



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

McCombie
ACT/015/018

In Reply Refer To:
3410
UTU-78762
(UT-932)

JAN 10 2000

CERTIFIED MAIL—Return Receipt Requested

Mr. Lowell Braxton, Director
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED

JAN 12 2000

DIVISION OF OIL, GAS & MINING

Dear Mr. Braxton:

An application for a coal exploration license, assigned serial number UTU-78762, was filed in this office on December 22, 1999, by Energy West Mining Company for lands in Emery County.

The lands being considered in coal exploration license application UTU-78762 are described as follows:

T. 16 S., R. 6 E., SLM, UT
Sec. 24, SE.

T. 16 S., R. 7 E., SLM, UT
Sec. 19, lots 3, 4.

containing 205.61 acres

The application also contains a proposed drilling program on Federal coal lease U-06039. Any questions or comments concerning the application should be addressed to Max Nielson, of my staff, at 539-4038.



Sincerely,

Douglas M. Koza

Douglas M. Koza
Deputy State Director,
Natural Resources

Enclosure
Exploration License Application

RILDA CANYON - RIGHT FORK HELICOPTER DRILLING APPLICATION FEDERAL COAL LEASE U-06039

and

UNLEASED FEDERAL COAL EXPLORATION LICENCE APPLICATION

DECEMBER 1999



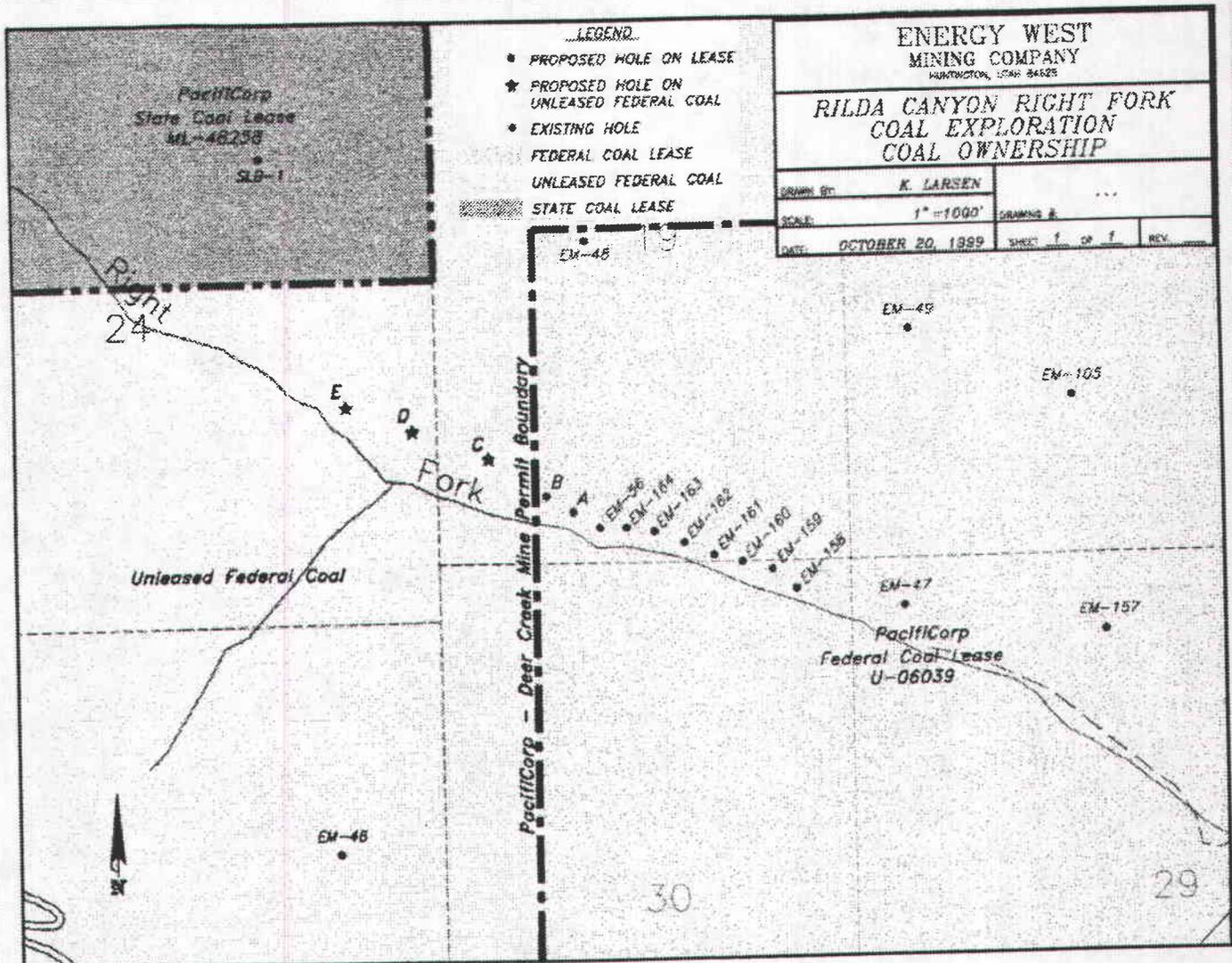
PACIFICORP

UT4-78762

C/O InterWest Mining Co.
(Managing Agent)



Energy West Mining Co.
(Mine Operator)



RILDA CANYON - RIGHT FORK PROPOSED HELICOPTER DRILLING PROGRAM EXPLORATION LICENCE APPLICATION

FEDERAL COAL LEASE U-06039

and

UNLEASED FEDERAL COAL

DECEMBER 1999

 **PACIFICORP**
**Interwest Mining
Managing Agent**


Mine Operator



North Rilda Ridge Helicopter Assisted Drilling

***FEDERAL COAL
EXPLORATION LICENCE APPLICATION
and EXPLORATION PLAN***

DECEMBER 1999

C/O Interwest Mining Company
(Managing Agent)



Energy West Mining Company
(Mine Operator)

FEDERAL COAL EXPLORATION LICENCE APPLICATION

INTRODUCTION

This Exploration Licence Application has been prepared by PacifiCorp-Energy West Mining Company in accordance with requirements of the Code of Federal Regulations, Title 43, Chapter II, Subpart 3410. The proposed exploration area covers land in Emery County, Utah, within which Energy West Mining Company plans to conduct a helicopter assisted drilling program to evaluate potential access routes from existing Federal Coal Lease U-06039 and State Coal Lease ML-48258.

