

GRAPHIC CORE LOG

Alex N. Campbell

Rudman Government No. 1

1

6315

6348'

33'

Dakota

4/10/59

6315

16	G	12
17	G	5
18	G	9
19	G	9
20	G	8
21	G	6
22	G	8
23	G	9
24	G	7
25	G	8
26	G	8
27	G	8
28	G	8
29	G	9
30	G	11
31		8
32		10
33		9
34		9
35		8
36		9
37		10
38		9

SANDSTONE, light gray, very fine to medium grained, slightly silty, clean, glassy, very hard, dense, tight. Few thin partings of black carbonaceous shale. Spotty dull yellow fluorescence, faint gas odor.

Sandstone, as above, becoming slightly smaller in grain size with resulting less porosity. Vertical fractures.

SANDSTONE, as above

SANDSTONE, light gray mottled black, very fine grained, silty, slight argillaceous, with carbonaceous partings and inclusions. Very hard, tight, dense, very faint odor and dull yellow fluorescence.

SANDSTONE, as above

RECEIVED

NOV 2 1959

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO



Carroll Drilling Company

D&S 7 3/4" Tri-di.

GRAPHIC CORE LOG

Alex N. Campbell

Rudman Government No. 1

Core No. 1

From 6315'

To 6348'

Thickness 33'

State Dakota

4/10/59

6338

39 10

40 11

41 13

42 14

43 14

44 15

45 12

46 18

47 16

48 20

Siltstone, tan, slight calcareous, sandy, carbonaceous, shaly, very dense, hard, tight. No shows.

COAL.

GEOPHIC CORE LOG

Alex N. Campbell

Rudman Government No. 1

2

6343'

6385'

29'

Dakota

4/12/59

6348

49 22 SILTSTONE, tan, mottled black, shaly, carbonaceous, hard, dense, tight, no shows.

50 10 SANDSTONE, light gray, fine to medium grained, fairly clean, slightly silty, glassy, very hard, dense, tight. Very faint gas odor and spotty dull yellow fluorescence

51 10

52 11 SHALE, black, very carbonaceous with carbonized plant fragments, silty, hard.

53 12

54 12

55 11

56 12 SHALE, black, silty with siltstone laminations and inclusions, very hard. Very slight fluorescence in siltstone portions.

57 11

58 11

59 11

60 12

61 12 SHALE black carbonaceous, very slightly silty, slightly pyritic.

62 12

63 11

64 11

65 13

66 13

67 13

68 13

69 14

70 13

71 13

SHALE, as above

GRAPHIC CORE LOG

Alex N. Campbell

Rudman Government No. 1

2

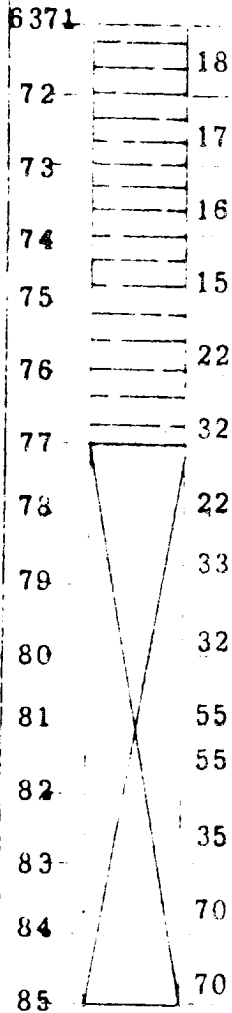
6348'

6385'

29'

Dakota

4/12/59



SHALE, black, carbonaceous, clayey, with traces of coal and carbonized plant fragments.

