



U. S. DEPT. OF THE INTERIOR OFFICE OF SURFACE MINING RECEIVED Mine Site Evaluation State Program AUG 29 2005



Copy Form
2/04/2002

1. Permittee/Person SOUTHERN UTAH FUEL CO.		9. Permit Number UT-041-002		10. Permit Type PP	
2. Address 397 SOUTH 800 WEST		11. Field Visit Date 07/06/2005 mm - dd - yyyy		12. Purpose O	
3. City SALINA		4. State UT		13. SRA Present Y	
5. Zip Code 84654		6. Phone Number (435) 529-7428		14. Permit Status A	
7. Operator Name, if Different than Permittee		15. Site Status AP		16. Facility Type BDEG	
8. Mine Name CONVULSION CANYON /		17. OSM Office # 140		18. CCID #	
		19. Land Code F		20. M.S.H.A ID # 42-00089	
		21. State Abrev. UT		22. County Name SEVIER	
		23. AVS Permittee Entity ID Number 060111		24. State Office	

25. Hours		26. Signature Block		27. Reviewing Official:	
2.0 a. Permit Review		<i>Henry Austin</i> Signature: 8/17/05 HENRY AUSTIN ID # 116 Printed Name: Date: 08/17/2005		<i>J. Fulter</i> Signature:	
5.0 b. Site Visit Time				Review Date: 8/17/2005 mm - dd - yyyy	
8.0 c. Travel Time				Is Supplemental MSE Page Used Y/N Y	
1.0 d. Report Writing					

Permit Type — Item 10 IP = Interim Program, PP = Permanent Program, NP = No Permit

Purpose Type Codes Item 12

Oxx.... Oversight	Rfx.... Reclamation Fees	CCR.... Citizen Complaint Referral (non site visit)
Axx.... Assistance	Fxx.... Federal Actions	CC..... Citizen Complaint (initial site visit)
		CCF.... Citizen Complaint Follow-up

Joint Inspection — Item 13 A joint inspection is when a state inspector accompanies an OSM inspector any time during the review of the mine site.

Permit Status — Item 14

A.... Active: Coal mining and reclamation activities occurring or permitted but not yet disturbed.	AB.... Abandoned: All surface and underground coal mining activities have ceased and operator has left the site without completing reclamation as defined in 30 CFR 840.11(g)
IN.... Inactive (Permanent Program Permit): Phase II completed or Temporary Cessation of Operations. (Interim Program Permit) Coal mining completed and reclamation activities initiated.	AB1.. Bond Forfeiture: Bond forfeiture officially in process or completed, and reclamation in progress or not yet commenced.
BR... Bond Release: Reclamation completed and State Regulatory Authority (RA) has released all of the bond (Phase III Release.)	AB2.. Partially Reclaimed Forfeiture: Forfeited site where all bonds have been used to reclaim site, but site not reclaimed to Program standards.
	AB3.. Reclaimed Forfeiture: Forfeited site that has been reclaimed to Program standards.
	NA.... Not Applicable: When site is unpermitted.

Site Status Codes — Item 15

ND... No Disturbance: No coal mining and reclamation operations have been started.	MC... Mining Complete: No mining activity on site, site regraded and awaiting phase bond release.	NS.. Non-Site Visit: Status of site not determined.
EX... Coal Exploration: Coal exploration operations have started and where coal mining operations have not begun.	TC... Temporary Cessation: The RA has granted cessation of mining pursuant to 30 CFR 816/817.131(b).	FP.. Forfeiture Pending: The RA is pursuing actions to revoke the permit, collect the performance bond(s), and/or reclamation of forfeited site is in progress.
AP.. Active Coal Producing: Coal surface mining activities are occurring.	P1... Phase I Release: At least Phase I bond release granted for entire permitted area. For interim permits, partial bond release.	FR.. Forfeited and Reclaimed: Forfeiture reclamation completed.
AN.. Active Non-Producing: Active non-producing facility such as tippie or preparation plant.	P2.. Phase II Release: At least Phase II bond release for the entire permitted area.	FO.. Abandoned Site: Abandoned site that is permitted but there is no bond.
NM... No Mining: The Permit Status is active, site is not in Temporary Cessation, no surface coal mining activity, and site not regraded.	P3.. Phase III Release: Reclamation completed and the RA has released all bond.	WC.. Wildcat: Coal mining and reclamation operations have or are taking place and the activity is not covered by the required permits from the RA.

