

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

E—DESCRIPTION OF MINE

(1) State **Oregon** (2) County **Clackamas** (3) Town **Wilhoit Springs**
(Post office)

(4) Mine sample of **Coal** (5) Coal field (6) District

(7) Mine **Madrona** **2 drifts: No. 1, 790'; No. 2, 750'**
(a. Name) (b. Kind of opening—if shaft give depth) (c. Height of opening above sea level)

3/4 SE **N. 1/2, Sec. 15, T. 6 S., R. 2 E.** **None**
(d. Distance and direction from town) (e. Sec., T., and R., if necessary) (f. Railroad connections)

None **Prospect**
(g. Shipping point) (h. State if wagon mine or prospect and give distance from shipping point)

(8) Coal bed **Unnamed** (a. Name) (b. Geologic system)

Molalla (?) **6 E.**
(c. Formation) (d. Dip, degrees) (e. Strike, direction)

(9) Mining system (Long wall, room and pillar, panels, etc.) (10) Undercutting **No**
(Hand or machine)

(11) Explosives (a. Used for coal) (b. Used for roof or floor)

(12) Operator **T. G. Mendrones, 2747 N.E. 18th St., Portland, Oregon**
(Name and address)

(13) Sales agent (Name and address)

(14) Output per day **1** (15) Maximum day's output (16) Last year's output **None**
(Average—gross or net tons) (During past year) (Gross or net tons)

(17) Output from advance workings, percent (18) Lifetime of mine
(At present) (Years—estimated)

(19) Run-of-mine, percent (20) Is coal screened? **No** (21) Type of screens **None**
(Of output shipped)

(22) Type of washer **None** (23) Percent of coal washed

(24) Maximum size washed **None** (25) Sizes produced
(Washed coal)

(26) Sizes produced (27) Is coal picked? **Underground**
(Of coal not washed) (State whether on car or belt)

(28) Percent of coal coked **None** (29) Sizes coked **None**
(At mine) (Screenings, crushed, washed, etc.)

(30) Type and number of ovens **None** (31) Remarks **Prospect, 6 men.**
(For any additional information indicate after

(Same mine sampled by H. Fowler, 5/28/43)
subject by mark X if additional information is given here)

(32) Can Nos. **Madrona No. 1, Can 56; Madrona No. 2, Can 66. (These two drifts are about 600' apart)**
(Give Nos. of all samples forwarded)

(33) Laboratory Nos. **C-12926** **C-12927**
(Laboratory to fill in immediately below corresponding can number)

(34) Mine sampled at **2** points, by **H. F. Yanney and G. P. Coughlin** **12/20/43** 19...
(Number) (Collector) (Office) (Date)

Above information copied from Card A by **FHJ** on **January 18, 1944**, 19...

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. **56**

F-SAMPLING REPORT

Lab. No. **C-12926**

(1) State **Oregon** (2) County **Clackamas** (3) Town **Wilhoit Springs** (4) Mine **No. 1**
(Post office)

(5) Sample of **Coal--Naa.** (6) Analysis desired **Prox., S., B.t.u., Ash Fusion**

(7) Method of sampling _____
(Describe if other than standard)

(8) Location in mine **Face of drift, 135' from portal.**
(Distance and direction from opening. Locate with respect

to rib, room, pillar, aircourse, entry, etc.) (9) Date **December 20, 1943**
(Of sampling)

(10) Coal, dry or moist **Moist** (11) Gross wt., lbs. **25** (12) Net wt., lbs. **4**
(Sample cut) (Sample mailed)

(13) Sample from fresh or weathered coal **Fresh**

(14) Roof **Not exposed**
(Kind and quality)

(15) Draw slate or roof coal **Shale & Bone**
(Description and thickness)

(16) Floor **Coal, 10"**
(Kind, soft or hard, smooth or rough)

(17) Vertical depth from surface to point of sampling, feet **50**

No.	SECTION OF BED	Ft.	INS.	No.	SECTION OF BED	Ft.	INS.
1	Coal		11	10	Coal, boney		11
X2	Bone & boney		5	X11	Shale		5
X3	Shale, boney, coal	1	0	12	Coal		8
X4	Shale, bone, and thin	1	3	X13	Shale		1/2
X5	streaks of coal			14	Coal		8
6	Coal, boney		8	15			
X7	Sandstone		1	16			
8	Coal, boney		5	Total thickness of bed		7	10-1/2
X9	Shale		5	Thickness in sample		4	3

(18) Excluded from sample, marked X, section Nos. **2, 3, (4&5), 7, 9, 11, 13**

(19) Send analysis to _____ (20) Collector **H. F. Yancey**
G. P. Coughlin (21) Office **Seattle 5,**
Wash.

