

THE DECLINATION OF THE COMPASS NEEDLE 1958

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Transverse Mercator Projection

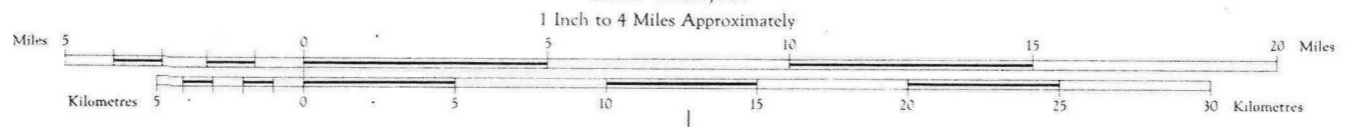
Contour interval 500 Feet
Elevations in Feet above Mean Sea Level
North American Datum 1927.

Copies may be obtained from the Map Distribution Office, Department of Mines and Technical Surveys, Ottawa, at 25 cents each.

EAGLE RIVER

YUKON TERRITORY

Scale 1:250,000
1 Inch to 4 Miles Approximately

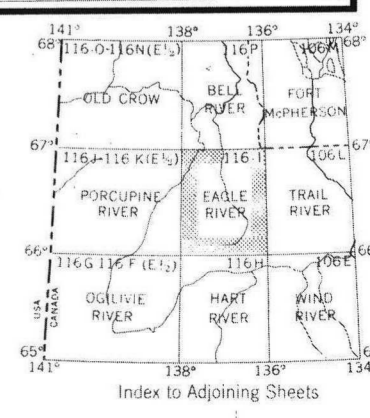


REFERENCE

Wagon or winter road	---
Trail or portage	---
Boundary - provincial	---
Village or settlement
Post office	O
Building or cabin	□
R.C.M.P. post	■
Horizontal control point	+
Astronomical position	△
Spot elevation (in feet)

REFERENCE

Streams: intermittent or dry	---
dry river bed	---
Sand, gravel or mud	---
Marsh or swamp	---
Contours: elevation	---
depression	---
approximate	---
Forest	---



900312

At 252' - 3" concretion bed

250' - 275' - 150NCT-11MF

275' - 300' - 150NCT-12MF

299' - 347' - concretions up to 1' x 4', spaced 2' - 3' in shale.

2

5'

Conglomerate, black chert pebbles up to 2" average 1/2", dark rusty brown, pebbles of ironstone up to 1/2", 2 fossils - a pelecypod and plant.

150NCT-3F - pelecypod and plant.

More ironstone near top and pebbles become smaller.

3

52'

Shale, same as below.

5' - 20' - concretions spaces 2-3'

4

Cover

Top of section

Total feet measured 404'. Add approximately 100' below measured section (shale)

Downstream no outcrop to next photo.

116I

f1. 10

A12147-188

151NCT

Outcrop about 1 mile above Ellen Creek. About 25' of sandstone, looks same as

148NCT. Attitude 005 20 E - not poss. because of cross bedding.

Sandstone - salt and pepper, coarse grained, medium grained in minor beds, some shale partings, beds 1" - 3', cross bedded and laminated, weathering medium grey-rusty brown. Some plant stems, poor. 151NCT-1F - plant stems U. Creteaceous. ironstone concretions up to 2" fairly abundant, sandstone fractured, gives blocky talus.

152NCT

At mouth of Ellen Creek. Outcrop of sandstone same as 151NCT.

Attitude 10 20 E

152NCT-1F - deciduous leaves.

talus below outcrop

Fossils from a bit more recessive sandstone above salt and pepper sandstone, poor exposure. Fossils on weathered surfaces quite highly oxidized, most are deciduous one looks like Sequoites.

153NCT

Outcrop of sandstone 75' about 50% covered.

Attitude 15 20 E

Interbedded massive salt and pepper. Sandstone (4') and medium grained sandstone 5'.

Sandstone - dark grey, weathers grey, beds 1/2" - 2", in 5' sets, medium lamination, minor cross bedding, abundant ironstone concretions up to 2" in small horizons. minor shale beds, weathers light brown grey. Abundant fossil leaves and stems in talus below outcrop. Also in place at top of outcrop in medium grey sandstone

153NCT-1F - plant leaves and stems

Fossils look to be same as last Station, however, should be stratigraphically higher. May be grading up from the salt and pepper sandstone to the medium grey sandstone (thin bedded).

