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RC 194
Copy A

UNITED STATES OF AMERICA
OPERATIONS MISSION TO AFGHANISTAN
POINT 4
هیئت عملیات اضلاع متحده امریکا در افغانستان
نقطه چهار

GSA 1595

May 4, 1954

H. E. Dr. Mohammed Yusuf
Minister of Mines
Kabul, Afghanistan

Your Excellency:

Enclosed herewith are records of analysis determined from coal sample number E-23040, taken by C. Watson Owings, Mining Engineer of U. S. Bureau of Mines, while he was in the Provience of Herat Sabzak coal field, near the town of Kofa-i-sabzak, taken on June 8, 1953. Also record of analysis of coal samples no. E-23037, E-23038, E-23039, taken by C. Watson Owings while in the Provience of Mazar-i-Sharif, Darra-i-Suf coal field, near the towns of Dahan-i-tor and Shah Bashak, Taken on June 19, 20, 21, 1953.

Sincerely yours,

Paul C. Hamer

Paul C. Hamer

cc. William Hayes, USOM/A, Mission Director
E. R. Pehrson, Director Region IX, Bureau of Mines
Alan Probert, Assistant Director, Region IX
C. Watson Owing, Bureau of Mines, Pittsburgh, Pa.
George Potter, Chief Project Engineer
Larry Nahai, Chief Engineer, Southeast Asia

Deutsche Geologische Mission
GA 26 GA-26

8—137

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

H.E Dr. Yusuf
Minister of Mines

E—DESCRIPTION OF MINE

(1) Herat Province (2) County Jul Nav (3) Town Kofal-i-Sabzak (Post office)

(4) Mine sample of Coal (Material—for coal give classification) (5) Coal field Sabzak (6) District Jul Nav

(7) Mine Sabzak (a. Name) 6 inclines (b. Kind of opening—if shaft give depth) 7300 feet (c. Height of opening above sea level)

24 miles east of Karruko (d. Distance and direction from town) (e. Sec., T., and R., if necessary) none (f. Railroad connections)

Mine (g. Shipping point) Idle, Prospect in 1945. (h. State if wagon mine or prospect and give distance from shipping point)

(8) Coal bed Sabzak (a. Name) Cretaceous (b. Geologic system)

Saigon (c. Formation) 14° N (d. Dip, degrees) N 83° W (e. Strike, direction)

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

(11) Explosives No. (a. Used for coal) (b. Used for roof or floor)

(12) Operator Government of Afghanistan (Name and address)

(13) Sales agent same (Name and address)

(14) Output per day idle (Average—gross or net tons) (15) Maximum day's output — (During past year) (16) Last year's output — (Gross or net tons)

(17) Output from advance workings, percent 100 (At present) (18) Lifetime of mine 100 years (Years—estimated)

(19) Run-of-mine, percent 100 (Of output shipped) (20) Is coal screened? (21) Type of screens

(22) Type of washer (23) Percent of coal washed

(24) Maximum size washed (25) Sizes produced (Washed coal)

(26) Sizes produced Run-of-mine (Of coal not washed) (27) Is coal picked? no (State whether on car or belt)

(28) Percent of coal coked 0 (At mine) (29) Sizes coked (Screenings, crushed, washed, etc.)

(30) Type and number of ovens 0 (31) Remarks (For any additional information indicate after subject by mark X if additional information is given here)

(32) Card Nos. 735, 4202, and 3954 (Give Nos. of all samples forwarded)

(33) Laboratory Nos. E-23640 (Laboratory to fill in immediately below corresponding car number)

(34) Mine sampled at 1 (Number) points, by C. H. Swings (Collector) (Office) on June 2 (Date) 19 53

Above information copied from Card A by R. A. H. on October 1, 19 53

U. S. GOVERNMENT PRINTING OFFICE: 6—5740

Form 6—138

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 735, 4205, 3954

F—SAMPLING REPORT

Lab. No. E-23040

Province:
(1) ~~[illegible]~~ Herat (2) County Jui Nav (3) Town Kofal-i-Sabzak (Post office) (4) Mine Sabzak

(5) Sample of Coal (6) Analysis desired Prox., Ult., B.T.U., S.T., and F.S.I.