Facility Type Codes — Item 16

A... Surface	D... Ancillary (Haulroad, Conveyor, and/or Rails)	H... Exploration Permits	L... Remaining site permitted under 30 CFR 785.25
B... Underground	E... Refuse and/or Impoundment	I... Notice of Intent to Explore	
C... Preparation Plant	F... Loading Facility and/or Tippie	J... Exempt 16 and 2/3	
	G... Stockpiles	K... Government Financed Construction Exemption	

Small Business Regulatory Enforcement Fairness Act (SBREFA) Your Comments Are Important

The Small Business and Agriculture Regulatory Enforcement Ombudsman and 10 Regional Fairness Boards were established to receive comments from small businesses about Federal agency enforcement actions. The Ombudsman will annually evaluate the enforcement activities and rate each agency's responsiveness to small business. If you are a small business (a business with 500 or fewer employees including those of affiliates) and wish to comment on the enforcement or compliance activities of OSM, call 1-888-REG-FAIR (1-888-734-3247).

U. S. DEPT. OF THE INTERIOR OFFICE OF SURFACE MINING

Mine Site Evaluation

State Program

Permittee/ Person SOUTHERN UTAH FUEL

Permit Number UT-041-002

Field Visit Date 07/06/2005

Continuation Page

28. Performance Standard Categories

Codes: 1=Compliance, 2=Noncompliance, 3=Not Planned, 4=Not Started, 5=Noncompliance Identified Elsewhere, 6=Previously Cited

<p>A. Administrative</p> <ol style="list-style-type: none"> 1. ___ Mining within Valid Permit 2. ___ Mining within Bonded Area 3. <u>1</u> Terms & Conditions of Permit 4. ___ Liability Insurance 5. ___ Ownership and Control 6. ___ Temporary Cessation 7. ___ AML Rec. Fees -- Non-Respondent 8. ___ AML Rec. Fees -- Failure to Pay <p>B. Hydrologic Balance</p> <ol style="list-style-type: none"> 1. ___ Drainage Control 2. ___ Inspections & Certifications 3. ___ Siltation Structures 4. ___ Discharge Structures 5. ___ Diversions 6. ___ Effluent Limits 7. ___ Ground Water Monitoring 8. ___ Surface Water Monitoring 9. ___ Drainage -- Acid-Toxic Materials 10. ___ Impoundments 11. ___ Stream Buffer Zones <p>C. Topsoil & Subsoil</p> <ol style="list-style-type: none"> 1. ___ Removal 2. ___ Substitute Materials 3. ___ Storage and Protection 4. ___ Redistribution 	<p>D. Backfilling & Grading</p> <ol style="list-style-type: none"> 1. <u>1</u> Exposed Openings 2. ___ Contemporaneous Reclamation 3. ___ Approximate Original Contour 4. ___ Highwall Elimination 5. ___ Steep Slopes (includes downslope) 6. ___ Handling of Acid & Toxic Materials 7. ___ Stabilization (rills and gullies) <p>E. Excess Spoil Disposal</p> <ol style="list-style-type: none"> 1. ___ Placement 2. ___ Drainage Control 3. ___ Surface Stabilization 4. ___ Inspections & Certifications <p>F. Coal Mine Waste (Refuse Piles/Impoundments)</p> <ol style="list-style-type: none"> 1. ___ Drainage Control 2. ___ Surface Stabilization 3. ___ Placement 4. ___ Inspections and Certifications 5. ___ Impounding Structures <p>G. Use Of Explosives</p> <ol style="list-style-type: none"> 1. ___ Blaster Certification 2. ___ Distance Prohibitions 3. ___ Blast Survey/Schedule 4. ___ Warnings & Records 5. ___ Control of Adverse Effects 	<p>H. <u>1</u> Subsidence Control Plan</p> <p>I. Roads</p> <ol style="list-style-type: none"> 1. ___ Road Construction 2. ___ Certification 3. ___ Drainage 4. ___ Surfacing and Maintenance 5. ___ Reclamation <p>J. Signs & Markers</p> <ol style="list-style-type: none"> 1. ___ Signs 2. ___ Markers <p>K. ___ Distance Prohibitions</p> <p>L. Revegetation</p> <ol style="list-style-type: none"> 1. ___ Vegetative Cover 2. ___ Timing <p>M. ___ Postmining Land Use</p> <p>N. Other</p> <p style="margin-left: 20px;">General Performance Category</p> <p>H <u>1</u> 1) <u>subsidence evaluation</u></p> <p> ___ 2) _____</p> <p> ___ 3) _____</p>
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Performance Standard Categories 30 CFR Counterpart