154NCT - downstream 1/2 mile from 153NCT - outcrop of sandstone 10'

Sandstone - medium olive grey, medium grained, well bedded, beds

1/2" - 3" faint lamination, weathering light green grey. Some poor plant stems and gastropod and pelecypods from talus below outcrop.

154NCT-1F - pelecypods and gastropods talus below high water mark - Do Not Trust.

Shale interbeds 1" - 3' (25% of outcrop) - dark grey, silty, breaks into tiny chunks.

To next photo

116I

fl. 11B

A12252-448

155NCT

Outcrop of sandstone. Base is 5' of medium-coarse grained sandstone, overlain by recessive zone 15', overlain by 15' of salt and pepper sandstone.

The recessive zone is covered, but probably contains coal seams, up to 1' thick and low grade almost a peat but black color

Upper sandstone - salt and pepper, coarse-very coarse grained, conglomeratic in places, faint lamination, cross bedded, weathers light grey-rusty brown.

C.F. Attitude 25 30 E

Some poorly preserved deciduous leaves in talus.

to next photo

116I

fl. 11B

A12252-450

156NCT

At upstream end of exposure. Sandstone. Attitude - flat lying

3 units here, from top to base

1 8'
Sandstone - medium grey, medium grained, beds 1" - 4", well bedded, weathers light yellow - light grey.

2 10'
Recessive - covered.
Flat lying in appearance.

3 8'
Sandstone - salt and pepper, medium- coarse grained, well bedded in places, also cross bedded, weathering light grey - rusty brown, some leaves and stems in talus, also concretions up to 3" are noticeable, fossil at top
156NCT-1F - pelecypod and plant.

downstream about 1000' outcrop about 200' above river. This overlies rocks described above. Separated by covered interval.

Sandstone - 50 - 50, hard to soft, poor bedding, C.F. weathers rusty brown, contains large Inoceramus not abundant or at least difficult to find in good preservation.

156NCT-2F - inoceramus

Outcrop appears flat lying.

Below Pine Creek passed abandoned settlement - set up camp 8"30 P.M.

Broke camp 8:00 A.M.

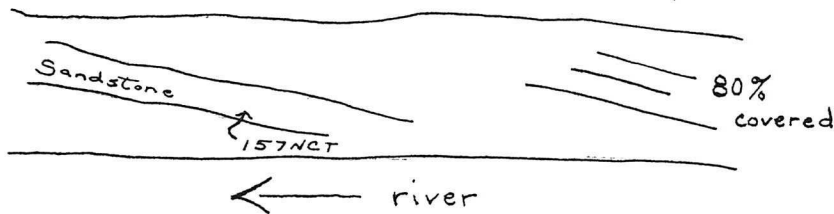
116I

fl. 19A

A13751-69

157NCT

Outcrop of sandstone 20' good exposure. Attitude difficult to get but from river looks to be dipping 20° upstream. Good exposure overlain by 30' of 80% covered exposure. This is about 200' upstream.



Sandstone - salt and pepper, medium- coarse grained, laminated and cross bedded, bedding poor, fractured, concretions in talus, can't see in outcrop, weathers medium grey - rusty brown, mainly massive. Odd poorly preserved plant stem. This looks like same Upper Cretaceous as before.

T-3 - same sandstone as last Station but looks to be flat lying, poor outcrop in trees.

158NCT

Just below small creek (Schaeffer) 6' exposure 40' above river, silty clay - very soft, appears bedded in 2" beds, flat lying, grey yellow color. Forams cliff, may be Pleistocene.

159NCT

rubble in face of bank. No attitude possible.

Sandstone, salt and pepper as before - some ripple marks, and some deciduous leaves, same as found yesterday. Small ironstone concretions.

159NCT-1F - leaf from talus, probably from rubble blocks above.

160NCT

Outcrop 5' exposed at river edge. Attitude 135 25 NE

Sandstone - salt and pepper as before, Quite abundant large plant stems and some ironstone concretions up to 1", massive bedding

160NCT-1F - plant stem.

Another 5' of sandstone exposed about 15' above river. This is thin bedded (1/2" - 1").

161NCT

bank 40' high, top 25' C.F. silty clay, Pleistocene.

Top 5' peat, has odor of wet dog. No gravel showing, light brown color.

Just downstream peat becomes about 10' thick underlain by silty clay (10').

162NCT

Small outcrop about 30' above river. Sandstone about 10' thick, overlain by slump, looks to be black shale, poorly fissile (10').

