

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

E-DESCRIPTION OF MINE

Country: xxx Afghanistan (1) State Herat Province (2) County Herat (3) Town Masjid - Chobi (Post office) In Hindu Kush Mts.

(4) Mine sample of Bituminous Coal (5) Coal field Herat (6) District In Hindu Kush Mts.

(7) Mine Herat or Sabzak (a. Name) slope (b. Kind of opening—if shaft give depth) 7,000 feet (c. Height of opening above sea level)

67 Mi. N. E. of Herat (d. Distance and direction from town) No (e. Sec., T., and R., if necessary) (f. Railroad connections)

Herat (g. Shipping point) Truck coal 67 Mi. to City of Herat (h. State if wagon mine or prospect and give distance from shipping point)

(i) 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 Room & Pillar (Long wall, room and pillar, panels, etc.) (10) Undercutting Hand Dug (Hand or machine)

(11) Explosives None used (a. Used for coal) (b. Used for roof or floor)

(12) Operator City of Herat, Afghanistan (Name and address)

(13) Sales agent - (Name and address)

(14) Output per day 3 tons (Average—gross or net tons) (15) Maximum day's output 4 tons (During past year) (16) Last year's output 800 ton (Gross or net tons)

(17) Output from advance workings, percent 100 (At present) (18) Lifetime of mine 10 years (Years—estimated)

(19) Run-of-mine, percent 100 (Of output shipped) (20) Is coal screened? No (21) Type of screens -

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

(24) Maximum size washed - (25) Sizes produced Run of mine only (Washed coal)

(26) Sizes produced - (Of coal not washed) (27) Is coal picked? Yes - as piled on surface (State whether on car or belt)

(28) Percent of coal coked None (At mine) (29) Sizes coked None (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. 1051 : 9668 : : : 428 (Give Nos. of all samples forwarded)

(33) Laboratory Nos. a-48869 : a-48870 : : : (Laboratory to fill in immediately below corresponding can number)

(34) Mine sampled at 2 (Number) points, by Robert T. Davis, Div. (Collector) (Office) on 9/17-18/59 (Date)

Above information copied from Card A by CMG of Foreign Activities on November 5, 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 1051

F—SAMPLING REPORT

Lab. No. G-48869

Country:

(Wooden Mosque)

Herat or

(1) State Afghanistan (2) County Herat Province (3) Town Masjid - Chobi (4) Mine Sabzak
(Post office)(5) Sample of Bituminous Coal (6) Analysis desired Prox., Ult., Btu, S.T., FSI(7) Method of sampling Channel
(Describe if other than standard)(8) Location in mine 25 feet inby slope opening at point of North Hill,
10 feet outby face on right rib. (Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)(9) Date Sept. 17, 1959
(Of sampling)(10) Coal, dry or moist Dry (11) Gross wt., lbs. 2 1/2 (12) Net wt., lbs. 2 1/4
(Sample cut) (Sample mailed)(13) Sample from fresh or weathered coal Fresh(14) Roof Soft grey shale
(Kind and quality)(15) Draw slate or roof coal 5 feet grey shale roof
(Description and thickness)(16) Floor Soft grey fire clay
(Kind, soft or hard, smooth or rough)

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

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

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

(19) Send analysis to L. A. Turnbull (20) Collector Robert T. Davis (21) Office Division of
Washington, D. C. Afghanistan Foreign
ActivitiesAbove information copied from B card by CMB on November 5, 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

G-COAL-ANALYSIS REPORT

Test No.

Lab. No. G-48869

Sample of Bituminous Coal

Can No. 1051

Operator City of Herat, Afghanistan

Mine Herat or Sabzak

Country:

State Afghanistan

County Herat

Bed Sabzak

Province

Town (Wooden Mosque) Masjid - Chobi

Location in mine 25 feet inby slope opening at point of North Hill, 10 feet outby face on right rib.

Method of sampling Channel

Gross weight, lbs. 2 1/2

Net weight, grams 1061.

