



**State of Utah**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
 Governor  
 Ted Stewart  
 Executive Director  
 James W. Carter  
 Division Director

1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801  
 (801) 538-5340  
 (801) 359-3940 (Fax)

December 11, 1998

To: File

Thru: Joe Helfrich, Permit Supervisor, Compliance *JH*

From: Wm. J. Malencik, Reclamation Specialist *WJM*

RE: Longwall Underground Meeting, PacifiCorp, Trail Mountain Mine, ACT/015/009, Folder #2, Emery County, Utah

Date of Meeting 12/8/98  
Length of Meeting ½ day  
Who Requested Meeting: PacifiCorp and BLM  
Where Meeting Held: Trail Mountain Mine Site  
People Present:  
 PacifiCorp: Larry LaFrentz, Tom Lloyd  
 BLM: Barry Grossley  
 USFS: Invited, but did not attend.  
 DOGM: Bill Malencik

Goal of Meeting: To confirm and validate noncoal waste items abandoned in the mine, items removed from under ground, and pending items that are needed and will be removed later.

Conclusion of Meeting: -PacifiCorp complied with their commitment on removing noncoal waste items associated with the longwall. Refer to Appendix I. Also, please refer to attachment I and II for other background information.

-It should be noted that pending items will be removed at a later date. The removal of pending items is associated with future mining of the 5th left west side longwall coal block. Mining of this block is scheduled for the year 2001.

Follow-up

DOGM: Internal - need for permit amendment under review.

sd  
 enclosures

cc: Barry Grossley, BLM, Price  
 Stan Perks, BLM, SLC  
 Carter Reed, USFS, Price  
 Chuck Semborski, PacifiCorp, Huntington  
 Larry, LaFrentz, PacifiCorp, Huntington  
 Daron Haddock, DOGM, SLC

10TH RIGHT LONGWALL SECTION EQUIPMENT LIST:

A*	B* ITEM	C* STATUS
RECOVERED	LINE POWER 2500KVA TRANSFORMER -----	RECOVER (22-152)
RECOVERED	LINE POWER LW FACE ELECTRICS -----	RECOVER (22-173)
RECOVERED	SHARFF MONRAIL -----	RECOVER
RECOVERED	48" CONVEYOR BELT -----	RECOVER
RECOVERED	48" BELT STRUCTURE -----	RECOVER
RECOVERED	DOWTY-MECO MOBILE TAILPIECE -----	RECOVER (08-679)
RECOVERED	AMERICAN LW STAGELoader -----	RECOVER (22-175)
RECOVERED	AMERICAN LW CRUSHER -----	RECOVER (22-174)
RECOVERED	SPENDRUP S/L DUST SCRUBBER -----	RECOVER
PENDING	VICTOR LIGHT FIXTURES -----	ABANDON (22-152)
RECOVERED	VICTOR POWER SUPPLIES -----	RECOVER
RECOVERED	COMTROL COMMUNICATIONS -----	RECOVER
RECOVERED	MONORAIL HYD. + H2O HOSE -----	RECOVER
RECOVERED	MONORAIL ELECTRICAL CABLE -----	RECOVER
RECOVERED	STAGELoader CHAIN/FLIGHTS -----	RECOVER
RECOVERED	UNITECK FILTER STATION -----	RECOVER
RECOVERED	TEFFENBACH DUMP VALVE -----	RECOVER
RECOVERED	HG VALVES/FITTINGS -----	RECOVER
RECOVERED	EMULSION RETURN PUMP AND SURGE TANK -----	RECOVER (22-182)
RECOVERED	SECTION EMULSION PRESSURE AND RETURN PIPE --	RECOVER
RECOVERED	SECTION H2O SUPPLY PIPE -----	RECOVER
PENDING	TG ROCKDUST PIPE -----	RECOVER
PENDING	WESTFALIA HEADGATE DRIVE FRAME + GRADIENT --	RECOVER (22-086)
RECOVERED	HG 600 HP MOTOR -----	RECOVER
RECOVERED	HG VOITH 650 FLUID COUPLING -----	RECOVER
RECOVERED	HG JAHNEL JPL-25 GEARCASE -----	RECOVER
RECOVERED	HG LWA CHAIN TENSIONER -----	RECOVER
PENDING	AFC CHAIN/FLIGHTS -----	ABANDON
RECOVERED	JOY 4LS-5 SHEARER -----	RECOVER (22-178)
RECOVERED	JOY 4LS-5 CUTTING DRUMS + COWLS -----	RECOVER
PENDING	WESTFALIA TAILGATE DRIVE FRAME -----	ABANDON (22-123)
RECOVERED	TG 600 HP MOTOR -----	RECOVER
RECOVERED	TG VOITH 650 FLUID COUPLING -----	ABANDON
RECOVERED	TG JAHNAL KPL-25 GEARCASE -----	ABANDON
RECOVERED	TG LWA CHAIN TENSIONER -----	RECOVER
PENDING	WESTFALIA AFC PANLINE SECTIONS (144 EA.) ---	ABANDON (22-147)
	CPL. W/ FACE AND GOB SIDE ACCESSORIES	
PENDING	HEMSHIEDT LW ROOF SUPPORTS (151 EA.) -----	ABANDON (21-123)
	CLP. W/ CYLINDERS, VALVES, HOSES, FITTINGS	
PENDING	MISC. ELECTRIC/COMM. CABLE & HOSE -----	ABANDON
	[AFC CABLE TRAY; SHIELD TO SHIELD; ETC.	
RECOVERED	MISC. SECTION EQUIPMENT/TOOLS AND SUPPLIES -	RECOVER

*UWA  
12/11/98*

PENDING = Recovery on completion of the 5th left west side longwall panel block!  
(August 2001)

\*A Malencik's Notes of 12/8/98

\*B, C Original Submission of 10/19/98



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September 11, 1998

To: File

Thru: Joe Helfrich, Permit Supervisor, Compliance

From: Wm. J. Malencik, Reclamation Specialist

RE: Longwall Meeting, PacifiCorp, Trail Mountain Mine, ACT/015/009, Folder #2, Emery County, Utah; IE., Information Verbalized Over the Phone, 7:30 a.m. 9/11/98

Date of Meeting September 10, 1998

Length of Meeting 8 Hours (9:00a.m.-5:00p.m.)

Who Requested Meeting: PacifiCorp through BLM

Where Meeting Held: Trail Mountain Mine Site and USFS Office

People Present:  
PacifiCorp: Larry LaFrentz, Earl Snow, Karl Polastro  
BLM: Stan Perks, Barry Grossley  
USFS: Carter Reed  
DOGM: Bill Malencik

Goal of Meeting: Determine disposition of longwall in light of September 9, 1998 final 125 foot cave-in.

Conclusion of Meeting: No decision made on disposition of the longwall (see Follow-up).

PacifiCorp would provide additional documentation to BLM on the following:

- (1) Longwall components that would remain and what would be removed.
- (2) Fluid specifications.
- (3) Photos.
- (4) Letter from MSHA regarding hazard/safety.
- (5) Letter from MTA concerning prior salvage discussion.



Longwall Meeting  
ACT/015/009  
September 11, 1998  
Page 2

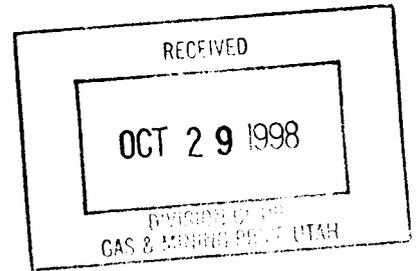
- Follow-up: Conference call among agencies 8:30 a.m., September 11, 1998 to decide on a course of action.
- Observations:
- BLM has the delegated authority by virtue of lease stipulation to act on the matter.
  - USFS has concerns on using mines for deposition of solid waste. USDA recent involvement was mentioned.
  - MSHA verbal inspectors position as reduced to writing by a PacifiCorp employee looks like MSHA has safety concerns.
  - Absent information to the contrary, I only expressed opinions and concerns on what I saw.
  - A key questions what are the similarities and dissimilarities, Cyprus vs Trail, longwall problem.

After the smoke clears, it's my perception that:

- (1) Safety reasons will ultimately override environmental concern.
- (2) Agencies, it does not appear, collectively nor individually, have hard environmental data to support a BLM decision to remove the longwall.
- (3) It being understood, at this point in time, some items of concern can be removed so long as safety is not compromised. Further delays will perhaps bring on additional cave-ins and preclude the removal of some agreed-to items. Also, a BLM removal decision, if appealed, would result in delays.
- (4) It appears to me there was concensus among attendees that a quick, moderate-quality decision would ultimately be more fruitful than a high-quality decision made untimely.

sd  
cc:

Barry Grossley, BLM, Price  
Stan Perks, BLM, SLC  
Carter Reed, USFS, Price  
Karl Polastro, PacifiCorp, Huntington  
Larry, LaFrentz, PacifiCorp, Huntington  
Earl Snow, PacifiCorp, Huntington  
Daron Haddock, DOGM, SLC



October 19, 1998

②  
11/3

Mr. Richard Manus  
District Area Manager  
Bureau of Land Management  
Moab District, Price River Resource Area  
900 North 700 East  
Price, Utah 84501

Subject: TRAIL MOUNTAIN 10TH RIGHT LONGWALL SYSTEM; TRAIL MOUNTAIN  
MINE; FEDERAL LEASE UTU-64375

re: INFORMATION REQUEST CONCERNING THE FOLLOWING:

- . GENERAL INFORMATION PACKET WITH CHRONOLOGY OF EVENTS
- . MSHA INSPECTOR ACTIVITY LOG - SEPTEMBER 9, 1998
- . UMWA SAFETY COMMITTEE LETTER - SEPTEMBER 9, 1998
- . PROPOSED EQUIPMENT AND MATERIAL RECOVERY/ABANDONMENT LISTING.
- . OVERVIEW OF REMAINING MINING FLUIDS WITH MSDS INFORMATION.
- . 10TH RIGHT FOREMAN REPORTS FROM 08/31/98 THROUGH 09/08/98.
- . LETTER FROM MTA CONCERNING EQUIPMENT SALVAGE DISCUSSIONS [LW ROOF SUPPORTS]
- . PHOTOGRAPHS - 10TH RIGHT LW FACE CAVE AREA

Mr. Manus,

PacifiCorp, by and through its wholly-owned subsidiaries, Interwest Mining Company ("Interwest") as managing agent and Energy West Mining Company ("Energy West") as mine operator hereby submits the above referenced detailed information concerning the Trail Mountain 10th Right longwall system and the approved abandonment of equipment at cross-cut #34 due to unsafe mining and geologic conditions on the longwall face.

On September 9, 1998 Energy West management withdrew the workforce from the 10th Right longwall face due to unsafe mining and geologic conditions. The unsafe conditions were present from approximately shield #97, toward the tailgate, to shield #122. The face was located just "outby" cross-cut #34, approximately 190 feet west of the planned final extraction location at cross-cut #32.

