



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

January 31, 1989

Mr. Dan Guy, Manager
Permitting and Compliance
Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Submittal of Annual Report for 1988, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Gordon Creek #2 and 7, ACT/007/016, Gordon Creek #3 and 6, ACT/007/017, Huntington #4 Mine, ACT/015/004, and C. V. Spur, ACT/007/022, Folder #6, Carbon and Emery Counties, Utah

Enclosed you will find the 1988 annual report form which must have a copy for each mine submitted to the Division by March 31, 1989. Please submit the attached one-page sheet with reports for all applicable categories appended.

We appreciate your timely consideration of this reporting.

Sincerely,

A handwritten signature in cursive script that reads "Lowell P. Braxton".

Lowell P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

djh
Enclosure(s)
AT57/2

COAL MINING AND RECLAMATION OPERATIONS FOR 1988
(Authority UMC 784)

(Must be submitted to the Division by March 31, 1989)

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203

(801) 538-5340

Operator: _____
Mine Name: _____
Mailing Address: _____
Company Representative: _____
Permit Number: _____
Date of Most Recent Permanent Program Permit: _____
Quantity of Coal Mined (tonnage) 1988: _____

Attach Updated Mine Sequence Map.

All monitoring activities during the report period must be submitted with this report (including, but not limited to):

- A. Summarized Water Monitoring Data
- B. Precipitation or Other Climatological Data
- C. Subsidence Monitoring Report
- D. Vegetation Data (test plots) or Revegetation Success Monitoring (includes interim and final)
- E. Permit Stipulation Status

djh
AT57

BEAVER CREEK Coal Company

Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050

file 015/009 #6

maps also in #6



August 18, 1988

Mr. Lowell P. Braxton
Administrator
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
NOV 18 1988
DIVISION OF OIL
GAS & MINING
PRICE, UTAH

Attention: Mr. Richard V. Smith

RE: NOV 88-19-1-1
CO 88-19-2-1
Trail Mountain #9 Mine
ACT/015/009 #5
Emery County, Utah

Dear Mr. Braxton:

Enclosed is a copy of the conventional subsidence survey data for 1987 for Trail Mountain No.9 Mine. Also enclosed is a copy of the U.S. Forest Service transmittal letter confirming their flight for 1987.

This information is submitted as abatement for the above listed N.O.V. (and resultant CO).

If you have any questions or need any further information, please let me know.

Respectfully,

Dan W. Guy
Manager Permitting/Compliance

cc: Johnny Coffey
Dave Arnolds
File

DWG/cr
IBMCATHY7

United States
Department of
Agriculture

Forest
Service

Manti-LaSal
National Forest

599 West Price River Dr.
Price, Utah 84501

Reply to: 2820

Date: April 11, 1988

Alan Childs
Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

Dear Alan:

Enclosed is your set of the 1987 aerial photography for subsidence monitoring at the Trail Mountain No. 9 Mine with a photo index map. The following 1:6000 scale color photographs are included in your set:

TM-1-108 through TM-1-117
TM-2-98 through TM-2-107
TM-3-89 through TM-3-97

We have not yet received the actual charges for the 1987 aerial photography. When we receive this information, we will make the appropriate charges to your reimbursable account and let you know if any adjustments will be needed. The account presently contains the estimated cost of the 1987 photography submitted last year by Trail Mountain Coal Company.