<p>A. Administrative.....(816/817.41-57)</p> <ol style="list-style-type: none"> 1. Valid Permit..... 773.11 2. Mining within Bonded Area..... 773.11 3. Terms & Conditions of Permit..... 773.17 4. Liability Insurance..... 800.60 5. Ownership and Control..... 778.13 6. Temporary Cessation..... 842.11(e) & 816/817.131 7. AML Rec. Fees -- Non-Respondant..... 870.15(b) 8. AML Rec. Fees -- Failure to Pay..... 870.15(a) <p>B. Hydrologic Balance.....(816/817.41-57)</p> <ol style="list-style-type: none"> 1. Drainage Control..... 45 2. Inspections & Certifications..... 49(a)(10) 3. Siltation Structures..... 46 4. Discharge Structures 47 5. Diversions..... 43 6. Effluent Limits..... 42 7. Ground Water Monitoring..... 41(c) 8. Surface Water Monitoring..... 41(e) 9. Drainage--Acid - Toxic Materials..... 41(f) 10. Impoundments..... 49 11. Stream Buffer Zones..... 57 <p>C. Topsoil & Subsoil.....(816/817.22)</p> <ol style="list-style-type: none"> 1. Removal..... 22(a) 2. Substitute Materials..... 22(c) 3. Storage and Protection..... 22(c) 4. Redistribution..... 22(d) <p>D. Backfilling & Grading.....(816/817.95-107)</p> <ol style="list-style-type: none"> 1. Exposed Openings..... 816/817.13, 14, 15, & 823.11 & 21 2. Contemporaneous Reclamation..... 100 3. Approximate Original Contour..... 102(a)(1) 4. Highwall Elimination..... 102(a)(2) 5. Steep Slopes (includes downslope)..... 107 6. Handling of Acid & Toxic Materials..... 102(c) 7. Stabilization (rills and gullies)..... 95(b) 	<p>E. Excess Spoil Disposal.....(816/817.71-74)</p> <ol style="list-style-type: none"> 1. Placement..... 71(e) 2. Drainage Control 71(f) 3. Surface Stabilization..... 71(g) 4. Inspections & Certifications..... 71(h) <p>F. Coal Mine Waste (Refuse Piles/Impoundments)(816/817.81-84)</p> <ol style="list-style-type: none"> 1. Drainage Control 83(a) 2. Surface Stabilization..... 83(b) 3. Placement..... 83(c) 4. Inspections and Certifications..... 83(d) 5. Impounding Structures..... 84 <p>G. Use of Explosives.....(816/817.61-68)</p> <ol style="list-style-type: none"> 1. Blaster Certification..... 61(c) 2. Distance Prohibitions..... 61(d) 3. Blast Survey/Schedule..... 62-64 4. Warnings & Records 66 & 68 5. Control of Adverse Effects..... 67 <p>H. Subsidence Control Plan.....(817.121-122)</p> <p>I. Roads.....(816/817.150-151)</p> <ol style="list-style-type: none"> 1. Road Construction..... 150(c) 2. Certification..... 151(a) 3. Drainage..... 150(b)-151(d) 4. Surfacing and Maintenance..... 150(e)-151(d) 5. Reclamation..... 150(f) <p>J. Signs & Markers(816/817.11)</p> <ol style="list-style-type: none"> 1. Signs..... 11(a),(b),&(c) 2. Markers..... 11(a),(b),(d),(e),&(f) <p>K. Distance Prohibitions.....(761.11)</p> <p>L. Revegetation.....(816/817.111-116)</p> <ol style="list-style-type: none"> 1. Vegetative Cover..... 111 & 116 2. Timing..... 113 <p>M. Postmining Land Use.....(816/817.133)</p>
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Mining Under Perennial Streams Evaluation “East Fork of Box Canyon”