Sandstone - salt and pepper, medium grained, faint lamination, cross bedded, beds poor 1" - 1', minor partings of coal (poor) and plant stem remains. One ball of resin. Attitude - appears flat lying

poor plant stems in talus below outcrop, weathers light brown, some ironstone concretions up to 1".

163NCT

outcrop 15', 10' above river, resistant weathering light rusty brown.

Attitude 150 20 NE (poor)

Sandstone - salt and pepper, same as last Station.

On to next photo

116 I & P

fl. 20A

A13751-63

T-4 - light yellow brown, silty clay, 50% exposed in banks about 40' high. Along all of outside of bend in river. Near downstream end of high banks peat beomes 10'+ thick in places.

T-5 - Pleistocene, light brown silt exposed about 40' bank. Upstream, about 200' - 600' could see gravels exposed through trees. Also a very thick peat on top 10'+.

164NCT

Pleistocene, 15' of grey clay exposed 15' above river. Fair number of sandstone pebbles in the clay. One horizon 2' thick quite abundant pebbles, otherwise scattered here and there.

165NCT

Pleistocene, clay exposed in 50' banks and lower 15' slump to river. Exposure - basal 25' clay - dark grey, showing bit of lamination, bit silty, grading into a more yellow silty clay. Top 4' clayey sand - dark yellow brown. Cover is 3" thick.

This appers to be what banks all around the bend are.

On to next photo.

1034NC

116 I

f1. 30

A12188-34

025°, 20° NW

Limestone, strongly argillaceous, dark grey to black, massive, weathering into plates 0.5 cm to 6 cm thick; with many partings of white coarse crystalline dolomite up to 2 cm thick giving the outcrop an overall black hue with thin white stripes parallel to bedding (1034NC1).

1035NC

116 I

fl. 30

A12188-84

no attitude

Interbedded sandstone and shale:

Sandstone, non-calcareous, medium grey, platy and brown weathering, fine to very fine grained, (coarser than a siltstone) (spec.) with rusty weathering interbeds of black, non-calcareous shale. This is the pre-Road River clastic sequence in the core of Richardson Mts.

1036NC

116 I

f1. 30

A12188-34

020°, 15° NW

Road River

Limestone, argillaceous, biogenic, dark grey to black, in beds 0.1' to 1 foot thick, weathering to a laminated medium grey and black. Some shaly interbeds up to 0.1' thick observed. Specimen and big sample for conodonts. (1036NC1MF)
Color photos.

1037NC

116 I

f1. 29

A11973-35

005°, 20° NW

Shale, graptolitic*, calcareous, dark grey, in beds 0.1' to 0.6' thick, flaky weathering, with interbeds of limestone, strongly argillaceous, dark grey, yellowish grey weathering, as resistant ribs (spec.). Occasional interbeds of limestone breccia (spec.) up to 10' (estimated) (see color photos, roll V).

* monograptic and tetragraptus. (C-27152):O?Ar Rept. O-S 5 BSN 1974).

1038NC

116 I

fl. 28

A11975-168

U. Dev. Imperial

000°, 15° W

Shale, medium grey, rusty weathering with occasional ironstone concretions and with interbeds of dark grey to black, micaceous, siltstone 0.1' to 0.5' thick, brown weathering and with groove casts suggesting turbidite flow. Are these rocks really marine? One specimen and shale sample for microfossils (1038NC1 and 1038NC1MF)

1039NC

116 I

(fl. 26A in 116 P) A14368-35

no attitude - felsenmeer

Interbedded shale and limestone

Shale, medium grey, non-calcareous, fissile, olive grey weathering (spec) with interbeds of platy to flaggy, fine crystalline, medium dark grey limestone (spec) and very coarse crystalline, medium grey, pale orange weathering, biogenic limestone (5 spec). Sadlerochit Fm.

(lower Eagle R.)

beds flat

Apt.-Alb. pref. Alb. (JAJ pers. comm. 1973)

Sandstone, calcareous, pale greyish green, fine grained, brown weathering, medium cross bedded with some bedding surfaces containing abundant fossil clams (1040NC1F). Foresets of polymodal cross-beds suggest transport in a northerly direction here. Some concretions noted but none was fossiliferous.