The exploration plan outlined within this Exploration Licence Application complies with the requirements of 43 CFR, Chapter II, Subpart 3482, as required by Section 3410.2-1(a)(3). The exploration plan format designated by the Bureau of Land Management has been followed in this Exploration Licence Application.

The information contained in this Exploration Licence Application demonstrates that environmental protection and reclamation are integral components of the proposed exploration program. In recent years, PacifiCorp has successfully completed similar exploration programs utilizing environmentally sensitive exploration technics in similar terrain.

OUTLINED (43 CFR, CHAPTER II, SUBPART 3410)

3410.2

PRE-LICENCE PROCEDURES

3410.2.1

“APPLICATION FOR AN EXPLORATION LICENCE”

3410.2-1(a)

“EXPLORATION LICENCE APPLICATIONS SHALL BE SUBMITTED AT THE BUREAU OF LAND MANAGEMENT STATE OFFICE HAVING JURISDICTION OVER THE LANDS COVERED IN THE APPLICATION (43 CFR SUBPART 1821)

This Exploration Licence Application is submitted to the Bureau of Land Management District Office in Salt Lake City, Utah which has jurisdiction over the lands covered in this application.

“THE APPLICATIONS SHALL BE SUBJECT TO THE FOLLOWING REQUIREMENTS”

3410.2-1(a)(1)

“NO SPECIFIED FORM OF APPLICATION IS REQUIRED”

3410.2-1(a)(2)

AN AREA IN A PUBLIC LAND SURVEY STATE FOR WHICH AN APPLICATION IS FILED SHALL BE DESCRIBED BY LEGAL DESCRIPTION OR, IF ON UNSURVEYED LANDS, BY METES AND BOUNDS, IN ACCORDANCE WITH 3471.1-1(D)(1) OF THIS TITLE.

The following table lists the legal description of the lands outlined in this application, according to coal plat records maintained by the Bureau of Land Management.

**LEGAL DESCRIPTION
RILDA CANYON - RIGHT FORK
EXPLORATION LICENCE APPLICATION**

Township 16 South, Range 7 East, Salt Lake Meridian, Emery County Utah

Section 19, SW 1/4 (LOTS 3 AND 4) ^{45.61} _{49m}

Containing ~~102.2~~ ^{45.61} acres, more or less _{49m}

Township ⁶ ~~17~~ South, Range 6 East, Salt Lake Meridian, Emery County Utah _{49m}

Section 24, SE 1/4

Containing ^{160.0} ~~157.8~~ acres, more or less _{49m}

TOTAL ACERAGE - ~~260~~ ^{205.61} _{49m 11/3/2003}

3410.2-1(a)(3)

“EACH APPLICATION SHALL CONTAIN THREE COPIES OF AN EXPLORATION PLAN WHICH COMPLIES WITH THE REQUIREMENTS OF 3482.1(a) OF THIS TITLE.”

Three copies of the Exploration Licence Application and Exploration Plan are enclosed.

3410.2-1(a)(4)

“EACH APPLICATION AND ITS SUPPORTING DOCUMENTS SHALL BE FILED WITH A NON-REFUNDABLE FILING FEE (43 CFR 3472.3).”

Enclosed is a check for \$250.00.

3410.2(a)(5)

“EXPLORATION LICENCE APPLICATIONS SHALL NORMALLY COVER NO MORE THAN 25,000 ACRES IN A REASONABLY COMPACT AREA AND ENTIRELY WITHIN ONE STATE.”

The total number acres in the proposed exploration area is approximately 260 acres (exploration licence application is within the 25,000 acre size limitation).

3410.2-1(b)

“NOTHING IN THIS SUBPART SHALL PRECLUDE THE AUTHORIZED OFFICER FROM ISSUING A CALL FOR EXPRESSIONS OF LEASING INTEREST IN A AREA CONTAINING EXPLORATION LICENCES OR APPLICATIONS FOR EXPLORATION LICENCES.”

3410.2.1(c)

“APPLICANTS FOR EXPLORATION LICENCES SHALL BE REQUIRED TO PROVIDE AN OPPORTUNITY FOR OTHER PARTIES TO PARTICIPATE IN EXPLORATION UNDER THE LICENCE ON A PRO COST SHARING BASIS.”

3410.2-1(c)(1)

“IMMEDIATELY UPON THE FILING OF AN APPLICATION FOR AN EXPLORATION LICENCE THE APPLICANT SHALL PUBLISH A “NOTICE OF INVITATION,” APPROVED BY THE AUTHORIZED OFFICER, ONCE EVERY WEEK FOR TWO CONSECUTIVE WEEKS IN AT LEAST ONE NEWSPAPER OF GENERAL CIRCULATION IN THE AREA WHERE THE LANDS COVERED BY THE LICENCE APPLICATION ARE SITUATED. THIS NOTICE SHALL CONTAIN AN INVITATION TO THE PUBLIC TO PARTICIPATE IN THE INVITATION IN THE EXPLORATION UNDER THE LICENCE AND SHALL CONTAIN THE LOCATION OF THE BUREAU OF LAND MANAGEMENT OFFICE IN WHICH THE APPLICATION SHALL BE AVAILABLE FOR INSPECTION. COPIES OF THE NOTICE OF INVITATION SHALL BE FILED WITH THE AUTHORIZED OFFICER AT THE TIME OF PUBLICATION BY THE APPLICANT, FOR POSTING IN THE PROPER BUREAU OF LAND MANAGEMENT OFFICE AND FOR BUREAU OF LAND MANAGEMENT’S PUBLICATION OF INVITATION IN THE FEDERAL REGISTER.”