SUFCO MINE

On July 6, 2005, OSM, DOGM, and industry representatives visited the SUFCO Mine as part of a Utah regulatory program evaluation. The evaluation focused on potential subsidence and stream channel impacts to the East Fork of the Box Canyon (EFBC) perennial stream as a result of underground mining. Participants included Henry Austin and Howard Strand (OSM), Dana Dean, Jeri Ann Einstein, Wayne Hedberg, Wayne Western, Jim Smith, Steve Fluke, and Steve Christiansen (UT DOGM), and Mike Davis and Chris Hanson (Canyon Fuel Company - SUFCO).

Mining Description

The first longwall panels mined below EFBC in November of 1993 produced surface effects from subsidence (Surface cracks into the stream bed both parallel and perpendicular to stream flow; and surface cracks in colluvium above the stream channel. (An August 2, 2004, OGM letter to Canyon Fuel CO. documents the approved repair practices for these cracks.) In-stream mitigation has been performed by use of hand tools (picks and shovels) to fill the identified stream fractures with bentonite clay pellets.

Stream & Watershed Characteristics

Due to the bentonite clay pellets that were used to repair the fractures in the channel and natural sediment deposition, a steady and consistent flow within the stream channel now is reestablishing where the subsidence zones affected the EFBC channel in November 1993. Good healing appears to have occurred on surface subsidence cracks that expressed in the streambed and both the watershed in general and riparian habitat in particular appears essentially unaffected.

Visual Observations

The team walked the EFBC beginning at surface monitoring location EFB 02, where no signs of subsidence were observed and good vegetative cover was in place. At EFB 03, no running water was observed but the surface was moist and green. In addition, no subsidence cracks were observed but the team did notice that many trees (most notably Aspen) had been toppled or were leaning toward and across the stream bed. This phenomenon was discussed by the team as a potential effect of subsidence, although much of the tree damage could indicate wind damage from a micro-burst or the like. The perennial stream began at EFB 06 and originally went underground at EFB 07. At EFB 08, the stream was flowing and no subsidence damage was observed.

Canyon Fuel CO., SUFCO Mine, pg. 2

At some point between EFB 12 and 13, the team observed that a pair of adjacent springs had gone dry likely due to the effects of subsidence. Although not in the streambed, several large and deep subsidence cracks were observed above the stream zone in the colluvium. A GPS reading was taken at this site.

Based on the above considerations, repairs, and observations, the riparian habitat appears to be unaffected, total stream runoff appears unaffected, and no documented affects to stream water quality or quantity appear from the stream monitoring completed. No material damage has been documented to date from longwall mining and associated subsidence beneath the East Fork of the Box Canyon perennial stream.

While walking back to our vehicles, we took a GPS reading at previously unidentified surface cracks, presumably also associated with longwall mining subsidence. This concluded the evaluation.