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

(8) Location in mine (Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)

(9) Date June 8, 1953 (Of sampling)

(10) Coal, dry or moist Dry (11) Gross wt., lbs. 10 lbs. (Sample cut) (12) Net wt., lbs. 10 lbs (Sample mailed)

(13) Sample from fresh or weathered coal Weathered

(14) Roof Carb. shale (Kind and quality)

(15) Draw slate or roof coal none (Description and thickness)

(16) Floor Shale (Kind, soft or hard, smooth or rough)

(17) Vertical depth from surface to point of sampling, feet 150 feet

No.	Section of Bed	Ft.	Ins.	No.	Section of Bed	Ft.	Ins.
1	Coal	3	4	10			
2				11			
3				12			
4				13			
5				14			
6				15			
7				16			
8					Total thickness of bed		
9					Thickness in sample	3	4

(18) Excluded from sample, marked X, section Nos.

(19) Send analysis to Alan Probert (20) Collector C. W. Owings (21) Office Washington, D.C.

Above information copied from B card by R.A.H. on October 1, 1953

U.S. GOVERNMENT PRINTING OFFICE 6—6098

G-139
(September 1943)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

G—COAL-ANALYSIS REPORT

Test No. _____ Lab. No. E-23040

Sample of Coal - AW.

Can No. 735, 4205, and 3954

Operator Government of Afghanistan Mine Sabzak

~~State~~ Herat Province County Jul Nav Bed Sabzak

Town Kofal-i-Sabzak

Location in mine _____

Method of sampling Channel Gross weight, lbs. 10 Net weight, grams 2018.0

Date of sampling June 8, 1953 Date of Lab. sampling Sept. 3, 1953 Date of analysis _____

B. of M. or ~~U. S. G. S.~~ section Region IX Collector C. W. Owings

	As-may Lose	Coal (Air dried)	Coal (As received)	Coal (Moisture free)	Coal (Moisture and ash free)
Proximate Analysis	Moisture		3.2		
	Volatile matter		32.0	33.1	36.4
	Fixed carbon		55.9	57.7	63.6
	Ash		8.9	9.2	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen		4.7	4.4	4.9
	Carbon		70.8	73.1	80.5
	Nitrogen		0.9	0.9	1.0
	Oxygen		12.3	10.0	10.9
	Sulphur		2.4	2.4	2.7
	Ash		8.9	9.2	
			100.0	100.0	100.0
British thermal units			12420	12820	14120

Fusibility of Ash:
Initial deformation temperature 2030
Softening temperature 2050
Fluid temperature 2080

Free-Swelling Index No. Non-caking.

Date October 1, 1953 (Signed) Roy P. Abernethy
Chemist.

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U. S. GOVERNMENT PRINTING OFFICE 16—31204-1

6—137

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

H.E. Dr. Yusuf
Minister of Mines

E—DESCRIPTION OF MINE

Province: Dahan-i-tor and
(1) Mazar-i-Sharif (2) County Darra-i-Suf (3) Town Shah Bashak (Post office)

(4) Mine sample of Coal (Material—for coal give classification) (5) Coal field Darra-i-Suf (6) District Dahan-i-tor

(7) Mine Darra-i-tor (a. Name) inclines 288 and 345 1/2 feet (b. Kind of opening—if shaft give depth) 5900 feet (c. Height of opening above sea level)

1 mile east of Dahan-i-tor (d. Distance and direction from town) 67° 16' N. Long., 35° 44' N. Lat. (e. Sec., T., and R., if necessary) (f. Railroad connections)

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

(8) Coal bed Darra-i-tor, also No. 3 Shah Bashak (a. Name) Cretaceous (b. Geologic system)