350°, 10° SW

Shale, gypsiferous, dark grey, recessive, deeply weathered, (1047NC1MF) with resistant interbeds (40%) of rusty weathering fucoidal, platy, silty shale and siltstone, and many interbeds of yellowish grey weathering bentonite, some up to 12" thick. Sparse fucoids noted in scree and fossil plant axes (?) also noted. Coal or pyro bitumun noted on a few rusty weathering chunks (1047NC1).

Hart River Formation.

1048NC

116 I

f1. 19

A12133-80

335, 25° SW

Sandstone, bituminous (?), non-calcareous, pale brownish grey, medium grained,
porous, soft and friable, massive, locally abundantly fossiliferous (1048NC1F)
C-27157

U. Cret.? Ridge forming. Spec. 1048NC1

C-27157: ?J-ek: KM-3-1974-JAJ

1049NC

116 I

f1. 22A

A12105-283

no attitude - beds approx. flat

Limestone, pale brown, fine crystalline, pale yellowish grey weathering, abundantly fossiliferous (1049NC1F), weathering into thin wavy plates. All fossils from source but little doubt as to derivation. Spec. 1049NC1.

1050NC

116 I

f1. 25

A11974-74

030, 30° SE

Interbedded siltstone (50%) and shale (50%)

Siltstone, non-calcareous, fine grained, medium dark grey, rusty weathering, in beds 0.2' to 1' thick (spec.) with interbeds of dark grey, recessive shale (1050NC1MF). Occasional groove cast (one at 015°) on bedding. Outcrop is cut by minor fault striking 045° and dipping 85° SE with chevron folding in the southeast wall suggesting compression across the plane of the fault. Estimate 120' exposed here. Imperial Formation.

1051NC

116 I

f1. 25

A11974-74

345°, 30° SW

Sandstone, slightly calcareous, medium grey, fine-coarse grained, poorly sorted, in beds 0.5' to 2' thick (75%) (spec.), pale brown weathering, with interbeds of dark grey, silty, platy and fissile weathering. (1051NC1MF). Imperial?

1052NC

116 I

f1. 29

A11973-26

no attitude - felsenmeer

Siltstone, non-calcareous, black, platy, dense (tinkly) weathering to a medium light grey, and locally to a pale orange (1052NC1MF). In scree there are many chunks of dark blue grey chert, suggesting chert interbeds in the siltstone.

Canol Formation?

1052NC1F = C-27162

1053NC

116 I

fl. 28

A11975-176

no attitude - felsenmeer

Interbedded sandstone and siltstone as stripes of felsenmeer

Sandstone, quartz chert, lithic (?) medium grey, fine-coarse grained, poorly sorted, non-calcareous, load casted and groove casted suggesting flysch-type sedimentation. Imp. Fm.? (4 spec.) and siltstone, olive grey, in platy fragments weathering rusty brown (1 spec.).

1166NC

116 I

f1. 29

A11973-18

N00°N, 60° W

Siltstone, non-calcareous, medium light grey, brown weathering, platy, as two resistant ribs, each about 25' thick, separated by about 30' of cover presumably underlain by shale. Sample 1166NC1.

1167NC

116 I

f1. 28

A11975-172

020°, 20° NW

Canol

x - 2.45

y - 5.08

Siltstone, siliceous, dark grey, platy, medium blue grey weathering (1167NC1)
with some banded dark grey and light grey chert observed in scree (1167NC2).
Canol Formation ?

1168NC

116 I

f1. 26

A11974-97

345°, 50° SW

Shale, dark grey, fissile, medium brownish grey weathering (1168NC1MF) in beds 0.1' to 0.5' thick, with resistant interbeds 0.1' to 0.3' thick of medium grey, non-calcareous siltstone (1168NC2) orange brown weathering with abundant groove and flute casts suggesting transport in a direction 090°. Therefore a western source. Color and B & W photo.

1169NC

116 I

fl. 23

A11975-69

no attitude - felsenmeer

W 15° E est. from air

Conglomerate, light grey in overall hue, pale orange weathering, with poorly sorted subangular to subrounded chert and quartzite clasts up to 1 cm maximum observed dimension; as felsenmeer of angular chunks and blocks up to 1 foot maximum observed dimension 1169NC1. Permian? Looks like near shore or fluvial and not flyschoid. No flute and groove casts observed.

1170NC

116 I

f1. 26

A11974-102

005°, 50° NW

Imperial ?