Sincerely,



for
GEORGE A. MORRIS
Forest Supervisor

Enclosure

STATION	ELEVATION	NORTH	EAST
CW-2	7,389.20	358,306.57	2,088,959.38
BW-2	7,276.70	357,537.50	2,089,631.99
BW-7 ✓	9,641.18	360,378.25	2,082,930.39
BW-8	9,217.10	354,769.03	2,083,446.35
BW-9 ✓	8,982.30	351,293.22	2,083,846.88
BW-12 ✓	8,828.30	350,438.20	2,087,359.33
TMS-1	9,058.20	360,696.14	2,085,934.03
→ TMS-2	9,056.90	353,055.90	2,085,800.36
→ TMS-3	8,911.70	353,633.13	2,087,528.68
→ TMS-4	8,285.90	355,509.20	2,087,069.44
→ TMS-5	8,668.40	355,299.55	2,086,252.14
→ TMS-6	8,585.40	354,643.05	2,088,297.28
TMS-7	8,965.70	350,432.42	2,085,795.14
→ TMS-8	8,651.60	352,101.43	2,088,249.63
TMS-9	7,549.50	360,638.01	2,089,345.37
TMS-10	7,684.90	361,002.47	2,088,502.84
TMS-11	7,285.00	358,909.95	2,088,898.37
TMS-12	7,089.20	355,233.30	2,091,001.08
TMS-13	6,778.40	349,962.15	2,091,048.87
TMS-14	7,888.40	355,737.92	2,088,393.64
*TMS-15 ✓	8,559.79	349,453.97	2,083,594.51
*TMS-16 ✓	8,366.27	349,681.96	2,085,022.62
*TMS-17	8,750.09	349,614.42	2,087,839.44
*TMS-18	8,462.49	360,064.89	2,090,922.12
Tm 1A *TMS-19 ✓	9,248.67	360,618.20	2,084,580.51
Tm 1B *TMS-20 ✓	9,288.98	360,419.76	2,083,932.28

*1986 Survey Monuments

TRAIL MOUNTAIN COAL Co. Drill Hole Locations

P.O. Box 551 Orangethorpe, Utah 84537

1.000 519729 MODIFIED TO ELEVATION 1600
 COMPUTED BY BTS W DATE 6-3-87

SHEET NO. 1 of 1

BEARING	DISTANCE		VERTICAL ANGLE ELEVATION		COORDINATES				STATION
					NORTHING		EASTING		
									BW 7
S 34° 32' 37" E			9151	49	357253	083	2085081	762	Rebar @ End of Road
N 33° 19' 20" E	401	51	9179	06	357588	582	2085302	330	Drill Hole #3
S 35° 40' 00" W	977	58	9153	87	356458	875	2084511	766	South Nail
S 25° 43' 27" W	732	88	9084	25	355798	627	2084193	667	Drill Hole #1
									BW 7
									Rebar @ End of Road
N 28° 22' 04" W	407	37	9173	99	357611	534	2084888	209	North Nail #1
N 24° 13' 29" W	375	82	9180	24	357954	261	2084734	004	North Nail #2
N 46° 05' 43" W	170	96	9172	46	358072	815	2084610	828	North Nail #3
N 24° 18' 40" W	179	79	9175	36	358236	662	2084536	810	1ft W. of Drill #2
East	100		9175	36	358236	662	2084537	810	Drill Hole #2

TRAIL MOUNTAIN COAL CO. SURVEY CONTROL

P.O. Box 551 ORANGEVILLE, UTAH 84537

1.000.519727 MODIFIED TO ELEVATION 9600
 COMPUTED BY BTSW DATE 6-12-87

SHEET NO. 1 OF 1

BEARING	DISTANCE		VERTICAL ANGLE ELEVATION		COORDINATES				STATION
					NORTHING		EASTING		
			9641	18	360378	253	2082930	388	BW 7
S34°32'37"E			9151	49	357253	083	2085081	762	Rebar @ End of Road
N70°26'03"E	181	262			357313	786	2085252	557	F.S. Rivet
S18°51'09"E	1673	228			355730	320	2085793	232	N.W. Cor. Sec. 36 B. Cap T17S R6E
									BW 9
S76°19'08"E					350438	20	2087359	63	BW 12
N74°53'23"E	12064	478			353583	140	2099006	990	New Point on East Mtn
S71°37'52"W	10046	18			350417	25	2089472	69	N.E. Cor Sec 1 B. Cap T18S R6E
			8982	27	351293	222	2083846	877	BW 9
S76°19'08"E			8828	34	350438	20	2087359	63	BW 12
N89°56'45"W	3109	98			350441	14	2084249	65	N.W. Cor Sec 1 B. Cap T18S R6E
S72°10'41"W	4835	05			348958	385	2082756	604	Rebar S. of 9 w/ Yellow cap
N15°28'21"E	1529	380			350432	338	2083164	605	S 1/4 Cor Sec 35 stone T17S R6E