Upon approval the following notice will be published in the Emery County Progress for two consecutive weeks:

**NOTICE OF INVITATION TO PARTICIPATE
IN COAL EXPLORATION PROGRAM
PACIFICORP - ENERGY WEST MINING COMPANY**

Energy West Mining Company is inviting all qualified parties to participate in its proposed exploration of certain Federal coal deposits in the following described lands in Emery County, Utah:

Township 16 South, Range 7 East, Salt Lake Meridian, Emery County Utah

Section 19, SW 1/4 (lots 3 and 4)

*45.61
Containing 102.2 acres, more or less*

Township 17⁶ South, Range 6 East, Salt Lake Meridian, Emery County Utah

Section 24, SE 1/4

*160.88
Containing 157.8 acres, more or less*

Any party electing to participate in this exploration program must send a written notice of such election to the Bureau of Land Management, Utah State Office, 324 South Street, Suite 301, Salt Lake City, Utah 84111, and to Energy West Mining Company, P.O. Box 310, Huntington, Utah 84528. Such written notice must be received within thirty days after publication of this notice in the Federal Register.

3410.2-1(c)(2)

“ANY PERSON WHO SEEKS TO PARTICIPATE IN THE EXPLORATION PROGRAM CONTAINED IN THE APPLICATION SHALL NOTIFY THE AUTHORIZED OFFICER AND THE APPLICANT IN WRITING WITHIN 30 DAYS AFTER THE PUBLICATION IN THE FEDERAL REGISTER. THE AUTHORIZED OFFICER MAY REQUIRE MODIFICATION OF THE ORIGINAL EXPLORATION PLAN TO ACCOMMODATE THE LEGITIMATE EXPLORATION NEEDS OF PERSONS SEEKING TO PARTICIPATE, AND TO AVOID THE DUPLICATION OF EXPLORATION

ACTIVITIES IN THE SAME AREA, OR MAY NOTIFY THE PERSON SEEKING TO PARTICIPATE THAT THE PERSON SHOULD FILE A SEPARATE APPLICATION FOR AN EXPLORATION LICENCE.”

3410.2-1(d)

“AN APPLICATION TO CONDUCT EXPLORATION WHICH COULD HAVE BEEN CONDUCTED AS A PART OF EXPLORATION UNDER AN EXISTING OR RECENT COAL EXPLORATION LICENCE MAY BE REJECTED.”

**RILDA CANYON - RIGHT FORK
HELICOPTER ASSISTED DRILLING
EXPLORATION PLAN
FEDERAL COAL LEASE U-06039**

**and
UNLEASED FEDERAL COAL
DECEMBER 1999**

C/O Interwest Mining Company
(Managing Agent)



Energy West Mining Company
(Mine Operator)



1995 NORTH RILDA RIDGE HELICOPTER ASSISTED DRILLING

**NORTH RILDA RIDGE
HELICOPTER DRILLING APPLICATION
FEDERAL COAL LEASE U-06039
and
UNLEASED FEDERAL COAL
EXPLORATION LICENCE APPLICATION
DECEMBER 1999**

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- RILDA CANYON - RIGHT FORK HELICOPTER DRILLING - 1999 COAL OWNERSHIP*
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PACIFICORP

RILDA CANYON 1999 HELICOPTER DRILLING PLAN

INTRODUCTION:

PacifiCorp proposes to drill up to five (5) coal exploration holes in the Right Fork of Rilda Canyon. The purpose for drilling is to explore potential access routes from the existing Deer Creek Mine workings to the Mill Fork State Coal Lease ML 48258. All holes will be drilled using a helicopter transported drill rig in accordance with the following plan. Less than 250 tons of coal will be removed.

LOCATION AND DEPTH OF PROPOSED DRILL HOLES:

Five (5) potential drill sites are indicated on the accompanying drawings. The approximate locations, depths and elevations of the holes are as follows:

A	420' North, 1100' East of the SW Corner of Sec. 19, T. 16S, R. 7E.	8405	635	USFS	BLM LEASE U-06039
B	540' North, 900' East of the SW Corner of Sec. 19, T. 16S, R. 7E.	8480	700	USFS	BLM LEASE U-06039
C	830' North, 420' East of the SW Corner of Sec. 19, T. 16S, R. 7E.	8640	835	USFS	UNLEASED FEDERAL COAL
D	1500' North, 210' West of the SE Corner of Sec. 24, T. 16S, R. 6E.	8805	955	USFS	UNLEASED FEDERAL COAL
E	1700' North, 750' West of the SE Corner of Sec. 24, T. 16S, R. 6E.	8820	930	USFS	UNLEASED FEDERAL COAL

FEDERAL COAL EXPLORATION PLAN
EXPLORATION LICENCE APPLICATION

In accordance with Federal Regulations 43 CFR 3482.1 (a), 30 CFR 772.11 and State of Utah R645 Coal Mining Rules, the following is submitted:

APPLICANT:

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

OPERATOR:

Energy West Mining Company
15 North Main Street
Huntington, Utah 84528
(435)687-9821

RESPONSIBLE REPRESENTATIVE:

Charles Semborski or Ken Fleck
Energy West Mining Company
15 North Main Street
Huntington, Utah 84528
(435)687-4720

PROJECT STARTUP DATE: June 30, 2000

PROJECT COMPLETION DATE: September 15, 2000

**FEDERAL COAL EXPLORATION PLAN
EXPLORATION LICENCE APPLICATION**

PROPOSED EXPLORATION AREA:

The proposed drilling is located within the current Deer Creek Mine permit boundary. Drill Holes A and B are located in Section 19, Township 16 South, Range 7 East, Salt Lake Base and Meridian, within Federal Coal Lease U-06039, and Drill Holes C, D and E are located in Sections 19, Township 16 South, Range 7 East and 24, Township 16 South, Range 6 East, Salt Lake Base and Meridian, in unleased Federal Coal. The drilling will occur on Federal land with the surface administered the United States Forest Service (USFS) and the subsurface by the Bureau of Land Management (BLM) [The reviewer is referred to the accompanying maps entitled Rilda Canyon - Right Fork 1999 Helicopter Exploration Drilling, Surface Ownership Map, Coal Ownership Map].

The proposed holes will be drilled in the Right Fork of Rilda Canyon, a tributary to Huntington Canyon in Emery County, Utah. The proposed sites are situated below the Castle Gate escarpment in very steep terrain with side slopes of approximately 45 percent (2h:1v). The holes are located in the upper Blackhawk Formation at elevations ranging from 8400 to 8800'.

