

PERMIT CHANGE TRACKING FORM

| | | | |
|--------------------|---------------------------------|-----------------|-------------|
| DATE RECEIVED | 3/22/95 | PERMIT NUMBER | ACT/015/018 |
| Title of Proposal: | 2 holes - | PERMIT CHANGE # | 957 |
| Description: | Kilda BLM lead - Exploration | PERMITTEE | Pacificorp |
| | | MINE NAME | Abbr Creek |

| | | | |
|---|----------|-----------|--|
| Called George Jettrott on 3/28 <input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION | DATE DUE | DATE DONE | RESULT |
| <input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee. | | | <input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED |
| <input type="checkbox"/> Request additional review copies prior to Division/Other Agency review. | | | Permit Change Classification <input type="checkbox"/> Significant Permit Revision |
| <input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.) | | | <input type="checkbox"/> Permit Amendment |
| <input type="checkbox"/> Notice of request to modify proposed permit change prior to approval. | | | <input type="checkbox"/> Incidental Boundary Change |

| REVIEW TRACKING | INITIAL REVIEW | | MODIFIED REVIEW | | FINAL REVIEW AND FINDINGS | |
|---|----------------|------|-----------------|------|---------------------------|------|
| DOGM REVIEWER | DUE | DONE | DUE | DONE | DUE | DONE |
| <input type="checkbox"/> Administrative | | | | | | |
| <input type="checkbox"/> Biology | | | | | | |
| <input type="checkbox"/> Engineering | | | | | | |
| <input type="checkbox"/> Geology | | | | | | |
| <input type="checkbox"/> Soils | | | | | | |
| <input type="checkbox"/> Hydrology | | | | | | |
| <input type="checkbox"/> Bonding | | | | | | |
| <input type="checkbox"/> AVS Check | | | | | | |

| COORDINATED REVIEWS | DUE | DONE | DUE | DONE | DUE | DONE |
|---|-----|------|-----|------|-----|------|
| <input type="checkbox"/> OSMRE | | | | | | |
| <input type="checkbox"/> US Forest Service | | | | | | |
| <input type="checkbox"/> Bureau of Land Management | | | | | | |
| <input type="checkbox"/> US Fish and Wildlife Service | | | | | | |
| <input type="checkbox"/> US National Parks Service | | | | | | |
| <input type="checkbox"/> UT Environmental Quality | | | | | | |
| <input type="checkbox"/> UT Water Resources | | | | | | |
| <input type="checkbox"/> UT Water Rights | | | | | | |
| <input type="checkbox"/> UT Wildlife Resources | | | | | | |
| <input type="checkbox"/> UT State History | | | | | | |
| <input type="checkbox"/> Other | | | | | | |

| | |
|---|--|
| <input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision) | <input type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied. |
| <input type="checkbox"/> Copies of permit change marked and ready for MRP. | <input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee. |
| <input type="checkbox"/> Special Conditions/Stipulations written for approval. | <input type="checkbox"/> Copy of Approved Permit Change to File. |
| <input type="checkbox"/> TA and CHIA modified as required. | <input type="checkbox"/> Copy of Approved Permit Change to Permittee. |
| <input type="checkbox"/> Permit Change Approval Form ready for approval. | <input type="checkbox"/> Copies to Other Agencies and Price Field Office. |



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

355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203
 801-538-5340
 801-359-3940 (Fax)
 801-538-5319 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING
 FACSIMILE COVER SHEET

DATE: March 22, 1995
 FAX # 1-801-637-4584
 ATTN: George Setraut / Dan Stephens
 COMPANY: BLM
 FROM: PAM G-L
 DEPARTMENT: DOG M
 NUMBER OF PAGES BEING SENT (INCLUDING THIS ONE): 6

If you do not receive all of the pages, or if they are illegible, please call (801) 538-5340.

We are sending from a Murata facsimile machine. Our telecopier number is (801) 359-3940.

MESSAGES:

Here's an explanation - something or other.....
Do you have any problems?
Please let me know.
PAM
95D - BLM lead -
not approved

Important: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.