NO RECOVERY

GRAPHIC CORE LOG

Alex N. Campbell

Rudinan Government No. 1

Core No. 3

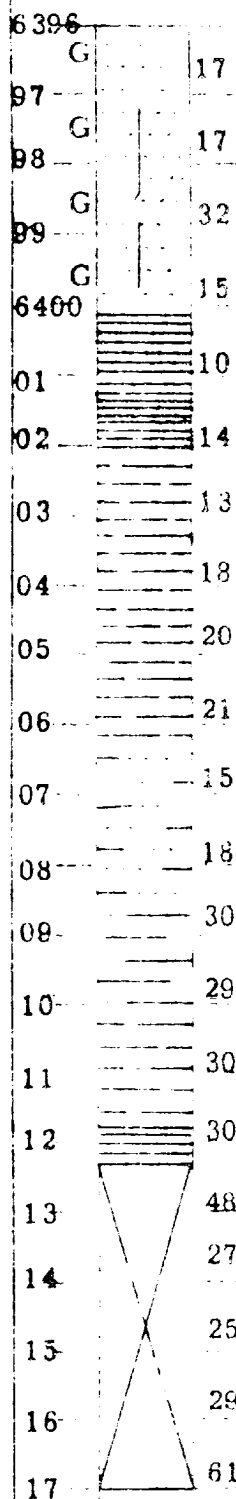
6396'

6317'

16.4'

Dakota

4/13/59



SANDSTONE, light gray, silt and pepper, fine to medium grained, very hard, dense, tight. Good gas odor, spotty dull yellow fluorescence, vertical fractures.

COAL, soft, shaly.

SHALE, black, very carbonaceous with traces of coal

SANDSTONE, light gray, fine grained, silty, carbonaceous, thin bedded with carbonaceous laminations. Very faint odor and dull yellow fluorescence.

SHALE, black, carbonaceous, with thin irregular laminations of shaly carbonaceous sandstone.

SHALE, black, carbonaceous with abundant traces of coal

COAL

NO RECOVERY.

Carroll Drilling Co.

Strata Core, 7 3/4"

GRAPHIC CORE LOG

Comptrol **ALEX N. CAMPBELL**

RUDMAN GOVERNMENT 1

Core No

4

From

6417'

To

6470'

Recessed

53'

Formation

Dakota

4/14/59

6417

18

19

20

21

22

23

24

G

25

G

26

G

27

G

28

G

29

G

30

G

31

G

32

G

33

G

34

G

35

G

36

37

38

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6440

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62

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36

SHALE, black, carbonaceous, hard, dense, sandy, with thin irregular laminations of shaly sandstone and coal.

Laminated gray, sandy siltstone with black, carbonaceous shale.

SHALE, black, very carbonaceous, with siltstone and coal lam.

SANDSTONE, light gray, fine grained, slightly silty, hard, dense, tight, with irregular carbonaceous laminations. Very faint gas odor. Dull yellow fluorescence.

SANDSTONE, light gray, medium grained, glassy, fairly clean, very hard, dense, tight, with open vertical fractures. Very carbonaceous laminations and inclusions. Good gas odor, good fluorescence.

SANDSTONE, as above.

SHALE, black, very carbonaceous, almost shaly coal, fossilif., sandy, with few irregular siltstone laminations.

COAL

Contractor

GRAPHIC CORE LOG

Campbell Alex N.

Rudman Government No. 1

Core No.

4

From

6417'

To

6470'

Recovered

53'

Formation

Dakota

Date 4/14/59

6440

41

24

42

18

43

16

44

22

45

23

G?

15

46

G?

9

47

G?

10

48

G?

10

49

G?

11

50

G?

11

51

52

17

53

23

54

21

55

20

56

22

G?

57

19

G?

58

22

G?

59

21

G?

60

14

G?

61

16

42

16

63

24

COAL

SHALE, black, carbonaceous, slightly silty, fossiliferous.

SANDSTONE, light gray, medium grained, well sorted, fairly clean, slightly friable, fair to good porosity, very faint odor, with weak, spotty dull yellow fluorescence.

Laminated, gray, dense, hard, tight, sandstone with black, carbonaceous shale. Very thin bedded.

SHALE, black, carbonaceous, sandy, with few thin irregular sandstone laminations.

