

FORDING COAL LIMITED

FORDING RIVER OPERATIONS

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ANNUAL RECLAMATION REPORT ON
COAL EXPLORATION IN 1978

AND

THE PROPOSED PROGRAM FOR 1979

K. P. D. 1979

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

Ken Clarke
Reclamation Technician
Environmental Services
March 21, 1979

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RECLAMATION REPORT

1.0 INTRODUCTION

Fording Coal Limited is presently in it's seventh year of a fifteen year contract to provide 3 million long tons of clean metallurgical coal per annum to Japanese markets. In compliance with subsection 1, 2, and 3 of section 8 in the Coal Mines Regulations Act, the following reports on reclamation of coal exploration activities by Fording in 1978 and a submission of proposals for 1979.

2.0 ENVIRONMENTAL PROTECTION

2.1 PLANNING

All exploration proposals are reviewed jointly by both the Environmental Services and the Geology departments of Fording Coal Limited. Main concerns include; road and drill site locations, drainage control, land capabilities for other resources, pre-logging requirements and reclamation requirements (to follow).

It is Fording's policy to return disturbances back to their natural state.

2.2 FIELD ACTIVITIES

All field work follows the "Guidelines for Coal and Mineral Exploration" prepared by the Ministry of Mines and Petroleum Resources also all field work is inspected and approved by environmental personnel prior to construction.

3.0 1978 EXPLORATION PROGRAM

The exploration program initially involved exploration in the following areas:

- a) Greenhills Area
- b) Turnbull Mountain Area
- c) Lake Mountain Area
- d) Clode Pit Area
- e) West Turnbull

Once this program was completed in early September, an expansion to the program included the following areas:

- i) Kilmarnock Creek Area
- ii) Henretta Creek Area
- iii) Elk Valley Area

These areas are all located in South Eastern British Columbia. A location map is reproduced in figure 1.

Completion of this program was in late November. Except for two instances, all field work went as planned.

The first instance concerned the most north easterly hole proposed in the Henretta area. The access to this hole proved to be in too wet of terrain, therefore the access was relocated to come in from the north east off of the McQuarrie Creek road. The hole was also relocated to the north side of Henretta Creek, to avoid crossing the creek with the access road.

The second instance concerned the most westerly hole in the Elk Valley area. This hole proved to be located in an area with too much overburden, therefore the hole was abandoned and relocates south easterly along the Kananaskis-Elk powerline access road.

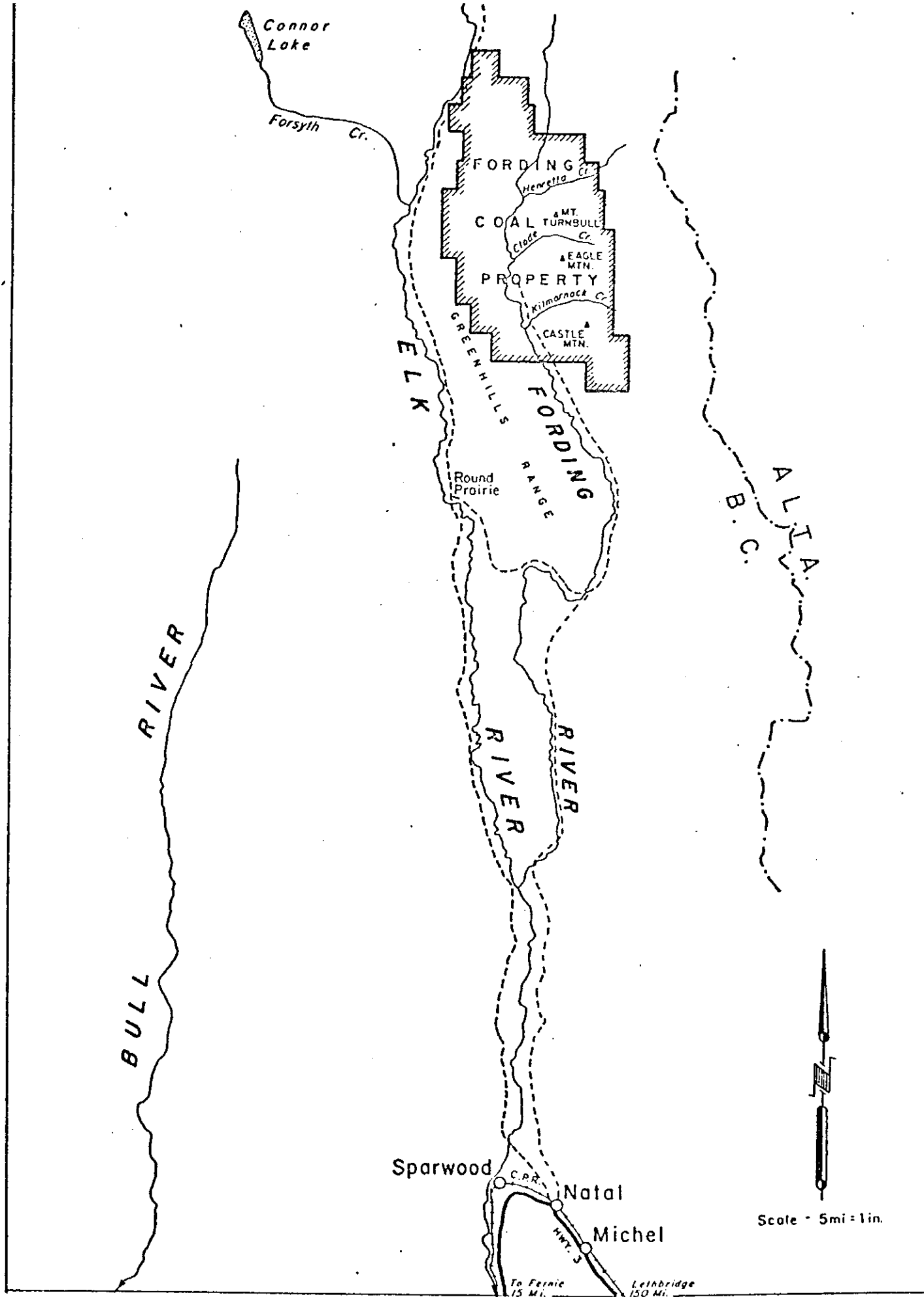


Figure 1
REGIONAL LOCATION MAP

3.1 FORMS - Notice of Work on Coal Licences for 1978

Fording River Operations Area
Elk Valley Area
Kilmarnock Creek Area
Henretta Creek Area



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
District Inspector of Mines
Regional Water Rights Engineer

District Forester or Forest Ranger
Regional Fish and Wildlife Office

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations
Coal Licence Numbers: Fording Coal Limited - CL 3344, 345 and 349

2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g., B2E/9E) 82J/2
Lat. 50° 10' Long. 114° 52' Locality and Access: Fording River area via Sparwood and Elkford

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 171898
Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording River Operations Free Miner's Cert. No. 171898
Company Fording Coal Limited Telephone No. 865-2231
Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From February, 1979 to March, 1979

6. ACTUAL DATE WORK COMPLETED: Day N/A Month _____ 19__

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 10

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet.)

a. Lincutting (distance, width, method) Nil
(Requires approval of Forest Service. "Licence to Cut" or "Free Use Permit" may be withheld until Reclamation Permit approval.)

Drilling - No. of Sites 14 (all in cleared area) Total Area 8,400 square metres

Road Construction - Total Length 660 metres Approximate Width 6 metres

Underground Exploration Nil (type)

Trenching - Number None Total Length _____ metres Width _____ metres

Test Pitting - Number Nil Total Disturbed Area _____ square metres

Work by Self and Name of Contractor S.B.S. Drilling
(Owner is responsible for ensuring the Contractor complies with pertinent regulations, see section 8, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: upon receipt of this notice.
Name and Title of Forest Official J.L. Humphrey, Ranger, B.C.F.S.
Address Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act, "...where the employment of mechanical equipment is likely to disturb the surface of the land in clearing, strapping, trenching..." the Application for a Reclamation Permit on the reverse side of this form is to be submitted.