TRAIL MOUNTAIN COAL CO PO Box 551 ORANGEVILLE, UT 84537

TRAIL MOUNTAIN COORDINATE CONTROL

1.000 519729 MODIFIED TO ELEVATION 9600
 COMPUTED BY RTSW
 DATE 7-16-86

SHEET NO. _____

BEARING	DISTANCE		VERTICAL ANGLE ELEVATION		COORDINATES				STATION
					NORTHING		EASTING		
			9217	08	354769	028	2083446	352	BW 8
N5°15'20"W	5632	905	9641	18	360378	253	2082930	388	BW 7
N81°43'35"E	1667	480	9248	67	360618	204	2084580	513	TM 1A
N87°37'40"E	1002	749	9288	98	360419	758	2083932	278	TM 1B
N83°57'34"E	3020	285	9058	14	360696	085	2085933	903	TM 1
S78°55'53"E	5133	971	8488	59	359710	443	2090972	372	Sec 25 1/16 Cor
S2°47'18"E	5028	001	8462	49	360064	894	2090922	128	Rebar w/ Alum. Cap
S87°28'01"E	5037	011	8196	89	360473	470	2090965	992	N.W. Cor Sec 30
N77°01'41"E	252	580	9022	51	360752	783	2086180	037	Work Point Stake
N86°50'06"E	4793	272	7935	76	361017	427	2090965	998	N.E. Cor Sec 25
S34°32'37"E	3794	087	9151	49	357253	083	2085081	762	Rebar End of Rd. E. of Cap
									BW 9
N76°19'08"W			8828	34	350438	204	2087359	332	BW 12
S75°20'57"W	3891	347	8559	79	349453	974	2083594	512	Reset
S72°04'00"W	2456	032	8366	27	349681	967	2085022	625	Reset
S30°14'03"E	953	480	8750	09	349614	421	2087839	443	New S. on Ridge
S31°39'W	747	767	8951	71	351179	527	2087261	373	Rebar on Top Ridge



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355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

August 1, 1988

TO: John Whitehead, Permit Supervisor

FROM: James R. Fricke, Reclamation Hydrologist *JRF*

RE: Second Review of 1987 Annual Reports, Beaver Creek Coal Company, C. V. Spur Loadout, ACT/007/022; Gordon Creek #3 and 6 Mine, INA/007/017; Gordon Creek #2 and 7 Mine, ACT/007/016; Trail Mountain #9 Mine, ACT/015/009; Folder No. 2 and 6, Carbon County, Utah

Synopsis

On May 27, 1988, the Division requested Beaver Creek Coal Company (BCCC) to submit complete water monitoring data for the above mentioned properties. The complete data was to be submitted to the Division on June 20, 1988. On July 27, 1988, BCCC submitted data for Gordon Creek #3 and 6 Mine, and Gordon Creek #2 and 7 Mine. Data was not submitted for C. V. Spur Loadout (precipitation data) and Trail Mountain #9 Mine (field data). Field data deficiencies exist at Gordon Creek #2 and 7 Mine for Stations 2-2-W, 2-3-W, and 2-4-W.

Recommendations

BCCC monitoring records should be reviewed during each complete inspection for adequacy according to the approved plan and the Division's Water Monitoring Guidelines (1986). Discrepancies should be corrected as soon as possible.

djh
cc: B. Malencik
B. Warmack
0798R/51



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

file

July 7, 1988

TO: John Whitehead, Permit Supervisor

FROM: Brent Stettler, Reclamation Biologist *Brent*

RE: Review of Vegetation Section, 1987 Annual Report, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #6, Emery County, Utah

The test plot at Trail Mountain #9 Mine was established to test the suitability of on-site soil/spoil material as a plant growth medium. The plot consists of two subplots, each planted with a different seed mixture. In 1987, the plot was three (3) years old.

The test plot has been successful in demonstrating reclamation feasibility. In 1987, vegetative cover on both subplots exceeded 60 percent. This compares favorably with vegetative cover for the three reference areas, which ranged between 22 and 54 percent.

Although diversity was not a primary objective of the study, it should be pointed out that the test plot has been dominated by relatively few grass species. In 1987 these comprised 91 and 97 percent of the total vegetative cover for subplots I and II, respectively. This contrasts with vegetative composition in reference areas, where grasses contributed between 26 and 61 percent relative cover. If future sampling fails to show a trend toward greater representation of shrubs and forbs in the plant community, then adjustments in final reclamation techniques and seed mixes will be necessary.

djh
1369R/53



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

A handwritten signature in the top right corner of the page.

