



UNITED STATES AID MISSION TO AFGHANISTAN
c/o AMERICAN EMBASSY
KABUL, AFGHANISTAN

June 17, 1965

در دوشنبه دنگال

بکریه دنگال دهنه تری

دره هورف
قوسه بوردی سعادتی و خدیج مسکن

دره هورف
قوسه بوردی سعادتی

دره هورف
قوسه بوردی سعادتی و خدیج مسکن

H.E. Abdul Samad Saleem
Deputy Minister
Ministry of Mines and Industries
Royal Government of Afghanistan
Kabul, Afghanistan

Excellency:

We herewith submit mine air samples and coal samples taken in Darra Suf No. 1 and No. 2 Mines on April 23, 1965 for your information.

Please accept, Excellency, renewed assurance of our continued high esteem.

Sincerely,

James H. Clausen

James H. Clausen
Chief, Industry & Engineering Division

Attachments as stated

۴۳۴۰

434



UNITED STATES AID MISSION TO AFGHANISTAN
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H.E. Salim

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINE ATMOSPHERE ANALYSIS REPORT

Mine	No. 1 Mine		Operator	Royal Government Afghanistan		Coal bed
State	County		Town	Collector		L. A. Lewallen
Bottle No.	Z-3225		Z-3226	Z-6057		
Laboratory No.	391850		391851	391852		
Kind of sample	Face		Face	Face		
Location in mine	East level		Main slope heading	East level airway		
Date and hour sampled	4/23/65 10:25 a.m.		4/23/65 11:00 a.m.	4/23/65 11:45 a.m.		
Air quantity	Still		Still	Still		
Pressure on seal	---		---	---		
Barometer (inside)	---		---	---		
Carbon dioxide (CO ₂)	0.16		0.14	0.27		
Oxygen (O ₂)	20.73		20.77	20.56		
Hydrogen (H ₂)						
Carbon monoxide (CO)						
Methane (CH ₄)	0.00		0.00	0.00		
Nitrogen (N ₂)	79.11		79.09	79.17		

Date May 14, 1965(Signed) Mary A. Barrett

Chemist.
GPO 90 40 21

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINE ATMOSPHERE ANALYSIS REPORT

Mine No. 2 Mine Operator Royal Government Afghanistan Coal bed _____
State _____ County _____ Town _____ Collector L. A. Lewallen

Bottle No.	<u>Z-3221</u>	<u>Z-3214</u>	<u>Z-3233</u>	
Laboratory No.	<u>391846</u>	<u>391848</u>	<u>391849</u>	
Kind of sample	<u>Face</u>	<u>Face</u>	<u>Face</u>	
Location in mine	<u>Main slope heading</u>	<u>1 level left,</u>	<u>1 level right</u>	
		<u>airway</u>		
Date and hour sampled	<u>4/23/65 2:50 p.m.</u>	<u>4/23/65 2:25 p.m.</u>	<u>4/23/65 3:15 p.m.</u>	
Air quantity	<u>Still</u>	<u>Still</u>	<u>Still</u>	
Pressure on seal	<u>---</u>	<u>---</u>	<u>---</u>	
Barometer (inside)	<u>---</u>	<u>---</u>	<u>---</u>	
Carbon dioxide (CO ₂)	<u>0.15</u>	<u>0.15</u>	<u>0.14</u>	
Oxygen (O ₂)	<u>20.87</u>	<u>20.81</u>	<u>20.79</u>	
Hydrogen (H ₂)				
Carbon monoxide (CO)				
Methane (CH ₄)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	
Nitrogen (N ₂)	<u>78.98</u>	<u>79.04</u>	<u>79.07</u>	

Date May 14, 1965

(Signed) Mary A. Barrett

Chemist.