Huntington Office:  
(435) 687-9821

Fax (435) 687-2695

Purchasing Fax (435) 687-9092

Deer Creek Mine:  
(435) 687-2317  
Fax (435) 687-2285

Trail Mountain Mine:  
(435) 748-2140  
Fax (435) 748-5125

On this same date (09/09/98), Energy West held a conference call with your Price River Office [Pollastro/LaFrentz - EW; Grosley/Faulk/ Rassmussen/Tetrault - BLM] concerning the present status and existing face conditions of the Trail Mountain 10th Right longwall system. That afternoon, the local MSHA District Office conducted a site visit/ inspection of the 10th Right longwall face with company and union representatives [SEE MSHA INSPECTOR ACTIVITY LOG - SEPT. 9, 1998].

On September 10, 1998, a site visit was conducted by Energy West and applicable governmental agencies to evaluate conditions within the 10th Right section [Pollastro/ LaFrentz/ Snow - EW; Grosley/Perks - BLM; Reed - USFS; Malencik - DOGM]. This visit included a detailed discussion/explanation of existing geologic and operational conditions present on the 10th Right longwall face; a review of the chronology of events from September 4, 1998 through September 10, 1998; and, a underground site inspection of the 10th Right longwall face [from the headgate @ XC-34, to shield #97; and from the tailgate, to shield #122]. It was observed that the face had broken out approximately 15 ft. in front of the retreating shield tips within the referenced 25 shield area and a cave had been initiated approximately 10 ft. above the immediate shield horizon. Caved debris covered the panline and walkway area of the shields throughout this area. The LW face conveyor was unable to start due to the amount of caved material on the conveyor. Loose material was observed falling from the caved area onto the panline below. Course sandstone blocks were observed resting in the shield operator's walkway.

Due to the present conditions, Energy West requested approval from the governmental agencies present to cease longwall mining activity and begin recovery of the 10th Right section equipment as soon as possible. A list of all section equipment and material with proposed disposition is attached [SEE ENCLOSURE #4].

On September 11, 1998 (AM), Mr. Rassmussen and Mr. Grosley [from your Price River BLM Office called Energy West (LaFrentz) with verbal approval to recover as much of the 10th Right equipment and material as was safely possible, and approved the abandonment of the remaining equipment and material due to safety concerns.

Mr. Rassmussen said that due to the obvious safety concerns involved with continued operation of the 10th Right longwall, the government agencies all concur that abandonment is the only choice available. Mr. Rassmussen said that an environmental audit would be required of the area prior to final sealing operations. Mr. Rassmussen/Mr. Grosley also requested a listing of equipment for recovery/abandonment, an evaluation of all fluids and lubricants to be left with MSDS information and a copy of the mine foreman reports for the 10th Right section from Aug. 31, 1998 through Sept. 8, 1998 (See Attachments). Additional information was requested at the September 10, 1998 site inspection close-out and is included as attachments with this letter [SEE ENCLOSURES].

PacifiCorp/ Energy West appreciates the efforts of your staff and the other agencies involved in arriving at such a timely decision regarding this matter. It is unfortunate that such unforeseen conditions and events curtailed the 10th Right panel short of it's projected extraction point and that equipment had to be left in place. It is important that every effort be made to maximize resource recovery, but not to the point that mine personnel safety is diminished or jeopardized.

If you have any questions or require additional information, please contact Larry LaFrentz [Energy West] at (435) 687-4726.

Sincerely,



*Per:* Steven E. Kochevar, P.E.  
Mine Planning Administrator

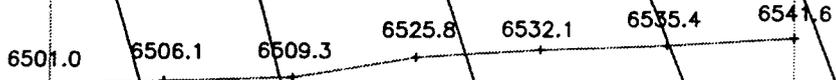
EIGHT (8) Enclosures:

- . #1 Enclosure - GENERAL INFORMATION PACKET WITH CHRONOLOGY OF EVENTS.
- . #2 Enclosure - MSHA INSPECTOR ACTIVITY LOG - SEPT. 9, 1998
- . #3 Enclosure - UMWA SAFETY COMMITTEE LETTER - SEPT. 9, 1998
- . #4 Enclosure - PROPOSED EQUIPMENT AND MATERIAL RECOVERY/ ABANDONMENT LISTING.
- . #5 Enclosure - OVERVIEW OF REMAINING MINING FLUIDS WITH MSDS INFORMATION.
- . #6 Enclosure - 10TH RIGHT FOREMAN REPORTS FROM 08/31/98 THROUGH 09/08/98.
- . #7 Enclosure - LETTER FROM MTA CONCERNING EQUIPMENT SALVAGE DISCUSSIONS [LW ROOF SUPPORTS].
- . #8 Enclosure - PHOTOGRAPHS - 10TH RIGHT LW FACE CAVE AREA

cc w/ enclosures:

Doug Koza, BLM (SLC)  
Kate Kitchell, BLM (Moab)  
Bill Malencik, DOGM (Price) ✓  
Carter Reed, USFS (Price)  
Dan Baker, Interwest  
Steve Kochevar, Interwest  
Dave Lauriski, EWMC  
Scott Child, Interwest  
Carl Pollastro, EWMC  
Earl Snow, EWMC  
Donnie Durrant, EWMC  
Ray Ferguson, EWMC  
Tom Lloyd, EWMC  
Chuck Semborski, EWMC  
L.J. LaFrentz, EWMC

Tailgate Profile



6480

6490

6500

6510

6520

6530

6540

10th Right

9/1

9/2

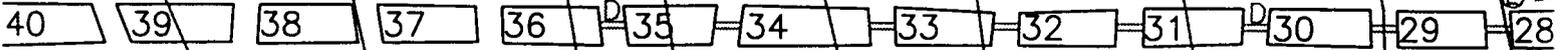
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9/4

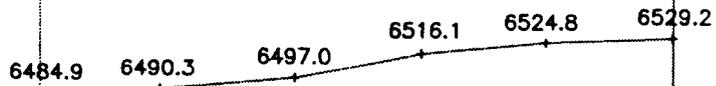
9/5

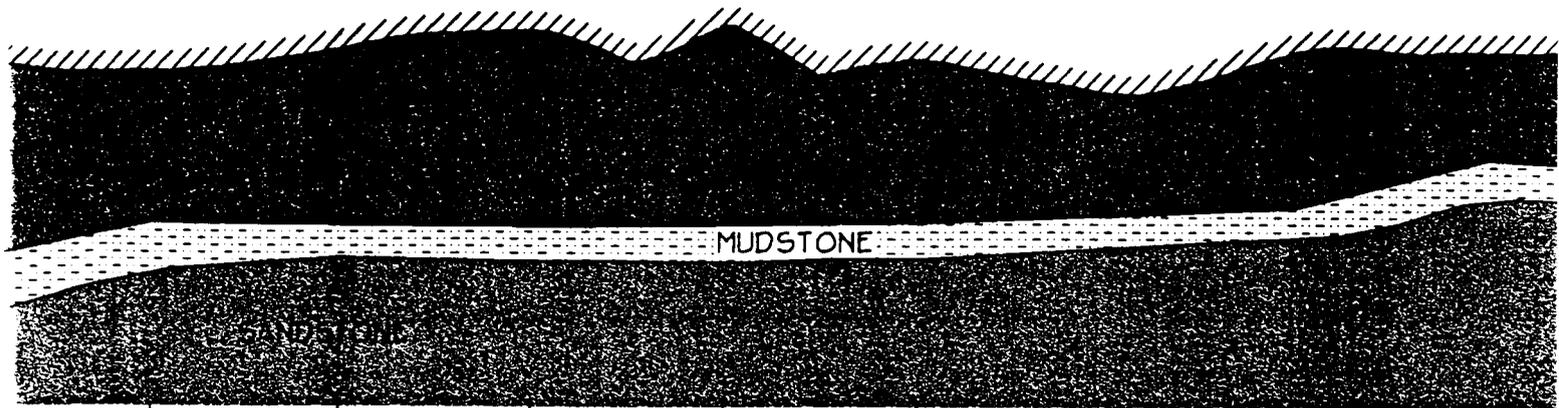
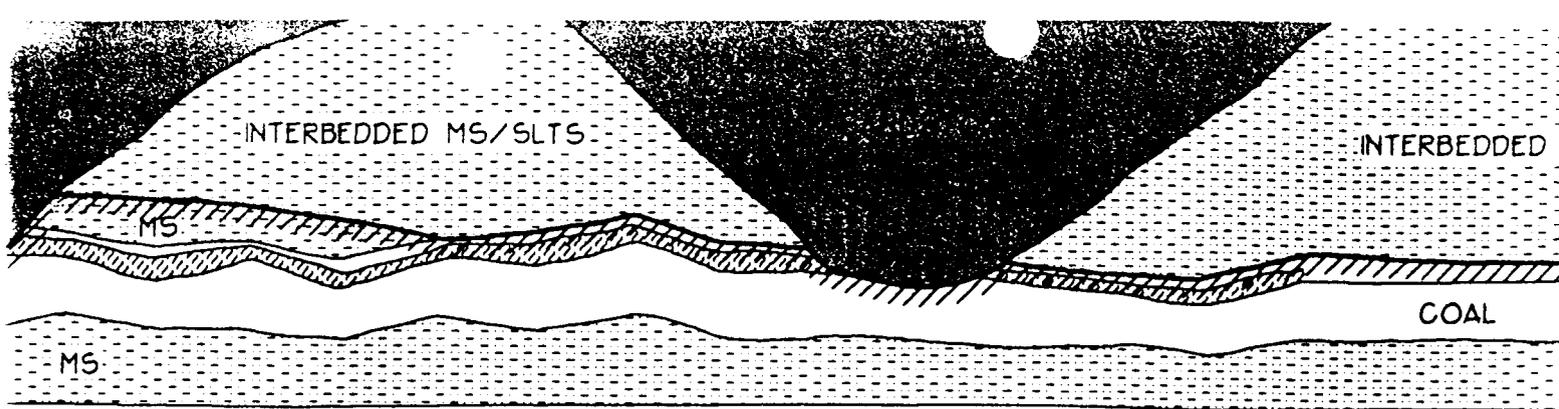
9/8

