

PACIFIC
WATERPROOF

018570

FIELD BOOK

No. 301

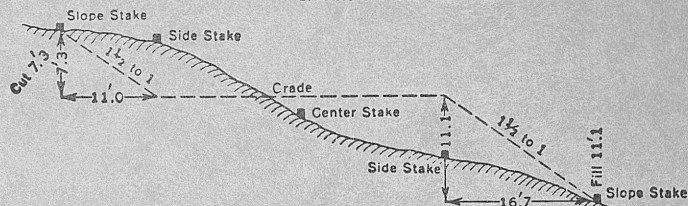
CARMACKS COAL

1977 DRILL LOGS

CARMACKS

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1½ 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

C-77-16	272'	272'	
C-77-17	243'	515	
C-77-18	364	879	
C-77-19	284	1163	
C-77-20	384	1547	
C-77-21	628	2175	
C-77-22	304	2479	
C-77-23	304	2783	
C-77-24	304	3087	
C-77-25	304	3391	
C-77-26	304	3695	
C-77-27	344	4039	
C-77-28	364	4403	
C-77-29	303	4706	303
C-77-30	303	5009	
C-77-31	303	5312	
C-77-32	303	5615	
C-77-33	303	5918	
C-77-34	303	6221	
C-77-35	303	6524	
C-77-36	303	6827	
C-77-37	303	7130	
C-77-38	303	7433	
C-77-39	382	7815	
C-77-40	303	8118	

		8118
C-77-41	303	8421
C-77-42	303	8724

C-77-16

0-8	OB
8-80	Brown mudstone
80-83	Dirty coal
83-127	Brown & dark grey mudstones & siltstones
127-133	Coal
133-139	Black carb mudstone
139-209	Grey sandstone, passing down into grey siltstone & mudstone.
209-224	Coal
224-226	Black carb mudst.
226-246	Coal
246-272	Rock
TD 272	

Hit Water Table at approx 235'

C-77-17

0-8 OB

8-48 Conglomerate

48-70 Brown sandstone, siltstone & mudstone

70-74 Coal (4') (Log 70-72.5)

74-77 Dk brown & dk grey mudst

77-81 Coal (4') (Log 74.5-79.0)

81-150 Light grey siltstone

150-182 Dk brown & dk grey siltst & mudst.

182-186 Coal (4') (Log -179-185)

186-201 Mudstone & siltstone

201-202 Coaly mudstone

202-209 Mudstone & siltstone

209-211 Coaly mudstone

211-243 Mudstone & siltstone

TD 243

C-77-18

0-9 OB

9-201 Conglomerate with sandstone interbeds

201-204 Black carbonaceous mudstone.

204-219 Dk brown & Dk grey mudstones

219-223 Black coaly mudstone

223-237 Dk brown & dk grey mudstones

237-245 Coal (Log 232.5-236, 237-243.5)

245-263 Black mudstone.

263-271 Coal (Log 258.5-267.3)

271-281 Dk grey mudst.

281-283 Black carb. mudstone

283-301 Dk grey mudstone

301-317 Medium grey siltstone

317-341 Light grey sandstone

341-364 Conglomerate

TD 364

C-77-19

0-7 $\frac{1}{2}$	OB
7 $\frac{1}{2}$ -53	Pebble Conglomerate
53-58	Coal
58-64	Interbedded coaly mudstone and light grey mudstone.
64-84	Dk bn mudst, & grey mudst & siltst.
84-85	Coal
85-103	Light grey siltstone
103-105	Coal
105-107	Dk grey mudst.
107-123 $\frac{1}{2}$	Coal
123 $\frac{1}{2}$ -130	Dk bn & Dkgy mudst.
130-236	Light grey siltstone with dk grey mudst and coaly partings
236-238	Coal
238-244	Interbedded coal, black coaly mudst. and dk gy mudst
244-265	Light grey sandst & siltst.
265-280	Dk gy mudst & black carb. mudst.
280-284	Conglomerate
TD 284	

C-77-20

0-7	OB
7-140	Conglomerate with sandst, interbeds
140-141	Coal
141-205	Dk bn & dk gy mudsts.
205-234	Light grey sandst & siltst
234-237	Black Carb mudst
237-254	Coal
254-260	Dk gy & dk bn mudst. & carb mudst.
260-264	Coal
264-301	Dk bn & Dkgy mudst, passing down into med. grey interbedded mudsts, siltsts, & ssts.
301-304	Coal
304-308	Black coaly mudstone
308-325	Coal
325-370	Med grey mudst, siltsts & sandsts.
370-384	Conglomerate
TD 384	

Water table approx 336'.

C-77-21

0-4 OB

4-334 Interbedded pebble conglomerate
and coarse sandstoneSoft, fractured zones at ~160'
and ~230' where air & cuttings
lost

334-336 Coal

336-352 Black Carb Mudst.

352-356 Coal

356-362 Black Carb Mudst.

362-376 Coal

376-385 Black Carb Mudst.

385-403 Coal

403-628 Sandstone and conglomerate

TD 628

C-77-22

0-9 OB (BoB uncertain)

9-25 Brown mudst & coaly mudstone (?OB)

25-55 Coal - top part apparently somewhat
weathered & oxidised

55-64 Dk bn mudst with coaly partings

64-73 Coal

73-85 Dk grey & dk bn mudstones

85-93 Light grey siltstone & sandstone

93-95 Coal

95-105 Black coaly mudst.