Above information copied from B card by **MH** on **January 19,** 19**44**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Test No. **G-COAL-ANALYSIS REPORT** Lab. No. **C-12926**
 Sample of **Coal--NAa.** Can No. **56**
 Operator **T. G. Mendrones** Mine **Madrona No. 1**
 State **Oregon** County **Clackamas** Bed **(Unnamed)**
 Town **Wilhoit Springs**
 Location in mine **Face of drift, 135' from portal.**
 Method of sampling Gross weight, lbs. **25** Net weight, grams **1273.0**
 Date of sampling **12/20/43** Date of Lab. sampling **1/10/44** Date of analysis
 B. of M. or U. S. G. S. section **B. of M. Sta.** Collector **H.F.Yencey & G.P.Coughlin**

AIR-DRY LOSS		10.1	COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture		5.1	14.6		
	Volatile matter		29.3	26.4	30.9	43.2
	Fixed carbon		38.5	34.6	40.6	56.8
	Ash		27.1	24.4	28.5	
			100.0	100.0	100.0	100.0
Ultimate Analysis	Hydrogen					
	Carbon					
	Nitrogen					
	Oxygen					
	Sulphur		.4	.3	.4	.6
	Ash					
British thermal units			8990	8090	9470	13260
Fusibility of Ash, °F.	Initial deformation temperature		2370	Total thickness of bed----7' 10-1/2" Total thickness in sample-4' 3"		
	Softening temperature		2420			
	Fluid temperature		2570			

Date **January 19, 1944.** (Signed) **H. M. Cooper,** *Chemist.*
 MH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. **66**

F-SAMPLING REPORT

Lab. No. **C-12927**

- (1) State **Oregon** (2) County **Clackamas** (3) Town **Wilhoit Springs** Mine **Madrona**
(Post office) **No. 2**
- (5) Sample of **Coal** (6) Analysis desired **Prox., S., B.t.u., and S.T.**
- (7) Method of sampling _____
(Describe if other than standard)
- (8) Location in mine **Face of drift**
(Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)
- (9) Date **12/20/43**, 19____
(Of sampling)
- (10) Coal, dry or moist **Moist** (11) Gross wt., lbs. _____ (12) Net wt., lbs. **4**
(Sample cut) (Sample mailed)
- (13) Sample from fresh or weathered coal **Fresh**
- (14) Roof **Shale**
(Kind and quality)
- (15) Draw slate or roof coal **Shale**
(Description and thickness)
- (16) Floor **Coal, 6"**
(Kind, soft or hard, smooth or rough)
- (17) Vertical depth from surface to point of sampling, feet **35**

No.	SECTION OF BED	Ft.	Ins.	No.	SECTION OF BED	Ft.	Ins.
1	Coal		5	10	Coal		11
X 2	Shale and boney		6	11			
X 3	Bone	2	0	12			
4	Coal		6 3/4	13			
X 5	Sandstone		1	14			
6	Coal		7 1/2	15			
X 7	Bone and boney		5	16			
8	Coal	1	0	Total thickness of bed.....		6	6 3/4
X 9	Shale		1/2	Thickness in sample.....		3	6 1/4

- (18) Excluded from sample, marked X, section Nos. **2, 3, 5, 7, and 9.**
- (19) Send analysis to **B. of M.** (20) Collector **H. F. Yancey and G. P. Coughlin** (21) Office **Seattle, Wash**

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Test No. _____ **G-COAL-ANALYSIS REPORT** Lab. No. **C-12927**
 Sample of **Coal--NAa.** Can No. **66**
 Operator **T. G. Mendones** Mine **Madrona No. 2**
 State **Oregon** County **Clackamas** Bed **(Unnamed)**
 Town **Wilhoit Springs**
 Location in mine **Face of drift.**
 Method of sampling _____ Gross weight, lbs. _____ Net weight, grams **1250.5**
 Date of sampling **12/20/43** Date of Lab. sampling **1/10/44** Date of analysis _____
 B. of M. or U. S. G. S. section **B. of M. Sta.** Collector **H.F. Yancey & G.P. Coughlin**