8/31

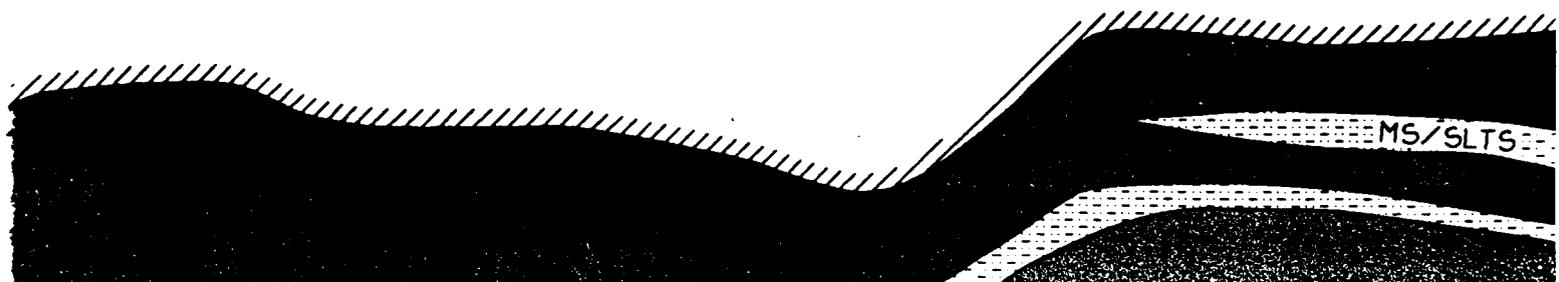
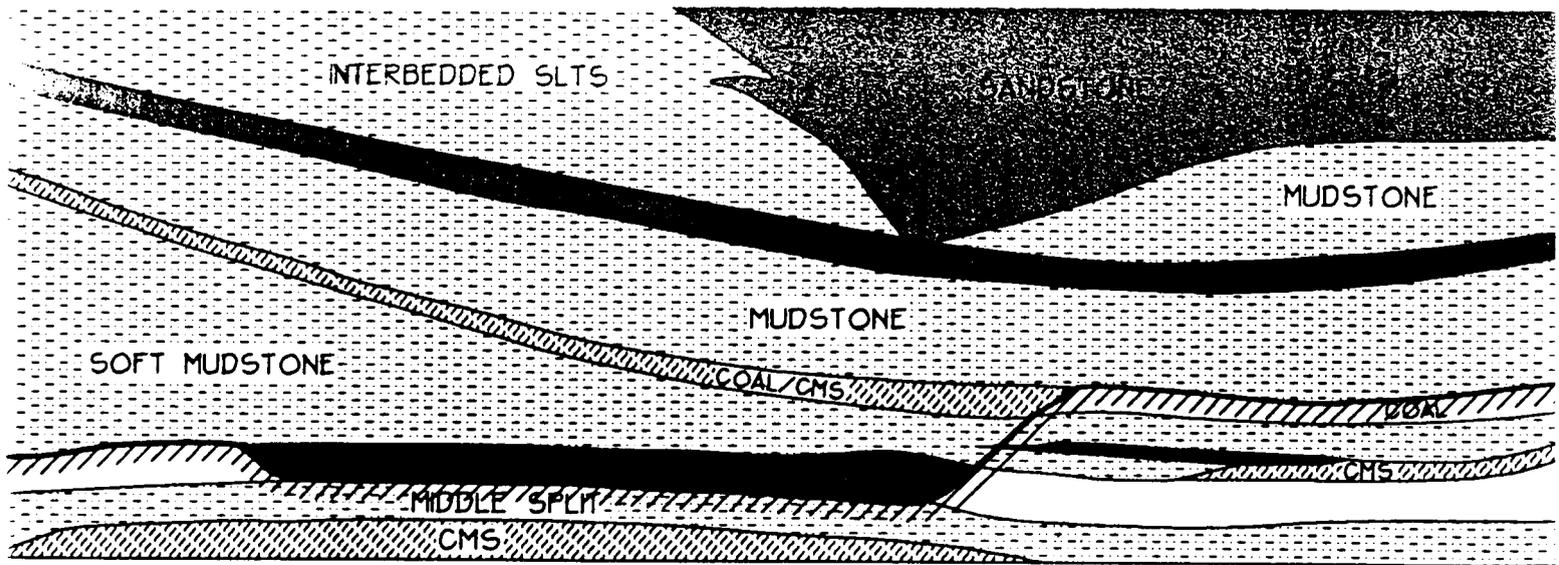


Headgate Profile

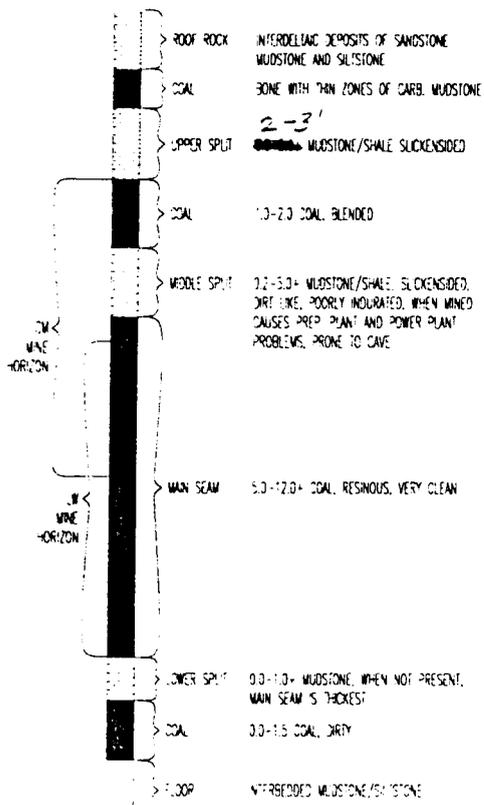




42	40	38	36	34	32	30	28
2.0	1.6	2.0	1.8	1.8	1.6	1.8	1.6
9.0		9.2		9.2		8.7	7.5
42.0	39.4	37.2	35.2	31.0	33.5	35.4	35.0



TYPICAL HAWATHA SEAM COAL SECTION  
SOUTHERN PART OF TRAIL MOUNTAIN MINE



**The following are the events from August 31, 1998 to September 9<sup>th</sup>, 1998 in the 10<sup>th</sup> Right Longwall mining section of Trail Mountain Mine. These events lead up to the current face location and conditions described. They are taken from shift reports and the accounts of the section foremen.**

**Monday, August 31**

Day: Normal production. 4,900 tons reported. 7 cuts to headgate and tailgate. Some chunks during the shift.

Afternoon: Normal production. 6,300 tons reported. 9 cuts to headgate and tailgate.

**Tuesday, September 1**

Day: Normal production. 5,950 tons reported. 8 cuts to headgate and 9 cuts to tailgate. Some chunks during shift.

Afternoon: Normal production. 7,350 tons reported. 11 cuts to headgate and 10 cuts to tailgate. Some chunks during shift.

**Wednesday, September 2**

Day: Normal production. 5,600 tons reported. 8 cuts estimated. Stage loader chain broken one side.

Afternoon: Normal production. 4,400 tons reported. Belt torn in half. Moved to 6<sup>th</sup> Right longwall.

**Thursday, September 3**

Day: Mined 6<sup>th</sup> Right longwall. Belt still down in 10<sup>th</sup> Right.

Afternoon: Tailgate started to climb hill. 4,900 tons reported. Timbered both sides of stage loader. Raised face conveyor and blocked gob side of pan from 110 to 140 shield. 7 cuts to headgate and tailgate.

**Friday, September 4**

Day: 3,150 tons reported. 4 cuts to headgate and 5 cuts to tailgate. Recutting tailgate due to chunks. Tailgate had rolls in floor, 20 to 30 feet long and half the height of face. Graded floor to maintain height.

Afternoon: 5,000 tons reported. 8:25 p.m. got first cave to sandstone, 3.5 hours face conveyor plugged due to chunks. More timber in stageloader area. Lost top from 105 to 115, buried shields.

**Saturday, September 5**

Graveyard: Clean face and unplugged face conveyor.

Day: Clean face and unplug face conveyor to 10:30 am. Broke face conveyor chain twice due to rock in the pan. Run shear, regraded floor until 5:30pm

Afternoon: Clean face and hang belt along face conveyor. Cleaned walkway and face.

**Sunday, September 6**

Idle

**Monday, September 7**

Idle

**Tuesday, September 8**

Graveyard: Face was buried from 97 to 122 and face conveyor was stalled. Worked remaining shift and in to day shift shoveling conveyor, and repairing broken conveyor chain.

Day Worked to get face conveyor, started clearing at 1:30 pm to 4:30 pm.

Afternoon Took two tapers on tailgate, regraded tail, top fell again at 8:30 pm with 3 to 4 feet of sandstone. Started cleaning, and trying to get face conveyor to run.

**Wednesday, September 9**

Graveyard: Worked on face conveyor and shoveled pan.

Day Continued cleaning until 11:00am when people were withdrwn off the face.

# INSPECTOR ACTIVITY LOG

TRAIL MOUNTAIN MINE 42-01211

DATE	INSPECTOR(S)	COMPANY REP.	MINER REP
9/9/98	Jim Martin	John C. Lewis	Bill Sherman

## INFORMATION

<b>AREA(S) TRAVELED</b>	Went to 10th Right longwall and traveled to shield #96 where the face had caved up to 16 ft. in height. Travelled down the 9th right gateroad (10th Right tailgate). Observed the caved area from the other side. Noted that the area of concern extended from #96 to approximately #106. Inspected the 5th Left seals and traveled up the 5th Left Eastern return inspecting the 2nd East seals and 1st East seals.
<b>EQUIPMENT CHECKED</b>	
<b>VIOLATIONS ISSUED (By Violation #)</b>	None
<b>COMMENTS:</b> Inspector commented that he believed it would not be in the best interest of the company to continue mining with the longwall given the current circumstances. Inspector expressed his concern that there was a great probability for serious injury to longwall personnel. He indicated that there was no reason for MSHA to get involved at this time and that it was up to the company and other relevant governmental agencies to decide the proper course of action. However, in his opinion he the safest option is to leave the shields behind.	

## PARAMETERS CHECKED

Location	Velocity (fpm)	Methane(%)	Oxygen (%)	CO (ppm)
LW headgate	335	0.0	21.0	3

September 9, 1998

To All Parties, (Agencies or Individuals) Concerned

RE: Extraction of 10th Right Longwall  
Trail Mountain Mine  
Energy West Mining Company

Dear Sir(s):

The intent of this letter is to express the safety concerns that were encountered during my personal inspection of 10th right longwall on 9-9-98.

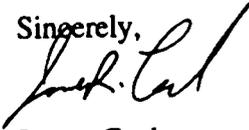
Energy West was attempting to mine this longwall to 32 x-cut in order to have the safest and most practical area for it's extraction. About 190 feet from x-cut 32 extremely adverse conditions have been encountered, the roof has caved above the shields approximately 5 to 7 feet for 10 shields. The company has been trying to advance this longwall in these conditions since 9-4-98, but due to the amount and massiveness of the rock falling it has only moved about 3 to 6 feet.

Due to the exposure of personnel to extremely hazardous conditions the company withdrew all persons from this face at approximately 10:30 a.m. on 9-9-98. After my inspection and findings of this area, it is my decision to support Mine Management and leave this longwall where it sits. I will not agree to allow any represented employee to jeopardize his safety in any attempts to advance this longwall any further. Equipment that can be removed safely should be removed but the safety of the employee takes precedence above all else.

I would like to stress the point that anything done in an attempt to remove the shields or panline will certainly place employees in harms way.

If there are any questions, please contact me.