Salt (c. Formation) 220 W. (d. Dip, degrees) 530 E. (e. Strike, direction)

(9) Mining system 2 inclines only (Long wall, room and pillar, panels, etc.) (10) Undercutting -- (Hand or machine)

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

(12) Operator Government of Afghanistan (Name and address)

(13) Sales agent (Name and address)

(14) Output per day 0 (Average—gross or net tons) (15) Maximum day's output (During past year) (16) Last year's output (Gross or net tons)

(17) Output from advance workings, percent 100 (At present) (18) Lifetime of mine 100 (Years—estimated)

(19) Run-of-mine, percent 100 (Of output shipped) (20) Is coal screened? -- (21) Type of screens

(22) Type of washer (23) Percent of coal washed

(24) Maximum size washed (25) Sizes produced (Washed coal)

(26) Sizes produced (Of coal not washed) (27) Is coal picked? No (State whether on car or belt)

(28) Percent of coal coked (At mine) (29) Sizes coked (Screenings, crushed, washed, etc.)

(30) Type and number of ovens (31) Remarks (For any additional information indicate after subject by mark X if additional information is given here)

(32) Can Nos. 3660 & 278, 2918 & 835, and 596. (Give Nos. of all samples forwarded)

(33) Laboratory Nos. E-23037, E-23038, E-23039 (Laboratory to fill in immediately below corresponding can number)

(34) Mine sampled at 3 (Number) points, by C. W. Owings, Wash., D.C. (Collector) (Office) June 19, 20, 21 1933 (Date)

Above information copied from Card A by R.A.B. on October 1, 1953

U.S. GOVERNMENT PRINTING OFFICE 6—9240

Form 6—139

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 3660 and 278

F—SAMPLING REPORT

Lab. No. E-23037

(1) ~~State~~ Province: Mazar-i-Sharif (2) County Darra-i-Suf (3) Town Dahan-i-Tor (Post office) (4) Mine Darra-i-Tor

(5) Sample of Coal (6) Analysis desired Prox., Ult., B.T.U., S.T., and FIS.I.

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

(8) Location in mine No. 1 adit, 40 feet from portal. (Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)

(9) Date June 19, 1953 (Of sampling)

(10) Coal, dry or moist Dry (11) Gross wt., lbs. 6 lbs. (Sample cut) (12) Net wt., lbs. 6 lbs. (Sample mailed)

(13) Sample from fresh or weathered coal Weathered

(14) Roof Carb. shale (Kind and quality)

(15) Draw slate or roof coal 0 (Description and thickness)

(16) Floor Gray shale (Kind, soft or hard, smooth or rough)

(17) Vertical depth from surface to point of sampling, feet 150 feet

No.	Section of Bed	Ft.	Ins.	No.	Section of Bed	Ft.	Ins.
1	Coal	5	8	10			
X 2	Coal floor	6	0	11			
3				12			
4				13			
5				14			
6				15			
7				16			
8					Total thickness of bed	11	8
9					Thickness in sample	5	8

(18) Excluded from sample, marked X, section Nos. 2

(19) Send analysis to Alan Probert Asst. Reg. Director (20) Collector C. W. Owings (21) Office Foreign Min. Region Washington, D.C.

Above information copied from B card by R.A.H. on October 1, 1953

U.S. GOVERNMENT PRINTING OFFICE

6-189
(September 1940)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

G—COAL-ANALYSIS REPORT

Lab. No. E-23037

Test No. _____ Can No. 3660 and 278

Sample of Coal - Mas.

Operator Government of Afghanistan Mine Darra-i-Tor

Province: Mazar-i-Sharif County Darra-i-Suf Bed Darra-i-Tor

Town Dahan-i-Tor

Location in mine No. 1 adit, 40 feet from portal.