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF MINES

MINE ATMOSPHERE ANALYSIS REPORT

Mine Nucker Tunnel Operator Royal Government Afghanistan Coal bed _____
State _____ County _____ Town _____ Collector L. A. Lewallen

Bottle No.	<u>Z-6056</u>			
Laboratory No.	<u>391847</u>			
Kind of sample	<u>Face</u>			
Location in mine	<u>50 feet inby side</u> <u>track switch</u>			
Date and hour sampled	<u>4/23/65 4:00 p.m.</u>			
Air quantity	<u>Still</u>			
Pressure on seal	<u>---</u>			
Barometer (inside)	<u>---</u>			
Carbon dioxide (CO ₂)	<u>0.20</u>			
Oxygen (O ₂)	<u>20.80</u>			
Hydrogen (H ₂)				
Carbon monoxide (CO)				
Methane (CH ₄)	<u>0.00</u>			
Nitrogen (N ₂)	<u>79.00</u>			

Date May 14, 1965(Signed) Mary A. Barrett

Chemist.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINE ATMOSPHERE ANALYSIS REPORT

Mine	<u>Nucker Tunnel</u>	Operator	<u>Royal Government Afghanistan</u>	Coal bed	
State		County		Town	
				Collector	<u>L. A. Lewallen</u>
Bottle No.	<u>Z-6056</u>				
Laboratory No.	<u>391847</u>				
Kind of sample	<u>Face</u>				
Location in mine	<u>50 feet inby side</u>				
	<u>track switch</u>				
Date and hour sampled	<u>4/23/65 4:00 p.m.</u>				
Air quantity	<u>Still</u>				
Pressure on seal	<u>---</u>				
Barometer (inside)	<u>---</u>				
Carbon dioxide (CO ₂)	<u>0.20</u>				
Oxygen (O ₂)	<u>20.80</u>				
Hydrogen (H ₂)					
Carbon monoxide (CO)					
Methane (CH ₄)	<u>0.00</u>				
Nitrogen (N ₂)	<u>79.00</u>				

Date May 14, 1965(Signed) Mary A. BarrettChemist
GPO 90 40 21

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DESCRIPTION OF MINE

Country: **AFGHANISTAN** (1) State (2) County **Darra-Suf / Sub Province** (3) Town **Darra-Suf** (Post office)

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

(7) Mine **Darra-Suf Nos. 1 & 2** (a. Name) **slope** (b. Kind of opening—if shaft give depth) **6,000** (c. Height of opening above sea level)

400 miles north of Kabul (capital) (d. Distance and direction from town) (e. Sec., T., and R., if necessary) (f. Railroad connections)

(g. Shipping point) **Darra-Suf** (h. State if wagon mine or prospect and give distance from shipping point)

(8) Coal bed **Cretaceous** (a. Name) **20 to 40** (b. Geological system) **Juresic**

(c. Formation) (d. Dip, degrees) (e. Strike, direction) **north**

(9) Mining system **Room-and-Pillar** (Long wall, room and pillar, panels, etc.) (10) Undercutting **Hand** (Hand or machine)

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

(12) Operator **Royal Government Afghanistan** (Name and address)

(13) Sales agent **Government Monopoly** (Name and address)

(14) Output per day **50** (Average—gross or net tons) (15) Maximum day's output **60** (During past year) (16) Last year's output **4,200 net** (Gross or net tons)

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

(19) Run-of-mine, percent **10%** (Of output shipped) (20) Is coal screened? **No** (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? **By hand at face** (State whether on car or belt)

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

(30) Type and number of ovens **none** (31) Remarks (For any additional information indicate after subject by mark X if additional information is given here)

(32) Can Nos. **8257** : **8260** : **8264** : **8267** : **8268** : **8271** (Give Nos. of all samples forwarded)

(33) Laboratory Nos. **I-8856 thru I-8861** (Laboratory to fill in immediately below corresponding can number)

(34) Mine sampled at **6** (Number) points, by **Lewallen, Moore and Walker** (Collector) **April 23, 1965** (Date)

USBM, Div. Intl. Activities, Wash., D. C.

Information copied from Card A by **JCS** on **May 25, 1965**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SAMPLING REPORT

Lab. No. I-8856

Can No. 8257

Country: AFGHANISTAN (1) State (2) County / Darra Suf Sub Province (3) Town Darra-Suf (Post office) (4) Mine No. 2 Mine

(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, FSI

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

(8) Location in mine 1 level right, 67 feet inby station No. 98 (Distance and direction from opening. Locate with respect to pit, seam, pillar, crosscut, entry, etc.) (9) Date April 23, 1965 (Of sampling)

(10) Coal, dry or moist Moist (11) Gross wt., lbs. 20 (12) Net wt., lbs. 4 (Sample moist)

(13) Sample from fresh or weathered coal fresh

(14) Roof slate (Kind and quality)

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

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

(17) Vertical depth from surface to point of sampling, feet 200

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

(18) Excluded from sample, marked X, section No. (19) Send analysis to Div. Intl. Activities, Lewallen, Moore and Walker (20) Collector (21) Office Washington, D. C.