*****>*****

** TRANSMIT CONFIRMATION REPORT **

Journal No. : 001
 Receiver : 6374584
 Transmitter : DIV OIL GAS & MINING
 Date : Mar 23,95 7:47
 Document : 06 pages
 Time : 04'03"
 Mode : G3 NORMAL
 Result : OK

950

One Utah Center
201 South Main, Suite 2100
Salt Lake City, Utah 84140-0021
(801) 220-2000

A Division of PacifiCorp



| | |
|---|-----------------------|
| Post-It™ brand fax transmittal memo 7671 # of pages ▶ 5 | |
| To <i>PAM LITTIG</i> | From <i>VAL PAYNE</i> |
| Co. | Co. |
| Dept. | Phone # |
| Fax # <i>(801) 359-3940</i> | Fax # |

March 15, 1995

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

*Fax to Forest Service
and BLM*

95D

Attention: Pamela Grubaugh-Littig

#2 (copy)

~~_____~~
[Signature]

RE: UNDERGROUND DRILL HOLES TO SURFACE, PACIFICORP, DEER CREEK MINE, ACT/016/018, EMERY COUNTY, UTAH

PacifiCorp requests approval to drill two (2) drill holes from the underground workings in the area of the Rilda Canyon fan entry to the surface (see attached drawing). The drill holes will facilitate confirmation of underground and surface surveying accuracy.

One hole will be drilled along the bearing of the proposed return (fan) entry, at such an angle as to approximate the proposed bearing and grade (upward at 8%) of the entry. This hole will intersect the subcrop/alluvium boundary and reach the surface near the proposed location of the fan portal.

The second hole will be drilled vertically from the return entry at the location shown on the enclosed drawing. The hole will surface near the location of drill hole DH-94-9, which was drilled from the surface in the fall of 1994.

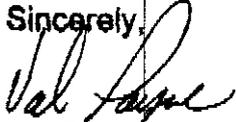
Each drill hole will be three (3) inches in diameter. Casing will not be installed. Upon completion of surveying, the vertical hole will be plugged at the surface using "hole plug" (palletized bentonite). Following plugging, any surface impacts will be repaired using the same techniques (hand raking and hand broadcasting) and certified seed mixture as were used during the drilling in 1994. A copy of the seed mixture is attached. Please note that, as was agreed to with the Forest Service in 1994, no container stock shrub or tree species are included in the mixture. Because of the small amount of surface disturbance associated with the helicopter drilling in 1994, inclusion of container stock was determined to be unnecessary. Surface disturbance associated with the underground drilling will be even less than what occurred in 1994.

Impacts to the surface will be minor, resulting only from the drill steel breaking through the soil and possibly a small amount of water spraying from the drill steel. The water flow will be terminated as soon as it is determined that the drill has reached the surface; therefore, very little water will reach the surface. Additionally, personnel will be present on the surface to control water flow, if necessary.

Applicant desires to conduct the drilling as soon as possible; therefore your immediate attention to this matter is appreciated.

If you require further information, please call me at 653-2312, ext. 16.

Sincerely,



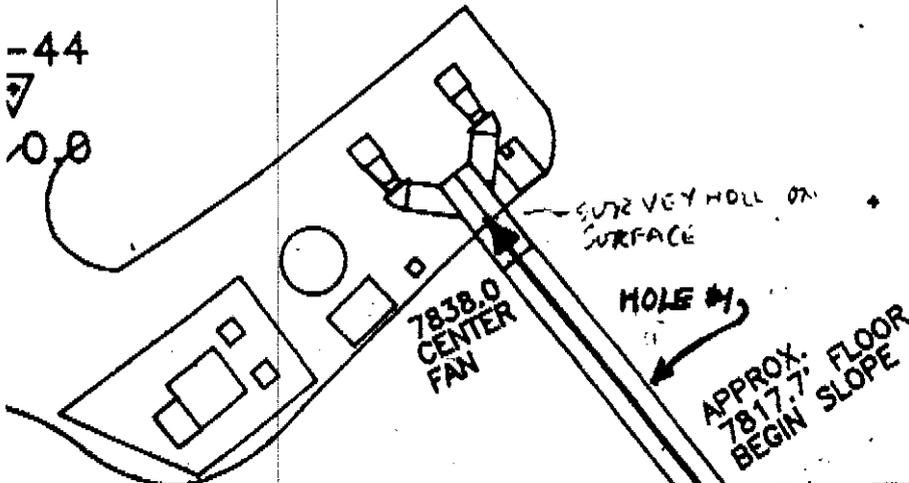
Val Payne

Sr. Environmental Engineer

cc: K. Fleck
M. Moon
C. Semborski
B. Webster
File

7837'