SIGNATURE OF APPLICANT P.M. Daignault TITLE Senior Mine Geologist
PRINT NAME P.M. Daignault DATE January 22, 1979



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
 MINERAL RESOURCES BRANCH
 INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
 District Inspector of Mines
 Regional Water Rights Engineer

District Forester or Forest Ranger
 Regional Fish and Wildlife Office

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations (Elk Valley Area)
 Coal Licence Number: Cominco Ltd., C.L. 541,543

2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g. 82E/9E1) 82J/2
 Lat. 50° 10' Long 114° 52' Locality and Access _____

3. OWNER: Name: Cominco Ltd. Free Miner's Cert. No. 163806
 Address: 200 Granville Square City: Vancouver Prov. B.C.

4. OPERATOR: Name: Fording Coal Limited Free Miner's Cert. No. 171898
 Company: Fording River Operations Telephone No. 425-6263
 Address: P.O. Box 100 City: Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From September 1/78 to November 1/78

6. ACTUAL DATE WORK COMPLETED: Day 12 Month November 19 78

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 6

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet)
 Linecutting (distance, width, method) Nil
 (Requires approval of Forest Service, "Licence to Cut" or "Free Use Permit" may be withheld until Reclamation Permit approved.)
 Drilling - No. of Sites 4 previous _____ Total Area 1,200 square metres
 Road Construction - Total Length Nil (roads) metres Approximate Width _____ metres
 Underground Exploration Nil (type) _____
 Trenching - Number Nil Total Length _____ metres Width _____ metres
 Test Pitting - Number Nil Total Disturbed Area _____ square metres
 Work by Self OR Name of Contractor Connors Drilling
 (Owner is responsible for ensuring the Contractor complies with pertinent regulations, see section 8, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: August 24, 1978
 Name and Title of Forest Officer: J.L. Kuzphrey, Ranger, B.C.F.S.
 Address: Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act, where the employment of mechanical equipment is likely to disturb the surface of the land in clearing, striping, trenching, etc. the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT P.M. Daignault TITLE Senior Mine Geologist
 PRINT NAME P.M. Daignault DATE January 22, 1979



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
District Inspector of Mines
Regional Water Rights Engineer

District Forester or Forest Ranger
Regional Fish and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited-Fording River Operations (Kilmarnock Creek Area)
Coal Licence Number: Fording Coal Limited C.L. 3899 - 3903 inclusive

2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g., 82E/9E1) 823/2
Lat. 50° 10' Long. 114° 52' Locality and Access Fording River area via Sparwood and Elkford.

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 171898
Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording Coal Limited Free Miner's Cert. No. 171898
Company Fording River Operations Telephone No. 425-5762
Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From September 1/78 to November 1/78

6. ACTUAL DATE WORK COMPLETED: Day 21 Month September 19 78

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 8

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet)
Licensing (distance, width, method) Nil
(Requires approval of Forest Service, 'Licence to Cut' or 'Fire Use Permit' may be withheld until Reclamation Permit approval.)
Drilling - No. of Sites 4 Total Area 1,200 square metres
Road Construction - Total Length existing roads metres Approximate Width _____ metres
Underground Exploration Nil (type)
Trenching - Number _____ Total Length Nil metres Width _____ metres
Test Pitting - Number Nil Total Disturbed Area _____ square metres
Work by Self OR Name of Contractor S.D.S. Drilling
(Owner is responsible for ensuring the Contractor complies with pertinent regulations, see section 8, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: August 24, 1978
Name and Title of Forest Official J.L. Humphrey, Ranger, B.C.F.S.
Address Box 730, Eftic, B.C.

NOTE: Pursuant to section 8, (subsection 2(a)) of the Coal Mines Regulation Act, whenever the employment of mechanical equipment is likely to disturb the surface of the land in clearing, stumping, trenching or the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT: P.M. Daignault TITLE Senior Mine Geologist
PRINT NAME P.M. Daignault DATE January 27, 1979



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
District Inspector of Mines
Regional Water Right Engineer

District Forester or Forest Ranger
Regional Fish and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations (Henrietta Creek Area)
Coal Licence Numbers: Fording Coal Limited 330, 336
2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g., 826/9E) 823/2
Lat. 50° 10' Long. 114° 52' Locality and Access Fording River area via Sparwood
and Elkford.
3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 171898
Address P.O. Box 100 City Elkford Prov. B.C.
4. OPERATOR: Name Fording Coal Limited Free Miner's Cert. No. 171898
Company Fording River Operations Telephone No. 425-6263
Address P.O. Box 100 City Elkford Prov. B.C.
5. ESTIMATED DURATION OF WORK: From September 1/78 to November 1/78
6. ACTUAL DATE WORK COMPLETED: Day 26 Month October 19 78
7. APPROXIMATE NUMBER OF MEN EMPLOYED: 6
8. EXPLORATION WORK: Proposed Completed (Use metric measure - 5 metres = 3.2 feet.)
Lines, pits, trenches, etc., method: Nil
(Requires approval of Forest Service, "Licence to Cut" or "Tree Use Permit" may be required with Excavation Permit approval.)
Drilling - No. of Sites 2 Total Area 500 square metres
Road Construction - Total Length 1,500 metres Approximate Width 8 metres
Underground Exploration Nil (ftap)
Tramming - Number Nil Total Length _____ metres Width _____ metres
Test Piling - Number Nil Total Disturbed Area _____ square metres
Work by S&P OR Name of Contractor Connors Drilling
(Owner is responsible for ensuring the Contractor complies with pertinent regulations, see section 8, Coal Mines Regulation Act.)
9. DATE FOREST SERVICE ADVISED BY OPERATOR: August 24, 1978
Name and Title of Forest Officer: J.L. Humphrey, Ranger, B.C.F.S.
Address Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act, where the employment of mechanical equipment is likely to disturb the surface of the land in clearing, grubbing, trenching, etc. the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT P.M. Daigault TITLE Senior Mine Geologist
PRINT NAME P.M. Daigault DATE January 22, 1979

3.2 EXTENT OF AREA DISTURBED BY EXPLORATION IN 1978

Exploration in 1978 involved only drilling activities, therefore drill pad and access road construction were the only disturbances. The extent and break-down of disturbance by area is summarized in Table 1 below.

AREA	ACTIVITIES CONTRIBUTING TO LAND DISTURBANCE					TOTAL DISTURBANCE (Hectares)
	NEW ROADS	TRENCHES	ADITS	DRILL SITES	TEST PITS	
GREENHILLS	.08	NIL	NIL	.23	NIL	.31
TURNBULL MIN.	NIL	NIL	NIL	.03	NIL	.03
LAKE MIN.	.76	NIL	NIL	.05	NIL	.81
CLODE PIT	NIL	NIL	NIL	.01	NIL	.01
KILMARNOCK CRK.	NIL	NIL	NIL	.15	NIL	.15
HENRETTA CRK.	1.2	NIL	NIL	.06	NIL	1.26
ELK VALLEY	NIL	NIL	NIL	.09	NIL	.09
WEST TURNBULL	.61	NIL	NIL	.09	NIL	.70
TOTALS	2.65			.71		3.36

BREAKDOWN OF 1978 EXPLORATION ACTIVITIES
CONTRIBUTING TO LAND DISTURBANCE

(Figures represented in hectares) Refer to Appendix 1 Overlay 1 for Photo Mosaic outlining areas exploration was active in during 1978.

TABLE 1

4.0 1978 RECLAMATION PROGRAM FOR EXPLORATION ACTIVITIES

Reclamation of past exploration disturbances continued in 1978. The program mainly involved road reclamation although work did include reclamation of drill sites and some trenches. Approximately 19 hectares of exploration disturbances were reclaimed in 1978, with treatments varying depending on site specifics. Table 2 summarizes reclamation accomplished by area, the extent of reclamation and the type of disturbance involved.

Procedures: By using a caterpillar 225 excavator the road surface within the cut section is ripped to provide a cohesive base, then most of the road fill material is returned into the road cut. Once the slope has been restored, it is treated with seed and fertilizer. For seed and fertilizer mixes and rates, refer to section 4.12.1.

Advantages:

- removes access
- stabilizes the cut bank to prevent sluffing
- totally restores natural drainage
- is aesthetically pleasing
- provides a suitable seed bed for both artificial and natural revegetation

Technique: (B) * for before and after outlines of the road surface refer to figure 2B.

Type of Disturbance: Old exploration access which has grown over with natural vegetation

Objective: To stabilize the cut bank along the road access; saving as much vegetation as possible, both on the road surface and in the area to be stabilized, also to restore drainage and prevent erosion.

Procedure: The cut bank is resloped to a stable angle of repose by using a caterpillar 225 excavator. In this resloping technique, care is taken to minimize the destruction of vegetation within the area to be resloped. In alpine locations, the vegetation is in sod form and can be salvaged and located on the slope after stabilization, thus reducing the amount of re-vegetation needed after site treatment. All areas along the road surface lacking vegetative cover are ripped up with the excavator bucket to break up the surface compaction. Once these site treatments are completed, all areas not vegetated are seeded and fertilized.

Advantages:

- hastens the stabilization of the cut bank, allowing vegetation to establish
- reduces the requirements for artificial revegetation
- restores the drainage pattern. Problem areas are totally restored (gulleys, high erosion areas, etc.)

AREA	TYPE OF DISTURBANCE					AREA RECLAIMED (Hectares)
	ROAD	ADIT	DRILL SITE	TEST PIT	TRENCHES	
UPPER FORDING VALLEY	*		*			1.4
HENRETTA RIDGE	*					.4
SOUTH SLOPE OF HENRETTA MIN.					*	.9
UPPER CLODE BASIN	*					5.5
EAGLE MIN. (South Aspect)	*		*			2.5
CASTLE MIN. (North Aspect)	*		*			6.4
TURNBULL MIN.					*	1.0
RIVER FLATS NORTH OF THE MINESITE	*		*			1.2
TOTAL AREA RECLAIMED						19.3 Hectares

RECLAMATION OF EXPLORATION DISTURBANCES BY AREA

TABLE 2

Refer to Appendix 1 Overlay 3 for photo mosaic outlining area reclamation was carried out in during 1978.