Method of sampling Channel Gross weight, lbs. 6 Net weight, grams 2089.0

Date of sampling 6/19/53 Date of lab. sampling 9/3/53 Date of analysis _____

B. of M. or section Region IX Collector C. W. Owings

		Coal (Air dried)	Coal (As received)	Coal (Moisture free)	Coal (Moisture and ash free)
Air-dry Loss			8.0		
Proximate Analysis	Moisture		23.3	25.3	35.3
	Volatile matter *		42.8	46.5	64.7
	Fixed carbon		25.9	28.2	
	Ash		100.0	100.0	100.0
Ultimate Analysis	Hydrogen		3.6	2.9	4.1
	Carbon		49.1	53.4	74.4
	Nitrogen		0.7	0.7	1.0
	Oxygen		20.0	14.1	12.5
	Sulphur		0.7	0.7	1.0
	Ash		25.9	28.2	
			100.0	100.0	100.0
British thermal units			8030	8740	12170

Fusibility of Ash, °F.
- Initial deformation temperature 2780
- Softening temperature 2910
- Fluid temperature 2910+

Free-Swelling Index No. Non-caking.

* Determined by modified method.

(Signed) Roy F. Abernathy Chemist.

Date October 1, 1953

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U. S. GOVERNMENT PRINTING OFFICE 16—35,01-1

Form 6—138

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 2918 and 835

F—SAMPLING REPORT

Lab. No. E-23038

Province:
(1) Mazar-i-Sharif (2) County Darra-i-Suf (3) Town Dahan-i-Tor (Post office) (4) Mine Darra-i-Tor

(5) Sample of Coal (6) Analysis desired Ult., B.T.U., S.T., F.S.I.

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

(8) Location in mine No. 2 Adit, 33 feet from outcrop. (Distance and direction from opening. Locate with respect to rib, room, pillar, air course, entry, etc.)

(9) Date June 20, 19 53 (Of sampling)

(10) Coal, dry or moist Dry (11) Gross wt., lbs. 6 (Sample cut) (12) Net wt., lbs. 6 (Sample mailed)

(13) Sample from fresh or weathered coal Weathered

(14) Roof Carb. shale (Kind and quality)

(15) Draw slate or roof coal (Description and thickness)

(16) Floor Gray shale (Kind, soft or hard, smooth or rough)

(17) Vertical depth from surface to point of sampling, feet 90 feet

No.	Section of Bed	Ft.	Ins.	No.	Section of Bed	Ft.	Ins.
1	Coal	1	2	10			
X_2	Shale	1	0	11			
3	Coal	3	3 1/2	12			
X_4	Shale		3 1/8	13			
5	Coal		8	14			
X_6	Coal	3	0	15			
7				16			
8					Total thickness of bed	9	4 5/8
9					Thickness in sample	5	1 1/2

(18) Excluded from sample, marked X, section Nos. 2, 4, and 6

(19) Send analysis to Alan Probert (20) Collector C. W. Owings (21) Office Washington, D.C.

Above information copied from B card by R.A.H. on October 1, 19 53

U. S. GOVERNMENT PRINTING OFFICE 6—6008

G-139
(September 1943)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

G—COAL-ANALYSIS REPORT

Test No. _____ Lab. No. E-23038

Sample of Coal - NAb Can No. 2916 and 835

Operator Government of Afghanistan Mine Darra-i-Tor

State ~~xxx~~ Province: Kazar-i-Sharif County Darra-i-Suf Bed Darra-i-Tor

Town Dahan-i-Tor

Location in mine No. 2 Adit, 33 feet from outcrop.