DEER CREEK MINE 10TH WEST RETURN BREAKOUT PROPOSED DRILLING UNDERGROUND



DH-94-7
BC 0.0

HOLE #2

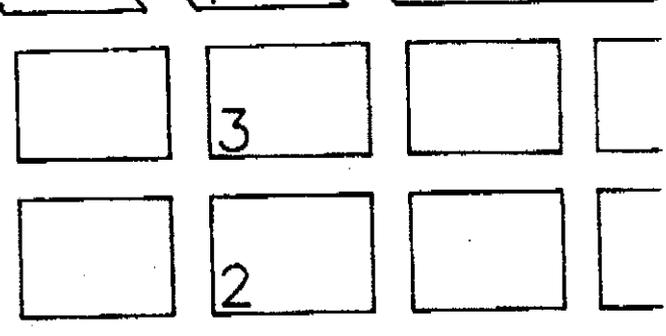
VERTICAL HOLE FOR SURVEY?

DH-94-9

BC 12.3

7810'

2,096,710
398,575



FACES 3/2/95

7807.3
11456

7799.7
11435
11404

7804.8
11009

7794.7
11404

10

9

8

7

5

7790
C

35. Any reclaimed roads must be signed and blocked off to discourage vehicle access by the public.
36. Reclamation efforts will be diligently pursued. Revegetation will be considered successful when 90% of the pre-disturbance ground cover is re-established over the entire disturbed area, with no noxious weeds. Adjacent undisturbed areas will be used as a base for comparison of ground cover. Of the vegetative ground cover, at least 90% must consist of seeded or other desirable species. 90% ground cover must be maintained for three years.
37. Seeding will be done with the following certified seed mix:

| Species | pounds/acre |
|--|-------------|
| <u>GRASSES</u> | |
| Blue bunch wheatgrass - <i>Agropyron spicatum</i> | 2 |
| Streambank wheatgrass - <i>Agropyron riparian</i> | 2 |
| Western wheatgrass - <i>Agropyron smithii</i> | 2 |
| Intermediate wheatgrass - <i>Agropyron intermedium</i> | 2 |
| Kentucky bluegrass - <i>Poa pratensis</i> | 2 |
| Needle and thread grass - <i>Stipa comata</i> | 1 |
| Perennial Rye grass - <i>Lolium perenne</i> | 2 |
| <u>FORBS</u> | |
| Cicer milkvetch - <i>astragalus cicer</i> | 1 |
| Yellow sweet clover - <i>melilotus officinalis</i> | 1/2 |
| Alfalfa - <i>medicago sativa</i> var. <i>ladak</i> | 1/2 |
| Pacific Aster - <i>Aster chilensis</i> | 1/4 |
| Louisiana Sage - <i>Artemisia Ludovicana</i> | 1/4 |
| Blue aster - <i>Aster glaucodes</i> | 1/4 |
| <u>SHRUBS (Seed)</u> | |
| Vasey sagebrush - <i>Artemisa trid.</i> var. <i>vaseyana</i> | 1 |
| Four wing saltbrush - <i>Atriplex canescens</i> | 2 |
| Low Rabbitbrush - <i>chrysothammus vicidiflorus</i> | 1 |
| Snowberry - <i>symphoricarpus oreophilus</i> | 1/2 |
| Curly leaf mahogany - <i>cerocarpus ledifolius</i> | 1/2 |
| <u>SHRUBS/TREES CONTAINER STOCK</u> | |
| Saskatoon service berry - <i>Amelanchier alnifolia</i> | 50 |
| Rocky Mountain Juniper - <i>Juniperus scopulorum</i> | 20 |
| Dogwood - <i>Cornus sericea</i> | 20 |
| Coyote willow - <i>Salix exigua</i> | 50 |
| Booth willow - <i>Salix Boothii</i> | 50 |
| Narrowleaf cottonwood - <i>Populus angustifolia</i> | 100 |
| Douglas Fir - <i>Psuedotsuga menziesii</i> | 10 |
| Squaw currant - <i>Ribes cereum</i> | 20 |

This seed mixture must be consistent with the Utah Seed Act.

38. The operator will be held responsible for control of noxious weed infestations found to be a result of this drilling operation.