4.1 METHODS AND TREATMENTS

4.11 SITE PREPARATION

In 1978, various site preparation techniques were applied at an operational scale. The following, outlines each technique and the reasoning behind them. The area in which each technique was applied can be identified by noting the letter reference for each technique then referring to the photo mosaic. (Appendix 1)

Technique (A) * for before and after outlines of the road surface refer to figure 2A.

Type of Disturbance: fresh exploration access lacking any vegetative cover.

Objective: To totally restore the slope back to it's natural angle of repose, revegetate it, restore drainage and prevent erosion.

Technique (C) * for before and after outlines of the road surface, refer to figure 2C

Type of Disturbance: old exploration access on level ground lacking cut and fill slopes. Road has practically overgrown.

Objective: To establish vegetation on the complete road surface, restore drainage and prevent erosion.

Procedure: All areas along the road surface without vegetative cover are ripped up with a caterpillar 225 excavator bucket to break up surface compaction. The treated areas are now seeded and fertilized. A dozer with a ripper can also be used in this situation.

Advantages: - minimizes the requirements for artificial revegetation
- creates a more permeable road surface for run-off considerations

Technique (D) * for before and after outlines of the road surface refer to figure 2D

Type of Disturbance: fresh exploration access on level ground lacking any vegetation

Objective: To totally remove the road; establish a vegetative cover; re-establish drainage and prevent erosion.

Procedure: By using a small dozer with an attached ripper the road surface is ripped to provide a more cohesive base; then side cast material from the road construction is pushed back over the road surface. After site treatment, the road surface is seeded and fertilized.

Advantages: - provides a more suitable seed bed to establish vegetation on
- is aesthetically pleasing
- removes access
- restores drainage

4.12 SEEDING, FERTILIZING PROGRAM

All sites outlined in section 4.11 were seeded and fertilized immediately after site preparation was completed. Reference to overlay 3 in Appendix 1 shows the location of these areas.

SITE PREPARATION TECHNIQUES

slope outlines (before / after)

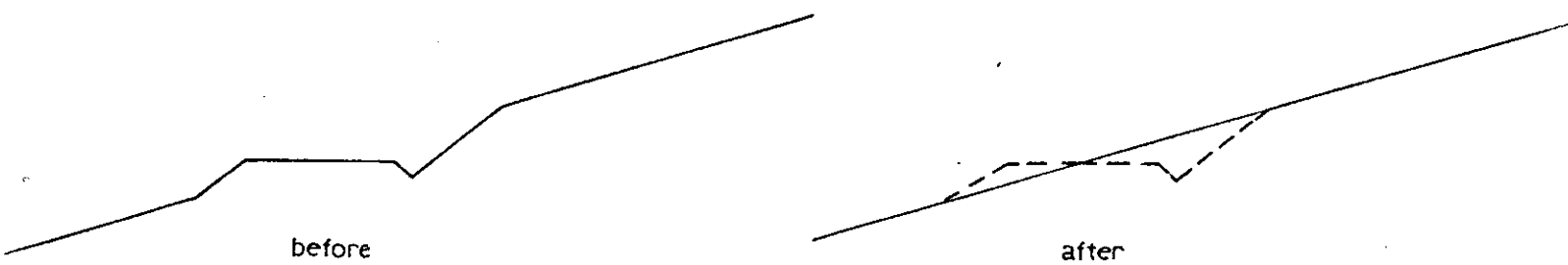


figure 2A

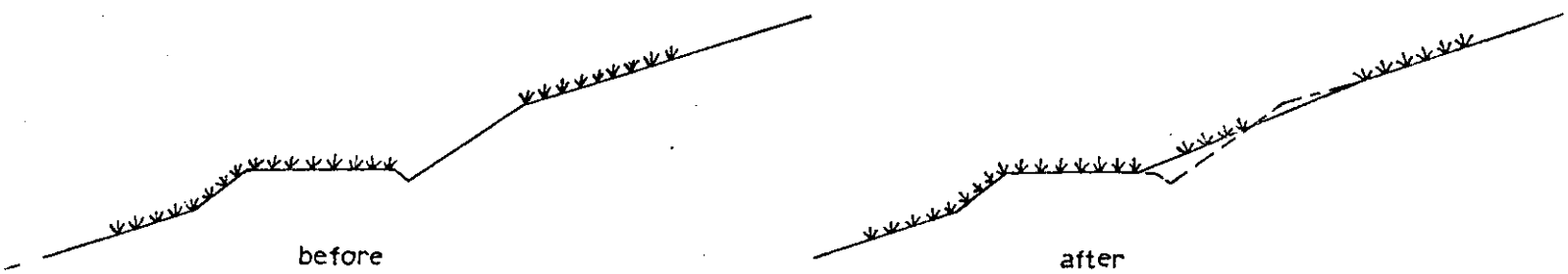


figure 2B

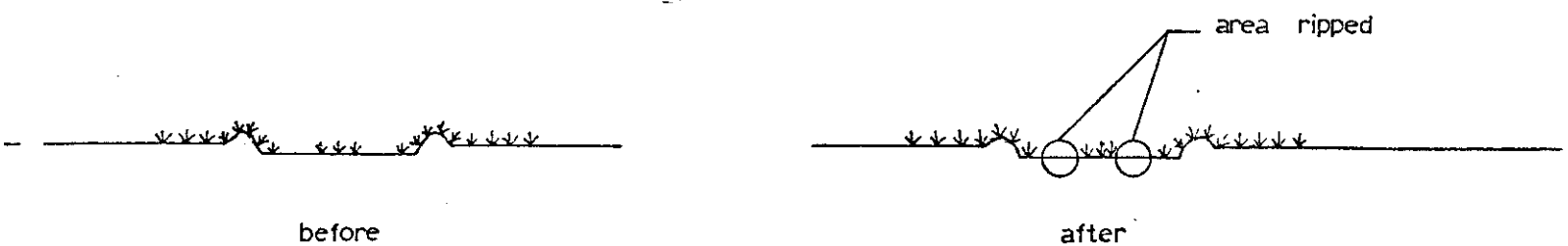


figure 2C



figure 2D

4.12.1 SEED MIXES AND APPLICATION RATE

Two seed mixes were utilized in the 1978 program. Both mixes included species which were more adaptable to higher elevations over 1980^m ASL (6500' ASL). A breakdown of these seed mixes are listed below.

MIX NO. 1

Rhizoma Alfalfa	35%
Alsike Clover	9%
Creeping red fescue	26%
Red Top	4%
Timothy	17%
Canada Bluegrass	9%

MIX NO. 2

Rhizoma Alfalfa	15%
Sainfoin	20%
Alsike Clover	10%
Slender Wheat Grass	8%
Creeping Red Fescue	25%
Red Top	5%
Streambank Wheatgrass	7%
Timothy	10%

Application rates for both mixes was 56kg/hectare (50 lb/acre). Cyclone spreaders (hand operated) were used to spread the seed cover.

4.12.2 FERTILIZER BLEND AND APPLICATION RATE

13-16-10 fertilizer was applied at, 225 kg/hectare (200 lb/acre). Cyclone spreaders (hand operated) were used to spread the fertilizer.

4.13 SLASH DISPOSAL, PRE-LOGGING

Pre-logging and slash disposal was initiated in 1977 and continued in 1978. All merchantable timber down to a 10cm (4 inch) top was salvaged, and latter sold to a near-by mill. Non-merchantable timber and slash was bucked to lengths no greater than 2 m. (6 feet) and windrowed along the road right of way.

4.14 EROSION CONTROL

Maintenance to existing roads (cleaning out culverts and ditches) is an active part of Fording's Erosion Control Plan. Roads with surface gradients are also cross ditched to specifications outlined in "Guidelines for Coal and Mineral Exploration".

5.0 SUMMARY OF EXPLORATION, RECLAMATION ACTIVITIES IN 1978

5.1 EXPLORATION

Environmental Services became very much involved with the planning stage as well as overseeing the construction phases of the 1978 exploration program. Results were significant, in that environmental impact was reduced substantially, also follow up reclamation in most cases, was simplified. Environmental Services will continue to become involved with future exploration programs.

The summary of 1978 Exploration activities, is reproduced in Table 2.

5.2 RECLAMATION

This year proved to be another productive season for reclamation of exploration disturbances. It is estimated that within 2 working seasons all past exploration in areas not requiring further work will be reclaimed. This will allow Fording to concern itself with reclaiming present and future exploration disturbances within a time frame shortly after completion of the program.

A summary of reclamation activities in 1978, is reproduced in Table 2.

A summary of reclamation of exploration disturbances up to December 31, 1978, is outlined in Table 3 below.