Sandstone, lithic, quartz chert, limonitic, fine grained, dark grey, orange brown weathering as resistant ribs with recessive covered intervals presumably underlain by shale. Some sandstone plates have rib and furrow structures suggesting Imperial in Apt.-Alb. Suggest the former. Specimen 1170NC1. Some scree, very coarse grained with angular chert clasts 1170NC2.

52NC

116 I

fl. 20 A12133-30

Traverse with Bill Woest June 11, 1962
North Parkin Creek (Late Cretaceous-West)

Sandstone, massive, brownish grey, petroliferous, conglomeratic; fine medium to coarse grained, medium cross-bedded (Woest's Blacky sandstone, Late Cretaceous). According to Woest mappable all the way around the basin; Blacky at mouth of Blackstone according to Mobil - Woest 1958. - with Late Cret. Lemuraceras, No attitudes, dip 10° N. Around the corner.

53NC

116 I

fl. 20 A12133-30

N 38° E, 25° SE

Siltstone, strongly calcareous, laminated light and dark brownish grey, weathering brown into platy fragments (53 NCl) overlain by white weathering, rubbly weathering porcellanite 53NC2. Permian.

55NC

116 I

fl. 21 A12100-305

N 10° E, 15° SE

Sandstone, feldspathic, non-calcareous, light grey, coarse grained, massive, with sugary texture (loosely consolidated); weathering soft and punky (55NC1) Wuest believes this is not the same sandstone as 54NC, but is Mississippian in age as it underlies shales dated by N. Elphingstone as Mississippian by means of spores.

Locally the outcrop is conglomeratic (55NC2) with subangular to subrounded chert and quartzite pebbles up to 5 mm. diameter.

56NC

116 I

fl. 21 A12100-303

N 10° W, 20° SW

Sandstone, feldspathic, non-calcareous, light grey massive, medium cross-bedded, weathering into yellowish grey plates 0.1 to 0.5 feet thick. This appears to be the same unit as 55NC.

200 yards downstream: rusty weathering dark grey shales with brown weathering shale, siltstone and resistant sandstone, interbeds 56NC1MF.

Beds here N85°E, 05° NE.

beds flat

(revisited)

Shale, dark grey, massive, rusty weathering with many rusty weathering ironstone concretions which appear to be true septarian nodules in some cases and certain bitumen. (spec). Shale sample 57NC1MF. Pyrite and arsenopyrite noted in a few nodules. Sparse brachiopods and pelecypods collected, mostly from float but a few about 50' above the river and still in float, (57NC1F). One grey sandstone chunk collected from same with crinoid columnals, one with 2 pentagonal-shaped axial . This latter chunk does not fit in with the general lithologies of this outcrop. Hart River Formation?

57NC1F: C-27161

57NC

116 I

fl. 20 A12133-36

No attitude

Shale, dark grey, flaky, rusty weathering, with rusty weathering, iron-stone concretions up to 1 foot long, some saturated with bitumen 57NC1. Occasional dark grey, fine grained rusty weathering limestone with poorly preserved brachiopods, sparse trilobite and gastropod fragments 57NC1F. Sample of shale 57NC1MF. About 75 feet exposed.

57NC1MF = G.S.C. Loc. C - 27161

59NC

116 I

fl.21 Al2100-299

N 10° E, 08° NW (but may be slumped)

Shale, dark grey, rusty weathering, recessive, with thin resistant interbeds of sandstone, non-calcareous medium grey, fine grained rusty weathering up to 0.1 feet thick. Shale is overlain upstream by resistant orange weathering, light grey, non-calcareous, fine grained sandstone which weathers as chunky rubble. This is the Tuttle sandstone of Bill Wuest. Float sample 59NC1.

59NC1MF = G.S.C. Loc. C - 29996: LD?Fa; Rept. No. 3 (Gen.) WWB 1974.

64NC

116 I

fl. 27 All9750117

Imperial 140° at 10° E (West flank Richardsons)

Mudstone, silty, non-calcareous, dark grey, fissile, rusty and light
grey weathering, massive; no fossils evident but sample for micro-
fossils (64NC/MF)

65NC

116 I

fl. 24A All1975-24

N 60° E, 05° SE

Mudstone, silty, dark grey, fissile to earthy weathering; rusty weathering along joint surfaces; with resistant interbeds of sandstone, non-calcareous, light grey, fine-grained, in beds 0.1 to 0.5 feet thick; occasional rusty weathering ironstone nodules.

Sample (65NCLMF). Imperial Fm?