Moab District
Price River Resource Area
900 North 700 East
Price, Utah 84501

3482
U-06039
(UT-066)

STAFF REPORT

Title: Recommended Plugging Method for the Energy West Helicopter Drill Holes, Rilda Canyon

Date: October 27, 1994

I have discussed the matter of alternative helicopter coal exploration hole plugging methods with representatives of Energy West Mining and PacifiCorp (Roger Fry, Val Payne and Chuck Samborski) and representatives of the Bureau of Land Management (Brent Northrup and Jim Kohler). The factors involved in this discussion are as follows:

1. The drill holes are very shallow between 30 to 400 feet, and small diameter (3 inches).
2. The drill holes are located on the upper end of a dip slope.
3. The drill holes are in an area that is probably burned and fractured. There would be a lot of surface leakage in the fractures if cement were used.
4. The drill holes probably will not have much water in them.
5. A helicopter is being used on these holes to reduce the amount of environmental impacts to the surface. The possible resulting spills from mixing cement could cause environmental damage.

Pelletized bentonite can be poured into the holes and reach the bottom of the hole before dissolving, if there is any water left in the hole from drilling. If any water should enter these holes, the bentonite will swell forming a very tight seal in the hole. Pelletized bentonite will not leak out of the surface fractures as cement will.

Therefore, because of these factors, we recommend that Energy West Mining use pelletized bentonite to plug these holes as long as the holes are dry. If any of the holes should make a significant amount of water, then cement must be used. Cement can be emplaced through tubing to get the sealer to the bottom of the hole. We will give a copy of this report to Val Payne of Energy West Mining.



Thomas E. Rasmussen
Price River Resource Area, Geologist

One Utah Center
 201 South Main, Suite 2100
 Salt Lake City, Utah 84140-0021
 (801) 220-2000

A Division of PacifiCorp



| | | |
|--|-----------------------|----------------|
| Post-It™ brand fax transmittal memo 7671 | | # of pages > 5 |
| To <i>PAM LITTIG</i> | From <i>VAL PAYNE</i> | |
| Co. | Co. | |
| Dept. | Phone # | |
| Fax # <i>(801) 359-3940</i> | Fax # | |

March 15, 1995

Utah Coal Regulatory Program
 Division of Oil, Gas and Mining
 355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203

Attention: Pamela Grubaugh-Littig

RE: **UNDERGROUND DRILL HOLES TO SURFACE, PACIFICORP, DEER CREEK MINE, ACT/016/018, EMERY COUNTY, UTAH**

*Answer
 FRI*

*Fax to Forest Service
 and BRM*

*BRM lead per 3/24/95
~~FAVED TO Approved~~
~~Fax to~~ ?*

Adapted by [Signature]

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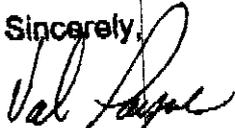
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Sincerely,



Val Payne

Sr. Environmental Engineer

cc: K. Fleck
M. Moon
C. Semborski
B. Webster
File

7837'

DEER CREEK MINE 10TH WEST RETURN BREAKOUT PROPOSED DRILLING UNDERGROUND

-44
▽
0.0

7838.0
CENTER
FAN

SURVEY HOLE ON
SURFACE

HOLE #1

APPROX. FLOOR
BEGIN SLOPE

DH-94-7

BC 0.0

HOLE #2

VERTICAL
HOLE
FOR SURVEY

DH-94-9

BC 12.3
7810'

3096.710
388.575

4

3

2

1-7800

ROOF
FOOT

FACES
3/2/95

7803.3 779
11436 109

7799.7
11435

7794.7
11404

10

9

8

7

7804.8
11009

5

2

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| Kentucky bluegrass - <i>Poa pratensis</i> | 2 |
| Needle and thread grass - <i>Stipa comata</i> | 1 |
| Perennial Rye grass - <i>Lolium perenne</i> | 2 |
| <u>FORBS</u> | |
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| Alfalfa - <i>medicago sativa</i> var. <i>ladak</i> | 1/2 |
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STAFF REPORT

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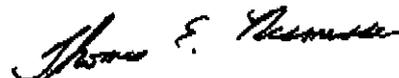
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A Division of PacifiCorp



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| Post-It™ brand fax transmittal memo 7671 | | # of pages ▶ | 5 |
| To | PAM LITTIG | | |
| From | VAL PAYNE | | |
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March 15, 1995