Date of sampling 9/17/59

Date of Lab. sampling 10/26/59

Date of analysis

B. of M. or U. S. G. S. section

Div. of Foreign Activities

Collector Robert Davis

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture		3.4		
	Volatile matter		30.2	31.3	35.8
	Fixed carbon		54.2	56.1	64.2
	Ash		12.2	12.6	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen		4.6	4.4	5.0
	Carbon		68.7	71.1	81.4
	Nitrogen		.9	.9	1.0
	Oxygen		9.8	7.0	8.1
	Sulphur		3.8	4.0	4.5
	Ash		12.2	12.6	
			100.0	100.0	100.0
British thermal units			12110	12540	14350

Free-Swelling Index No. 2

Initial deformation temperature 1940
Softening temperature 2000
Fluid temperature 2250

Date November 15, 1959

(Signed) Roy F. Abernethy

Chemist.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF MINES
Can No. **9668**

F—SAMPLING REPORT

Lab. No. **0-48870**

Country:

 (1) State **Afghanistan** (2) County **Herat Province** (3) Town **Masjid - Chobi** (4) Mine **Herat or Sabzak**
 (Post office) **(Wooden Mosque)**
(5) Sample of **Bituminous Coal** (6) Analysis desired **Prox., Ult., Btu, S.T., PSI**(7) Method of sampling **Channel**

(Describe if other than standard)

(8) Location in mine **South Hill No. 4 active place, 35 feet from slope entrance**

(Distance and direction from opening. Locate with respect

and face of place

to rib, room, pillar, aircourse, entry, etc.)

(9) Date **Sept. 18,** 19**59**

(Of sampling)

(10) Coal, dry or moist **Dry**(11) Gross wt., lbs. **2 1/4**

(Sample cut)

(12) Net wt., lbs. **2**

(Sample mailed)

() Sample from fresh or weathered coal **Fresh**(14) Roof **Grey Shale - soft**

(Kind and quality)

(15) Draw slate or roof coal **Shale - 8 feet**

(Description and thickness)

(16) Floor **Soft, Grey Fireclay**

(Kind, soft or hard, smooth or rough)

(17) Vertical depth from surface to point of sampling, feet **30**

No.	SECTION OF BED	Ft.	INS.	No.	SECTION OF BED	Ft.	INS.
1	Bone		1 3/4	10			
2	Coal	2	10 1/4	11			
3	Bone		2	12			
4				13			
5				14			
6	(Coal bed varies from 38 to 58" in thickness South area.)			15			
7				16			
8				/At point of sampling		3	2
				Total thickness of bed			
9				Thickness in sample			

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

(19) Send analysis to **L. A. Turnbull,**
Washington, D. C.(20) Collector **Robert T. Davis,**
Afghanistan(21) Office **Div. of**
Foreign Activities

Above information copied from B card by

CMG

on

November 5,

19

59

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Test No. _____ G-COAL-ANALYSIS REPORT Lab. No. 0-48870

Sample of Bituminous Coal Can No. 9668

Operator City of Herat, Afghanistan Mine Herat or Sabzak
Country: _____

State Afghanistan County Herat Bed Sabzak

Province _____

Town (Wooden Mosque) Masjid - Chobi

Location in mine South Hill No. 4 active place, 35 feet from slope entrance
/and face of place.

Method of sampling Channel Gross weight, lbs. 2 1/4 Net weight, grams 1006.

Date of sampling 9/18/59 Date of Lab. sampling 10/26/59 Date of analysis _____

B. of M. or U.S.G.S. section Div. of Foreign Collector Robert Davis

Activities

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture		2.1		
	Volatile matter		25.9	26.5	32.3
	Fixed carbon		54.2	55.3	67.7
	Ash		17.8	18.2	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen		4.2	4.0	4.9
	Carbon		66.0	67.4	82.4
	Nitrogen		.7	.8	.9
	Oxygen		10.3	8.6	10.6
	Sulphur		1.0	1.0	1.2
	Ash		17.8	18.2	
			100.0	100.0	100.0
British thermal units			11410	11650	14240

Fusibility of Ash, ° F.
Initial deformation temperature 2830+
Softening temperature -
Fluid temperature -

Free-Swelling Index No. Non Caking

Date November 5, 1959 (Signed) Roy F. Abernathy Chemist.

CNG

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Pittsburgh, Pa.
ANALYTICAL REPORT

Coal Lab.

G-48869

Sample No. Can 1051Laboratory No. 49533

Sample of Coal - Afghanistan, Herat Province, Town, Masjid-Chobi (Wooden Mosque)
Herat or Zabzak Mine, Herat Coal Field.

From _____

Sampled 9-17-59 Received at lab. 11-5-59 Analyzed 11-6-59

Section or Bureau Division of Foreign Activities Collector R. T. Davis
ANALYSIS Kabul, Afghanistan

Bureau of Mines Agglutinating Value Test

Ratio of silicon
carbide to coal

15-1

Crushing strength,
kilograms

0.2

Date 11-6-59

(Signed) W. H. Ode, Chemist.