AREA	AREA RECLAIMED/YEAR (HECTARES)				
	1975	1976	1977	1978	TOTAL
TURNBULL			2.5		2.5
EAGLE MOUNTAIN			2.1	2.5	4.6
CASTLE MOUNTAIN				6.4	6.4
HENRETTA				1.3	1.3
UPPER FORDING			1.0	1.4	2.4
CLODE BASIN	.75			5.5	6.3
TOTAL RECLAIMED					23.5 HECTARES

RECLAMATION OF EXPLORATION DISTURBANCES

UP TO DEC. 31, 1978

TABLE 3

5.3 RECLAMATION RESEARCH

The 1978 research program continued as in the past years with the reclamation research group of Cominco Limited. This year, their program involved evaluating vegetative growth; yields and nutrient status in existing plots. Also new plots were established at 2060' ASL (6750' ASL.), representative of most of Fording's spoil locations on Eagle Mountain. These plots will test the effect of competition an legume: grass ratio on establishment and growth of fall seeded mixtures on high elevation waste rock.

Research also involved new site preparation techniques as outlined in section 4.1. Continued monitoring of slope stability, vegetation establishment and drainage will ultimately dictate site preparation techniques for future reclamation practices.

5.4 FORMS - RECLAMATION REPORT - COAL EXPLORATION FOR 1978

- a) Upper Fording Valley
- b) Henretta Ridge, South Aspect
- c) Upper Clode Basin
- d) Eagle Mountain (South Aspect)
- e) Castle Mountain
- f) Turnbull Mountain
- g) West Turnbull, River Flats North of the Mine Site



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
 MINERAL RESOURCES BRANCH
 INSPECTION AND ENGINEERING DIVISION

RECLAMATION REPORT - COAL EXPLORATION

To be submitted in duplicate to Senior Reclamation Inspector, Victoria. See note at bottom of page.

1. FOR CALENDAR YEAR 19 78 PERMIT NO. C-102
 2. COMPANY Fording Coal Limited NAME OF OFFICIAL Ken Clarke
 ADDRESS Box 100 SIGNATURE [Signature]
Elkford, B.C. V0B 1K0 DATE SUBMITTED March 21, 1979

3. DETAILS OF WORK DONE AND DESCRIPTION OF RECLAMATION
 Use metric measure (1 metre = 3.3 feet). Show method of reclamation, for example, backfill of excavated earth and replacement of topsoil, seed type, fertilizer used and application, etc. Use back of sheet if required. Reference locations on 1:50,000 map (Coal Titles Reference Map).

	Area Disturbed	Area Reclaimed
ROADS: Henretta Ridge, South Aspect Indicate lengths of individual roadways built and approximate width both out and fill.		
Reclaimed 974 m x 4 m of road surface and drillsite totally reclaimed	m ²	4000 m ²
_____	m ²	m ²
_____	m ²	m ²
_____	m ²	m ²
TEST PITS:		
_____	m ²	m ²
_____	m ²	m ²
_____	m ²	m ²
_____	m ²	m ²
TRENCHES: Indicate lengths, widths, and ground slope.		
Reclaimed 741 m x 12 m	m ²	9000 m ²
_____	m ²	m ²
_____	m ²	m ²
_____	m ²	m ²
ADITS:		
Total No. _____	m ²	m ²
DRILL SITES:		
Total No. <u>Included under roads</u>	m ²	m ²
OTHER:		
_____	m ²	m ²
_____	m ²	m ²
Total Disturbed and Reclaimed Area (square metres)	m ²	13000 m ²
Total Disturbed and Reclaimed Area (hectares) (1 hectare = 10 000 square metres)	ha	1.3 ha

4. GENERAL COMMENTS:

NOTE: Refer to original 'Application for a Reclamation Permit' and note work done on two copies of the 1:50 000 map. Specify where work done has varied from that which was proposed. Attach to this report. Refer to booklet entitled, 'Guidelines for Coal and Mineral Exploration', available at the office of the District Inspector of Mines, for reclamation advice. Attach photographs or other support data if desired to supplement this format.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
 MINERAL RESOURCES BRANCH
 INSPECTION AND ENGINEERING DIVISION

RECLAMATION REPORT - COAL EXPLORATION

To be submitted in duplicate to Senior Reclamation Inspector, Victoria. See note at bottom of page.

1. FOR CALENDAR YEAR 1978 PERMIT NO. C-102
 2. COMPANY Fording Coal Limited NAME OF OFFICIAL Ken Clarke
 ADDRESS Box 100 SIGNATURE [Signature]
Elkford, B.C. V0B 1H0 DATE SUBMITTED March 21, 1979

3. DETAILS OF WORK DONE AND DESCRIPTION OF RECLAMATION
 Use metric measure (1 metre = 3.3 feet). Show method of reclamation, for example, backfill of excavated earth and replacement of topsoil, seed type, fertilizer used and application, etc. Use back of sheet if required. Reference locations on 1:50,000 map (Coal 7 sites Reference Map).

	Area Disturbed	Area Reclaimed
Upper Clode Basin		
ROADS: Indicate lengths of individual roadways built and approximate width both cut and fill.		
<u>Reclaimed 4569 m x 12 m of road surface and drillsites</u>	_____ m ²	<u>55000</u> m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
TEST PITS:		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
TRENCHES: Indicate lengths, widths, and ground slope.		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
ADITS:		
Total No. _____	_____ m ²	_____ m ²
DRILL SITES:		
Total No. _____	_____ m ²	_____ m ²
OTHER:		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
Total Disturbed and Reclaimed Area (square metres)	_____ m ²	<u>55000</u> m ²
Total Disturbed and Reclaimed Area (hectares) (1 hectare = 10 000 square metres)	_____ ha	<u>5.5</u> ha

4. GENERAL COMMENTS:

NOTE: Refer to original "Application for a Reclamation Permit" and note work done on two copies of the 1:50,000 map. Specify where work done has varied from that which was proposed. Attach to this report. Refer to booklet entitled, *Guidelines for Coal and Mineral Exploration*, available at the office of the District Inspector of Mines, for reclamation advice. Attach photographs or other supporting data if desired to supplement this format.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

RECLAMATION REPORT - COAL EXPLORATION

To be submitted in duplicate to Senior Reclamation Inspector, Victoria. See note at bottom of page.

1. FOR CALENDAR YEAR 19 78 PERMIT NO. C-102
2. COMPANY Fording Coal Limited NAME OF OFFICIAL Ken Clarke
ADDRESS Box 100 SIGNATURE [Signature]
Elkford, B.C. VOB 1H0 DATE SUBMITTED March 21, 1979

3. DETAILS OF WORK DONE AND DESCRIPTION OF RECLAMATION
Use metric measure (1 metre = 3.3 feet). Show method of reclamation, for example, backfill of excavated earth and replacement of topsoil, seed type, fertilizer used and application, etc. Use back of sheet if required. Reference locations on 1:50,000 map (Coal Titles Reference Maps).

Eagle Mountain (South Aspect)

	Area Disturbed	Area Reclaimed
ROADS: Indicate lengths of individual roadways built and approximate width both cut and fill.		
<u>Reclaimed 2029 m x 12 m of road surface and drillsit 1700 m of access road was totally reclaimed, 329 m of access road had the cut bank sluffed in</u>	_____ m ²	<u>25000</u> m ²
TEST PITS:	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
TRENCHES: Indicate lengths, widths, and ground slope.	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
ADITS:		
Total No. _____	_____ m ²	_____ m ²
DRILL SITES:		
Total No. <u>Included under roads</u>	_____ m ²	_____ m ²
OTHER:		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
Total Disturbed and Reclaimed Area (square metres)	_____ m ²	<u>25000</u> m ²
Total Disturbed and Reclaimed Area (hectares) (1 hectare = 10 000 square metres)	_____ ha	<u>2.5</u> ha

4. GENERAL COMMENTS:

NOTE: Refer to original 'Application for a Reclamation Permit' and note work done on two copies of the 1:50,000 map. Specify where work done has varied from that which was proposed. Attach to this report. Refer to booklet entitled, 'Guidelines for Coal and Mineral Exploration', available at the office of the District Inspector of Mines, for reclamation advice. Attach photographs or other supportive data if desired to supplement this format.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

RECLAMATION REPORT - COAL EXPLORATION

To be submitted in duplicate to Senior Reclamation Inspector, Victoria. See note at bottom of page.

1. FOR CALENDAR YEAR 19 78 PERMIT NO. C-102
 2. COMPANY Fording Coal Limited NAME OF OFFICIAL Ken Clarke
 ADDRESS Box 100 SIGNATURE [Signature]
Elkford, B.C. V0B 1H0 DATE SUBMITTED March 21, 1979

3. DETAILS OF WORK DONE AND DESCRIPTION OF RECLAMATION
 Use metric measure (1 metre = 3.3 feet). Show method of reclamation, for example, backfill of excavated earth and replacement of topsoil, seed type, fertilizer used and application, etc. Use back of sheet if required. Reference locations on 1:50,000 map (Coal Titles Reference Map).

Castle Mountain (North Aspect)

	Area Disturbed	Area Reclaimed
<u>Reclaimed 5257 m x 12 m of road surface and</u>	_____ m ²	<u>64000</u> m ²
<u>drillsites. 4500 m of road was totally</u>	_____ m ²	_____ m ²
<u>reclaimed. 757 m of road had the cut bank</u>	_____ m ²	_____ m ²
<u>sluffed in</u>	_____ m ²	_____ m ²

TEST PITS:

_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²

TRENCHES: Indicate lengths, widths, and ground slope.