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
11.3					
Proximate Analysis	Moisture	5.1	15.9		
	Volatile matter	26.9	23.9	28.4	41.9
	Fixed carbon	37.4	33.1	39.4	58.1
	Ash	30.6	27.1	32.2	
		100.0	100.0	100.0	100.0
Ultimate Analysis	Hydrogen				
	Carbon				
	Nitrogen				
	Oxygen				
	Sulphur	.5	.4	.5	.7
	Ash				
British thermal units		8470	7510	8930	13170
Fusibility of Ash, ° F.	Initial deformation temperature	2780	Total thickness of bed ----- 6' 6-3/4" Total thickness in sample -- 3' 6-1/4"		
	Softening temperature	2850			
	Fluid temperature	2910			

Date **January 19, 1944.** (Signed) **H. M. Cooper.** Chemist.
 MH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

I

Test No. **G-COAL-ANALYSIS REPORT** Lab. No.

Sample of **Coal -- NAs.** Can No. **2358**

Operator **T. G. Mandrones** Mine **Mandrones**

State **Oregon** County **Clackamas** Bed **(Unnamed)**

Town **Wilhoit Springs**

Location in mine **Working face**

Method of sampling Gross weight, lbs. **--** Net weight, grams **1137**

Date of sampling **4/27/48** Date of Lab. sampling **5/7/48** Date of analysis

B. of M. or U. S. G. S. section **--** Collector **F. W. Libbey and Ralph Mason**

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
9.6%					
Proximate Analysis	Moisture	6.8	15.7		
	Volatile matter	20.3	18.4	21.8	42.8
	Fixed carbon	27.1	24.5	29.1	57.2
	Ash	45.8	41.4	49.1	
		100.0	100.0	100.0	100.0
Ultimate Analysis	Hydrogen				
	Carbon				
	Nitrogen				
	Oxygen				
	Sulphur	.4	.4	.4	.8
	Ash				
British thermal units		5,980	5,410	6,420	12,620
Softening temperature of ash		° F.			

Date **May 24, 1948** (Signed) **K. A. Johnson**
Chemist.

Specific-gravity analysis of coal from Mandrones mine, Wilheit Springs, Clackamas County, Oregon. Face sample collected April, 1948 by F. W. Libbey and Ralph Mason, Oregon State Department of Geology and Mineral Industries.

<u>Size</u> ^{1/}	<u>Specific gravity</u>	<u>Weight, percent</u>	<u>Ash, ^{2/} percent</u>	<u>Cumulative</u>	
				<u>Weight, percent</u>	<u>Ash, ^{2/} percent</u>
1 inch to 20 mesh Weight, 94.7 percent	Under 1.30	14.6	2.8	14.6	2.8
	1.30 to 1.40	11.1	7.6	25.7	4.9
	1.40 to 1.50	8.6	19.3	34.3	8.5
	1.50 to 1.60	7.2	30.8	41.5	12.4
	1.60 to 1.70	5.3	40.7	46.8	15.6
	Over 1.70	53.2	76.3	100.0	47.9
Under 20 mesh Weight, 5.3 percent Ash, 37.6 percent ^{2/}	Under 1.30	9.6	5.1	9.6	5.1
	1.30 to 1.40	15.6	7.1	25.2	6.3
	1.40 to 1.50	23.6	14.6	48.8	10.3
	1.50 to 1.60	5.3	24.4	54.1	11.7
	1.60 to 1.70	5.5	32.8	59.6	13.7
	Over 1.70	40.4	71.6	100.0	37.1
Composite Weight, 100.0 percent	Under 1.30	14.4	2.9	14.4	2.9
	1.30 to 1.40	11.3	7.6	25.7	5.0
	1.40 to 1.50	9.4	18.7	35.1	8.6
	1.50 to 1.60	7.1	30.5	42.2	12.3
	1.60 to 1.70	5.3	40.3	47.5	15.4
	Over 1.70	52.5	76.1	100.0	47.3

^{1/} Total sample was crushed to pass 1 inch square hole.

^{2/} Moisture-free basis.

A. D. Centenero

A. D. Centenero
Chemical Engineer

Specific-gravity analysis of coal from Mandreves mine, Wilhoit Springs, Clackamas County, Oregon. Face sample collected April, 1948 by F. W. Libbey and Ralph Mason, Oregon State Department of Geology and Mineral Industries.

