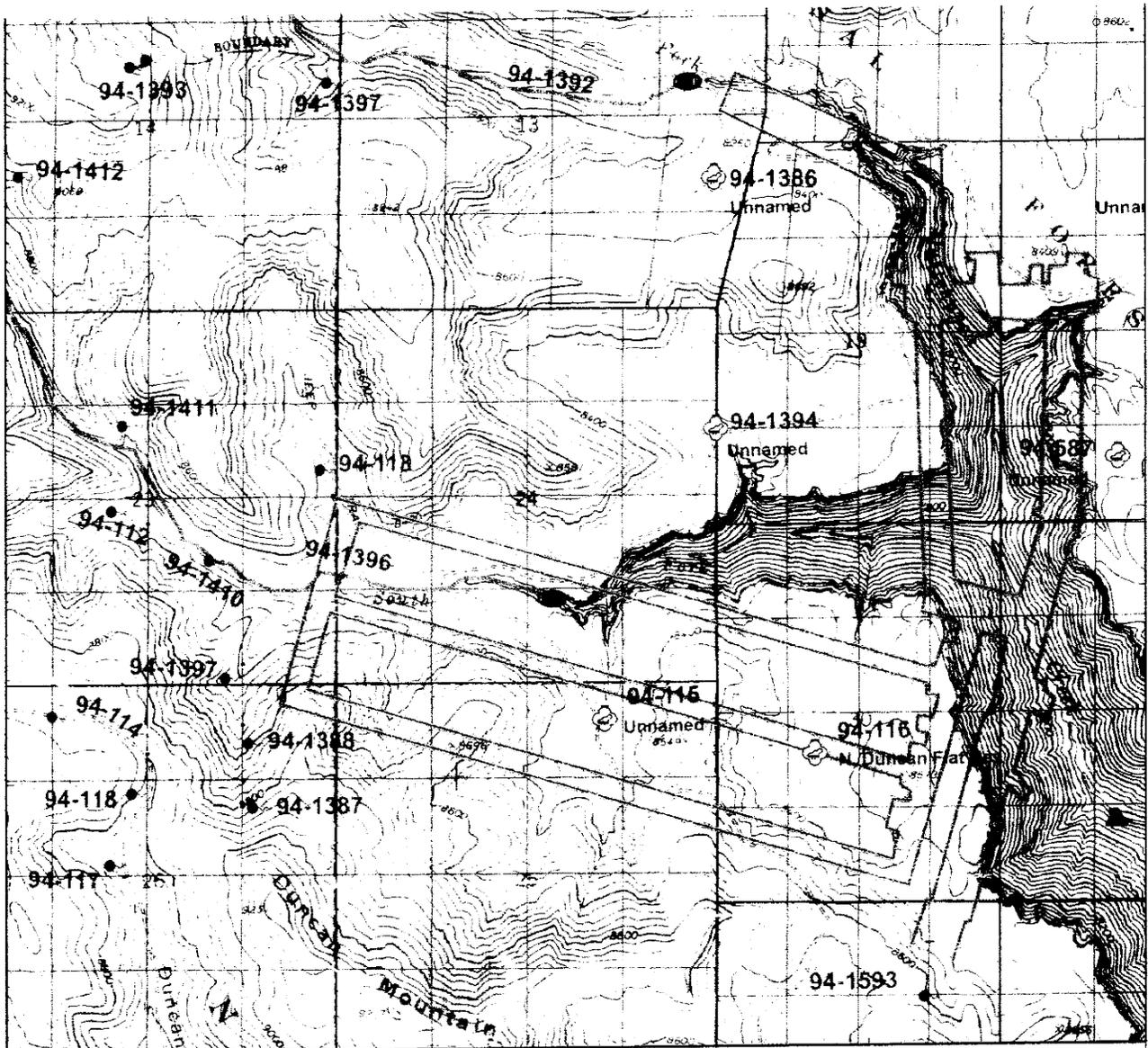
Priority	Water User	Water Right Number	Comments	Type of Right	Status of Right	FLOW		BENEFICIAL USES				PERIOD
						CFS	Cumulative CFS	Acres Feet	Nature of Use	Group #	Period of Use	
1882	CANYON FUEL CO	94-1183		Decree	WUC	3.00	3.00	357.17	Irrigation	617822	Apr 1 - Oct 31	
1883	CANYON FUEL CO	94-1184		Decree	WUC	1.00	4.00	see 1182	Irrigation	617822	Jan 1 - Dec 31	
1883	MORGAN ROBERTSON	94-1178		Decree	WUC	1.75	5.75	739.72	Irrigation	617803	Apr 1 - Oct 31	
1883	OSBURN BRET CARTER / J R LAWRENCE	94-1190		Decree	WUC	1.75	7.50	486.88	Irrigation	617802	Apr 1 - Oct 31	
1884	MORGAN ROBERTSON	94-1179		Decree	WUC	5.25	12.75	see 1178	Irrigation	617803	Jan 1 - Dec 31	
1884	OSBURN BRET CARTER / J R LAWRENCE	94-1191		Decree	WUC	5.25	18.00	see 1190	Irrigation	617802	Apr 1 - Oct 31	
Feb 26, 2007	JOSIAH & ETTA MARIE EARDLEY	94-1883	POD Below Robertson / Carter Division	Fixed Time Application to Appropriate	Approved	1.00	1.00	240.56	Irrigation	623933	Apr 1 - Oct 31	
January 6, 2009	JULIAN LYLE BOWMAN	94-1887	POD Below Robertson / Carter Division	Application	Approved	0.01	1.01	4.67	Stock	623933	Jan 1 - Dec 31	
January 6, 2009	JULIAN LYLE BOWMAN	94-1888	POD Below Robertson / Carter Division	Fixed Time Application to Appropriate	Approved	0.50	1.51	116.00	Domestic	628353	Jan 1 - Dec 31	