_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²

ADITS:

Total No. _____	_____ m ²	_____ m ²
-----------------	----------------------	----------------------

DRILL SITES:

Total No. _____	_____ m ²	_____ m ²
-----------------	----------------------	----------------------

OTHER:

_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
Total Disturbed and Reclaimed Area (square metres)	_____ m ²	<u>64000</u> m ²
Total Disturbed and Reclaimed Area (hectares) (1 hectare = 10 000 square metres)	_____ ha	<u>6.4</u> ha

4. GENERAL COMMENTS:

NOTE: Refer to original 'Application for a Reclamation Permit' and note work done on two copies of the 1:50,000 map. Specify where work done has varied from that which was proposed. Attach to this report. Refer to booklet entitled 'Guidelines for Coal and Mineral Exploration', available at the office of the District Inspector of Mines, for reclamation advice. Attach photographs or other support data if desired to supplement this format.



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MINERAL RESOURCES BRANCH
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RECLAMATION REPORT - COAL EXPLORATION

To be submitted in duplicate to Senior Reclamation Inspector, Victoria. See note at bottom of page.

1. FOR CALENDAR YEAR 19 78 PERMIT NO. C-102
 2. COMPANY Fording Coal Limited NAME OF OFFICIAL Ken Clarke
 ADDRESS Box 100 SIGNATURE [Signature]
Elkford, B.C. V0B 1H0 DATE SUBMITTED March 21, 1979

3. DETAILS OF WORK DONE AND DESCRIPTION OF RECLAMATION
 Use metric measure (1 metre = 3.3 feet). Show method of reclamation, for example, backfill of excavated earth and replacement of topsoil, seed type, fertilizer used and application, etc. Use back of sheet if required. Reference locations on 1:50,000 map (Coal Titles Reference Map).

Turnbull Mountain

ROADS: Indicate lengths of individual roadways built and approximate width both cut and fill.

	Area Disturbed	Area Reclaimed
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²

TEST PITS:

_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²

TRENCHES: Indicate length, width, and ground slope.

<u>Reclaimed trenches 200 m x 500 m (re-contoured)</u>	_____ m ²	<u>10000</u> m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²

ADITS:

Total No. _____ m² _____ m²

DRILL SITES:

Total No. _____ m² _____ m²

OTHER:

_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
Total Disturbed and Reclaimed Area (square metres)	_____ m ²	<u>10000</u> m ²
Total Disturbed and Reclaimed Area (hectares) (1 hectare = 10 000 square metres)	_____ ha	<u>1</u> ha

4. GENERAL COMMENTS:

NOTE: Refer to original 'Application for a Reclamation Permit' and note work done on two copies of the 1:50 000 map. Specify where work done has varied from that which was proposed. Attach to this report. Refer to booklet entitled, 'Guidelines for Coal and Mineral Exploration', available at the office of the District Inspector of Mines, for reclamation advice. Attach photographs or other support data if desired to supplement this format.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
 MINERAL RESOURCES BRANCH
 INSPECTION AND ENGINEERING DIVISION

RECLAMATION REPORT - COAL EXPLORATION

To be submitted in duplicate to Senior Reclamation Inspector, Victoria. See note at bottom of page.

1. FOR CALENDAR YEAR 19 78 PERMIT NO. C-102
 2. COMPANY Fording Coal Limited NAME OF OFFICIAL Ken Clarke
 ADDRESS Box 100 SIGNATURE [Signature]
Elkford, B.C. V0B 1J0 DATE SUBMITTED March 21, 1979

3. DETAILS OF WORK DONE AND DESCRIPTION OF RECLAMATION
 Use metric measure (1 metre = 3.3 feet). Show method of reclamation, for example, backfill of excavated earth and replacement of topsoil, seed type, fertilizer used and application, etc. Use back of sheet if required. Reference locations on 1:50,000 map (Coal Titles Reference Maps).

	Area Disturbed	Area Reclaimed
ROADS: Indicate lengths of individual roadways built and approximate width both cut and fill.		
<u>West Turnbull, River Flats North of the Mine Site</u>		
<u>Reclaimed 1850 m x 6 m road surface ripped up the road surface, covered with side cast material from the road construction</u>	_____ m ²	<u>11100</u> m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
TEST PITS:		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
TRENCHES: Indicate lengths, widths, and ground slope.		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
ADITS:		
Total No. _____	_____ m ²	_____ m ²
DRILL SITES:		
Total No. <u>11</u>	_____ m ²	<u>900</u> m ²
OTHER:		
_____	_____ m ²	_____ m ²
_____	_____ m ²	_____ m ²
Total Disturbed and Reclaimed Area (square metres)	_____ m ²	<u>12000</u> m ²
Total Disturbed and Reclaimed Area (hectares) (1 hectare = 10 000 square metres)	_____ ha	<u>1.2</u> ha

4. GENERAL COMMENTS:

NOTE: Refer to original 'Application for a Reclamation Permit' and note work done on two copies of the 1:50,000 map. Specify where work done has varied from that which was proposed. Attach to this report. Refer to booklet entitled, Guidelines for Coal and Mineral Exploration, available at the office of the District Inspector of Mines, for reclamation advice. Attach photographs of other supports data if desired to supplement this format.

6.0 PROPOSED EXPLORATION PROGRAM FOR 1979

6.1 LOCATION AND EXTENT

The 1979 exploration program will include 3 areas. Within each of these areas, various proposals exist. Table 4 below, outlines and breaks down each area into specific proposals, indicating their location, extent and estimated land disturbances. These areas are all located in South Eastern British Columbia. A Location Map is reproduced in Figure 1.

AREA	SITE	EXPLORATION		NEW LAND DISTURBANCES (HECTARES)
		METHOD	EXTENT	
NORTH GREENHILLS	K-seam A-Spoil Pits 3,4,5	Drilling	6 Holes	.4
		Drilling	4 Holes	NIL
		Drilling	9 Holes	NIL
SOUTH GREENHILLS	Pits 1,2 Pit G&H	Drilling	17 Holes	NIL
		Drilling	9 Holes	.82
EAGLE MOUNTAIN (South Face)	K-4 Pit East Limb	Drilling	3 Holes	.09
		Test Pits	4 Pits	.24
		Drilling	6 Holes	1.8
EAGLE MOUNTAIN (North Face)	Repeat 4, Clode Pit 12 & 13 Seams	Drilling	3 Holes	NIL
		Drilling	5 Holes	.3
Turnbull Mountain (West Face)	R-4 Pit	Drilling	2 Holes	.06
				3.71 TOTAL

EXPLORATION SUMMARY

BY AREA

TABLE 4

The majority of the 1979 program is in previously disturbed areas (either from logging or clearing for mining extension). Plans are designed to utilize existing roads and trails, although drillsite construction may involve some undisturbed area adjacent to the access. The impact from this will be negligible considering the previous disturbances.

Exploration throughout the east limb, along the south face of Eagle Mountain, will require new land disturbance. Plans have utilized any existing roads and trail, although an additional 4050 meters of road and 2.7 hectares of drillsite construction is required. An additional 1040 meters of new road is required to access 4 drillsites in the Greenhills area. All field work will be inspected and approved by Environmental personnel prior to construction, also it is expected that reclamation will immediately follow the completion of the exploration on the south face of Eagle Mountain.

7.0 1979 RECLAMATION PROPOSAL FOR EXPLORATION ACTIVITIES

7.1 LOCATION AND EXTENT

It is planned that reclamation will take place within seven areas during 1979. The majority of the plan involves road reclamation although 4 test pits and numerous drillsites will also be resloped and seeded. Table 5 below outlines the areas and extent of reclamation proposed per area for 1979.

AREA	TYPE AND EXTENT OF DISTURBANCES					TOTAL AREA PLANNED FOR RECLAMATION (HECTARES)
	ROAD	TEST PITS (HECTARES)	ADITS	DRILL SITES	TRENCHES	
TURNBULL	4					4.0
ELK VALLEY				.12		.12
HENRETTA	.37					.37
LAKE MTN.	3.9					3.9
CASTLE MTN.	*			*		
EAGLE MTN.	*	*				
GREENHILLS						

TABLE 5

PROPOSED RECLAMATION OF EXPLORATION ACTIVITIES FOR 1979

Refer to Appendix 1 overlay 4 for areas proposed for reclamation in 1979.

* To be determined.

7.2 SITE PREPARATION TECHNIQUES

7.21 ACCESS ROADS

Site preparation for reclaiming road systems will be determined on site specific basis as was done in the 1978 program. The site preparation techniques to be considered per site will be chosen from the four techniques outlined in section 4.11.

7.22 TEST PITS

Four test pits are planned for 1979. To simplify the reclamation of these pits and to have good materials present within the rooting zone, all materials excavated will be stockpiled in an inverse order. Once the pits are completed, the materials can be returned back to their proper sequence.

7.23 DRILLSITES

Site preparation for reclaiming drillsites will be similar to the techniques involved for reclaiming access roads.