Method of sampling Channel Gross weight, lbs. 6 Net weight, grams 2267.0

Date of sampling June 20, 1953 Date of Lab. sampling Sept. 3, 1953 Date of analysis _____

B. of M. or ~~U. S. G. S.~~ section Region IX Collector C. W. Owings

	Air-dry Loss	Coal (Air dried)	Coal (As received)	Coal (Moisture free)	Coal (Moisture and ash free)
Proximate Analysis	Moisture		5.3		
	Volatile matter		25.7	27.1	36.8
	Fixed carbon		44.1	46.6	63.2
	Ash		24.9	26.3	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen		4.0	3.6	5.2
	Carbon		55.6	58.8	79.8
	Nitrogen		0.7	0.8	1.0
	Oxygen		14.1	9.8	13.3
	Sulphur		0.7	0.7	1.0
	Ash		24.9	26.3	
			100.0	100.0	100.0
British thermal units			9560	10100	13700

Fusibility of Ash, °F.	
Initial deformation temperature	2490
Softening temperature	2610
Fluid temperature	2810

Free-Swelling Index No. Non-caking

Date October 1, 1953 (Signed) Roy F. Abernethy Chemist.

rah

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U. S. GOVERNMENT PRINTING OFFICE 16—65204-1

Form 6—138

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

F—SAMPLING REPORT

Can No. 596 Lab. No. S-23039

Province:
(1) Mazar-i-Sharif (2) County Darra-i-Suf (3) Town Shah Bashak (Post office) (4) Mine Outcrop

(5) Sample of Coal (6) Analysis desired Prox., Ult., B.T.U., S.T., and F.S.I.

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

(8) Location in mine On outcrop No mine opening (Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)

(9) Date June 21, 1953 (Of sampling)

(10) Coal, dry or moist Moist (11) Gross wt., lbs. 3 (Sample cut) (12) Net wt., lbs. 3 (Sample [illegible])

(13) Sample from fresh or weathered coal Outcrop

(14) Roof 0 (Kind and quality)

(15) Draw slate or roof coal 0 (Description and thickness)

(16) Floor Dirt (Kind, soft or hard, smooth or rough)

(17) Vertical depth from surface to point of sampling, feet 0

No.	Section of Bed	Ft.	Ins.	No.	Section of Bed	Ft.	Ins.
1	Coal	5	0	10			
2				11			
3				12			
4				13			
5				14			
6				15			
7				16			
8					Total thickness of bed		
9					Thickness in sample	5	0

(18) Excluded from sample, marked X, section Nos.

(19) Send analysis to Alan Probert (20) Collector C. W. Owings (21) Office Washington, D.C.

Above information copied from B card by R.A.N. on October 1, 1953

U.S. GOVERNMENT PRINTING OFFICE 6—6098

6-139
(September 1943)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

G—COAL-ANALYSIS REPORT

Test No. ..... Lab. No. S-23039

Sample of Coal - NAa. Can No. 596

Operator Government of Afghanistan Mine Outcrop

Province: ~~State~~ Mazar-i-Sharif County Darra-i-Suf Bed No. 3 Shah Bashak

Town Shah Bashak

Location in mine On outcrop.

Method of sampling Channel Gross weight, lbs. 3 Net weight, grams 906.0

Date of sampling June 21, 1953 Date of Lab. sampling Sept. 3, 1953 Date of analysis .....

B. of M. ~~or U.S.G.S.~~ section Region IX Collector C. W. Owings

Air-dry Loss		Coal (Air dried)	Coal (As received)	Coal (Moisture free)	Coal (Moisture and ash free)
Proximate Analysis	Moisture		26.0		
	Volatile matter *		27.8	37.6	41.9
	Fixed carbon		38.7	52.2	58.1
	Ash		7.5	10.2	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen		5.2	3.1	3.4
	Carbon		46.5	62.8	70.0
	Nitrogen		0.9	1.3	1.4
	Oxygen		39.7	22.3	24.9
	Sulphur		0.2	0.3	0.3
	Ash		7.5	10.2	
			100.0	100.0	100.0
British thermal units			7270	9830	10950

Fusibility of Ash, °F.
- Initial deformation temperature 2460
- Softening temperature 2600
- Fluid temperature 2760

* Determined by modified method.

Free-Swelling Index No. Non-caking

Date October 1, 1953 (Signed) Roy F. Abernethy

rah

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