April 7, 2010	DEREK J BEAGLEY FAMILY TRUST	94-1895	POD Below Robertson / Carter Division	Application	Approved	0.01	1.53	4.73	Stock / Pond	628353	Jan 1 - Dec 31	
April 7, 2010	DEREK J BEAGLEY FAMILY TRUST	94-1896	POD Below Robertson / Carter Division	Fixed Time Application to Appropriate	Approved	1.00	2.52	260.00	Irrigation	628354	Apr 1 - Oct 31	
1879	CANYON FUEL CO	94-1189	Flow Not Quantified	Diligence	WUC	0.00580	2.5258	4.2	Irrigation / Domestic	628353	Apr 1 - Oct 31	
1879	JOSIAH & ETTA MARIE EARDLEY	94-1285, 1318	Flow Not Quantified	Diligence	WUC	0.00387	2.5297	2.8	Stock	628353	Jan 1 - Dec 31	
1879	GEORGE E. OLSEN	94-1316, 1317	Flow Not Quantified	Diligence	WUC	0.00193	2.5316	1.4	Stock	628353	Jan 1 - Dec 31	
1879	ALONZO OLSEN	94-1315	Flow Not Quantified	Diligence	WUC	0.00116	2.5328	0.84	Stock	617823	Jan 1 - Dec 31	
1879	CASTLE VALLEY RANCHES, LLC	94-1216, 1217	Flow Not Quantified	Diligence	WUC	0.01547	2.5482	11.2	Stock	617875	Jan 1 - Dec 31	
1879	MORGAN ROBERTSON	94-1180, 1181, 1182	Flow Not Quantified	Diligence	WUC	0.07728	2.62558	56	Stock	617893	Jan 1 - Dec 31	
1879	OSBURN BRET CARTER / J R LAWRENCE	94-1192	Flow Not Quantified	Diligence	WUC	0.00774	2.63332	5.6	Stock	617892	Jan 1 - Dec 31	
1879	BLM	94-732	Flow Not Quantified	Diligence	WUC	0.02646	2.65378	14.812	Stock	617823	Jan 1 - Dec 31	