Size ^{1/}	Specific Gravity	Weight, percent	Ash, ^{2/} percent	Cumulative	
				Weight, percent	Ash, ^{2/} percent
1 inch to 20 mesh Weight, 94.7 percent	Under 1.30	14.6	2.8	14.6	2.8
	1.30 to 1.40	11.1	7.6	25.7	10.4
	1.40 to 1.50	8.6	19.3	34.3	29.7
	1.50 to 1.60	7.2	30.8	41.5	41.9
	1.60 to 1.70	5.3	40.7	46.8	47.2
	Over 1.70	53.2	76.3	100.0	76.3
Under 20 mesh Weight, 5.3 percent Ash, 37.6 percent ^{2/}	Under 1.30	9.6	5.1	9.6	5.1
	1.30 to 1.40	15.6	7.1	25.2	12.2
	1.40 to 1.50	23.6	14.6	48.8	26.8
	1.50 to 1.60	5.3	24.4	54.1	41.2
	1.60 to 1.70	5.5	32.8	59.6	46.7
	Over 1.70	40.4	71.6	100.0	71.6
Composite Weight, 100.0 percent	Under 1.30	14.4	2.9	14.4	2.9
	1.30 to 1.40	11.3	7.6	25.7	10.5
	1.40 to 1.50	9.4	18.7	35.1	29.1
	1.50 to 1.60	7.1	30.5	42.2	36.2
	1.60 to 1.70	5.3	40.3	47.5	41.5
	Over 1.70	52.5	76.1	100.0	76.1

^{1/} Total sample was crushed to pass 1 inch square hole.

^{2/} Moisture-free basis.

A. D. Centenere

A. D. Centenere
Chemical Engineer

Specific-gravity analysis of coal from Mandrenee mine, Wilhoit Springs, Clackamas County, Oregon. Face sample collected April, 1948 by F. W. Libbey and Ralph Mason, Oregon State Department of Geology and Mineral Industries.

Size ^{1/}	Specific gravity	Weight, percent	Ash, ^{2/} percent	Cumulative	
				Weight, percent	Ash, ^{2/} percent
1 inch to 20 mesh Weight, 94.7 percent	Under 1.30	14.6	2.8	14.6	2.8
	1.30 to 1.40	11.1	7.6	25.7	4.9
	1.40 to 1.50	8.6	19.3	34.3	8.5
	1.50 to 1.60	7.2	30.8	41.5	12.4
	1.60 to 1.70	5.3	40.7	46.8	15.6
	Over 1.70	53.2	76.3	100.0	47.9
Under 20 mesh Weight, 5.3 percent Ash, 37.6 percent ^{2/}	Under 1.30	9.6	5.1	9.6	5.1
	1.30 to 1.40	15.6	7.1	25.2	6.3
	1.40 to 1.50	23.6	14.6	48.8	10.3
	1.50 to 1.60	5.3	24.4	54.1	11.7
	1.60 to 1.70	5.5	32.8	59.6	13.7
	Over 1.70	40.4	71.6	100.0	37.1
Composite Weight, 100.0 percent	Under 1.30	14.4	2.9	14.4	2.9
	1.30 to 1.40	11.3	7.6	25.7	5.0
	1.40 to 1.50	9.4	18.7	35.1	8.6
	1.50 to 1.60	7.1	30.5	42.2	12.3
	1.60 to 1.70	5.3	40.3	47.5	15.4
	Over 1.70	52.5	76.1	100.0	47.3

^{1/} Total sample was crushed to pass 1 inch square hole.

^{2/} Moisture-free basis.

A. D. Centenaro

A. D. Centenaro
Chemical Engineer

Handwritten notes and a large 'X' mark at the top of the page.

Low-temperature assay at 550°C. of float 1.70 fraction of coal from Mandrekes mine, Wilhoit Springs, Clackamas County, Oregon. Face sample collected April, 1948 by F. W. Libbey and Ralph Mason, Oregon State Department of Geology and Mineral Industries.