Sincerely,



James Ceal  
Safety Committee Chairman  
UMWA Local 2176  
United Mine Workers of America

10TH RIGHT LONGWALL SECTION EQUIPMENT LIST:

ITEM	STATUS
. LINE POWER 2500KVA TRANSFORMER -----	RECOVER (22-152)
. LINE POWER LW FACE ELECTRICS -----	RECOVER (22-173)
. SHARFF MONRAIL -----	RECOVER
. 48" CONVEYOR BELT -----	RECOVER
. 48" BELT STRUCTURE -----	RECOVER
. DOWTY-MECO MOBILE TAILPIECE -----	RECOVER (08-679)
. AMERICAN LW STAGELoader -----	RECOVER (22-175)
. AMERICAN LW CRUSHER -----	RECOVER (22-174)
. SPENDRUP S/L DUST SCRUBBER -----	RECOVER
. VICTOR LIGHT FIXTURES -----	ABANDON (22-152)
. VICTOR POWER SUPPLIES -----	RECOVER
. CONTROL COMMUNICATIONS -----	RECOVER
. MONORAIL HYD. + H2O HOSE -----	RECOVER
. MONORAIL ELECTRICAL CABLE -----	RECOVER
. STAGELoader CHAIN/FLIGHTS -----	RECOVER
. UNITECK FILTER STATION -----	RECOVER
. TEFFENBACH DUMP VALVE -----	RECOVER
. HG VALVES/FITTINGS -----	RECOVER
. EMULSION RETURN PUMP AND SURGE TANK -----	RECOVER (22-182)
. SECTION EMULSION PRESSURE AND RETURN PIPE --	RECOVER
. SECTION H2O SUPPLY PIPE -----	RECOVER
. TG ROCKDUST PIPE -----	RECOVER
. WESTFALIA HEADGATE DRIVE FRAME + GRADIENT --	RECOVER (22-086)
. HG 600 HP MOTOR -----	RECOVER
. HG VOITH 650 FLUID COUPLING -----	RECOVER
. HG JAHNEL JPL-25 GEARCASE -----	RECOVER
. HG LWA CHAIN TENSIONER -----	RECOVER
. AFC CHAIN/FLIGHTS -----	ABANDON
. JOY 4LS-5 SHEARER -----	RECOVER (22-178)
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. CLP. W/ CYLINDERS, VALVES, HOSES, FITTINGS	
. MISC. ELECTRIC/COMM. CABLE & HOSE -----	ABANDON
. [AFC CABLE TRAY; SHIELD TO SHIELD; ETC.	
. MISC. SECTION EQUIPMENT/TOOLS AND SUPPLIES -	RECOVER

FLUIDS:

- . EMULSION FLUID:  
[ @ 95:5 MIX RATIO; WATER TO OIL ] - CENTURY  
SOLCINIC 3B: ESTIMATED @ 40 GAL/SUPPORT X 151 SUPPORTS  
= 6040 GAL. + 1000 GAL. (HOSE VOLUME) = 7040 GAL. ABANDON  
(SEE ATTACHED MSDS SHEETS)
  
- . GEAR OIL:  
[TG JAHNAL KPL-25 GEARCASE] - CENTURY POWERGEAR 320 OIL;  
EST. @ 25 GAL. ABANDON  
(SEE ATTACHED MSDS SHEETS)
  
- . ATF FLUID:  
[TG VOITH 650 FLUID COUPLING] - STD. HYD. ATF FLUID  
EST. @ 15 GAL. ABANDON  
(SEE ATTACHED MSDS SHEETS)
  
- . GREASE  
[SPROCKETS, GEARBOX, ETC.] - STD. LITHIUM BASE LUBRICANT  
(SEE ATTACHED MSDS SHEETS)

PACIFICORP  
MATERIAL SAFETY DATA SHEET

07/27/95

PRODUCT: POWERGEAR SERIES 

MANUFACTURER:  
CENTURY LUBRICATING OILS  
MSDS: 12187

GENERAL INFORMATION

PRODUCT: POWERGEAR SERIES

MANUFACTURER: CENTURY LUBRICANTS CO.  
2140 S. 88TH ST.  
KANSAS CITY, KS 66111-8701

EMERGENCY - CHEMTREC: 800-424-9300

BUSINESS: 800-800-6457

REVISION DATE: December 15, 1988 (AD HPC 9) 3612XX

A MEMBER OF THE FUCHS GROUP

UNK Means Unknown EST Means Estimated N.A. Means Not Applicable

HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	TLV, TWA, PEL	IARC, NTP, OSHA
Mineral Oil	TLV 5mg/M (Mist)	Not listed
Extreme pressure additive	No TLV established	Not listed

PHYSICAL DATA

SOLUBILITY IN WATER (@ 20 C) : NEGLIGIBLE

VAPOR DENSITY (AIR) : >1.0  
STRONG ACID: NO  
STRONG BASE: NO

SPECIFIC GRAVITY (WATER=1) : <1.0

VAPOR PRESSURE (MM HG @ 20 C): <0.1

EVAPORATION RATE (ETHER = 1) : <0.01

PERCENT VOLATILE (BY WEIGHT) : ZERO

BOILING POINT (DEG F) : +600 F

MELTING POINT (DEG F) : N.A.

APPEARANCE AND ODOR : AMBER LIQUID, MILD PETROLEUM ODOR

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): 450 F COC EST

FLAMMABILITY LIMITS: LEL - UNK UEL - UNK

EXTINGUISHING AGENTS: DRY CHEMICAL CO2 FOAM

SPECIAL FIRE FIGHTING PROCEDURES: AVOID BREATHING VAPORS. USE BREATHING APPARATUS IN CONFINED AREAS. COOL EXPOSED CONTAINERS WITH WATERSPRAY.

HAZARDOUS THERMAL DECOMPOSITION PRODUCT: CARBON MONOXIDE, CARBON DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS.

HEALTH HAZARD DATA & FIRST AID

PERMISSIBLE CONCENTRATIONS (AIR): NONE ESTABLISHED

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
-------	------------------------	-------------------------------

EYES	CAN CAUSE IRRITATION	FLUSH WITH WATER. SEE PHYSICIAN
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SKIN	CAN CAUSE IRRITATION	WASH WITH SOAP & WATER. IF HIGH PRESSURE, GET IMMEDIATE MEDICAL ATTENTION.
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INHALATION	MIST MAY CAUSE IRRITATION	REMOVE FROM CONTAMINATED AREA
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INGESTION	NONE EXPECTED	
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REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY: KEEP AWAY FROM STRONG OXIDIZERS

NOTE: HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SPILL OR LEAK PROCEDURES

STEPS TO TAKE IN CASE OF SPILL: Add absorbent to spill area. Keep petroleum products out of sewers and waterways. Advise authorities if they do enter.

WASTE DISPOSAL: Dispose of at appropriate waste facility in accordance with regulations.

PRECAUTIONS IN STORAGE: Keep containers closed when not in use. Do not handle near heat, flames, sparks. Do not weld or heat empty containers.

SPECIAL PROTECTION INFORMATION

RESPIRATION PROTECTION: None normally needed.

VENTILATION TYPE: General adequate. Use local mechanical to insure TLV;s not surpassed where applicable.

SKIN PROTECTION: Chemically resistant gloves.

EYE PROTECTION: Goggles or faceshield.

OTHER PROTECTIVE MEASURES: None normally needed.

DISCLAIMER

The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from the use thereof.

CENTURY LUBRICANTS CO.



MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

PRODUCT: SOLCENIC 3B EMULSION  
MADE WITH DEIONIZED WATER

SECTION I

MANUFACTURER : CENTURY LUBRICATING OILS, INC. TELEPHONE : 800-255-4107  
ADDRESS : 2140 S. 88TH ST. CHEM TREC : 800-424-9300  
KANSAS CITY, KS 66111-8701  
REVISION DATE: 1/25/93 HPC - 11 DOC:114 PREPARED BY : M.D. HART

SECTION II CHEMICAL AND PHYSICAL PROPERTIES

SOLUBILITY IN WATER (@ 20 C): VERY VAPOR DENSITY (AIR): > 1.0  
SPECIFIC GRAVITY (WATER-1): < 1.0 STRONG ACID : NO  
VAPOR PRESSURE (mmHg @ 20 C): > 1.0 STRONG BASE : NO  
EVAPORATION RATE (ether - 1): < 0.01 BOILING POINT (DEG F): 212 F  
PERCENT VOLATILE (by weight): 98 MELTING POINT (DEG F): N.A.

APPEARANCE AND ODOR : CLEAR LIQUID, BLAND ODOR

SECTION III REACTIVITY DATA

STABILITY : STABLE INCOMPATIBILITY : KEEP AWAY FROM STRONG OXIDIZERS

NOTE : HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD) : N/A FLAMMABLE LIMITS-LEL: UNK UEL: UNK

EXTINGUISHING AGENTS : DRYCHEMICAL(X) CO2 (X) WATERSPRAY (X) FOAM (X)

SPECIAL FIRE FIGHTING: Avoid breathing vapors. Use breathing apparatus in  
PROCEDURES confined areas. Cool exposed containers with waterspray

HAZARDOUS THERMAL : Carbon monoxide, carbon dioxide and unidentified  
DECOMPOSITION PRODUCT organic compounds.

SECTION V PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO TAKE IN : Add absorbent to spill area. Keep petroleum products out of  
CASE OF SPILL sewers and waterways. Advise authorities if they do enter.

WASTE DISPOSAL : Dispose of at appropriate waste facility in accordance with  
METHOD regulations.

PRECAUTIONS IN : Keep containers closed when not in use. Do not handle near  
STORAGE heat, flames, sparks. Do not weld or heat empty containers.

## SECTION VI

## HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS (AIR) : None established

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
EYES	NONE EXPECTED	FLUSH WITH WATER. SEE PHYSICIAN
SKIN	PROLONGED OR REPEATED CONTACT MAY CAUSE MILD IRRITATION	WASH WITH SOAP AND WATER. IF HIGH PRESSURE, GET IMMEDIATE MEDICAL ATTENTION.
INHALATION	MIST MAY CAUSE IRRITATION	REMOVE FROM CONTAMINATED AREA
INGESTION	NONE EXPECTED	

CHRONIC : NONE EXPECTED WITH NORMAL EXPOSURE

HAZARDOUS INGREDIENTS	TLV, TWA, PEL	IARC, NTP, OSHA
MINERAL OIL	TLV 5mg/M (MIST)	NOT LISTED
ORGANIC ACID SALT	NONE ESTABLISHED	NTP LISTED

## SECTION VII

## CONTROL MEASURES

RESPIRATION PROTECTION : NONE NORMALLY NEEDED

VENTILATION TYPE : GENERAL ADEQUATE. USE LOCAL MECHANICAL TO INSURE TLV'S  
NOT SURPASSED WHERE APPLICABLE.

SKIN PROTECTION : CHEMICALLY RESISTANT DESIRABLE EYE PROTECTION : GOGGLES OR FACESHIELD  
DESIRABLE

OTHER PROTECTIVE MEASURES : NONE NORMALLY NEEDED

## SECTION VIII

## MISCELLANEOUS

UNK MEANS UNKNOWN  
EST MEANS ESTIMATED  
N.A. MEANS NOT APPLICABLE

The hazard evaluation of this Century product is based on a formulation using deionized water.

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## CENTURY LUBRICANTS CO.