*Fax to Forest Service
and BLM*

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Pamela Grubaugh-Littig

2 (copy)

Val Payne
W. J. [Signature]

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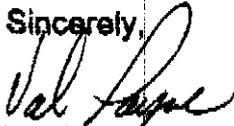
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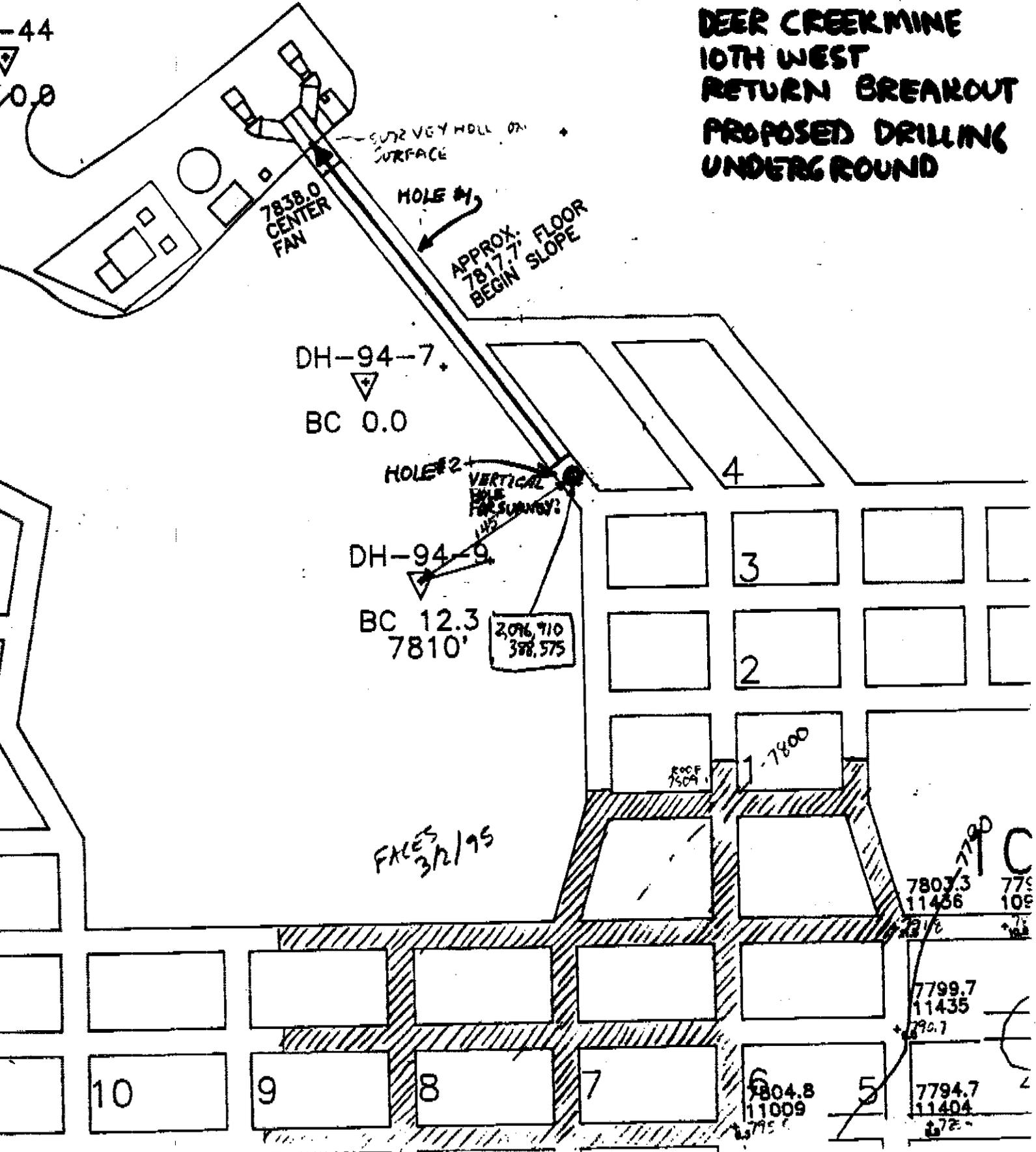
Val Payne