Above information copied from B card by JCS on May 25, 1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SAMPLING REPORT

Lab. No. I-8856

Can No. 8257

Country: AFGHANISTAN (1) SUBS (2) County/ Darra Suf Sub Province (3) Town Darra-Suf (4) Mine No. 2 Mine

(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, FSI

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

(8) Location in mine 1 level right, 67 feet inby station No. 98 (Distance and direction from opening. Locate with respect to stb, room, pillar, crosscut, entry, etc.)

(9) Date April 23, 1965 (Of sampling)

(10) Coal, dry or moist Moist (11) Gross wt., lbs. 20 (Sample cut) (12) Net wt., lbs. 4 (Sample mailed)

(13) Sample from fresh or weathered coal fresh

(14) Roof slate (Kind and quality)

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

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

(17) Vertical depth from surface to point of sampling, feet 200

No.	Section or Bed	Ft.	In.	No.	Section or Bed	Ft.	In.
1	Rash		2	10	Coal		5 1/2
2	Coal		6 1/2	11	Bone		1
3	Rash		1/2	12	Coal	1	4
4	Coal		7	13	Rash		1/2
5	Rash		1/2	14	Coal	2	
6	Coal		3	15			
7	Bone		2	16			
8	Coal		5	Total thickness of bed			74
9	Bone		1	Thickness in sample			74

(18) Excluded from sample, marked X, section Nos. (19) Send analysis to Div. Intl. Activities, Lewallen, Moore and Walker (20) Collector (21) Office Washington, D. C.

Above information copied from B card by JCS on May 25, 1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL-ANALYSIS REPORT

Lab. No. I-8856

Can No. 8257

Test No.

Sample of Coal

Operator Royal Government Afghanistan Mine No. 2

Country: Darra Suf

State AFGHANISTAN County / Sub Province Darra-Suf

Town Darra-Suf

Location in mine 1 level right, 67 feet inby station No. 98

Method of sampling Channel (standard) Gross weight, lbs. 20 Net weight, grams 1153.

Date of sampling 4/23/65 Date of Lab. sampling 5/19/65 Date of analysis

B.ofM. or U.S.G.S. section Div. Int. Activities Collector Lewallen, Moore and Walker

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture.....	India: Max 4.0	7.3	32.3	35.3
	Volatile matter.....	" 30-39	30.0	59.4	64.7
	Fixed carbon.....	" 59-60	55.0	8.3	
	Ash.....	" 7-8	7.7	100.0	100.0
Ultimate Analysis	Hydrogen.....				
	Carbon.....				
	Nitrogen.....				
	Oxygen.....		0.7	0.8	0.9
	Sulphur.....				
	Ash.....				
British thermal units.....			12440	13420	14640

British thermal units.....

Fluidity of Ash, °F.
Initial deformation temperature.....
Softening temperature.....
Fluid temperature.....

Free-swelling Index No. 1 1/2

Date May 26, 1965

Forrest E. Walker
Chemist-in-Charge, Coal Analysis

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 8260

SAMPLING REPORT

Lab. No. I-8857

Country: (1) AFGHANISTAN (2) County Darra Sul / Sub Province Darra-Sul (3) Town Darra-Sul (4) Mine No. 2

(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, PSI

(7) Method of sampling Channel (standard)

(8) Location in mine Main slope, 90 feet inby station No. 91

(9) Date April 23, 19 65

(10) Coal, dry or moist Moist (11) Gross wt., lbs. 30 (12) Net wt., lbs. 4

(13) Sample from fresh or weathered coal fresh

(14) Roof slate

(15) Draw slate or roof coal

(16) Floor hard-smooth

(17) Vertical depth from surface to point of sampling, feet 200

No.	Section or Bed	Ft.	In.	No.	Section or Bed	Ft.	In.
1	Coal		10	10			
2	Bone		1	11			
3	Coal		5	12			
4	Bone		2	13			
5	Coal		5	14			
6	Bone		1	15			
7	Coal		6	16			
8	Rash		1	Total thickness of bed			70
9	Coal	3	3	Thickness in sample			70

(18) Excluded from sample, marked X, section Nos. Lewallen, Moore and Walker

(19) Send analysis to Div. Intl. Activities (20) Collector Walker (21) Office Washington, D. C.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL-ANALYSIS REPORT

Lab. No. I-8857

Test No.