SANDSTONE, dark gray, fine grained, carbonaceous, shale, dense, tight. No shows

SANDSTONE, gray, fine to coarse grained, poorly sorted, glauconitic, fairly clean, slightly friable, fair porosity, with faint gas odor and spotty fluorescence

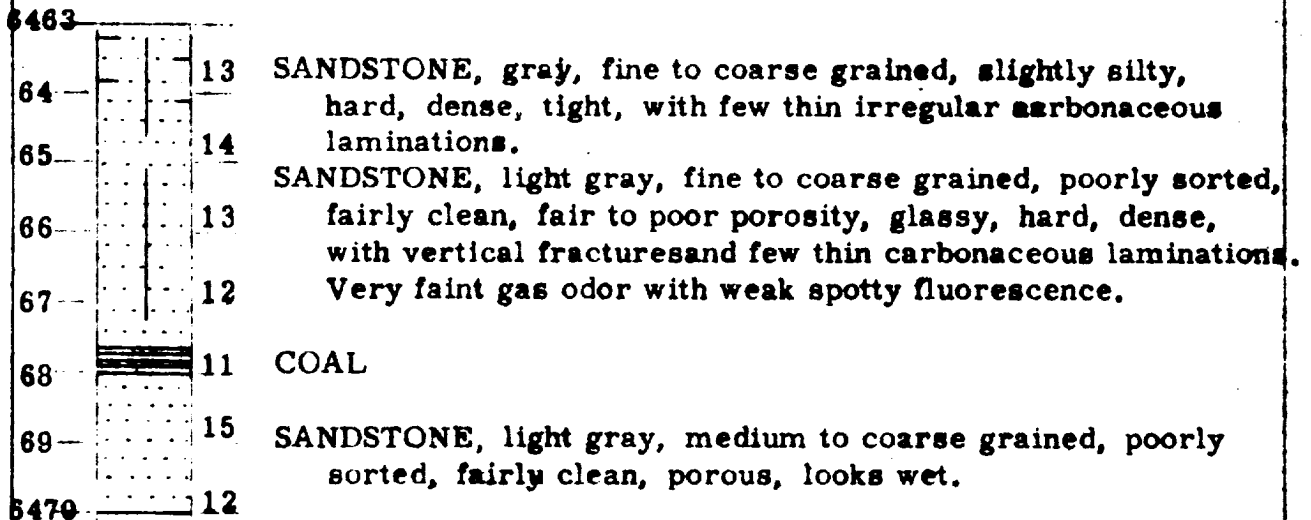
SHALE, black, clayey, carbonaceous.

GRAPHIC CORE LOG

Coring: **Alex N. Campbell** **Rudman Government No. 1**

Core No. **4** From **6417'** To **6470'** Recovered **53'**

Formation: **Dakota** Date: **4/14/59**

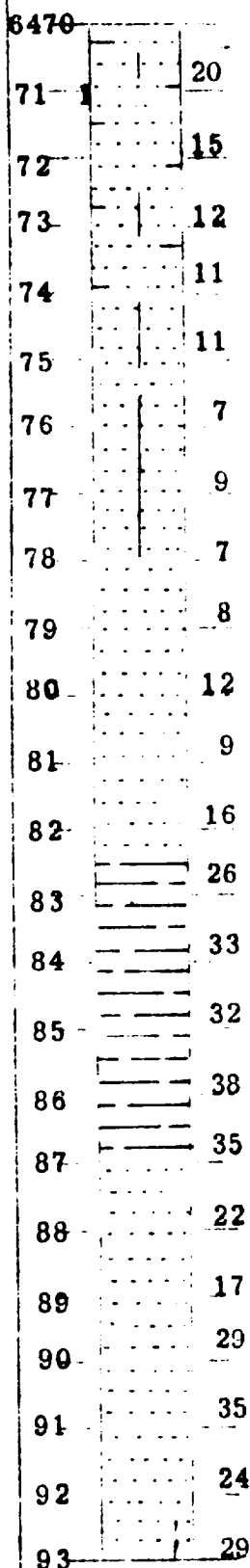


GRAPHIC CORE LOG

Alex N. Campbell

Rudman Government No. 1

Core No. 5 From 6470' To 6495' Sectioned 25'
 Formation Dakota Date 5/15/59



GRAPHIC CORE LOG

Alex N. Campbell

Rudman Government No. 1

5

6470

6495

25

Dakota

4/15/59

6493

94

95

28

31

SANDSTONE, gray, coarse grained, very hard, dense, tight, with white clay matrix. Looks wet, no shows.