Updated December 8, 2011

**LISTED BY PRIORITY DATE**

**PROPERTY - SUBJECT TO REVISION**

Priority	Water User	Water Right Number	Comments	Type of Right	Status of Right	CFS	Cumulative CFS	Acres Feet	Nature of Use	BENEFICIAL USES			PERIOD	
										AGT	AGT	AGT		
1879	BLM	94-635	Flow Not Quantified	Diligence	WUC	0.00460	7,680.16	3,337	Stock			119	618264	Jan 1 - Dec 31
1879	BLM	94-720, 728, 1756	Flow Not Quantified	Diligence	WUC	0.03705	3,695.43	26,824	Stock			958	617782	Jan 1 - Dec 31
1879	N LLOYD JENSEN	94-1173, 1174, 1194, 97	Flow Not Quantified	Diligence	WUC	0.00387	2,693.10	2.8	Stock			100	617819	Jan 1 - Dec 31
1890	N LLOYD JENSEN	94-97	MUDDY CREEK	Diligence	WUC	1.00	3,699.3	18	Irrigation / Stock	18.53	4.5		618338	Apr 1 - Sept 15
<b>Total:</b>							21,699.3	2,357.54						



## State of Utah Appropriated Water Rights

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>● Spring</li> <li>◆ Underground Water Well</li> <li>● Seep, Stream, Creek</li> <li>⊕ Lake, Pond, Res.</li> </ul> | <ul style="list-style-type: none"> <li>--- Stock Point to Point</li> <li>--- Sufco_mine_working</li> <li>--- Water Shed Boundaries (AGRC)</li> <li>□ Section Line</li> <li>□ 40 Acre Parcel (Approx)</li> </ul> | <ul style="list-style-type: none"> <li>▲ Downstream Surface Rights-<br/>94-1183, 1184, 1178, 1190,<br/>1179, 1191, 1883, 1887, 1888,<br/>1895, 1896, 189</li> </ul> |
|---|---|---|



1:18,000  
Date: 12/15/2011  
Printed By: Dave Horsley

**RECEIVED**  
**DEC 27 2011**  
DIV. OF OIL, GAS & MINING



**Suzanne Steab - Sufco, South Fork Quitchupah 2R2S Plan, Task ID #4200**

---

**From:** Suzanne Steab  
**To:** Ken May; PFOCoal; Stilson, Marc; Thomas W -FS Lloyd; dgolsen@fs.fed....  
**Subject:** Sufco, South Fork Quitchupah 2R2S Plan, Task ID #4200  
**CC:** Abate, April; Haddock, Daron

---

Application comments. See attached. Thanks.

**Subject:** Sufco, South Fork Quitchupah 2R2S Plan, Task ID #4200  
**Created By:** SUZANNESTEAB@utah.gov  
**Scheduled Date:**  
**Creation Date:** 10/19/2012 8:08 AM  
**From:** Suzanne Steab

CC: April Abate (APRILABATE@utah.gov)	Delivered	10/19/2012 8:08 AM
CC: Daron Haddock (DARONHADDOCK@utah.gov)	Read	10/19/2012 8:08 AM
To: dgolsen@fs.fed.us (dgolsen@fs.fed.us)	Transferred	10/19/2012 8:08 AM
To: f1johnso@blm.gov (f1johnso@blm.gov)	Transferred	10/19/2012 8:08 AM
To: Karl Houskeeper (KARLHOUSKEEPER@utah.gov)	Delivered	10/19/2012 8:08 AM
To: Ken May (kmay@archcoal.com)	Transferred	10/19/2012 8:08 AM
To: Marc Stilson (MARCSTILSON@utah.gov)	Third-Party Downloaded	10/19/2012 8:08 AM
To: Pete Hess (petehess@utah.gov)	Delivered	10/19/2012 8:08 AM
To: Priscilla Burton (PRISCILLABURTON@utah.gov)	Delivered	10/19/2012 8:08 AM
To: Steve Demczak (STEVEDEMCZAK@utah.gov)	Delivered	10/19/2012 8:08 AM
To: Thomas W -FS Lloyd (twlloyd@fs.fed.us)	Transferred	10/19/2012 8:08 AM