Sr. Environmental Engineer

cc: K. Fleck
M. Moon
C. Semborski
B. Webster
File

7837'

DEER CREEK MINE 10TH WEST RETURN BREAKOUT PROPOSED DRILLING UNDERGROUND



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| Alfalfa - <i>medicago sativa</i> var. <i>ladak</i> | 1/2 |
| Pacific Aster - <i>Aster chilensis</i> | 1/4 |
| Louisiana Sage - <i>Artemisia Ludovicana</i> | 1/4 |
| Blue aster - <i>Aster glaucodes</i> | 1/4 |
| <u>SHRUBS (Seed)</u> | |
| Vasey sagebrush - <i>Artemisa trid.</i> var. <i>vaseyana</i> | 1 |
| Four wing saltbrush - <i>Atriplex canescens</i> | 2 |
| Low Rabbitbrush - <i>chrysothamnus vicidiflorus</i> | 1 |
| Snowberry - <i>symphoricarpus oreophilus</i> | 1/2 |
| Curly leaf mahogany - <i>cercocarpus ledifolius</i> | 1/2 |
| <u>SHRUBS/TREES CONTAINER STOCK</u> | |
| Saskatoon service berry - <i>Amelanchier alnifolia</i> | 50 |
| Rocky Mountain Juniper - <i>Juniperus scopulorum</i> | 20 |
| Dogwood - <i>Cornus sericea</i> | 20 |
| Coyote willow - <i>Salix exigua</i> | 50 |
| Booth willow - <i>Salix Boothii</i> | 50 |
| Narrowleaf cottonwood - <i>Populus angustifolia</i> | 100 |
| Douglas Fir - <i>Psuedotsuga menziesii</i> | 10 |
| Squaw currant - <i>Ribes cereum</i> | 20 |

This seed mixture must be consistent with the Utah Seed Act.

- 38. The operator will be held responsible for control of noxious weed infestations found to be a result of this drilling operation.

Moab District
Price River Resource Area
900 North 700 East
Price, Utah 84501

3482
U-06039
(UT-066)

STAFF REPORT

Title: Recommended Plugging Method for the Energy West Helicopter Drill Holes, Rilda Canyon

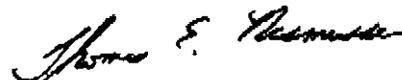
Date: October 27, 1994

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2. The drill holes are located on the upper end of a dip slope.
3. The drill holes are in an area that is probably burned and fractured. There would be a lot of surface leakage in the fractures if cement were used.
4. The drill holes probably will not have much water in them.
5. A helicopter is being used on these holes to reduce the amount of environmental impacts to the surface. The possible resulting spills from mixing cement could cause environmental damage.

Pelletized bentonite can be poured into the holes and reach the bottom of the hole before dissolving, if there is any water left in the hole from drilling. If any water should enter these holes, the bentonite will swell forming a very tight seal in the hole. Pelletized bentonite will not leak out of the surface fractures as cement will.

Therefore, because of these factors, we recommend that Energy West Mining use pelletized bentonite to plug these holes as long as the holes are dry. If any of the holes should make a significant amount of water, then cement must be used. Cement can be emplaced through tubing to get the sealer to the bottom of the hole. We will give a copy of this report to Val Payne of Energy West Mining.



Thomas E. Rasmussen
Price River Resource Area, Geologist

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*          ** TRANSMIT CONFIRMATION REPORT **  
*  
*      Journal No.   : 042  
*      Receiver      :      801 637 4940  
*      Transmitter   : DIV OIL GAS & MINING  
*      Date          : Mar 22,95 16:30  
*      Document      : 06 pages  
*      Time          : 03'15"  
*      Mode          : G3 NORMAL  
*      Result        : OK  
*  
*****
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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

355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203
 801-538-5340
 801-359-3940 (Fax)
 801-538-5319 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING
 FACSIMILE COVER SHEET

DATE: March 22, 1995
 FAX # 1-801-637-4940
 ATTN: Carter Reed
 COMPANY: FS
 FROM: JAM & L
 DEPARTMENT: DOG M
 NUMBER OF PAGES BEING SENT (INCLUDING THIS ONE): 6

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We are sending from a Murata facsimile machine. Our telecopier number is (801) 359-3940.

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This would
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other.....
Do you have any problems?
Prof.
Please let me know...
JAM

Important: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above addressed via regular postal service. Thank you.