 MATERIAL  
 SAFETY  
 DATA  
 SHEET

## MATERIAL SAFETY DATA SHEET

PRODUCT: SOLCENIC 3B

## SECTION I

MANUFACTURER : CENTURY LUBRICATING OILS, INC. TELEPHONE : 800-255-4107  
 ADDRESS : 2140 S. 88TH ST. CHEM TREC : 800-424-9300  
 KANSAS CITY, KS 66111-8701  
 REVISION DATE: 6/1/90 (442350-AA) DOC:113 PREPARED BY : M.D. HART

## SECTION II CHEMICAL AND PHYSICAL PROPERTIES

SOLUBILITY IN WATER (@ 20 C):	VERY	VAPOR DENSITY (AIR):	> 1.0
SPECIFIC GRAVITY (WATER=1):	> 1.0	STRONG ACID :	NO
VAPOR PRESSURE (mmHg @ 20 C):	< 0.1	STRONG BASE :	NO
EVAPORATION RATE (ether = 1):	< 0.01	BOILING POINT (DEG F):	IBP 212 F
PERCENT VOLATILE (by weight):	> 61	MELTING POINT (DEG F):	N.A.

APPEARANCE AND ODOR : AMBER LIQUID, MILD PETROLEUM ODOR

## SECTION III REACTIVITY DATA

STABILITY : STABLE INCOMPATIBILITY : KEEP AWAY FROM STRONG OXIDIZERS

NOTE : HAZARDOUS POLYMERIZATION WILL NOT OCCUR

## SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD) : N.A. FLAMMABLE LIMITS-LEL: UNK UEL: UNK

EXTINGUISHING AGENTS : DRYCHEMICAL(X) CO2 (X) WATERSPRAY ( ) FOAM (X)

SPECIAL FIRE FIGHTING: Avoid breathing vapors. Use breathing apparatus in  
PROCEDURES confined areas. Cool exposed containers with watersprayHAZARDOUS THERMAL : Carbon monoxide, carbon dioxide, nitrogen oxide and  
DECOMPOSITION PRODUCT unidentified organic compounds.

## SECTION V PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO TAKE IN : Add absorbent to spill area. Keep petroleum products out of  
CASE OF SPILL sewers and waterways. Advise authorities if they do enter.WASTE DISPOSAL : Dispose of at appropriate waste facility in accordance with  
METHOD regulations.PRECAUTIONS IN : Keep containers closed when not in use. Do not handle near  
STORAGE heat, flames, sparks. Do not weld or heat empty containers.

## SECTION VI

## HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS (AIR) : None established for product

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
EYES	: MAY BE CORROSIVE	: FLUSH WITH WATER. SEE PHYSICIAN
SKIN	: MAY CAUSE IRRITATION AND ALLERGIC SENSITIZATION IN SOME INDIVIDUALS.	: WASH WITH SOAP AND WATER. IF HIGH PRESSURE HAS CAUSED PENETRATION BENEATH SKIN SEEK IMMEDIATE MEDICAL ATTENTION.
INHALATION	: MISTS CAN CAUSE IRRITATION	
INGESTION	: MAYBE HARMFUL OR FATAL IF SWALLOWED CAUSING TREMORS, DIZZINESS, VOMITING AND NAUSEA.	: IF CONSCIOUS, GIVE 2 GLASSES OF MILK. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

CHRONIC : NONE EXPECTED WITH NORMAL EXPOSURE

HAZARDOUS INGREDIENTS	TLV, TWA, PEL	IARC, NTP, OSHA
TRIAZINE COMPOUND	NONE ESTABLISHED	NOT LISTED
MINERAL OIL	TLV 5mg/M (MIST)	NOT LISTED
ORGANIC ACID SALT	NONE ESTABLISHED	NTP LISTED
ORGANIC AMIDE	NONE ESTABLISHED	NOT LISTED
ALKYL AMINES	TWA 3 ppm 8-Hr	NOT LISTED
FATTY ACID	NONE ESTABLISHED	NOT LISTED

## SECTION VII

## CONTROL MEASURES

RESPIRATION PROTECTION : NONE NORMALLY NEEDED

VENTILATION TYPE : GENERAL ADEQUATE. USE LOCAL MECHANICAL TO INSURE TLV'S NOT SURPASSED WHERE APPLICABLE.

SKIN PROTECTION : CHEMICALLY RESISTANT GLOVES      EYE PROTECTION : GLASSES WITH SHIELD, GOGGLES OR FACESHIELD

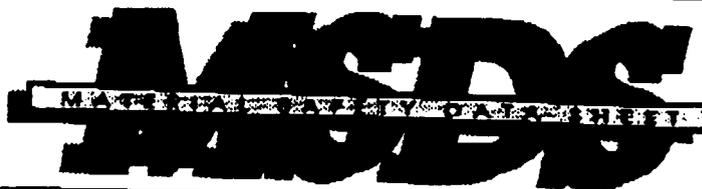
OTHER PROTECTIVE MEASURES : WASH HANDS BEFORE EATING OR SMOKING

## SECTION VIII

## MISCELLANEOUS

UNK MEANS UNKNOWN  
EST MEANS ESTIMATED  
N.A. MEANS NOT APPLICABLE

The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from the use thereof.



GREP0298

Revised 25-JUN-1997

Printed 21-APR-1998

## TACNA Rx RED MULTIPURPOSE GREASE, NO. 2

### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### Material Identification

"TACNA" is a registered trademark of Conoco.

#### Tradenames and Synonyms

9440 - Conoco Base Code

#### Company Identification

##### MANUFACTURER/DISTRIBUTOR

Conoco, Inc.  
P.O. Box 2197  
Houston, TX 77252

#### PHONE NUMBERS

Product Information	1-281-293-5550
Transport Emergency	CHEMTREC 1-800-424-9300
Medical Emergency	1-800-441-3637

### COMPOSITION/INFORMATION ON INGREDIENTS

#### # Components

Material	CAS Number	%
Highly-Refined Base Oils		80-100
Lithium soaps		5-20
*Zinc compound	68649-42-3	0-1
Proprietary additives		1-5

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

(Continued)

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## HAZARDS IDENTIFICATION

### # Potential Health Effects

#

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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## FIRST AID MEASURES

### First Aid INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### SKIN CONTACT

Wipe off excess with towel. Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

If injected under the skin, necrosis could occur. See physician.

### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

### INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

### Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

High velocity injection under the skin can cause a bloodless puncture wound and result in necrosis. Immediate attention by a surgical specialist is recommended.

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(Continued)

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## **FIRE FIGHTING MEASURES**

### **Flammable Properties**

Flash Point 450 F (232 C) (Base Oil)  
Method Cleveland Open Cup - COC.

### **Extinguishing Media**

Water Spray, Foam, Dry Chemical, CO2.

Water spray may spread fire.

### **Fire Fighting Instructions**

Cool tank/container with water spray.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

---

## **ACCIDENTAL RELEASE MEASURES**

### **Safeguards (Personnel)**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

### **Spill Clean Up**

Recover undamaged and minimally contaminated material for reuse and reclamation. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

---

## **HANDLING AND STORAGE**

### **Handling (Personnel)**

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

### **Handling (Physical Aspects)**

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

### **Storage**

Store below 120 F (49 C). Store in accordance with National Fire Protection Association recommendations. Store away from oxidizers. Store in a clean, dry place.

(Continued)

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls

Keep container tightly closed.

Normal ventilation.

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### Personal Protective Equipment

Respiratory Protection: None required except under unusual circumstances such as described under Fire Fighting Measures.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Precautions: Avoid prolonged skin contact by practicing good personal hygiene and laundering contaminated clothing.

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### Exposure Guidelines

#### Exposure Limits

TACNA Rx RED MULTIPURPOSE GREASE, NO. 2	
PEL (OSHA)	None Established
TLV (ACGIH)	None Established

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## PHYSICAL AND CHEMICAL PROPERTIES

### Physical Data

Boiling Point	Not Applicable
Vapor Pressure	<0.01 mm Hg
Vapor Density	>1 (Air = 1)
Evaporation Rate	<1 (Butyl Acetate = 1)
Odor	Petroleum (mild).
Form	Semi-solid (Grease)
Color	Red
Specific Gravity	0.93 (Water=1.0)
Density	7.5 lb/gal

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## STABILITY AND REACTIVITY

### Chemical Stability

Stable.

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### Conditions to Avoid

Heat, sparks, and flames.

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### Incompatibility with Other Materials

Incompatible with strong oxidizing materials, acids.

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### Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

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### Polymerization

Polymerization will not occur.

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(Continued)

**TOXICOLOGICAL INFORMATION**

**Animal Data**

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

**ECOLOGICAL INFORMATION**

**Ecotoxicological Information**

No specific aquatic data available for this product.

**DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

**Container Disposal**

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

**TRANSPORTATION INFORMATION**

**Shipping Information**

DOT  
Not regulated.

ICAO/IMO  
Not restricted.

**Shipping Information -- Canada**

This material is Not Regulated.

**REGULATORY INFORMATION**

**# U.S. Federal Regulations**

**OSHA HAZARD DETERMINATION**

This material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

(Continued)

**REGULATORY INFORMATION**(Continued)

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

SARA, TITLE III, 313

This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical(s)                      Zinc Compound

TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon or discoloration of any water surface

# State Regulations (U.S.)

CALIFORNIA "PROP 65"

The material contains ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

Ingredient	Arsenic	@ <0.01%
Ingredient	Cadmium	@ <0.01%
Ingredient	Ethyl acrylate	@ <0.01%

(Continued)



CONOCO -- DEXRON II AND MERCON - HYDRAULIC FLUID,AUTOMATIC TRANSMISSION  
MATERIAL SAFETY DATA SHEET  
NSN: 9150006574959  
Manufacturer's CAGE: 5R396  
Part No. Indicator: A  
Part Number/Trade Name: DEXRON II AND MERCON

=====  
General Information  
=====

Item Name: HYDRAULIC FLUID,AUTOMATIC TRANSMISSION  
Company's Name: CONOCO INC  
Company's P. O. Box: 2197  
Company's City: HOUSTON  
Company's State: TX  
Company's Country: US  
Company's Zip Code: 77252  
Company's Emerg Ph #: 800-424-9300/441-3637  
Company's Info Ph #: 713-293-5550  
Distributor/Vendor # 1: AIM CHEMICALS INC (713-529-4251)  
Distributor/Vendor # 1 Cage: 0AR58  
Record No. For Safety Entry: 024  
Tot Safety Entries This Stk#: 039  
Status: SE  
Date MSDS Prepared: 01APR89  
Safety Data Review Date: 17JAN95  
Supply Item Manager: CX  
MSDS Preparer's Name: ENVIRO & OCCUP HEALTH SRV  
Preparer's Company: CONOCO INC. (713-293-5550)  
Preparer's St Or P. O. Box: (MSDS CODE:ATFC0039)  
MSDS Serial Number: BWDXC  
Specification Number: DEXRON II  
Hazard Characteristic Code: N1  
Unit Of Issue: CN  
Unit Of Issue Container Qty: 5 GALLONS  
Type Of Container: CAN  
Net Unit Weight: 36.3 LBS

=====  
Ingredients/Identity Information  
=====

Proprietary: NO  
Ingredient: PER MSDS:MATL NOT HAZ AS DEFINED BY OSHA HAZ COMMUN STD,  
20CFR1910.1200.  
Ingredient Sequence Number: 01  
Percent: 100  
NIOSH (RTECS) Number: 9999999ZZ  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED

=====  
Physical/Chemical Characteristics  
=====

Appearance And Odor: CLEAR RED LIQUID, MILD PETROLEUM HYDROCARBON ODOR.  
Boiling Point: 650F,343C  
Vapor Density (Air=1): >1  
Specific Gravity: 0.87  
Evaporation Rate And Ref: NIL, REF=UNK  
Solubility In Water: INSOLUBLE  
Percent Volatiles By Volume: NIL  
Autoignition Temperature: 650F

=====  
Fire and Explosion Hazard Data  
=====

Flash Point: 325F,163C  
Flash Point Method: PMCC  
Extinguishing Media: USE WATER SPRAY, DRY CHEMICAL, CO2, FOAM.  
Special Fire Fighting Proc: WATER/FOAM MAY CAUSE FROTHING.USE WATER TO  
KEEP FIRE-EXPO CNTNRS COOL.WATERSPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM  
EXPOSURES.  
Unusual Fire And Expl Hazrds: PROD OF COMBUST MAY CONTAIN CARBON MONOXIDE,

CARBON DIOXIDE & OTHER TOXIC MATLS.DO NOT ENTER ENCLOSED/CONFINED SPACE W/O  
PROPER PORT EQPMT INCLUDING RESP PROT.