Sample of Coal

Can No. 8260

Operator Royal Government Afghanistan Mine No. 2

Country: AFGHANISTAN County Darra Suf Sub Province Darra-Suf

Town Darra-Suf

Location in mine Main slope, 90 feet inby station No. 91

Method of sampling Channel (standard) Gross weight, lbs. 30 Net weight, grams 1149.

Date of sampling 4/23/65 Date of Lab. sampling 5/19/65 Date of analysis

B.ofM. or U.S.G.S. section Div. Int. Activities Collector Lewallen, Moore and Walker

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture		9.4		
	Volatile matter		28.5	31.5	35.1
	Fixed carbon		52.7	58.1	64.9
	Ash		9.4	10.4	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen				
	Carbon				
	Nitrogen				
	Oxygen		0.7	0.8	0.8
	Sulphur				
			11870	13110	14620
British thermal units					
Physical Properties	Initial deformation temperature		Free-swelling Index No. 1		
	Softening temperature				
	Fluid temperature				

Date May 26, 1965

Forrest E. Walker
Chemist-in-Charge, Coal Analysis

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JCS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 8264

SAMPLING REPORT

Lab. No. I-8858

Country: AFGHANISTAN (1) State (2) County Darra Suf / Sub Province (3) Town Darra-Suf (4) Mine No. 2

(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, FSI

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

(8) Location in mine 1 level left, 67 feet inby airway (Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)

(9) Date April 23, 1965 (Of sampling)

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

(13) Sample from fresh or weathered coal fresh

(14) Roof Slate (Kind and quality)

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

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

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

No.	SECTION OF BED	Ft.	In.	No.	SECTION OF BED	Ft.	In.
1	Bone		1 1/2	10	Coal	3	7 1/2
2	Coal		11	11			
3	Bone		1/2	12			
4	Coal		3 1/2	13			
5	Bone		1	14			
6	Coal		4 1/2	15			
7	Bone		1	16			
8	Coal		6	Total thickness of bed			74
9	Slate		1 1/2	Thickness in sample			74

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

(19) Send analysis to Div. Intl. Activities (20) Collector Lewallen, Moore and Walker (21) Office Washington, D.C.

Above information copied from B card by JCS on May 25, 1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL-ANALYSIS REPORT

Test No. _____
Sample of Coal
Operator Royal Government Afghanistan Mine No. 2
Country: AFGHANISTAN State Darra Suf County Sub Province Bed Darra-Suf
Town Darra-Suf

Lab. No. I-8858

Can No. 8264

Location in mine 1 level left, 67 feet inby airway

Method of sampling Channel (standard)

Gross weight, lbs. 25 Net weight, grams 1193.

Date of sampling 4/23/65

Date of Lab. sampling 5/19/65

Date of analysis

B.of.M. or USGS section Div. Int. Activities Collector Lewallen, Moore and Walker

Air-dry Loss		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture		6.8		
	Volatile matter		29.2	31.3	35.7
	Fixed carbon		52.6	56.5	64.3
	Ash		11.4	12.2	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen				
	Carbon				
	Nitrogen				
	Oxygen				
	Sulphur		0.7	0.7	0.8
	Ash				
British thermal units			11970	12840	14630
Fusibility of Ash, %	Initial deformation temperature	Free-swelling Index No. 1			
	Softening temperature				
	Fluid temperature				