VEGETATION and WILDLIFE:

The vegetation in the area consists of a Cottonwood/Aspen/Fir/Dogwood community in the bottom of the canyon and Spruce-Fir Coniferous Forest inter-mixed with Salina Wildrye/Mountain Mahogany on the south side slope and Salina Wildrye/Mountain Mahogany/Pinyon-Juniper on the north slope. The primary land uses associated with the area are wildlife habitat and recreation. The area is presently classified for the following wildlife uses by the Utah Division of Wildlife Resources (DWR):

Mule Deer	High Priority Summer Range
Elk	Critical Winter Range and High Priority Summer Range

The proposed drilling is not expected to have a detrimental impact on any of these species, their habitat or other land uses associated with the area.

Surveys for Threatened, Endangered and Sensitive (TES) plant and animal species have been conducted in connection with various projects in this area of Rilda Canyon (Surface Facilities, Permit Extension and Power Line). Results of these surveys have been provided to the various regulatory agencies in the applications for the projects. No TES plants and animals have been found in the areas of the proposed drill holes. Based upon the 1999 raptor survey completed with DWR, all of the proposed activity is outside the ½ mile buffer zones of the nests located in Mill Fork Canyon.

FEDERAL COAL EXPLORATION PLAN EXPLORATION LICENCE APPLICATION

ARCHAEOLOGICAL INFORMATION:

The United States Forest Service - Manti-LaSal National Forest was contacted regarding the need for a cultural resource survey associated with the drilling project. A cultural resource survey is not recommended by that agency due to the low potential.

EXPLORATION METHODS:

Pre-Work Meeting:

A pre-work meeting including the responsible company representatives, contractors, Bureau of Land Management, and the Forest Service will be conducted at the project location prior to commencement of operations.

Road Use Permit:

The Forest Service will be notified 48 hours in advance that heavy equipment will be moved onto National Forest System lands and that surface disturbing activities will commence.

Rilda Canyon Road (Emery County Road #306): Prior to drilling, Energy West will obtain a permit from the Emery County Road Department for the helicopter staging area.

Fire Suppression Equipment:

All gasoline and diesel powered equipment will be equipped with effective mufflers or spark arresters which meet applicable Forest Service specifications. Fire suppression equipment will be available to all personnel working at the project site. Equipment will include at least one hand tool per crew member consisting of shovels and polaskis and one properly rated fire extinguisher per vehicle and/or combustion engine.

Drill Hole Access and Pad Construction:

No access road or pad construction will be necessary for the proposed project. Drilling equipment and materials will be transported to the drill sites by helicopter. Personnel will access the sites by vehicle via existing roads and on foot. The drill sites are relatively level (20 percent or less slope); therefore, minimal site preparation will be necessary. Vegetation, in the form of trees, grasses, forbes and sparse, low shrubs, will not be removed. However, it may be necessary to remove dead-fall and some "taller" shrubs (mahogany, etc.). This will be minimized and accomplished using hand tools. The dead-fall will be replaced upon completion of drilling. An area no larger than approximately 40' by 40' will be occupied at each drill site. Leveling of drilling equipment will be accomplished using hand tools and supports (wood blocks, etc.) transported to the site by helicopter. All materials, tools and equipment will be removed upon completion of drilling and reclamation activities.

Water Requirements & Rights:

Water will be pumped directly from Rilda Canyon Creek. A gasoline/diesel powered water pump will be stationed near the creek and water will be pumped to water tanks located at the drill sites (see map for location of pump station).

The amount of water required for the project is estimated at 20,000 gallons per hole. Therefore, the maximum total quantity of water to be used is estimated at approximately 100,000 gallons (0.22 acre feet). A *Temporary Exchange Application* will be filed and approved with the State of Utah, Division of Water Rights prior to commencement of operations.

Drill Methods & Procedures:

Three inch maximum diameter holes will be core or rotary drilled the entire length to the approximate depths stated previously. Drilling depths will be sufficient to accomplish penetration through both the Blind Canyon and Hiawatha coal seams. The drilling will be done by a drilling contractor experienced in helicopter supported drilling. The drill is a diesel powered rotary drill rig mounted on 4' x 8' skids. Drilling will utilize water and, as necessary, a biodegradable polymer drilling "mud" such as MINEX 1330 (see attached MSDS). The water will be obtained from Rilda Canyon Creek

The following support equipment will be required:

- 3 pickup trucks
- 1 Gas/ Diesel powered water pump

The drill rig components and associated materials, tools and equipment will be transported by truck to the helicopter staging area indicated on the accompanying map. The tools and materials necessary for site preparation will be transported to the drill sites by helicopter. Site preparation will include removal of dead-fall and brush as necessary and installation of silt fence material on the down-slope sides of the site. Minor digging, using hand tools, may be necessary at some locations to achieve effective installation of the silt fence and placement of the leveling support materials (wood blocks, etc.). Brattice or other similar material will be placed on the ground beneath the drill rig which will be transported to the site by helicopter in several "lifts". The drill rig components will be assembled at the drill site, the rig will be leveled and other necessary materials will be flown to the site.

A 1" diameter high-pressure hose will be installed from the pump stations to the drill sites. The hose will be placed on the ground as indicated on the accompanying map. This will be accomplished by hand and/or helicopter. No clearing of vegetation will be necessary for placement of the water hose. Existing openings among the trees will be utilized. Additionally, no vegetation clearing will occur at the water tank/pump sites or the helicopter staging areas. Activities will be confined to the

**FEDERAL COAL EXPLORATION PLAN
EXPLORATION LICENCE APPLICATION**

existing road in Rilda Canyon. The necessary approvals will be obtained from the Emery County for activities associated with the respective road.

During the drilling operation, water and drilling fluids will be recirculated to the extent possible. Any returned cuttings and other materials will be captured in a container at the drill site. The cuttings will be transported from the drill site to the staging area by helicopter and then by vehicle to the Deer Creek Waste Rock Site for disposal. Containment of possible fluid spills will be achieved through the use of brattice ground cover, silt fence, and if necessary, dirt berms. If spills occur, all affected materials will be removed from the site and disposed of at an approved location. If soil is removed during spill containment and clean-up, the site of removal will be recontoured and seeded with the approved seed mixture.