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 19, 1988

Mr. Dan Guy, Manager
Permitting & Compliance
Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: 1987 Annual Report Review, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #6, Emery County, Utah

Attached is a technical Review Memorandum from Division hydrologist James R. Fricke for the Trail Mountain #9 Mine Water Quality Monitoring Report for 1987.

As you will note, there are several incomplete areas and some concerns raised, please assure the recommendations made are incorporated in the 1988 monitoring program and that the missing items are forwarded to the Division by June 20, 1988.

Please feel free to contact Jim Fricke if you should have any questions on these matters.

Sincerely,

A handwritten signature of John J. Whitehead.

John J. Whitehead
Permit Supervisor/
Reclamation Hydrologist

as
Attachment
cc: J. Fricke
0800R/54



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 13, 1988

TO: John Whitehead, Permit Supervisor
FROM: James R. Fricke, Reclamation Hydrologist *JRF*
RE: 1987 Annual Report Review, Beaver Creek Coal Company, Trail Mountain No. 9 Mine, ACT/015/009, Folder 6, Emery County, Utah

Synopsis

Beaver Creek Coal Company submitted the 1987 annual report for Trail Mountain No. 9 Mine on March 31, 1988. On January 7, 1988 Notice of Violation 88-27-3-1 was issued for failure to conduct water monitoring in accordance with the approved plan. The violation encompassed monitoring for 1987.

Analysis

The attached tables note complete and incomplete data for each monitoring station. Field data and chemical parameters are incomplete; quarterly reports previously submitted may contain the incomplete field data.

Recommendations

Beaver Creek Coal Company must submit the available field data. Several springs (T-6, T-10, T-14, T-15, T-18,) may be scheduled to enter operational monitoring, the operator must collect the 1987 incomplete baseline data (Molybdenum, Sulfide, Amonia, Nitrite) for these springs. Recent review of Tracts I & II mine plan water monitoring schedules indicates discrepancies with the Division's Water Monitoring Guidelines. The operator must monitor for parameters and frequencies outlined in the guidelines.

JRF/as
cc: W. Malencick
Attachment
0798R/46

5/19/89

Trail Mtn Mine 1987 Annual Report Review

Nitrite & Ammonia not on list in Quart Reports
Sample Date / analysis dates
too long time betweenSurface Water
Operational Phase

Station I.D.	Field Meas.												4ly Quality (Perennial)				Comments	Key			
	J	F	M	A	M	J	J	A	S	O	N	D	J	M	A	J		J	S	O	D

SW-1 ✓✓✓✓✓✓ X X X X X X

X X X X

Oil & grease (NOU, 88-27-3-1)

SW-2 ✓✓✓✓✓✓ X X X X X X

X X X X

" " " "

SW-3 ✓✓✓✓✓✓ X X X X X X

X X X X

" " " "

Ground Water
Base line Phase

TM-1 ✓✓✓✓✓✓ X X

(Groundwater)
✓ ✓ ✓ ✓

TM-2 ✓✓✓✓✓✓ X X

✓ ✓ ✓ ✓

UG-1 ✓ ✓ X X

✓ ✓ ✓ ✓

T-6 ✓ X X X

(Springs 4 samples/annum)
X X X X X

Missing molybdenum, subfile (NOU 88-27-3-1) also Ammonia, Nitrite

T-10 ✓ X X X

X X X X X

" " " " " "

T-14 ✓ X X X

X X X X

" " " " " "

T-14A ✓ X X X

X X X X X

" " " " " "

T-15 ✓ X X X

X X X X

" " " " " "

5/9/88

Trail Mountain Mine 1987 Annual Report Review

Springs

Baseline Parameters

Station I.D.	Field Meas. J F M A M J J A S O N D	Yly Qual. (Springs 4 sampls/annum)	Comments
T-16	No Flow	No Flow	
T-18	✓ ✓ X X	X X X X	Missing molybdenum, sulfide (NDU) also Nitrite, Amonia, Total Hardness
T-21	✓ X X X	✓ ✓ ✓ ✓ ✓	Operator has analyzed for baseline parameters, operational is required
T-22	✓ X X X	✓ ✓ ✓ ✓ ✓	" " " " "
T-23	✓ X X X	✓ ✓ ✓ ✓	" " " " "

Springs
Operational Parameters

* Recommend that the operator analyze for moly, sulfide, Nitrite, Amonia during operational monitoring for springs designated to enter operational phase.