7.3 SEED AND FERTILIZER

By reviewing the conclusions derived from 1977 and 1978 research programs, it's expected that changes within Fording's present seed and fertilizer mixes will prove more beneficial in terms of establishment and low maintenance requirements.

7.31 SEED MIX AND APPLICATION RATE

Fording has decided to use one seed mix for all revegetation planned for in 1979. The following outlines the species and their percent in the mix.

MIX #7 (all elevations)

<u>SPECIES</u>	<u>% BY WEIGHT</u>
Rambler Alfalfa	32.5
Birdsfoot Trefoil V. Leo	25
Alsike Clover	10
Crested Wheatgrass	17.5
Creeping Red Fescue V. Boreal	10
Canada Bluegrass	2.5
Red Top	2.5

The application rate for this mix will be 56 kg/hectare. Cyclone hand spreaders will be used.

7.32 FERTILIZER BLEND AND APPLICATION RATE

Research has indicated that potassium is unnecessary for the establishment and continued growth of plant species at Fording Coal. Therefore if a complete fertilizer such as 13-16-10 was used, the potassium would be wasted increasing reclamation costs. 11-55-0 fertilizer is expected to be used in 1979, previous to this, all of the existing stock of 13-16-10 at Fording Coal Ltd., will be utilized. Both fertilizers will be applied at 225 kg/hectare.

8.0 RESEARCH

Reclamation research will continue in 1979. Past plots will again be evaluated, spring sown plots will be added to those established in the fall on Eagle Mountain and new site preparation techniques will be examined.

9. FORMS - NOTICE OF WORK ON COAL LICENCES FOR 1979

- A) #1 & #2 Pit Greenhills
- B) Turnbull Area (West Face)
- C) North Eagle (12 & 13 Seam) and Clode Pit
- D) Proposed K-4 Pit & East Limb of Eagle Mountain
- E) K Seam, 3,4,&5 A Spoil, North Greenhills



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
District Inspector of Mines
Regional Visitor Rights Engineer

District Forester or Forest Ranger
Regional Fish and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations
Coal Licence Numbers #1 & #2 Pit "G" & "H" Pit Greenhills - LEASE 1, LEASE 2, CL358 & CL511.

2. LOCATION: Mining Division Fort Steele NYS Map Sheet (e.g. B7E/D6) 82J/2
Lat. 50° 10' Long. 114° 52' Locality and Access FORDING RIVER AREA VIA SPARWOOD AND ELKFORD.

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 17 18 98
Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording River Operations Free Miner's Cert. No. 17 18 98
Company Fording Coal Limited Telephone No. 865-2271
Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From May 1979 to October 1979

6. ACTUAL DATE WORK COMPLETED: Day N.A. Month 19

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 20

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet.)
Linecutting (distance, width, method) _____
(Requires approval of Forest Service, "License to Cut" or "Free Use Permit" may be withheld until Reclamation Form approval.)
Drilling - No. of Sites 26 (17 in Pit/Mining Areas) Total Area 7800 square metres
Road Construction - Total Length 920 metres Approximate Width 6 metres
Underground Exploration NIL (type)
Trenching - Number NONE Total Length _____ metres Width _____ metres
Test Pitting - Number NIL Total Disturbed Area 13,320 square metres
Work by Self Contractors Not Determined Yet.
(Owner is responsible for ensuring the Contractor complies with pertinent regulations, see section 9, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: Upon receipt of this Notice.
Name and Title of Forest Official J.L. Humphrey Ranger B.C.F.S.
Address Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act, "where the employment of mechanical equipment is likely to disturb the surface of the land in clearing, eroding, working..." the Application for a Reclamation Form on the reverse side is one to be submitted.

SIGNATURE OF APPLICANT P.M. Raignault TITLE Senior Mine Geologist
PRINT NAME P.M. Raignault DATE March 16, 1979



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
 MINERAL RESOURCES BRANCH
 INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
 District Inspector of Mines
 Regional Water Rights Engineer

District Forester or Forest Ranger
 Regional Fish and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations
 Coal Licence Numbers: Timbulla Area (West Face) LEASE 1

2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g. B2E/DE1) B21/2
 Lat. 50° 30' Long. 114° 52' Locality and Access: FORDING RIVER AREA VIA SPARWOOD AND ELKFORD.

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 17 18 98
 Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording River Operations Free Miner's Cert. No. 17 18 98
 Company Fording Coal Limited Telephone No. 865-2271
 Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From May 1979 to October 1979

6. ACTUAL DATE WORK COMPLETED: Day N.A. Month Year

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 20

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet.)
 Linecutting (distance, width, method) NIL
 (Requires approval of Forest Service. "Licence to Cut" or "Fire Use Permit" may be withheld until Reclamation Permit approval.)
 Drilling - No. of Sides 2 (All in Pit/Mining Areas) Total Area 600 square metres
 Road Construction - Total Length NIL metres Approximate Width N.A. metres
 Underground Exploration NIL (type)
 Trenching - Number None Total Length metres Width metres
 Test Pitting - Number NIL Total Disturbed Area 600 square metres
 Work by Self OR Name of Contractor Contractors Not Determined Yet.
 (Owner is responsible for ensuring the Contractor complies with pertinent regulations, and section E, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: Upon receipt of this Notice.
 Name and Title of Forest Officer: J.L. Humphrey Kinger B.C.F.S.
 Address: Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act, "...where the employment of mechanical equipment is likely to disturb the surface of the land in clearing, grading, benching..." the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT P. M. Baignault TITLE Senior Mine Geologist
 PRINT NAME P.M. Baignault DATE March 16, 1979



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
 MINERAL RESOURCES BRANCH
 INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
 District Inspector of Mines
 Regional Water Rights Engineer

District Forester or Forest Ranger
 Regional Forest and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations
 Coal Licence Numbers: North Eagle (12 & 13 Seam) and Clove Pit LEASE 2

2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g., B2E/DE1) 821/2
 Lat. 50° 10' Long. 114° 52' Locality and Access Fording River Area Via Sparwood and Elkford.

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 17 18 98
 Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording River Operations Free Miner's Cert. No. 17 18 98
 Company Fording Coal Limited Telephone No. 865-2271
 Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From May 1979 to October 1979

6. ACTUAL DATE WORK COMPLETED: Day N.A. Month _____ Year _____

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 12

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet.)
 (Requiring clearance, width, method)
 (Requires approval of Forest Service. "Licence to Cut" or "Free Use Permit" may be withheld until Reclamation Permit approval.)

Drilling - No. of Sites 10 Total Area 3000 square metres

Road Construction - Total Length Upgrading existing roads. metres Approximate Width _____ metres

Underground Exploration NIL (type)

Trenching - Number NONE Total Length _____ metres Width _____ metres

Test Pitting - Number NIL Total Disturbed Area 3000 square metres
 and Contractors _____

Work by Self OR Name of Contractor Not determined yet.
 (Owner is responsible for ensuring the Contractor complies with equipment regulations, see section 8, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: Upon receipt of this Notice.
 Name and Title of Forest Officer: J.L. Humphrey Ranger B.C.F.S.
 Address: Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act "...where the employment of mechanical equipment is likely to disturb the surface of the land by clearing, stripping, or working..." the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT P.M. Daignault TITLE Senior Mine Geologist
 PRINT NAME P.M. Daignault DATE March 16, 1979.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
District Inspector of Mines
Regional Miner Rights Engineer

District Forester or Forest Ranger
Regional Fish and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations
Coal Licence Numbers: Proposed K-4 Pit & East Limb of Eagle Mountain - LEASE 2

2. LOCATION: Mining Division Fort Steele MTS Map Sheet (e.g., 82E/9E1) 82J/2
Lat. 50° 10' Long. 114° 52' Locality and Access: FORDING RIVER AREA VIA SPARWOOD AND ELKFORD.

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 17 18 98
Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording River Operations Free Miner's Cert. No. 17 18 98
Company Fording Coal Limited Telephone No. 865-2271
Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From May 1979 to October 1979

6. ACTUAL DATE WORK COMPLETED: Day N.A. Month _____ 19____

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 20

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 metre = 3.3 feet.)
Licensing (distance, width, method) NIL
(Requires approval of Forest Service. "Licence to Cut" or "Free Use Permit" may be withheld until Reclamation Permit approval.)
Drilling - No. of Sites 9 Total Area 2700 square metres
Road Construction - Total Length 4050 metres Approximate Worth 6 metres
Underground Exploration NIL (type)
Trenching - Number NIL Total Length _____ metres Width _____ metres
Test Pitting - Number 4 Total Disturbed Area 22,400 square metres
Work by Self OR Name of Contractor Contractors Not Determined Yet.
(Owner is responsible for ensuring the Contractor complies with pertinent regulations, and section 8, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR: Upon receipt of this Notice.
Name and Title of Forest Official J.L. Humphrey Ranger B.C.F.S.
Address Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act, "...where the employment of mechanical equipment is likely to disturb the surface of the land in clearing or grading, trenching..." the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT P.M. Daignault TITLE Senior Mine Geologist
PRINT NAME P.M. Daignault DATE March 16, 1979



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

NOTICE OF WORK ON A COAL LICENCE

Pursuant to section 7 of the Coal Mines Regulation Act this notice is to be completed by all companies or individuals carrying out exploration work prior to commencement of work, and within one month of cessation of work and one copy is to be sent to each of the following:

Senior Reclamation Inspector, Victoria
District Inspector of Mines
Regional Visitor Rights Engineer

District Forester or Forest Ranger
Regional Fish and Wildlife Officer

PERMIT NO. 102

1. NAME OF PROPERTY: Fording Coal Limited - Fording River Operations
Coal Licence Numbers K Seam, 3,4 & 5 Pits, A Spoil, North Greenhills - LEASE 1 & LEASE 2

2. LOCATION: Mining Division Fort Steele NTS Map Sheet (e.g., B2E/9E) B2J/2
Lat. 50° 10' Long. 114° 52' Locality and Access FORDING RIVER AREA VIA SPANWOOD AND ELKFORD.

