

PACIFIC
WATERPROOF

018569

FIELD BOOK

No. 301

Sept 1977 Trenching

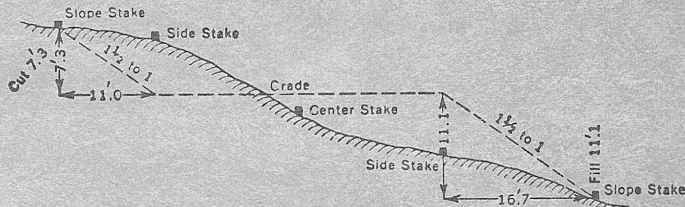
CARMACKS

FIELD
NOTES

~~77~~

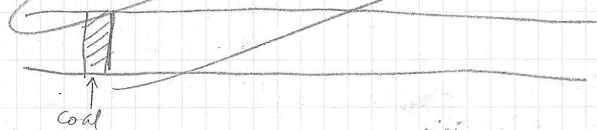
**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width. Side Slopes 1 1/2 to 1.**

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

Extension of trench 17.
Measurements from east side of coal seam



Extension of trench 17
Measurements from W side of Rd.

- 100 - 110 ob
- 110 - 117 light brown mudst
- 117 - 122 Coaly black mudst
- 122 - 128 Clean coal
- 128 - 141 I/b coaly & light brown mudst with abund plant frags - beds 2 1ft thick
- 141 - 145 Light grey Fg sst with abund plant remains (fw sst?)
- 145 - 149 Black carb mudst
- 149 - 158 I/b light gy mudst & black carb mudst
- 158 - 168 Light grey sand silt & mud
- 168 - 172 brown mudst & black coaly mudst

102

(29)

Measured east from C-77-27

- 50-65 OB
- 65-98 Cong, with 1/6 of cg grey sst; with local coaly partings
- 98-113 ~~Thin bed thin interlam dk grey~~
dk dk grey mudst, with thin interlam of dk grey mud, silt & sandst
C-77-23 @ ~103 1/2'
- 113-118 Cong
- 118-119 1/2 dk grey shale with coaly partings
- 119 1/2 - ~~122~~ 135 Coal (with dk grey mudst 1/6)
- 135-140 Med grey mudst
- 140-151 I/b grey mudst, black carb mudst & coal - beds ~1' thick
- 151-160 Dk grey mudst
- 160-167 I/b light grey sst & med grey mudst
- 167-180 OB

Dips at 137 - 356/75 W
100 - 360/65 W

103 Measured west from C-77-27

(30)

- 45-66 OB
- 66-68 Med grey sst, med gd., carb frags
- 68-117 I/b light grey, dk grey, black carb mudst & coal - beds a few inches to 1ft thick (25-50% coal)
- 117-121 Cong
- 121-124 cg light grey sst
- 124-137 As 68-117
- 137-150 ~~sg~~ ~~ff~~ Cg light grey sst with cong I/b
- 158-160 OB

Bedding measurements, ???

106 (33) Paced from E side of rd.

E 0 - 6 Dk gy mudst
E 6ft - 10ft coal w/ thin dk gy mudst bands

10 - 20 med grey mudst

20 - 40 OB

W 0 - 12 Coal w/ thin dk gy mudst
a carb mudst partings

12 - 30 1/6 coal, carb mudst
a dk gy mudst.
Beds 1" to 2" thick

50 - 60 Coal

60 - 80 As 12-50

80 - 90 cong & cg grey sst

90 - 100 o/s

Dips 15' E 333/73SW

70' W 185/83 E (OT)

105 (32) Paced from E side of rd.

E 0 - 25 light grey sst

E 25 - 35 cong

~~E 25 - W 10~~

0 - W 10 light grey mudst

10 - 18 Coal w/ thin grey mudstone bands

18 - 26 ~~1/6~~ med grey mudst

26 - 32 coal

32 - 52 1/6 coal, carb mudst

a grey mudst - thinly 1/6

52 - 62 light grey mudst

62 - 127 1/6 coal, carb mudst

a grey mudst - beds

a few inches to 2ft thick

127 - 142 cong & sst.


142 - 145 1/6 coal a carb mudst

Dips 75 W 165/59 NE

20 W 355/60 W

25 E 342/63 W

EXTN of (14) N of pit

Nest to fids - interbedded
sequence of mudst & coal mudst
passes into a 5' coal - seems
to be  contact?

Then back into same sequence

Nest New tends to North (34)

Paced from E side of rd.
from OE to 90W

1/2 black mudst & grey mudst
with thin coal bands

90 - 110 Coal with interbeds up
to 1' thick of grey mudst

110 - 160 ~~Same as 90-110~~

coal beds up to 2' thick &

also grassy ss beds & grey black mudst

Dip near W end 333/55 SW

near E end 338/70 SW

N side is 70 feet S of line 72+00

104 Nest one - a 60' S of line
(31) with C-77-40 on it

big long one - coaly material
for much of its length