355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 13, 1988

TO: John Whitehead, Permit Supervisor

FROM: James R. Fricke, Reclamation Hydrologist *JRF*

RE: 1987 Annual Report Review, Beaver Creek Coal Company, Trail Mountain No. 9 Mine, ACT/015/009, Folder 6, Emery County, Utah

Synopsis

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Analysis

The attached tables note complete and incomplete data for each monitoring station. Field data and chemical parameters are incomplete; quarterly reports previously submitted may contain the incomplete field data.

Recommendations

Beaver Creek Coal Company must submit the available field data. Several springs (T-6, T-10, T-14, T-15, T-18,) may be scheduled to enter operational monitoring, the operator must collect the 1987 incomplete baseline data (Molybdenum, Sulfide, Amonia, Nitrite) for these springs. Recent review of Tracts I & II mine plan water monitoring schedules indicates discrepancies with the Division's Water Monitoring Guidelines. The operator must monitor for parameters and frequencies outlined in the guidelines.

JRF/as
cc: W. Malencick
Attachment
0798R/46

5/19/88

Trail Mtn Mine 1987 Annual Report Review

Nitrate & Ammonia not on this report
 Sample Date / analysis date
 too long time between

Operational Phase
 Base line
 Ground Water

Station	Field Meas.	Quality (Perennial)	Comments	Key			
I. D.	J F M A M J J A S O N D	J-M A-J J-S O-D		✓ Data Complete	X Data Incomplete		
SW-1	✓ ✓ ✓ ✓ ✓ ✓ X X X X X X	X X X X	Oil & grease (NOV, 88-273-1)				
SW-2	✓ ✓ ✓ ✓ ✓ ✓ X X X X X X	X X X X	" " " "				
SW-3	✓ ✓ ✓ ✓ ✓ ✓ X X X X X X	X X X X	" " " "				
TM-1	✓ ✓ ✓ ✓ ✓ ✓ X X	(Groundwater) ✓ ✓ ✓ ✓					
TM-2	✓ ✓ ✓ ✓ ✓ ✓ X X	✓ ✓ ✓ ✓					
UG-1	✓ ✓ X X	✓ ✓ ✓ ✓					
T-6	✓ X X X	(Springs 4 samples/annum) X X X X X	Missing molybdenum, sulfide (NOV 88-273-1) also Ammonia, Nitrite				
T-10	✓ X X X	X X X X X	" " " "				
T-14	✓ X X X	X X X X	" " " "				
T-14A	✓ X X X	X X X X X	" " " "				
T-15	✓ X X X	X X X X	" " " "				

5/19/88

Trail Mountain Mine 1987 Annual Report Review

Station I.D.	Field Meas.												Yrly Qual. (Springs 4 sampls/annum)	Comments			
	J	F	M	A	M	J	J	A	S	O	N	D					
T-16	No Flow												No Flow				
T-18	✓	✓	X	X									X	X	X	X	Missing molybdenum, sulfide (WDU) also Nitrite, Amonia, Total Hardness
T-21	✓	X	X	X									✓	✓	✓	✓	Operator has analyzed for baseline parameters, operational is required
T-22	✓	X	X	X									✓	✓	✓	✓	" " " " "
T-23	✓	X	X	X									✓	✓	✓	✓	" " " " "

* Recommend that the operator analyze for moly, sulfide, Nitrite, Amonia during operational monitoring for springs designated to enter operational phase.



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file
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April 21, 1988

TO: John Whitehead, Permit Supervisor
FROM: Pamela Grubaugh-Littig, Reclamation Engineer. *pgl*
RE: Annual Report, Beaver Creek Coal Company, Trail
Mountain #9 Mine, ACT/015/009, Folder #6, Emery
County, Utah

The annual report for the Trail Mountain #9 Mine (received March 31, 1988) is complete.

The bonding and insurance status is current and accurate. The permit stipulations were adequately addressed in the annual report.

djh
9075R/55