3. OWNER: Name Fording Coal Limited Free Miner's Cert. No. 17 18 98
Address Box 100 City Elkford Prov. B.C.

4. OPERATOR: Name Fording River Operations Free Miner's Cert. No. 17 18 98
Company Fording Coal Limited Telephone No. 865-2271
Address Box 100 City Elkford Prov. B.C.

5. ESTIMATED DURATION OF WORK: From May 1979 to October 1979

6. ACTUAL DATE WORK COMPLETED: Day N.A. Month Year

7. APPROXIMATE NUMBER OF MEN EMPLOYED: 20

8. EXPLORATION WORK: Proposed Completed (Use metric measure - 1 meter = 3.3 feet.)

Linecutting (distance, width, method) _____
(Requires approval of Forest Service. "Licence to Cut" or "Tree Use Permit" may be withheld until Reclamation Permit approval.)

Drilling - No. of Sites 19 (8 in Pit/Mining Areas) Total Area 5700 square metres

Road Construction - Total Length 120 metres Approximate Width 6 metres

Underground Exploration NIL (type)

Trenching - Number NONE Total Length _____ metres Width _____ metres

Test Pitting - Number NIL Total Disturbed Area 6420 square metres

Work by Self OR Name of Contractor Contractors Not Determined Yet.

(Owner is responsible for ensuring the Contractor complies with pertinent regulations, and section 8, Coal Mines Regulation Act.)

9. DATE FOREST SERVICE ADVISED BY OPERATOR Upon receipt of this Notice.
Name and Title of Forest Official J.L. Humphrey Ranger B.C.F.S.
Address Box 730, Fernie, B.C.

NOTE: Pursuant to section 8, subsection 2(a) of the Coal Mines Regulation Act "where the employment of mechanical equipment is likely to disturb the surface of the land in clearing, strip-pit, trenching," the Application for a Reclamation Permit on the reverse side is also to be submitted.

SIGNATURE OF APPLICANT P.M. Daignault TITLE Senior Mine Geologist
PRINT NAME P.M. Daignault DATE March 16, 1979

10. FORMS - APPLICATION FOR A RECLAMATION PERMIT ON A COAL LICENCE

- A) #1 & #2 Pit "G" & "H" Pit Greenhills
- B) Turnbull Area (West Face)
- C) North Eagle (12 & 13 Seam) and Clode Pit
- D) Proposed K-4 Pit & East Limb of Eagle Mountain
- E) K Seam, 3,4, & 5 A Spoil, North Greenhills



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

APPLICATION FOR A RECLAMATION PERMIT ON A COAL LICENCE

Pursuant to section 8 of the Coal Mines Regulation Act, this form is to be completed when applying for a Reclamation Permit, when ceasing work, or when reporting exploration work to be done. When reporting on work which has been done, see instructions at the bottom of the page. For recommended methods of reclamation and environmental control, see booklet entitled, Guidelines for Coal and Mineral Exploration, which is available at the office of the District Inspector of Mines.

PERMIT NO. 102

- 1. THIS IS: Annual Application [] General [X] Report of Preceded Exploration Work [] #1 & #2 Pit 'G' & 'H' Pit Greenhills
2. PRESENT STATE OF LAND ON WHICH EXPLORATION WILL BE DONE IS:
Grade Land Inventory (where possible) moderate yield forest
Present Land Use (fencing, timber, etc.) forestry, limited wildlife
Type of Vegetation Engelmann spruce, Alpine fir, Lodgepole pine
Access Roads (status and condition) Numerous access roads, main roads in good condition
Complete Old Workings (location, condition) Area was logged in 1976 - 77, old and new workings- road adits, drillsites
NOTE: sites shown above should be indicated on the NTS maps which are required for the following section.

3. PROPOSED SURFACE WORK: (Attach 7 copies of 1:50,000 NTS map with full extent of exploration work noted - Coal Title Reference Maps) (1 centimetre = 1 metre = 3.3 feet)

Table with 2 columns: Description and Area. Rows include Roads (Total length 920 metres, Total disturbed area 5520 square metres), Trenches, Adits, Drill Sites, and Total Disturbed Area (13,320 square metres).

4. EQUIPMENT TO BE USED (list size, capacity, and number):

- (a) (1) DSK Caterpillar Dozer
(b) (1) Diamond Drill (Skid mounted)
(c) (1) Rotary Drill (Truck mounted)

5. GOVERNMENT CLEARANCES INITIATED AT REGIONAL/DISTRICT LEVEL:

Forestry Fish and Wildlife Water Rights
Name of Official:
Title:
Location:
Date Required:

6. SIGNATURE OF APPLICANT [Signature] DATE 21/03/79
Title Reclamation Technician Company Fording Coal Limited

FOR DEPARTMENT OF MINES USE ONLY

Terms and Conditions other than Guidelines:
Bonding Required (Form a must on receipt of bonding):
Approved by Advisory Committee:
Approved by St. Reclamation Inspector:
Date of Minister's Approval:
Date Permit Issued:

NOTE: When geotechnical and reclamation work have been completed for the calendar year, a Reclamation Report should be submitted by the Senior Reclamation Inspector in Victoria. For a sample of the forms to be used see the Appendix of the booklet entitled, Guidelines for Coal and Mineral Exploration. The Reclamation Report will describe all work done and the details of the reclamation which was effected. Two 1:50,000 NTS maps are required for the Report.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

APPLICATION FOR A RECLAMATION PERMIT ON A COAL LICENCE

Pursuant to section 3 of the Coal Mines Regulation Act, this form is to be completed when applying for a Reclamation Permit, when renewing same, or when reporting exploration work to be done. When reporting on work which has been done, see instructions at the bottom of the page. For recommended methods of reclamation and environmental control, see standards entered, Guidelines for Coal and Mineral Exploration, which is available at the office of the District Inspector of Mines.

PERMIT NO. 102

3. THIS IS: An Initial Application Renewal Report of Previous Exploration Work Turnbull Area (West Face)

4. PRESENT STATE OF LAND ON WHICH EXPLORATION WILL BE DONE IS:

Current Land Inventory (where possible): Moderate Yield Forest
Present Land Use (including timber, etc.): Mining
Type of vegetation: Cleared

Access Roads (where used, condition): main access to repeat "4" pit, good condition

Landmarks: Old workings location, condition: old pits, spoils

NOTE: Items shown above should be indicated on the NTS maps which are required for the following section.

PROPOSED SURFACE WORK: (Attach 2 copies of 1:50,000 NTS map with full extent of exploration work noted - Coal Title Reference Maps) (Use metric measure - 1 metre = 3.3 feet)

Roads: Total length _____ metres	Total disturbed area _____	SQUARE METRES
Ten Fills: Total No. _____	Total disturbed area _____	SQUARE METRES
Trenches: Total No. _____ (Include ground slope at trench on NTS map)	Total disturbed area _____	SQUARE METRES
Adms: Total No. _____	Total disturbed area _____	SQUARE METRES
DMS Sites: Total No. 2 (previously disturbed by Mining)	Total disturbed area NIL	SQUARE METRES
Other: _____	Total disturbed area _____	SQUARE METRES
Total Disturbed Area (square metres):	NIL	SQUARE METRES
Total Disturbed Area (hectares): (1 hectare = 10 000 square metres)	NIL	HECTARES

5. EQUIPMENT TO BE USED (in size, capacity, and number):

- (a) (1) diamond drill (skid mounted)
- (b) (1) D8K Caterpillar dozer
- (c) _____
- (d) _____

6. GOVERNMENT CLEARANCES INITIATED AT REGIONAL/DISTRICT LEVEL:

Forestry _____ Fisheries/Wildlife _____ Water Rights _____

Name of Official _____
Title _____
Location _____
Date notified _____

7. SIGNATURE OF APPLICANT: *[Signature]* DATE: 21/03/79
Title: Reclamation Technician Company: Fording Coal Limited

FOR DEPARTMENT OF MINES USE ONLY

Terms and Conditions other than Guidelines _____

Bonding Required (if work is issued on receipt of bonding) _____

Approved by Advisory Committee _____ Date _____

Approved by Sr. Reclamation Inspector _____ Date _____

Date of Minister's Approval _____ Date Approved _____

Date Permit Issued _____

NOTE: When geological and reclamation work has been completed for the calendar year, a Reclamation Report should be submitted to the Senior Reclamation Inspector in Victoria. For a sample of the format to be used see the Appendix of the booklet entitled, Guidelines for Coal and Mineral Exploration. The Reclamation Report will describe all work done and the details of the reclamation which was effected. Two 1:50 000 NTS maps are required for the report.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

APPLICATION FOR A RECLAMATION PERMIT ON A COAL LICENCE

Formal to section 8 of the Coal Mines Regulation Act, this form is to be completed when applying for a Reclamation Permit, when renewing same, or when reporting exploration work to be done. When reporting on work which has been done, see instructions at the bottom of the page. For various new methods of reclamation and environmental control, see booklet entitled, Guidelines for Coal and Mineral Exploration, which is available at the office of the District Inspector of Mines.