=====  
Reactivity Data  
=====

Stability: YES  
Cond To Avoid (Stability): HEAT AND FLAME.  
Materials To Avoid: STRONG OXIDIZING MATERIALS.  
Hazardous Decomp Products: HAZ GASES/VAPORS PRODUCED ARE CARBON DIOXIDE.  
INCOMPLETE COMBUSTION MAY PRODUCE CARBON MONOXIDE.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT APPLICABLE

=====  
Health Hazard Data  
=====

LD50-LC50 Mixture: NONE ESTABLISHED  
Route Of Entry - Inhalation: NO  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: PRODUCT DOES NOT POSE SIGNIFICANT HEALTH HAZ  
BUT AS WITH MANY PETROLEUM PRODUCTS POOR HYGIENIC PRACTICES OR INADEQUATE  
ENGINEERING DESIGN THAT ALLOW PROLONGED/REPEATED EXPOSURE MAY CAUSE MINOR  
SKIN IRRIT.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: PER MSDS:LISTED AS CARCINOGEN OR POTENTIAL  
CARCINOGEN BY:NTP/IARC/OSHA:NO.  
Signs/Symptoms Of Overexp: MOUSE SKIN PAINTING SUTDIES HAVE SHOWN THAT  
HIGHLY SOLVENT-REFINED PETROLEUM DISTILLATES SIMILAR TO INGRED IN THIS  
PRODUCT HAVE NOT CAUSED SKIN TUMORS.  
Med Cond Aggravated By Exp: NONE SPECIFIED BY MFG.  
Emergency/First Aid Proc: EYE:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST  
15MINS.CALL DR.SKIN:COMPOUND NOT LIKELY TO BE HAZ BY SKIN CONTACT BUT  
CLEANSING SKIN AFT USE IS ADVISABLE.INHAL:NO SPECIFIC INTERVENTION IS  
INDICATED AS COMPOUND NOT LIKELY TO BE HAZ BY INHAL.HOWEVER CONSULT DR IF  
NECESSARY.INGEST:DO NOT INDUCE VOMIT.GIVE LG QUANT OF WATER.CALL DR.NOTE TO  
DR:GASTRIC LAVAGE BY QUALIFIED PERSON DEPENDING ON AMT INGESTED.

=====  
Precautions for Safe Handling and Use  
=====

Steps If Matl Released/Spill: CONTAIN IMMED.RECOVER BY VACUUMING FOLLOWED  
BY RECOVERING RESIDUAL FLUIDS W/ABSORBENT MATL.NON-RECOVERABLE PROD,  
CONTAMIN SOIL/DEBRIS,OTHER MATL SHOULD BE PLACED IN PROPER CNTNR FOR  
ULTIMATE DISPOSAL.AVOID WASHING,DRAINING,DIRECTING MATL TO STORM/SEW  
Neutralizing Agent: NONE SPECIFIED BY MFG  
Waste Disposal Method: RECYCLE AS MUCH OF RECOVERABLE PROD AS POSSIBLE.  
TREAT/STORAGE/TRANSP/DISPOSAL MUST BE IAW APPLIABLE FED/STATE/PROVINCIAL/  
LOC REGS.MATL CONTAINS PETROLEUM HYDROCARBON-CONSIDERED HAZ IF SPILLED IN  
NAVIGABLE WATERS.RQ=FILM/SHEEN UPON/DISCOLOR OF H2O SUR  
Precautions-Handling/Storing: HANDLE & STORE IN ACCORDANCE WITH NFPA  
PROCEDURE FOR CLASS IIIB COMBUSTIBLE LIQUID.  
Other Precautions: NORMAL PRECAUTIONS FOR HANDLING HOT, MOLTEN LIQUID OR  
SOLUTIONS.

=====  
Control Measures  
=====

Respiratory Protection: NONE NORMALLY REQUIRED EXCEPT UNDER UNUSUAL  
CIRCUMSTANCES SUCH AS DESCRIBED IN FIRE/EXPLOSION HAZARD DATA SECTION.  
Ventilation: NORMAL SHOP VENTILATION.  
Protective Gloves: RUBBER OR PVC GLOVES.  
Eye Protection: SAFETY GLASSES W/SIDESHIELDS,CHEM GOGG  
Other Protective Equipment: NONE SPECIFIED BY MFG.  
Work Hygienic Practices: AVOID CONTACT W/EYES,SKIN,CLOTHING. WASH HANDS  
AFTER HANDLING.

=====  
Transportation Data  
=====

Trans Data Review Date: 95017

DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
AFI PSN Code: ZZZ  
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====  
Disposal Data  
=====

=====  
Label Data  
=====

Label Required: YES  
Technical Review Date: 17JAN95  
Label Status: F  
Common Name: DEXRON II AND MERCON  
Chronic Hazard: NO  
Signal Word: CAUTION!  
Acute Health Hazard-Slight: X  
Contact Hazard-Slight: X  
Fire Hazard-None: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: PROD DOES NOT POSE SIG HEALTH HAZ BUT AS W/  
MANY PETROLEUM PROD POOR HYGIENIC PRACT/INADEQUATE ENGINEERING DESING THAT  
ALLOW PROLONGED/REPEATED EXPOSURE MAY CAUSE MINOR SKIN IRRIT. HANDLE &  
STORE IAW NFPA PROCEDURE FOR CLASS IIIIB COMBUST LIQ. TARGET ORGANS:SKIN.  
1ST AID:EYE:IMMED FLUSH W/LOTS OF WATER FOR @LEAST 15MINS.CALL DR.SKIN:CMPD  
NOT LIKELY TO BE HAZ BY SKIN CONTACT BUT CLEANSING SKIN AFT USE IS  
ADVISABLE.INHAL:NO SPECIFIC INTERVENTION IS INDICATED AS CMPD NOT LIKELY TO  
BE HAZ BY INHAL.HOWEVER CONSULT DR IF NECESSARY.INGEST:DO NOT INDUCE VOMIT.  
GIVE LG AMTS OF WATER.CALL DR.NOTE TO DR:GASTRIC LAVAGE BY QUAL PERSON  
DEPENDING ON AMT INGESTED  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: CONOCO INC  
Label P.O. Box: 2197  
Label City: HOUSTON  
Label State: TX  
Label Zip Code: 77252  
Label Country: US  
Label Emergency Number: 800-424-9300/441-3637





UTAH POWER & LIGHT COMPANY - MINING DIVISION  
 LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trail Mountain Section 10<sup>th</sup>R Foreman Lobato  
 Location  Section No. 00 Date 8 / 31 / 98 Day Monday  
 Foreman's Employee Number 98899 No. of Men 18 Tons Loaded 4900  
 (Circle) Shift 1 Grave 2 Day 2 Swing 3

— PRODUCTION INFORMATION —

SHEAR OPERATION	FACE MEASUREMENTS
Headgate Advance	H.G. Beg- <u>0+28</u>
Tailgate Advance	T.G. Beg- <u>0+29</u>
Cuts-Headgate to Tailgate <u>7</u>	H.G. End- <u>0+42</u>
Cuts-Tailgate to Headgate <u>7</u>	T.G. End- <u>0+51</u>
Shear At Shield No. <u>46</u>	

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	<u>400</u>	Any Reported		<input checked="" type="checkbox"/>
Tailgate	<u>540</u>	Form Filled In		
FEDERAL or STATE INSPECTORS NAME		Name		

— TIME INFORMATION —

Time Mantrip Left Portal <u>8:00</u>	Time Production Started <u>8:40</u>	Time Mantrip Left Section	:	:
Time Mantrip Arrived Sec. <u>8:35</u>	Time Production Stopped <u>3:30</u>	Time Mantrip Arrived Port.	:	:

— MATERIALS USED —

Emulsion Oil	Bars/Beams	Powder Used
Timbers Installed	Crib Block-Used	Caps Used
Rock Dust Used	Other	

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
<u>5:45</u>	<u>8:50</u>				<u>AJ.R.P &amp; Exercise</u>		
				<u>:15</u>	<u>Bella off 10<sup>th</sup></u>		
				<u>:30</u>	<u>Tail Gate over Loads through out shift</u>		
				<u>:25</u>	<u>Plug up can. cut during shift</u>		

— SUGGESTIONS — COMMENTS — REMARKS —

Painted Structure. Wash Shield & Winked on Hose.  
Took Paper off Tail Gate

Surveyors Needed  
 Yes -  No

Lobato  
 LONGWALL FOREMAN'S SIGNATURE

SHIFT FOREMAN'S SIGNATURE

OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office: Green Copy to Superintendent: 1 Copy to Maintenance: 1 Copy to Cost Control

YELLOW COPY TO DATA PROCESSING





Trail Section 14<sup>th</sup> Right Foreman C Cox  
 Date 19 11 98 Day Tuesday  
 Section No. 00 Month 19 Day 11 Year 98 Shift 1  
 Employee's number 97812 No. of Men 6 Tons Loaded 7350 (Circle) Grave Day Swing

— PRODUCTION INFORMATION —

— SAFETY INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	AIR QUANTITY	C.F.M.	ACCIDENTS	
					YES	NO
Headgate Advance	<u>28</u>	H.G. Beg. <u>93</u>	Headgate	<u>430</u>	Any Reported	<input checked="" type="checkbox"/>
Tailgate Advance	<u>29</u>	T.G. Beg. <u>88</u>	Tailgate	<u>505</u>	Form Filled In	<input type="checkbox"/>
Feet-Headgate to Tailgate	<u>10</u>	H.G. End. <u>1+21</u>	Intake <u>59130</u> Name			
Feet-Tailgate to Headgate	<u>11</u>	T.G. End. <u>1+17</u>	FEDERAL or STATE INSPECTORS NAME			
Headgear At Shield No.	<u>HG</u>					