Date May 26, 1965

Forrest E. Walker
Chemist-in-Charge, Coal Analysis

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SAMPLING REPORT

Lab. No. I-8859

Can No. 8267

Country: Darra Suf No. 1
(1) State AFGHANISTAN (2) County Sub Province (3) Town Darra-Suf (4) Mine No. 1
(Post office)
(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, FSI
(7) Method of sampling Channel (Standard)
(Describe if other than standard)
(8) Location in mine Main slope, 33 feet inby station No. 105
(Distance and direction from opening. Locate with respect to rib, room, pillar, adit, etc.)
(9) Date April 23, 1965
(Of sampling)
(10) Coal, dry or moist moist (11) Gross wt., lbs. 15 (12) Net wt., lbs. 4
(Sample out) (Sample mailed)
(13) Sample from fresh or weathered coal fresh
(14) Roof slate
(Kind and quality)
(15) Draw slate or roof coal hard-smooth
(Description and thickness)
(16) Floor hard-smooth
(Kind, soft or hard, smooth or rough)
(17) Vertical depth from surface to point of sampling, feet 275

No.	SECTION OF BED	Ft.	In.	No.	SECTION OF BED	Ft.	In.
1				10			
2				11			
3	S E C T I O N S N O T T A K E N				12		
4				13			
5	<i>Shaky fault</i>			14			
6				15			
7				16			
8				Total thickness of bed			
9				Thickness in sample			

(18) Excluded from sample, marked X, section Nos. Lewallen, Moore and
(19) Send analysis to Div. Intl. Activities (20) Collector Walker (21) Office Washington, D. C.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL-ANALYSIS REPORT

Test No.

Lab. No. I-8859

Sample of Coal

Can No. 8267

Operator Royal Government Afghanistan

Mine No. 1

Country: AFGHANISTAN
SIC

County/Darra Suf
Sub Province

Bed Darra-Suf

Town Darra-Suf

Location in mine Main slope, 33 feet inby station No. 105 (Nearby fault)

Method of sampling Channel (standard) Gross weight, lbs. 15 Net weight, grams 985.

Date of sampling 4/23/65 Date of Lab. sampling 5/19/65 Date of analysis

B.ofM. or U.S.G.S. section Div. Intl. Activ. Collector Lewallen, Moore and Walker

AIR-DRY LOSS		COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture.....		7.1		
	Volatile matter.....		25.9	27.8	37.4
	Fixed carbon.....		43.3	46.7	62.6
	Ash.....		23.7	25.5	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen.....				
	Carbon.....				
	Nitrogen.....				
	Oxygen.....				
	Sulphur.....		0.5	0.6	0.8
	Ash.....				
British thermal units.....			9960	10730	14410
Fusibility of Ash, °F.	Initial deformation temperature.....	Free-swelling Index No. 1			
	Softening temperature.....				
	Fluid temperature.....				

Date May 26, 1965

Forrest E. Walker
Chemist-in-Charge, Coal Analysis

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Can No. 8268

SAMPLING REPORT

Lab. No. I-8860

Country: AFGHANISTAN (1) State Darra Suf (2) County/Sub Province (3) Town Darra-Suf (4) Mine 1

(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, FSI

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

(8) Location in mine East level airway, 56 feet inby station No. 106 (Distance and direction from opening. Locate with respect to rib, room, pillar, aircourse, entry, etc.)

(9) Date April 23, 1965 (Of sampling)

(10) Coal, dry or moist moist (11) Gross wt., lbs. 30 (Sample cut) (12) Net wt., lbs. 4 (Sample mailed)

(13) Sample from fresh or weathered coal fresh

(14) Roof slate (Kind and quality)

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

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

(17) Vertical depth from surface to point of sampling, feet 175

No.	SECTION OF BED	Ft.	Lbs.	No.	SECTION OF BED	Ft.	Lbs.
1	Bone		3½	10			
2	Coal	1	5	11			
3	Slate		3½	12			
4	Coal		9½	13			
5	Rash		2	14			
6	Coal	2	5½	15			
7				16			
8				Total thickness of bed			65
9				Thickness in sample			65

(18) Excluded from sample, marked X, section Nos. Lewallen, Moore and
(19) Send analysis to Div. Intl. Activities (20) Collector Walker (21) Office Washington, D. C.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL-ANALYSIS REPORT

Lab. No. I-8860

Can No. 8268

Test No.