PERMIT NO. 102

- 1. THIS IS An Initial Application [] Renewal [X] Report of Proposed Exploration Work [] North Eagle (12 & 13 Seam) and Clode Pit

2. PRESENT STATE OF LAND ON WHICH EXPLORATION WILL BE DONE IS:
Cadastral Land Inventory (where possible) Highland
Present Land Use (fencing, timber, etc.) mining, limited wildlife use
Type of Vegetation Engelmann spruce, Alpine fir, Lodgepole pine
Access Roads (present use, condition) main access roads to clode pit & 15 seam, good condition
Comments: Old workings location, condition: old workings include access roads, drillsites

NOTE: Items shown above should be indicated on the NTS maps which are required for the following sections.

Table with 3 columns: Item, Total length/Total No., Total disturbed area. Rows include Roads, Trenches, Adits, Drill Sites, and Other. Total Disturbed Area (hectares) is 0.3.

- 4. EQUIPMENT TO BE USED (Make, size, capacity, and number):
(a) (1) D8K Caterpillar dozer
(b) (1) Rotary Drill (truck mounted)

5. GOVERNMENT CLEARANCES INITIATED AT REGIONAL/DISTRICT LEVEL:
Forestry, Fish and Wildlife, Water Rights

6. SIGNATURE OF APPLICANT: Reclamation Technician, Fording Coal Limited, DATE 21/03/79

FOR DEPARTMENT OF MINES USE ONLY

Terms and Conditions other than Guidelines
Bonding Required (Amount & form of receipt of bonding)
Approved by Advisory Committee
Approved by S.I. Reclamation Inspector
Date of Minister's Approval
Date Permit Issued

NOTE: When geotechnical and reclamation work have been completed for the calendar year, a Reclamation Report should be submitted to the Senior Reclamation Inspector in Victoria. For a number of the forms to be used see the Appendix of the booklet entitled, Guidelines for Coal and Mineral Exploration. The Reclamation Report will describe all work done and the details of the reclamation which was achieved. The 1:50,000 NTS maps are required for the Roads.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

APPLICATION FOR A RECLAMATION PERMIT ON A COAL LICENCE

Pursuant to section 5 of the Coal Mines Regulation Act, this form is to be completed when applying for a Reclamation Permit, when entering lands, or when reporting exploration work to be done. When reporting on work which has been done, see instructions at the bottom of the page. For recommended methods of reclamation and environmental control, see booklets entitled, Guidelines for Coal and Mineral Exploration, which is available at the office of the District Inspector of Mines.

PERMIT NO. 102

- 1. THIS IS: An Initial Application [] Renewal [X] Report of Proposed Exploration Work [] Proposed K-4 Pit & East Limb of Eagle Mountain

2. PRESENT STATE OF LAND ON WHICH EXPLORATION WILL BE DONE IS:
Canada Land Inventory (where possible) Moderate to prime big game
Private Land Use (where applicable) Wildlife (limited Recreation)
Type of Vegetation Coen grass lands, Engelmann Spruce, Alpine fir, Lodgepole pine mixture
Access Roads (primary use, condition) exploration access, good condition
Campsites, Old workings (location, condition) many old and new workings, roads, drillsites

NOTE: Items shown above should be indicated on the NTS maps which are required for the following section.

- 3. PROPOSED SURFACE WORK: (Attach 7 copies of 1:50,000 NTS map with full extent of exploration work noted - Coal Title Reference Maps.) (Use metric measure - 1 metre = 3.3 feet.)

Table with 4 columns: Item, Total length/No., Total disturbed area, and Unit. Rows include Roads (4050 metres, 24300 square metres), Ten Pits (4, 2400 square metres), Trenches, Adms, Drill Sites (9, 2700 square metres), and Other. Totals: 29400 square metres, 2.94 hectares.

- 4. EQUIPMENT TO BE USED (list also, capacity, and number):
(a) (1) D6K Dozer (d) (1) Cat. 225 Backhoe
(b) (1) Diamond Drill (Skid mounted) (e)
(c) (1) Rotary Drill (Truck mounted) (f)

5. GOVERNMENT CLEARANCES INITIATED AT REGIONAL/DISTRICT LEVEL:
Forestry Fish and Wildlife Water Rights
Name of Official
Title
Location
Date Notified

6. SIGNATURE OF APPLICANT [Signature] DATE 21/03/79
THE Reclamation Technician Company Fording Coal Limited

FOR DEPARTMENT OF MINES USE ONLY

Terms and Conditions other than Guidelines
Bonding Required (Form to be used on receipt of bonding)
Approved by Advisory Committee Date
Approved by Sr. Reclamation Inspector Date
Date of Minister's Approval Order-in-Council
Date Permit Issued

NOTE: When geotechnical and reclamation work have been completed for the calendar year, a Reclamation Report should be submitted to the Senior Reclamation Inspector in Victoria. For a sample of the format to be used see the Appendix of the booklet entitled, Guidelines for Coal and Mineral Exploration. The Reclamation Report will describe all work done and the results of the reclamation which was achieved. Two 1:50,000 NTS maps are required for the Report.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
MINERAL RESOURCES BRANCH
INSPECTION AND ENGINEERING DIVISION

APPLICATION FOR A RECLAMATION PERMIT ON A COAL LICENCE

Pursuant to section 8 of the Coal Mines Regulation Act, this form is to be completed when applying for a Reclamation Permit, when returning same, or when reporting exploration work to be done. When reporting on work which has been done, see instructions at the bottom of the page. For recommended methods of reclamation and environmental control, see booklet entitled, Guidelines for Coal and Mineral Exploration, which is available at the office of the District Inspector of Mines.

PERMIT NO. 102

1. THIS IS: An Initial Application Renewal Report of Proposed Exploration Work K Seam, 3,4,65, A Spoil, North Greenhills

2. PRESENT STATE OF LAND ON WHICH EXPLORATION WILL BE DONE IS:
Canada Land Inventory (where possible) moderate yield forest
Present Land Use (fencing, timber, etc.) forestry
Type of Vegetation Engelmann spruce, Alpine fir, Lodgepole pine
Access Roads (present use, condition) Numerous access roads, main roads in good condition

3. PROPOSED SURFACE WORK: (Attach 7 copies of 1:50,000 NTS map with full extent of exploration work noted - Coal Title Reference Map.) (Use metric measure - 1 metre = 3.3 feet.)
NOTE: Items shown above should be indicated on the NTS maps which are required for the following sections, roads, drillsites, adits.

Roads: Total length	120 metres	Total disturbed area	720 square metres
Test Pits: Total No.		Total disturbed area	square metres
Trenches: Total No. (include ground slope at trench on NTS map)		Total disturbed area	square metres
Adits: Total No.		Total disturbed area	square metres
Drill Shts: Total No.	19	Total disturbed area	5700 square metres
Other:		Total disturbed area	square metres
Total Disturbed Area (square metres):		6420	square metres
Total Disturbed Area (hectares): (1 hectare = 10 000 square metres)		.64	hectares

4. EQUIPMENT TO BE USED (list size, capacity, and number):
(a) (1) D6K Caterpillar Dozer
(b) (1) Diamond Drill (Skid Mounted)
(c) (1) Rotary Drill (Truck Mounted)

5. GOVERNMENT CLEARANCES INITIATED AT REGIONAL/DISTRICT LEVEL:
Forestry Fish and Wildlife Water Rights
Name of Official
Title
Location
Date Notified

6. SIGNATURE OF APPLICANT *[Signature]* DATE 21/23/79
Title Reclamation Technician Company Fording Coal Limited

FOR DEPARTMENT OF MINES USE ONLY

Terms and Conditions other than Guidelines
Bonding Required (Permit a return on receipt of bonding)
Approved by Advisory Committee Date
Approved by Sr. Reclamation Inspector Date
Date of Minister's Approval Office of Council
Date Permit Issued

NOTE: When geotechnical and reclamation work have been completed for the calendar year, a Reclamation Report should be submitted to the Senior Reclamation Inspector in Victoria. For a sample of the format to be used and the Appendix of the booklet entitled, Guidelines for Coal and Mineral Exploration. The Reclamation Report will describe all work done and the details of the reclamation which was performed. Two 1:50,000 NTS maps are required for the Report.