— TIME INFORMATION —

Time Mantrip Left Portal	<u>4:00</u>	Time Production Started		Time Mantrip Left Section	<u>4:30</u>
Time Mantrip Arrived Sec.	<u>4:30</u>	Time Production Stopped	<u>11:28</u>	Time Mantrip Arrived Port.	<u>12:00</u>

— MATERIALS USED —

Emulsion Oil		Bars/Beams		Powder Used	
Timbers Installed		Crib Block-Used		Caps Used	
Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
<u>4:30</u>	<u>4:40</u>			<u>10</u>	<u>Exer + AURP</u>		
<u>4:40</u>	<u>4:45</u>			<u>5</u>	<u>Checking Cow/ Flusher</u>		
<u>4:30</u>	<u>5:45</u>			<u>15</u>	<u>Take off Ranging Arm cover to unstick flush hose</u>		
<u>7:17</u>	<u>7:24</u>			<u>7</u>	<u>Belts</u>		
<u>4:45</u>	<u>9:55</u>			<u>10</u>	<u>Stage loader Plugged (chunk stuck in)</u>		

— SUGGESTIONS — COMMENTS — REMARKS —

pull structure + move wall  
work on shear cow/ flush hose  
put 1 Taper off HG

Surveyors Needed  
 Yes -  No

Cox  
 LONGWALL FOREMAN'S SIGNATURE

SHIFT FOREMAN'S SIGNATURE

OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office; Green Copy to Superintendent; 1 Copy to Maintenance; 1 Copy to Cost Control



UTAH POWER & LIGHT COMPANY - MINING DIVISION  
 LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trail Mountain Section 104R Foreman Lobato

Location 1 Section No. 00 Date 9 12 95 Day Wednesday  
 Foreman's Employee Number 98599 No. of Men 18 Tons Loaded 57600 Shift 2 (Circle) Grave Day Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION	FACE MEASUREMENTS
Headgate Advance	H.G. Beg. <u>1 + 19</u>
Tailgate Advance	T.G. Beg. <u>1 + 12</u>
Cuts-Headgate to Tailgate	H.G. End. <u>1 + 42</u>
Cuts-Tailgate to Headgate	T.G. End. <u>1 + 30</u>
Shear At Shield No.	

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	<u>420</u>	Any Reported		<input checked="" type="checkbox"/>
Tailgate	<u>450</u>	Form Filled In		
Total <u>59350</u>		Name		
FEDERAL or STATE INSPECTORS NAME				

— TIME INFORMATION —

Time Mantrip Left Portal	<u>8:00</u>	Time Production Started	<u>8:55</u>	Time Mantrip Left Section	<u>3:45</u>
Time Mantrip Arrived Sec.	<u>8:35</u>	Time Production Stopped	<u>3:40</u>	Time Mantrip Arrived Port.	<u>4:40</u>

— MATERIALS USED —

Emulsion Oil	Bars/Beams	Powder Used
Timbers Installed	Crib Block-Used	Caps Used
Rock Dust Used	Other	

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
					<u>AURP &amp; Exercise</u>		
					<u>Safety Talk</u>		
<u>9:30</u>	<u>9:55</u>			<u>25</u>	<u>Cover on Dump Point Stuck Lock</u>		
					<u>Brook put New Bolts in.</u>		
<u>1:30</u>	<u>2:20</u>			<u>50</u>	<u>Stage hauler Chain broke</u>		
					<u>one side. Repaired</u>		

— SUGGESTIONS — COMMENTS — REMARKS —

pulled structure, Repaired Stage hauler Chain  
put New Bolts in cover Stage hauler  
Washed Shield. Took 1 taper off Head Gate

Surveyors Needed  
 Yes -  No

LONGWALL FOREMAN'S SIGNATURE [Signature] SHIFT FOREMAN'S SIGNATURE \_\_\_\_\_ OTHER SUPERVISOR'S INITIALS \_\_\_\_\_

DISTRIBUTION: Original, Main Office: Green Copy to Superintendent: 1 Copy to Maintenance: 1 Copy to Cost Control

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Section Trail 10<sup>th</sup> Right Foreman C Cox  
 Date 19 12 98 Day Wednesday  
 Section No. 00 Month 12 Day 9 Year 98  
 Shift 1 2 3  
 (Circle) Grave Day Swing  
 Employee Number 97812 No. of Men 9 Tons Loaded 4400

— PRODUCTION INFORMATION —

— SAFETY INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS		AIR QUANTITY		C.F.M.		ACCIDENTS		YES	NO
Headgate Advance		H.G. Beg.		Headgate		430		Any Reported			<input checked="" type="checkbox"/>
Tailgate Advance		T.G. Beg.		Tailgate		510		Form Filled In			
Cuts-Headgate to Tailgate		H.G. End.		Intake		5930		Name			
Cuts-Tailgate to Headgate		T.G. End.		FEDERAL or STATE INSPECTORS NAME <u>Jim Martin</u>							
Clear At Shield No.											

— TIME INFORMATION —

Time Mantrip Left Portal	<u>4:00</u>	Time Production Started	<u>4:51</u>	Time Mantrip Left Section	<u>4:18</u>
Time Mantrip Arrived Sec.	<u>4:30</u>	Time Production Stopped	<u>4:16</u>	Time Mantrip Arrived Port.	<u>4:00</u>

— MATERIALS USED —

Emulsion Oil		Bars/Beams		Powder Used	
Timbers Installed		Crib Block-Used		Caps Used	
Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
4:30	4:40			10	Safety Mtg		
4:40	4:50			10	Exer + AGRP		
4:50	5:42			12	Cleaning Tight side of belt		
5:40				14:30	10 <sup>th</sup> R Belt #1 tore in belt		
	9:15				Went into 6 <sup>th</sup> Right		

— SUGGESTIONS — COMMENTS — REMARKS —

Made 4 1/2 cuts in 10<sup>th</sup>  
 Made 1 and 2/3 cuts in 6<sup>th</sup>

Surveyors Needed  
 Yes -  No

Cox LONGWALL FOREMAN'S SIGNATURE  
 SHIFT FOREMAN'S SIGNATURE  
 OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office: Green Copy to Superintendent; 1 Copy to Maintenance; 1 Copy to Cost Control

YELLOW COPY TO DATA PROCESSING





FAH POWER & LIGHT COMPANY - MINING DIVISION  
 LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trail Section 10th Right Foreman CC  
 Location  Section No. 00 Date 9 3 98 Day Thursday  
 Foreman's Employee Number 97812 No. of Men 17 Tons Loaded 4900 Shift 1 2 3  
 (Circle) Grave Day Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS		AIR QUANTITY		C.F.M.	ACCIDENTS		YES	NO
Headgate Advance		H.G. Beg.		Headgate		<u>425</u>	Any Reported			<input checked="" type="checkbox"/>
Tailgate Advance		T.G. Beg.		Tailgate		<u>315</u>	Form Filled In			
Cuts-Headgate to Tailgate	<u>7</u>	H.G. End.		Intake		<u>10170</u>	Name			
Cuts-Tailgate to Headgate	<u>7</u>	T.G. End.		FEDERAL or STATE INSPECTORS NAME						
Shear At Shield No.	<u>HG</u>									

— TIME INFORMATION —

Time Mantrip Left Portal	<u>4:00</u>	Time Production Started	<u>4:40</u>	Time Mantrip Left Section	<u>11:28</u>
Time Mantrip Arrived Sec.	<u>4:30</u>	Time Production Stopped	<u>11:25</u>	Time Mantrip Arrived Port.	<u>12:00</u>

— MATERIALS USED —

Emulsion Oil		Bars/Beams		Powder Used	
Timbers Installed		Crib Block-Used		Caps Used	
Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
<u>4:30</u>	<u>4:40</u>			<u>10</u>	<u>Exev + AURP</u>		
<u>4:40</u>	<u>5:05</u>			<u>25</u>	<u>Get rib fall off belt structure + clean under tailpe</u>		
<u>7:45</u>	<u>9:00</u>			<u>1h:15min</u>	<u>HG Raising arm wouldn't drop - replaced check valve</u>		

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled structure + mono rail  
Timbered on both sides of Stage loader  
Raised Face Conveyor + blocked job side of pan  
112 to 140  
Repaired shear

Surveyors Needed  
 Yes -  No

Clayton M. Fox  
 LONGWALL FOREMAN'S SIGNATURE  
 SHIFT FOREMAN'S SIGNATURE  
 OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office: Green Copy to Superintendent: 1 Copy to Maintenance: 1 Copy to Cost Control

UTAH POWER & LIGHT COMPANY - MINING DIV.  
LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trial Mountain Section 10<sup>2</sup>R Foreman Shabano  
 Location 1 Section No. 00 Date 9/14/98 Day Friday  
 Foreman's Employee Number 94899 No. of Men 18 Tons Loaded 2150  
 Shift 2 (Circle) Day Swing 3

— PRODUCTION INFORMATION —

— SAFETY INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS		AIR QUANTITY		ACCIDENTS		YES	NO
Headgate Advance		H.G. Beg.		Headgate	500	Any Reported			
Tailgate Advance		T.G. Beg.		Tailgate	535	Form Filled In			
Cuts-Headgate to Tailgate	45	H.G. End.	-1+80	5-5450		Name			
Cuts-Tailgate to Headgate	54	T.G. End.	-1768	FEDERAL or STATE INSPECTORS NAME					
Shear At Shield No.	1/6								

— TIME INFORMATION —

Time Mantrip Left Portal	8:00	Time Production Started	8:45	Time Mantrip Left Section	3:35
Time Mantrip Arrived Sec.	8:30	Time Production Stopped	3:30	Time Mantrip Arrived Port.	4:00

— MATERIALS USED —

Emulsion Oil		Bars/Beams		Powder Used	
Timbers Installed		Crib Block-Used		Caps Used	
Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
					AURP & Exercise Safety Talk.		
				50	Chunks cutting through Tail Gate		
2:00	3:00			60	Change Bits Ground Fault S.L. #2 Motor		

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled Structure, worked on shields

Surveyors Needed  
 Yes -  No

LONGWALL FOREMAN'S SIGNATURE: [Signature]  
 SHIFT FOREMAN'S SIGNATURE: \_\_\_\_\_  
 OTHER SUPERVISOR'S INITIALS: \_\_\_\_\_

DISTRIBUTION: Original, Main Office: Green Copy to Superintendent: 1 Copy to Maintenance: 1 Copy to Cost Control







# ENERGY WEST MINING COMPANY

## SECTION FOREMAN'S DAILY OPERATING REPORT

### General Information

Date: <u>9/15/98</u>	Foreman: <u>J. Basso</u>	Ft. of Adv.:	Ton/R. Adv.:
Mine: <u>+1M</u>	Shift: <u>G D (R)</u>	SCs Loaded:	
Section: <u>10" R.</u>	# of Men:	Tons:	Ton/Min. Operating:
Mining Height (Avg.):	Bottom Coal: <u>Y N</u>	Split Thickness (Avg.):	
Water Problems (describe):	Surveyors Needed: <u>Y N</u>	Stopping Lines Examined 1,000 ft.: <u>Y N</u>	
		Section Clean 1,000 ft. Outby feeder: <u>Y N</u>	

### Time Information

Leave Surface <u>4:00</u> A.M. P.M.	Production Start : <u>A.M. P.M.</u>	Leave Section : <u>A.M. P.M.</u>
Arrive Section <u>4:55</u> A.M. P.M.	Production Stop : <u>A.M. P.M.</u>	Arrive Surface <u>4:55</u> A.M. (P.M.)