Fuel and/or lubricating oil containers not stored on a truck will be placed on brattice or other acceptable ground cover at a site located away from drainage channels and surrounded by silt fence, dirt berm or other acceptable containment structure. If spills occur, clean-up will be conducted as stated above.

Access by personnel associated with the drilling projects will be via vehicle to Rilda Canyon and by foot to the drill sites. Therefore, no additional access facilities will be constructed.

As previously discussed, 3" maximum diameter holes will be core or rotary drilled for the entire depth of the holes. The holes will penetrate through both the Blind Canyon and Hiawatha coal seams. This will result in approximately a maximum of 100 pounds of coal being removed per hole. The core and/or cuttings will be examined to determine coal seam characteristics. Drilling is proposed to be completed first at site A (see the accompanying map). The need for, and location of, subsequent drilling will be determined following completion of each hole; however, no more than five (5) holes will be drilled. The drill rig and all associated equipment and materials will be moved to the next drill site by helicopter.

Hole Abandonment:

Groundwater is not anticipated to be encountered in any of the drill holes; therefore, they are not proposed to be retained as water monitoring wells. However, if groundwater is present in any of the holes, this will be reported to the appropriate agencies (BLM, USFS, DOGM) and a determination will be made regarding the transfer and modification of the drill holes to monitoring wells.

Upon completion of down-hole procedures, all drill holes will be properly sealed by emplacing cement from the bottom of the hole to ground level. The cement slurry mixture used to plug and seal the holes will be mixed in compliance with standard cement mixing tables (e.g. Halliburton). Any variance from this procedure will be approved in advance by the Chief of the Price Office.

**FEDERAL COAL EXPLORATION PLAN
EXPLORATION LICENCE APPLICATION**

Drill Site and Pump Station Reclamation:

Following completion of drilling and plugging activities and removal of all materials and equipment from the drill site, the site will be reclaimed. If soil disturbance has occurred, the areas will be repaired and recontoured using hand tools.

The areas will then be reseeded using the following certified seed mixture or a mixture stipulated by the Forest Service.

<u>Species</u>	<u>lbs/acre (PLS)</u>
Intermediate Wheatgrass - <i>Agropyron intermedium</i>	3
Slender Wheatgrass - <i>A. trachycaulum</i>	3
Orchard Grass - <i>Dactylis glomerata</i>	2
Western Wheat Grass - <i>A. smithii</i>	2
Smooth Brome - <i>Bromus inermus</i>	3
Ladak Alfalfa - <i>Medicago sativa ladak</i>	1
Yellow Sweet Clover - <i>Melilotus officinalis</i>	1
Small Burnett - <i>Sanguisorba minor</i>	1
Perennial Ryegrass - <i>Lolium perenne</i>	1

The seed mixture will be hand broadcast using a hurricane spreader and the area will be hand raked following seeding to cover the seed. Following seeding, any dead-fall that was removed from the drill site will be replaced.

Following completion of drilling of the final hole, the drill rig and all associated equipment and materials will be removed by helicopter to the helicopter staging area and transported from the area by vehicle. The water hose, tanks and pumping station and all associated materials and equipment will be removed. All trash and extraneous materials will be removed from the US Forest Service property and disposed of at an approved location.

It is anticipated that all drilling and reclamation activities associated with this project will be completed within 45 days following the date of implementation.



CAD FILE NAME/DISK#: USERS\KUL\USGS\RILDA2000.DWG

ENERGY WEST
MINING COMPANY
 HUNTINGTON, UTAH 84528

RILDA CANYON RIGHT FORK
COAL EXPLORATION
GENERAL LOCATION MAP

DRAWN BY: **K. LARSEN**

SCALE: **NONE**

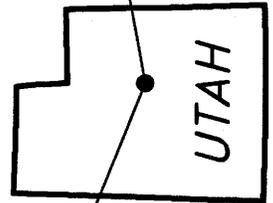
DATE: **OCTOBER 20, 1999**

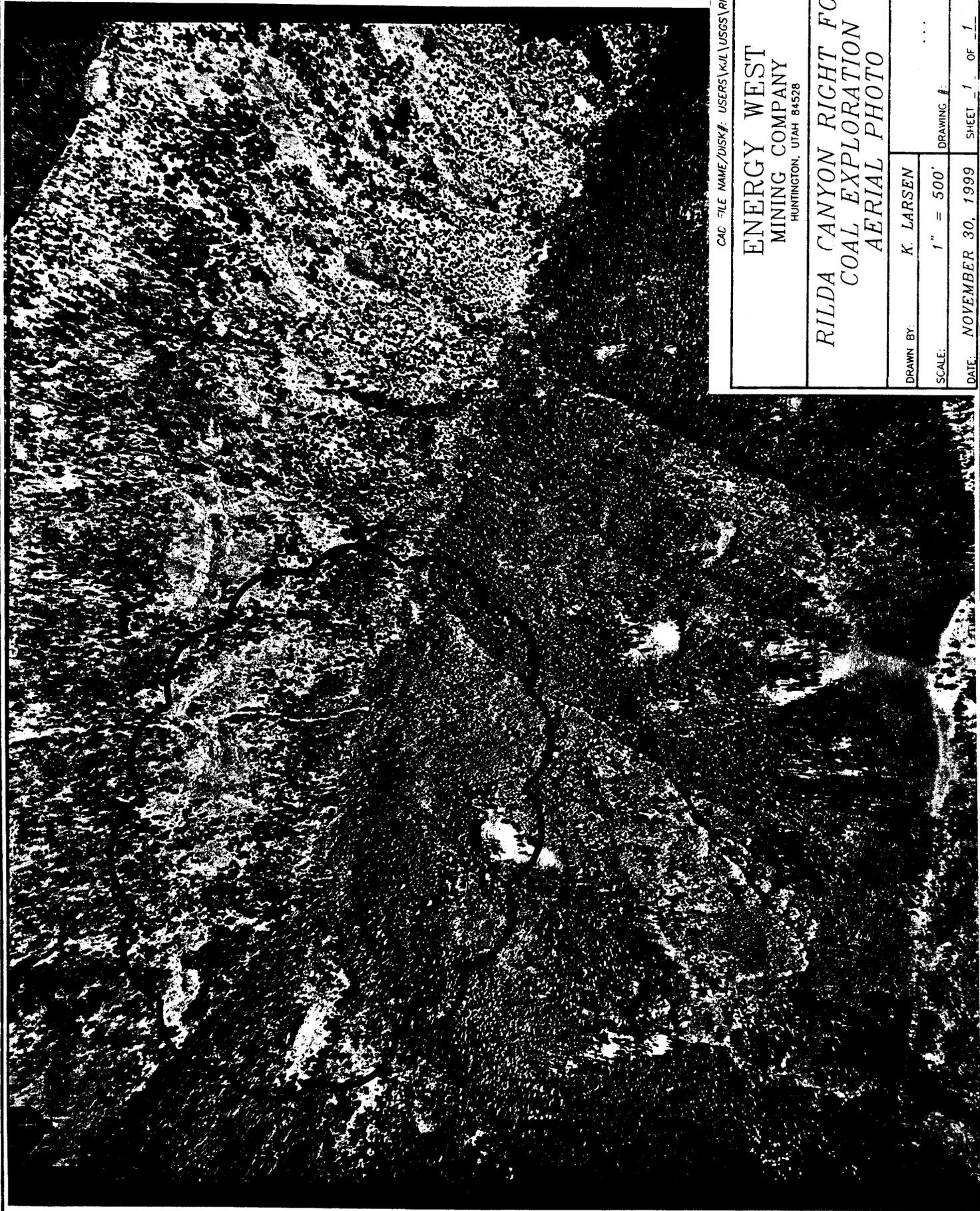
DRAWING #:

SHEET **1** OF **1**

REV.

*Modified from
 Rilda Quadrangle
 7.5 Minute Series*





CAD FILE NAME/DISK# : USERS\KJL\USGS\RILDA2000.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

RILDA CANYON RIGHT FORK
COAL EXPLORATION
AERIAL PHOTO

DRAWN BY: K. LARSEN

SCALE: 1" = 500'

DATE: NOVEMBER 30, 1999

DRAWING #

SHEET 1 OF 1

REV.

**ENERGY WEST
MINING COMPANY**
HUNTINGTON, UTAH 84328

**RILDA CANYON RIGHT FORK
COAL EXPLORATION
TOPOGRAPHY MAP**

DRAWN BY: **K. LARSEN**

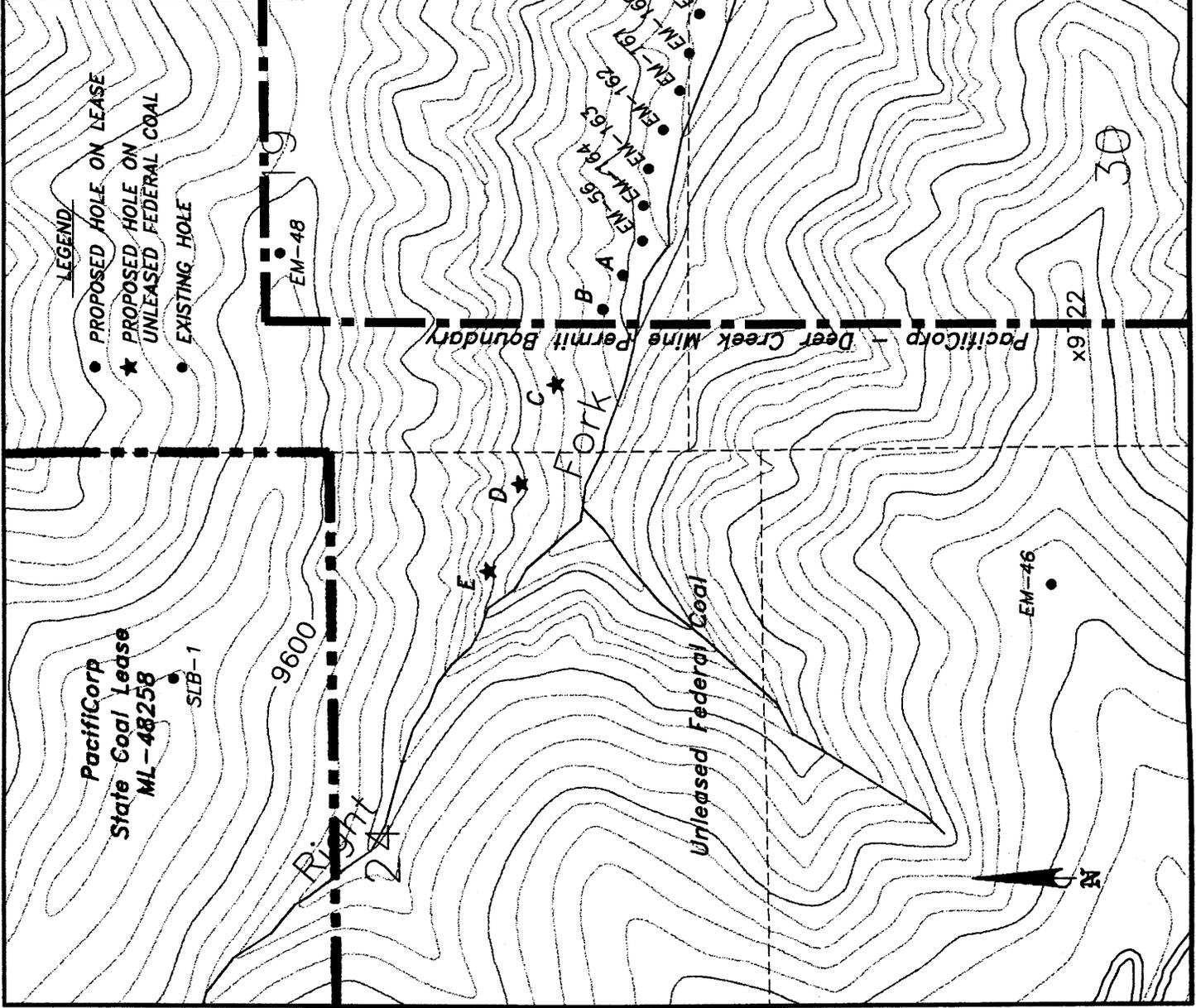
SCALE: **1" = 1000'**

DATE: **OCTOBER 20, 1999** SHEET **1** OF **1** REV.