Analysis of sample, air-dry basis:

Moisture, percent	4.8
Ash, percent	14.7
Air-dry loss, percent	11.4

Yield, percent, air-dry basis:

Coke Char	70.0
Gas	6.9
Tar and oil	9.3
Water	13.8
Total	100.0

Yield, percent, calculated as received:

Coke Char	62.1
Gas	6.1
Tar and oil	8.2
Water	23.6

Yield, per net ton, calculated as received:

Gas at 60°F. and 29.92 inches of Hg, cu. ft. wet	2626
Tar and oil, gallons	19.7

Gas analysis, volume percent:

CO ₂	13.2
Illuminants	1.9
O ₂	.0
CO	11.9
H ₂	29.1
CH ₄	40.3
C ₂ H ₆	3.5
N ₂	.1

Calorific value of gas at 60°F. and 29.92 inches of Hg, gross B.t.u. 632

A. D. Centenero

A. D. Centenero
Chemical Engineer

Low-temperature assay at 550° C. of float 1.70 fraction of coal from Mandrenea mine, Wilhoit Springs, Clackamas County, Oregon. Vase sample collected April, 1948 by F. W. Libbey and Ralph Mason, Oregon State Department of Geology and Mineral Industries.

Analysis of sample, air-dry basis:
Moisture, percent 4.5
Ash, percent 14.7
Air-dry loss, percent 11.4

Yield, percent, air-dry basis:
Sols Char 70.0
Gas 6.9
Tar and oil 9.3
Water 13.8
Total 100.0

Yield, percent, calculated as received:
Sols Char 62.1
Gas 6.1
Tar and oil 8.2
Water 23.6

Yield, per net ton, calculated as received:
Gas at 60°F. and 29.92 inches of Hg, cu. ft. wet 2626
Tar and oil, gallons 19.7

Gas analysis, volume percent:
CO₂ 13.2
Illuminants 1.9
O₂ .0
CO 11.9
H₂ 29.1
CH₄ 40.3
C₂H₆ 3.5
H₂ .1
Calorific value of gas at 60°F. and 29.92 inches of Hg, gross B.t.u. 632

A. D. Centenero
A. D. Centenero
Chemical Engineer

Low-temperature assay at 550° C. of float 1.70 fraction of coal from Mandrenea mine, Wilhoit Springs, Clackamas County, Oregon. Face sample collected April, 1948 by F. V. Hibbey and Ralph Mason, Oregon State Department of Geology and Mineral Industries.

Analysis of sample, air-dry basis:

Moisture, percent	4.8
Ash, percent	14.7
Air-dry loss, percent	11.4

Yield, percent, air-dry basis:

Coke Char	70.0
Gas	6.9
Tar and oil	9.3
Water	13.8
Total	100.0

Yield, percent, calculated as received:

Coke Char	62.1
Gas	6.1
Tar and oil	8.2
Water	23.6

Yield, per net ton, calculated as received:

Gas at 60°F. and 29.92 inches of Hg, cu. ft. wet	2626
Tar and oil, gallons	19.7

Gas analysis, volume percent:

CO ₂	13.2
Illuminants	1.9
O ₂	.0
CO	11.9
H ₂	29.1
CH ₄	40.3
C ₂ H ₆	3.5
H ₂	.1

Calorific value of gas at 60°F. and 29.92 inches of Hg, gross B.t.u. 632

A. D. Centenero

A. D. Centenero
Chemical Engineer

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines

Can No. 66

F - SAMPLING REPORT

Lab. No. C-12927

- (1) States: Oregon (2) County: Clackamas (3) Town: Wilhoit Springs
(4) Mines: Madrona No. 2 (5) Sample of: Coal (6) Analysis desired: PROX. S., Btu & S.I.
(7) Method of sampling (if other than standard) _____
(8) Location in mine: Face of drift (9) Date: 12/20/43 (10) Coal, dry or moist: moist
(11) Gross wt., lbs. _____ (12) Net Wt., lbs. 4
(13) Sample from fresh or weathered coals: Fresh (14) Roof: Shale
(15) Draw slate or roof coals: Shale (16) Floors: Coal, 6"
(17) Vertical depth from surface to point of sampling, feet: 35

No.	Section of Bed	Ft.	Inch.
1	Coal		5
x 2	Shale and honey		6
x 3	Bone	2	0
4	Coal		6 3/4
x 5	Sandstone		1
6	Coal		7 1/2
x 7	Bone and honey		5
8	Coal	1	0
x 9	Shale		1/2
10	Coal		11
TOTAL THICKNESS OF BED		6	6 3/4
THICKNESS IN SAMPLE		3	6 1/4