### Section Information

Face Location					
Places Mined					
Places Bolted					
Places Not Bolted					

### Operational Information

# Men on O/T:	Stopping Complete: <u>Y N</u>	# Mats Installed:	Type of Bolts Installed:
# of O/T hours Pd.:	Belt Hanger Inst. (ft.):	# Mesh Installed:	Length of Bolts Installed:
Assignments:	Bolter Stocked (%):	# Bags Dust Used:	Other:
	# Bolts Installed:	# Blocks Used:	

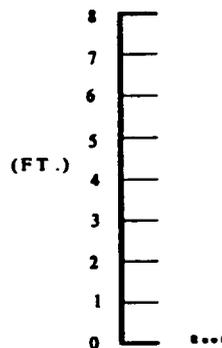
### Delay and Equipment Information

Start	End	EQ. #	EQ. Time	Loading Time	Repair Completed or Reason for Delay
:	:	:	:	:	<u>IDLE</u>
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	

### Safety Information

LOXC (cfm):	Shop Car Clean/Stocked: <u>Y N</u>
Faces Vented: <u>(Y) N</u>	Accident Reported: <u>Y N</u>
AVRP: <u>(Y) N</u>	Name:
Stretching: <u>Y N</u>	Form Filed: <u>Y N</u>
Safety Meeting <u>Y N</u>	Stay on Job: <u>Y N</u>
SCSR's Checked: <u>Y N</u>	Inspector:
Dust at Duster: <u>Y N</u>	Citations: <u>Y N</u>
Roadway Scooped: <u>Y N</u>	Describe Citation(s):
Feeder Clean: <u>Y N</u>	
Kitchen Clean: <u>Y N</u>	

Coal = C  
 Carb. Mudstone = CMS  
 Mudstone = MS  
 Sandstone = SS  
 Interbeds = IB  
 Fracture Zone = FZ



### Suggestions/Comments

Was not able to save side shield #8. We truned it loose Got top of three shield cleaned off & up enough for shear to clear. Got shields cleaned off too where the toes are level or higher then the gabe. Every shield is clean. Hung up one piece of belt & the other no chains on shield gabe it. washed the intire face down & washed out bratke track. Finish TMA slant stopping #6 & 8

Section Foreman: <u>J. Basso</u>	Shift Foreman:
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# ENERGY WEST MINING COMPANY SECTION FOREMAN'S DAILY OPERATING REPORT

### General Information

Date: <b>9-5-98</b>	Foreman: <b>R.N. HCB1</b>	Ft. of Adv.:	Ton/ft. Adv.:
Mine: <b>TUM</b>	Shift: <b>G</b> <b>(D)</b> <b>A</b>	S/Cs Loaded:	
Section: <b>GEN MINE</b>	# of Men: <b>12</b>	Tons:	
Mining Height (Avg.):	Bottom Coal: <b>Y</b> <b>N</b>	Ton/Min. Operating:	
Water Problems (describe):	Surveyors Needed: <b>Y</b> <b>N</b>	Split Thickness (Avg.):	
		Stopping Lines Examined 1,000 ft.: <b>Y</b> <b>N</b>	
		Section Clean 1,000 ft. Outby feeder: <b>Y</b> <b>N</b>	

### Time Information

Leave Surface <b>8:00 AM</b> P.M.	Production Start : <b>A.M.</b> P.M.	Leave Section <b>3:25 A.M.</b> <b>(PM)</b>
Arrive Section <b>8:55 AM</b> P.M.	Production Stop : <b>A.M.</b> P.M.	Arrive Surface <b>4:00 A.M.</b> <b>(PM)</b>

### Section Information

Face Location			
Places Mined			
Places Bolted			
Places Not Bolted			

### Operational Information

# Men on O/T:	Stopping Complete: <b>Y</b> <b>N</b>	# Mats Installed:	Type of Bolts Installed:
# of O/T hours Pd.:	Belt Hanger Inst. (ft.):	# Mesh Installed:	Length of Bolts Installed:
Assignments:	Bolter Stocked (%):	# Bags Dust Used:	Other:
	# Bolts Installed:	# Blocks Used:	

### Delay and Equipment Information

Start	End	EQ. #	EQ. Time	Loading Time	Repair Completed or Reason for Delay
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	
:	:	:	:	:	

### Safety Information

LOXC (cfm):	Shop Car Clean/Stocked: <b>Y</b> <b>N</b>
Faces Vented: <b>Y</b> <b>N</b>	Accident Reported: <b>Y</b> <b>N</b>
AVRP: <b>Y</b> <b>N</b>	Name:
Stretching: <b>Y</b> <b>N</b>	Form Filed: <b>Y</b> <b>N</b>
Safety Meeting <b>Y</b> <b>N</b>	Stay on Job: <b>Y</b> <b>N</b>
SCSR's Checked: <b>Y</b> <b>N</b>	Inspector:
Dust at Duster: <b>Y</b> <b>N</b>	Citations: <b>Y</b> <b>N</b>
Roadway Scooped: <b>Y</b> <b>N</b>	Describe Citation(s):
Feeder Clean: <b>Y</b> <b>N</b>	
Kitchen Clean: <b>Y</b> <b>N</b>	

- Coal = C
- Carb. Mudstone = CMS
- Mudstone = MS
- Sandstone = SS
- Interbeds = IB
- Fracture Zone = FZ

(FT.)

### Suggestions/Comments

HAD 3 MEN ON THE BELTS, 3 FIRE SSES, 2 MEN IN THE DIESEL SHOP, 4 MEN CLEANING & TRYING TO FIX THE 1070 RA. LUNG WALK FACE

Section Foreman:	Shift Foreman: <b>[Signature]</b>
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UTAH POWER & LIGHT COMPANY - MINING DIVISION  
 LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trail Mountain Section 10<sup>th</sup> Right

Location 1 Section No. 00 Date 19 12 5 19 Day 0 1 1  
 Foreman's Employee Number 70962 No. of Men 18 Tons Loaded 1340 Shift 0 1 1

— PRODUCTION INFORMATION —

— SAFETY INFORMATION —

SHEAR OPERATION	FACE MEASUREMENTS	AIR QUANTITY	C.F.M.	ACCIDENT	YES
Headgate Advance	H.G. Beg.	Headgate	575	Any	3
Tailgate Advance	T.G. Beg.	Tailgate	810	Foot	
Cuts-Headgate to Tailgate	H.G. End. <u>712</u>			Name	
Cuts-Tailgate to Headgate	T.G. End. <u>-1180</u>	FEDERAL or STATE INSPECTORS NAME			
Shear At Shield No.					

— TIME INFORMATION —

Time Mantrip Left Portal	<u>8:00</u>	Time Production Started		Time Mantrip Left Section	<u>11:30</u>
Time Mantrip Arrived Sec.	<u>8:30</u>	Time Production Stopped		Time Mantrip Arrived Port.	<u>1:50</u>

— MATERIALS USED —

Emulsion Oil	Bars/Beams	Powder Used
Timbers Installed	Crib Block-Used	Caps Used
Rock Dust Used	Other	

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Other Costs
Time Started	Time Ended					
				15	Block / Run	

— SUGGESTIONS — COMMENTS — REMARKS —

SUC shear, shovels & conveyor inspected saw chain for damage

Surveyors Needed  
 Yes -  No

LONGWALL FOREMAN'S SIGNATURE [Signature] SHIFT FOREMAN'S SIGNATURE \_\_\_\_\_ OTHER SUPERVISOR'S INITIALS \_\_\_\_\_

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 YELLOW COPY TO DATA PROCESSING

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Section Trail Mountain 10-R Foreman Lobato  
 Date 19 18 98 Day Tuesday  
 Shift 1 2 3 (Circle) 3 (Swing)  
 Section No. 00 No. of Men 18  
 Tons Loaded 1225

— PRODUCTION INFORMATION —

— SAFETY INFORMATION —

SHEAR OPERATION	FACE MEASUREMENTS	AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate Advance	H.G. Beg.	Headgate	580	Any Reported		<input checked="" type="checkbox"/>
Tailgate Advance	T.G. Beg.	Tailgate	400	Form Filled In		
Feet-Headgate to Tailgate	H.G. End.	<u>ENT 58925</u>		Name		
Feet-Tailgate to Headgate	T.G. End.	FEDERAL or STATE INSPECTORS NAME				
Year At Shield No.	<u>70</u>					

— TIME INFORMATION —

Time Mantrip Left Portal	<u>4:00</u>	Time Production Started	<u>6:00</u>	Time Mantrip Left Section	<u>4:50</u>
Time Mantrip Arrived Sec.	<u>4:30</u>	Time Production Stopped	<u>9:00</u>	Time Mantrip Arrived Port.	<u>12:00</u>

— MATERIALS USED —

Emulsion Oil	Bars/Beams	Powder Used
Timbers Installed	Crib Block-Used	Caps Used
Rock Dust Used	Other	

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS —		EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
Time Started	Time Ended						
					AURP's Exercise		
					Safety Talk		
4:5	6:00				1 hr. 15 min. 3 Back links face		
					conveyor chain replaced		
				60	plug up face conveyor		
					Both Directions		
					Added Hoops to Bret-beam		
5:5	11:30				<del>3</del> Rocks Down on face conveyor.		

— SUGGESTIONS — COMMENTS — REMARKS —

cut through Tail Gate 3 Times straighten Pass  
 Had to replace Hoops in Bret-beam Hassis coming out  
 cleaned spray on Shear Crasher.  
 Sand Stage coming down stuck face conveyor.  
 3 to 4' rock coming down

Surveyors Needed  
 Yes -  No

Lobato LONGWALL FOREMAN'S SIGNATURE  
 SHIFT FOREMAN'S SIGNATURE  
 OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office. Green Copy to Superintendent. 1 Copy to Maintenance. 1 Copy to Cost Control

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Telephone (801) 637-6136

Telefax (801) 637-9754

Attn: Carl Pollastro  
Energy West  
P.O. Box 310  
Huntington, Utah 84528

RE: Trail Mountain Hemscheidt Supports

Dear Carl;

Per our conversation on Friday September 11, 1998, we discussed the possibility of having a customer interested with the purchase of the Hemscheidt Trail Mountain supports. Two weeks ago we contacted the customer and supplied them with the specifications of the supports.

Last week the customer notified us that they would like to arrange a 2-day underground visit to inspect the Trail Mountain Hemscheidt supports.

Last Thursday we were notified by Trail Mountain representatives that, due to unsafe mining conditions, the Trail Mountain Hemscheidt supports would not be available for sale.

Confirming my conversation with Dave Lauriski, we have contacted our MTA personnel in the field and have determined that none of the components that are on the supports have a market value.

We would like to thank Energy West for working with MTA on this project.

Regards,

Dan Espinoza

CC: Keith O'Neil  
Bert Whitt  
Linda Amoroso  
Harry Martin