DRAWING #:

LEGEND

- PROPOSED HOLE ON LEASE
- ★ PROPOSED HOLE ON UNLEASED FEDERAL COAL
- EXISTING HOLE



EM-48

EM-49

EM-105

EM-157

EM-47

8800

PacifiCorp
Federal Coal Lease
U-86039

8800

8000

PacifiCorp - Deer Creek Mine Permit Boundary

PacifiCorp
State Coal Lease
ML-48258

SLB-1

9600

Right Fork

Fork

Unleased Federal Coal

EM-46

x922



ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

RILDA CANYON RIGHT FORK
COAL EXPLORATION
DETAILED SITE PLAN

DRAWN BY: K. LARSEN

SCALE: 1" = 1000'

DATE: OCTOBER 20, 1999

DRAWING #:

SHEET 1 OF 1

REV.

LEGEND

- PUMPING STATION
- WATERLINE
- EXISTING DRILL HOLE
- ★ PROPOSED DRILL HOLES

x9178



SLB-1

EM-48

9600

E

D

C

B

A

FORK

EM-56

EM-164

EM-162

EM-160

EM-159

EM-158

EM-157

EM-156

EM-155

EM-154

EM-153

EM-152

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EM-150

EM-149

EM-148

EM-147

EM-146

EM-145

EM-144

EM-143

EM-142

EM-141

EM-140

EM-139

EM-138

EM-137

EM-136

8800

30

x9722

HELICOPTER
STAGING AREA

29

EM-44

EM-46

EM-105

EM-55

EM-157

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

RILDA CANYON RIGHT FORK
COAL EXPLORATION
SURFACE OWNERSHIP

DRAWN BY: K. LARSEN

SCALE: 1" = 1000'

DATE: OCTOBER 20, 1999

...
DRAWING #:
SHEET 1 OF 1
REV.:

LEGEND

- PROPOSED HOLE ON LEASE
- ★ PROPOSED HOLE ON UNLEASED FEDERAL COAL
- EXISTING HOLE
- U.S. FOREST SERVICE

EM-48

SLB-1

Right
24

E ★
D ★
C ★
Fork

A ●
B ●

EM-56 ●
EM-164 ●
EM-163 ●
EM-162 ●
EM-161 ●
EM-160 ●
EM-159 ●
EM-158 ●

EM-49 ●

EM-105 ●

EM-47 ●

EM-157 ●

EM-46 ●



30

29

**ENERGY WEST
MINING COMPANY**
HUNTINGTON, UTAH 84528

**RILDA CANYON RIGHT FORK
COAL EXPLORATION
COAL OWNERSHIP**

DRAWN BY: **K. LARSEN**

SCALE: **1" = 1000'**

DRAWING #:

DATE: **OCTOBER 20, 1999** SHEET **1** OF **1** REV.