- (18) Excluded from sample, marked x, section Nos. 2, 3, 5, 7, and 9
(19) Send analysis to B. of M. (20) Collectors: H. F. Yancey and G. P. Coughlin
(21) Office: Seattle, Washington

Above information copied from B card by FHH on January 19, 19 44

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UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines

Test No. _____

G - COAL-ANALYSIS REPORT

Lab. No. C-12927

Sample of: Coal-M.A. Can No. 66 Operator: T. G. Henderson

Mine: Madrona No. 2 State: Oregon County: Clackamas Bed: (Unnamed)

Town: Wilhoit Springs Location in mine: Face of drift.

Method of sampling: _____ Gross weight, lbs. _____ Net weight, grams: 1250.5

Date of sampling: 12/20/43 Date of Lab. sampling: 1/10/44 Date of analysis: _____

B. of M. or U.S.G.S. section: B. of M. Sta. Collector: H.P. Jancey & G.P. Goughlin

	<u>COAL</u> (Air dried)	<u>COAL</u> (As Rec'd)	<u>COAL</u> (Moist. free)	<u>COAL</u> (Moist. & ash free)
Air-dry loss <u>11.3</u>				
Proximate Analysis {	Moisture	5.1	15.9	
	Volatile matter	26.9	23.9	28.4
	Fixed carbon	37.4	33.1	39.4
	Ash	<u>20.6</u>	<u>27.1</u>	<u>32.2</u>
	100.0	100.0	100.0	100.0
Ultimate Analysis {	Hydrogen			
	Carbon			
	Nitrogen			
	Oxygen			
	Sulphur	.5	.4	.5
Ash	_____	_____	_____	_____
British thermal units	8470	7510	8930	13170

Fusibility of Ash, ° F. {
 Initial deformation temperature 2760 Total thickness of bed: 6' 6-3/4"
 Softening temperature 2850 Total thickness in samples: 3' 6-1/4"
 Fluid temperature 2920 +

Date: January 19, 1944

(Signed) H. M. Cooper
Chemist

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UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines

E -- Description of Mine

1. State: Oregon
2. County: Clackamas
3. Town: Wilhoit Springs
4. Mine sample of: Coal
7. Mine: Name: Unnamed
Kind of opening: Drift
Distance & direction from town: 1 mile south of Wilhoit Springs
8. Coal bed: Name: Unknown
12. Operator: T. G. Mendrones, 2747 N.E. 18th Street, Portland, Oregon
30. Type and number of ovens: _____
31. Remarks: Prospect Sample. Mine just being opened and only one place available to be sampled. Benches in this seam appear in very irregular order.
32. Can Nos.: 6820
33. Laboratory Nos.: C-1417
34. Mine sampled at 1 point, by H. Fowler, Fuel Insp. Section on 5/28/43

Above information copied from Card A by FEH on June 16, 1943.

COPY

Laboratory No. C-1417, Can No. 6820

T. G. Mendrones, Prospect Mine, Clackamas County, Oregon

Roof coal streaked with dirt and unsafe to examine thickness at present.

This seam is said to crop out in areas nearby from 3 miles one way to 7 miles another. Shale-streaked coals excluded from sample are said to average 60% coal.

Washer will have to be installed unless only certain benches are worked.

H. Fowler

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APPROXIMATE ANALYSES OF IMPORTANT COAL

For Comparisons with Local Products

NAME	MOISTURE %	VOLATILE %	CARBON %	ASH %	
Black Diamond	7.98	40.96	49.93	8.38	Wash.
King	3.07	38.63	50.50	7.08	Utah
Rock Springs	18.83	37.93	62.07	X	Wyoming
McKay	8.33	37.40	49.65	4.60	Wash.
Local Coal No. 1	7.99	34.89	60.67	4.44	Clackamas County
Lump No. 2	7.92	33.49	60.71	5.80	"
Fine No. 3	7.27	37.09	51.32	11.59	"

NOTE: Analyses on local coal by T. G. Mandrones of Portland.

Analyses on King & Black Diamond -- Lazell of Portland.

Analyses on Rock Springs & McKay -- U. S. Bureau of Mines --
Analyses made by E. P. W. Harding of Portland.

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APPROXIMATE ANALYSES OF IMPORTANT COAL

For Comparisons with Local Products

Coal

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