Sample of Coal

Operator Royal Government Afghanistan Mine No. 1

Country: AFGHANISTAN County/Darrah Suf Sub Province Bed Darrah-Suf

Town Darrah-Suf

Location in mine East level airway, 56 feet inby station No. 106

Method of sampling Channel (standard) Gross weight, lbs. 30 Net weight, grams 1261.

Date of sampling 4/23/65 Date of Lab. sampling 5/19/65 Date of analysis Lewallen, Moore and Walker

B.ofM. or U.S.G.S. section Div. Intl. Activ. Collector Walker

	AIR-DRY LOSS	COAL (Air dried)	COAL (As received)	COAL (Moisture free)	COAL (Moisture and ash free)
Proximate Analysis	Moisture		7.9		
	Volatile matter		25.1	27.3	35.2
	Fixed carbon		46.2	50.1	64.8
	Ash		20.8	22.6	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen				
	Carbon				
	Nitrogen				
	Oxygen				
	Sulphur		0.5	0.6	0.8
	Ash				
British thermal units			10280	11160	14420

Fluidity of Ash, %:
Initial deformation temperature.....
Softening temperature.....
Fluid temperature.....

Free-swelling Index No. 1

Date May 26, 1965

Forrest E. Walker
Chemist-in-Charge, Coal Analysis

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JCS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SAMPLING REPORT

Lab. No. I-8861

Can No. 8271

Country: AFGHANISTAN (1) State Darra Suf (2) County/Sub Province Darra-Suf (3) Town Darra-Suf (4) Mine No. 1

(5) Sample of Coal (6) Analysis desired Prox., Sul., Btu, FSI

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

(8) Location in mine East level, 83 feet inby station No. 94 (Distance and direction from opening. Locate with respect to rib, rock, pillar, crosscut, entry, etc.)

(9) Date April 23, 1965 (Of sampling)

(10) Coal, dry or moist moist (11) Gross wt., lbs. 30 (Sample cut) (12) Net wt., lbs. 4 (Sample mailed)

(13) Sample from fresh or weathered coal fresh

(14) Roof Slate (Kind and quality)

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

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

(17) Vertical depth from surface to point of sampling, feet 200

No.	Section or Bed	Ft.	In.	No.	Section or Bed	Ft.	In.
1	Rash		2	10	Coal	1	8½
2	Bone		1	11	Slate		1
3	Coal		4	12	Coal		6½
4	Rash		1½	13			
5	Coal		10	14			
6	Slate		2	15			
7	Rash		1	16			
8	Coal		9½	Total thickness of bed			59½
9	Slate		1	Thickness in sample			59½

(18) Excluded from sample, marked X, section Nos. Div. Intl. Activities Lewallen, Moore and
(19) Send analysis to Walker (20) Collector Walker (21) Office Washington, D. C.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL-ANALYSIS REPORT

Test No. _____

Sample of Coal

Lab. No. I-8861

Can No. 8271

Operator Royal Government Afghanistan

Mine No. 1

Country: Darra Suf

State AFGHANISTAN County/ Sub Province Darra-Suf

Town Darra-Suf

Location in mine East level, 83 feet in by station No. 94

Method of sampling Channel (standard)

Gross weight, lbs. 30 Net weight, grams 1210.

Date of sampling 4/23/65

Date of Lab. sampling 5/19/65

Date of analysis _____

B.of.M. or ~~Sub~~ Section Div. Intl. Activ.

Collector Lewallen, Moore and Walker

As-shown Loss		Coal (Air dried)	Coal (As received)	Coal (Moisture free)	Coal (Moisture and ash free)
Proximate Analysis	Moisture.....		7.6		
	Volatile matter.....		23.9	25.9	36.0
	Fixed carbon.....		42.6	46.0	64.0
	Ash.....		25.9	28.1	
			100.0	100.0	100.0
Ultimate Analysis	Hydrogen.....				
	Carbon.....				
	Nitrogen.....				
	Oxygen.....				
	Sulphur.....		0.5	0.5	0.8
	Ash.....				
British thermal units.....			9530	10320	14340
Initial deformation temperature.....		Free-swelling Index No. 1			
Softening temperature.....					
Fluid temperature.....					

Date May 26, 1965

Forrest E. Walker
Chemist-in-Charge, Coal Analysis

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