G.S.C. Loc. C - 29998: Rept. No. 3 (Gen) WWB 1974: CT
Fl - 12 - 1974 - DCM: eC

66NC

116 I

fl. 24A All975-28

165°, 10° E

-estimated from hill-
side.

Sandstone, conglomeratic, feldspathic, non-calcareous, light grey, coarse-grained, with layers and interbeds of chert and quartzite pebble conglomerate, the pebbles commonly reaching a maximum dimension of 2 cm. (Spec. x 2). Unit is massive, weathering into strongly frost-heaved plates 0.1 feet to 0.5 feet thick; commonly the conglomeratic beds are loosely consolidated so that the hill is capped by pebble debris.

67NC

116 I

fl. 24A All975-30

150°, 10° W

Sandstone, conglomeratic, feldspathic, coarse-grained, light grey, massive, in beds greater than 10 feet thick at creek level; overlain by black earthy to platy weathering shales, all broadly and gently folded (dips less than 5°) and wave-length 200 yards. Sandstone is strongly suggestive of 66NC; locally the sandstone is carbonaceous. Note this must be another "Tuttle sandstone" at creek level below the one outlining the syncline on the photos.

68NC

116 I

fl. 24A All975-34

No attitude, but beds appear to be near-flat or gently dipping with
a the slope of the hill. Sandstone, conglomer^{stic} as in 66NC

69NC

116 I

fl. 26 All1974-93

N00°N, 20° E

Sandstone, locally limonitic, non-calcareous, light grey, medium-grained, massive, weathering into sheets and blocks 0.1 to 1.0 feet thick; resistant and forming prominent dip slope to east (69NC1).

70NC

116 I

fl. 26 All1974-93

N40°E, 15° NW

Sandstone, olive grey, fine-grained, as resistant hard bed approximately 5 feet thick; rusty brown weathering; all these hard beds are of this lithology 60NC1.

71NC

116 I

fl. 30 A12188-34

N30° E, 70° NW

Siltstone, dark grey, non-calcareous, weathering into rusty brown plates 0.01 to 0.1 feet thick (71NC1). Occasional interbeds of sandstone, calcareous, medium grey, very coarse-grained, brown weathering, 0.1 to 0.5 feet thick (71NC2). No fossils recovered.

74NC

116 I

fl. 29 A11973-22

N20°W, 75° NE (overturned)

Limestone breccia, massive, light grey, fine crystalline angular fragments of limestone up to 1.5 feet maximum dimension, tabular to blocky in medium grey, fine crystalline matrix. Abundant chert nodules and blebs, medium grey (74NC1 x 2). Two beds, each 10 to 15 feet thick, overturned by stratigraphy.

75NC

116 I

fl. 29 All1973-18

N10°W, 75° NE

Dolomite breccia massive, with medium grey, fine-crystalline, angular dolomite fragments recemented with white dolomite; no chert noted in this massive bed but believe it to be the lateral continuation of that in 74NC.

132NC (164PF)

116 I

fl. 26A

AL4368-37

N 10°W, 50° WS

Sandstone, non-calcareous, light grey, medium-grained, massive, weathering into blocks and plates 0.3 feet to 1.0 feet thick forming a unit approximately 30 feet thick with approximated 20 feet cover above before passing into the highest resistant sandstone rib along the ridge; and approximately 30 feet cover below before passing into the lowest resistant rib. Quartz grains in the sandstone are clear and there are scattered grains of common size to the quartz of a grass green mineral. The sandstone of the lowest rib is identical with that of the one described above. Black, platy, siltstone shows through locally in the covered interval between the lowest and the next higher sandstone. Jurassic.

133NC (165PF)

116 I

fl. 26A

AL4368-36

beds nearly flat

Shales, black, massive, weathering into light grey plates, locally rusty weathering. Note erratics of bull quartz with medium grey shale very similar to if not identical with the Albian Shale.
Albian.

134NC (166PF)

116 I

fl. 25A A14368-33

beds dipping gently north

Sandstone, non-calcareous, light grey, fine-grained, massive, weathering into chunky blocks up to 3 feet on a side but generally less than 1 foot; orange brown weathering, locally with abundant pelecypod impressions (166PFLF).

135NC

116 I

fl. 25A

A14368-33

beds dip north approximately 10°

Sandstone, feldspathic, non-calcareous, limonitic, brown, weathering into brown subrounded fragments and plates; mildly recessive; would place these beds in the Upper Cretaceous and post those of 134NC.