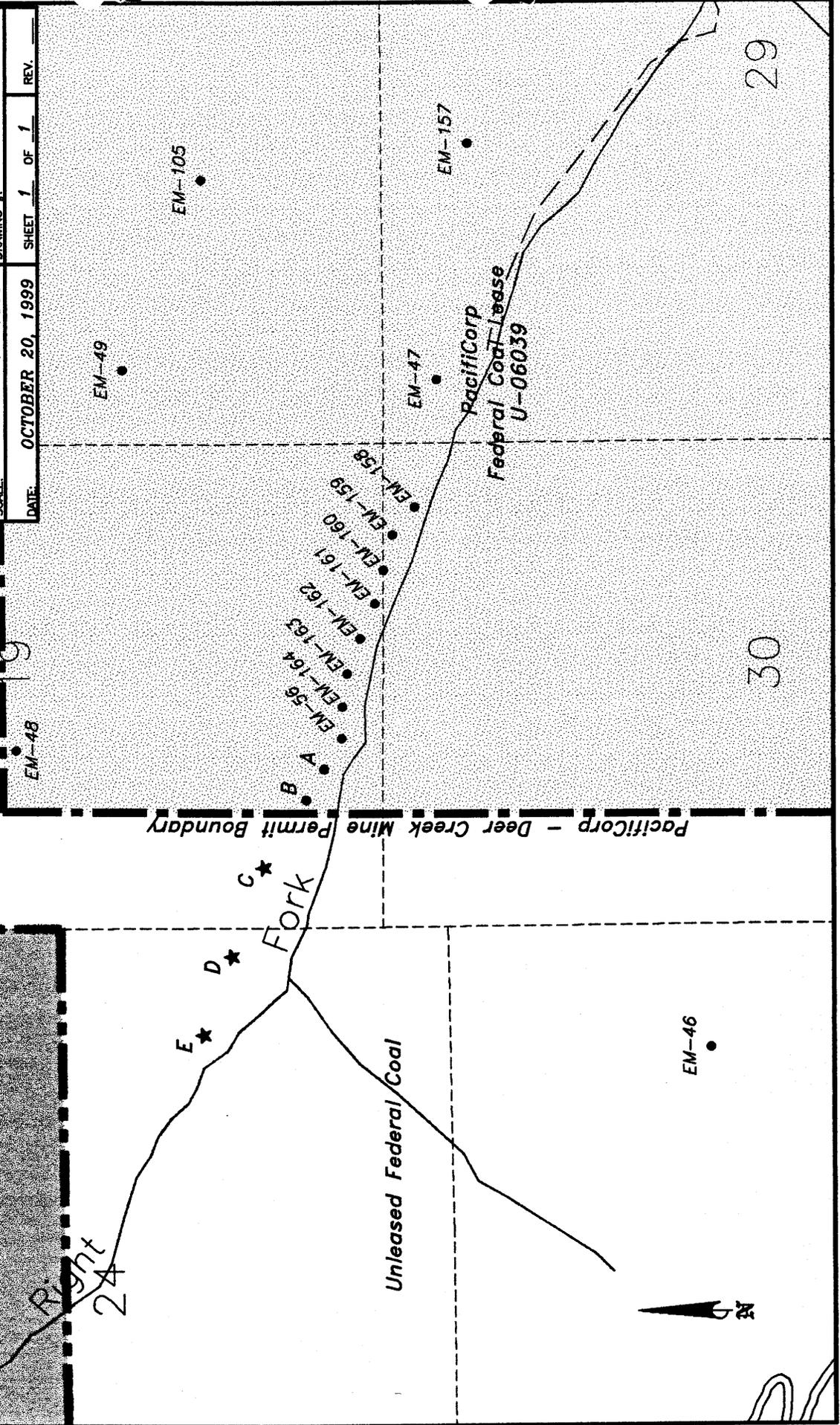
LEGEND

- PROPOSED HOLE ON LEASE
- ★ PROPOSED HOLE ON UNLEASED FEDERAL COAL
- EXISTING HOLE
- ▨ FEDERAL COAL LEASE
- ▨ UNLEASED FEDERAL COAL
- ▨ STATE COAL LEASE

**PacifiCorp
State Coal Lease
ML-48258**

SLB-1

Right
24



29

30

EM-46

EM-49

EM-105

EM-157

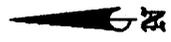
EM-47

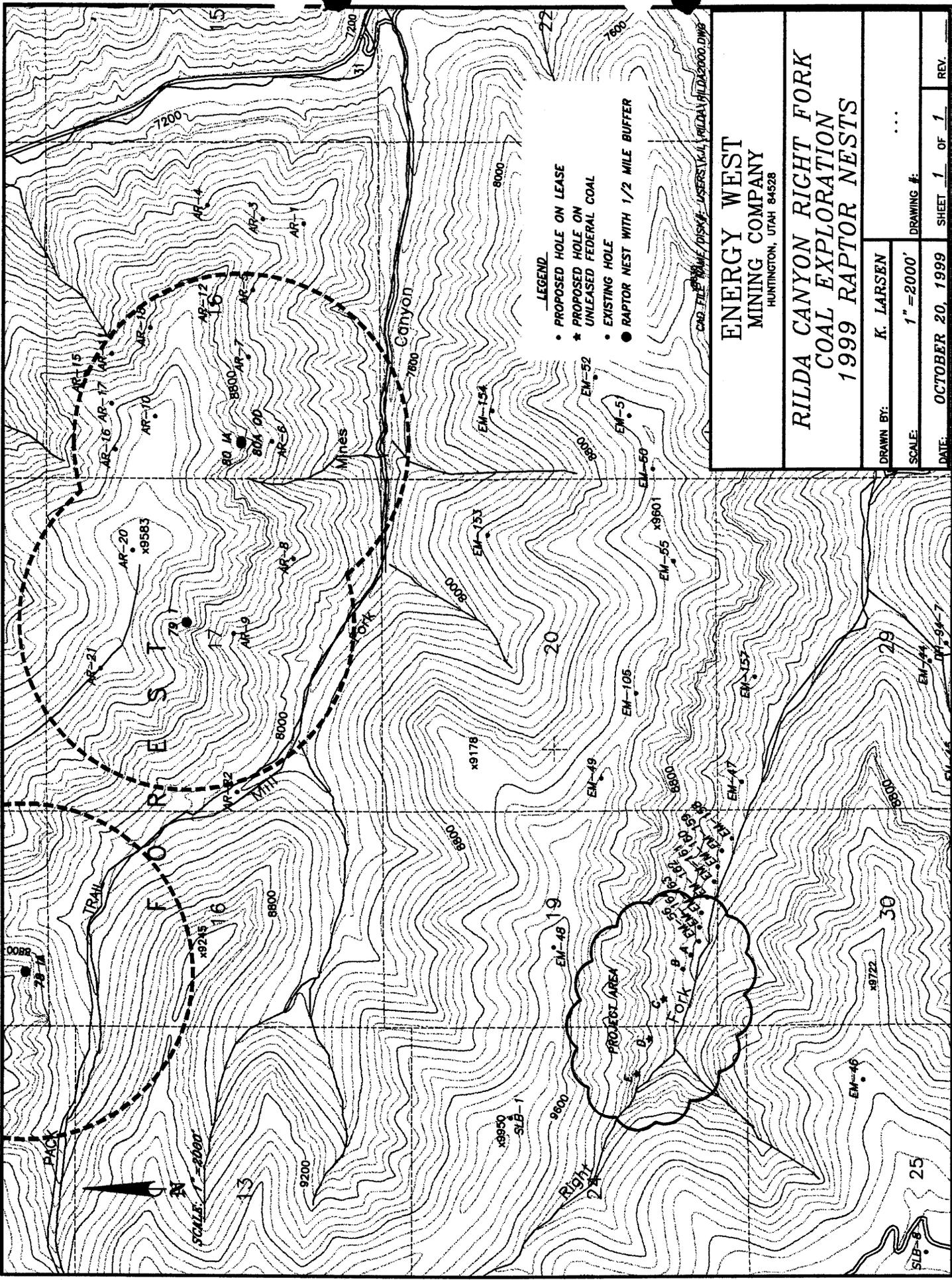
PacifiCorp
Federal Coal Lease
U-06039

PacifiCorp - Deer Creek Mine Permit Boundary

Fork

Unleased Federal Coal





- LEGEND**
- PROPOSED HOLE ON LEASE
 - ★ PROPOSED HOLE ON UNLEASSED FEDERAL COAL
 - EXISTING HOLE
 - RAPTOR NEST WITH 1/2 MILE BUFFER

ENERGY WEST
MINING COMPANY
 HUNTINGTON, UTAH 84528

RILDA CANYON RIGHT FORK
COAL EXPLORATION
1999 RAPTOR NESTS

DRAWN BY: K. LARSEN

SCALE: 1" = 2000'

DATE: OCTOBER 20, 1999

SHEET 1 OF 1

REV.

CAD FILE NAME: DISK4 - USERS\KAL\RLDA\HILDA\2000.DWG