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A Division of PacifiCorp

*BLM Lead
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| To <i>PAM LITTIG</i> | From <i>VAL PAYNE</i> | |
| Co. | Co. | |
| Dept. | Phone # | |
| Fax # <i>(801) 359-3740</i> | Fax # | |

March 15, 1995

*Fax to Forest Service
and BLM*

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Pamela Grubaugh-Littig

2 (copy)

~~_____~~
Val Payne

RE: UNDERGROUND DRILL HOLES TO SURFACE, PACIFICORP, DEER CREEK MINE, ACT/015/018, EMERY COUNTY, UTAH

PacifiCorp requests approval to drill two (2) drill holes from the underground workings in the area of the Rilda Canyon fan entry to the surface (see attached drawing). The drill holes will facilitate confirmation of underground and surface surveying accuracy.

One hole will be drilled along the bearing of the proposed return (fan) entry, at such an angle as to approximate the proposed bearing and grade (upward at 8%) of the entry. This hole will intersect the subcrop/alluvium boundary and reach the surface near the proposed location of the fan portal.

The second hole will be drilled vertically from the return entry at the location shown on the enclosed drawing. The hole will surface near the location of drill hole DH-94-9, which was drilled from the surface in the fall of 1994.

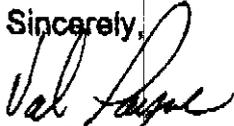
Each drill hole will be three (3) inches in diameter. Casing will not be installed. Upon completion of surveying, the vertical hole will be plugged at the surface using "hole plug" (pelletized bentonite). Following plugging, any surface impacts will be repaired using the same techniques (hand raking and hand broadcasting) and certified seed mixture as were used during the drilling in 1994. A copy of the seed mixture is attached. Please note that, as was agreed to with the Forest Service in 1994, no container stock shrub or tree species are included in the mixture. Because of the small amount of surface disturbance associated with the helicopter drilling in 1994, inclusion of container stock was determined to be unnecessary. Surface disturbance associated with the underground drilling will be even less than what occurred in 1994.

Impacts to the surface will be minor, resulting only from the drill steel breaking through the soil and possibly a small amount of water spraying from the drill steel. The water flow will be terminated as soon as it is determined that the drill has reached the surface; therefore, very little water will reach the surface. Additionally, personnel will be present on the surface to control water flow, if necessary.

Applicant desires to conduct the drilling as soon as possible; therefore your immediate attention to this matter is appreciated.

If you require further information, please call me at 653-2312, ext. 16.

Sincerely,



Val Payne

Sr. Environmental Engineer

cc: K. Fleck
M. Moon
C. Semborski
B. Webster
File

35. Any reclaimed roads must be signed and blocked off to discourage vehicle access by the public.

36. Reclamation efforts will be diligently pursued. Revegetation will be considered successful when 90% of the pre-disturbance ground cover is re-established over the entire disturbed area, with no noxious weeds. Adjacent undisturbed areas will be used as a base for comparison of ground cover. Of the vegetative ground cover, at least 90% must consist of seeded or other desirable species. 90% ground cover must be maintained for three years.

37. Seeding will be done with the following certified seed mix:

| Species | pounds/acre |
|--|-------------|
| <u>GRASSES</u> | |
| Blue bunch wheatgrass - <i>Agropyron spicatum</i> | 2 |
| Streambank wheatgrass - <i>Agropyron riparian</i> | 2 |
| Western wheatgrass - <i>Agropyron smithii</i> | 2 |
| Intermediate wheatgrass - <i>Agropyron intermedium</i> | 2 |
| Kentucky bluegrass - <i>Poa pratensis</i> | 2 |
| Needle and thread grass - <i>Stipa comata</i> | 1 |
| Perennial Rye grass - <i>Lolium perenne</i> | 2 |
| <u>FORBS</u> | |
| Cicer milkvetch - <i>astragalus cicer</i> | 1 |
| Yellow sweet clover - <i>melilotus officinalis</i> | 1/2 |
| Alfalfa - <i>medicago sativa</i> var. <i>ladak</i> | 1/2 |
| Pacific Aster - <i>Aster chilensis</i> | 1/4 |
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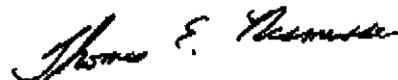
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