105-109 Coal

109-125 Dk gy mudst.

125-187 Light grey siltstone & sandstone

187-188 Black coaly mudstone

188-304 Light grey siltstone with interbeds
of dark grey mudstone

TD 304.

C-77-23

0-4

OB

4-40

Dk grey & dk bn mudsts & siltstr

40-58

Coal

58-66

Dk grey mudst

66-75

coal

75-87

Light grey siltstone

87-89

Coal

89-100

Siltstone & mudstone

100-102

Coal

102-304

Light grey sandstone and
siltstone with dark grey
mudstone interbeds

TD 304

C-77-24

0-9

OB

9-190

Light grey sandstone, siltstone & mudstone

190-230

Dark grey to black mudstone

230-304

Light grey sandstone, siltstone &
mudstone, passing down into pebble
conglomerate.

T.D. 304

C-77-25

0-9

OB

9-220(?)

Light grey sandstone & siltstone

220-304

Pebble conglomerate

T.D. 304

C-77-26

(Geologist not present)

0-12	OB	
12-14	rock	
14-22	Coal	8'
22-52	rock	
52-58	coal	6'
58-68	rock	
68-70	coal	2'
70-125	rock	
125-127	Coal	2'
127-133	rock	
133-134	coal	1'
134-142	rock	
142-144	coal	2'
144-232	rock	
232-233	coal	1'
233-246	rock	
246-252	Coal	6'
252-304	rock	

C-77-27

0-18	OB	
18-230	Light grey sandstone and pebble conglomerate	
230-240	Black carb mudstone	
240-276	Dk grey & dk bn mudstones & siltstones	
276-290	Coal (14')	
290-344	Light grey siltstone & sandstone	
TD 344		

C-77-28

0-5	OB	
5-70	Dk grey & dark bn mudstones	
70-73	Coal	
73-75	Dk grey mudst	
75-77	Coal	
77-304	Dk grey & dk bn mudstones & siltstones	
304-320	Coal	
320-364	Medium grey mudstone & siltstone	
TD 364		

C-77-29

0-7 OB

7-183 Dk bn & dk grey mudstones & siltstones

183-191 Coal (8')

191-303 Light grey sandstone

T.D. 303

C-77-30 (Geologist not present)

0-4 OB

4-303 Rock

T.D. 303

C-77-31

0-6 OB

6-259 Light grey sandstone & siltstone

259-303 Conglomerate

T.D. 303

C-77-32

0-5 OB

5-303 Rock. 2" coal @ ~192'.

T.D. 303

C-77-33

0-19 OB

19-124 rock

124-128 coal (4')

128-139 rock

139-141 coal (2')

141-143½ rock

143½-144 coal (½')

144-148 rock

148-149 coal (1')

149-243 rock

243-245 coal 2'

245-303 rock

T.D. 303

C-77-34

0-7	OB	
7-21	rock	
21-31	Coal	10'
31-33	rock	
33-51	coal	18'
51-57	rock	
57-61	coal	4'
61-65	rock	
65-66	coal	1'
66-71	rock	
71-77	coal	6'
77-113	rock	
113-114	coal	1'
114-139	rock	
139-141	Coal	2'
141-153	rock	
153-154	coal	1'
154-168	rock	
168-179	coal	11'
179-184	rock	
184-185	coal	1'
185-303	rock	
Tb 303		

C-77-35

0-3	OB	
3-4	rock	
4-7	coal	3'
7-22	rock	
22-23	coal	1'
23-46	rock	
46-53	coal	7'
53-203	rock	
203-213	coal	10'
213-236	rock	
236-237	coal	1'
237-303	rock	
T.D. 303		

C-77-36

0-9	OB	
9-25	rock	
25-27	coal	2'
27-34	rock	
34-38	coal	4'
38-303	rock	
T.D. 303		

C-77-37

0-8	OB	
8-303	rock	
TD 303		

C-77-38

0-9	OB	
9-189	rock	
189-196	coal	7'
196-303	rock	
TD 303		

C-77-39

0-5	OB	
5-6	rock	
6-7	coal	1'
7-175	rock	
175-176	coal	1'
176-178	rock	2"
178-183	coal	5'
183-188	rock	5"
188-192	coal	4'
192-213	rock	20"
213-215	coal	2'
215-221	rock	13"
221-222	coal	1'
222-256	rock	—
256-260	coal	4'
260-266	rock	
266-286	coal	20'
286-292	rock	10"
292-311	coal	19'
311-324	rock	13"
324-325	coal	1'
325-382	rock	
TD 382		

C-77-40

0-9	OB	
9-116	rock	
116-126	coal	(10')
126-303	rock	
TD 303		

C-77-41

0-12	OB	
12-14	rock	
14-16	coal	2'
16-22	rock	
22-36	coal	14'
36-115	rock	
115-116	coal	1'
116-134	rock	
134-136	coal	2'
136-303	rock	

TD 303

C-77-42

0-7	OB	
7-22	rock	
22-26	coal	4'
26-27	rock	
27-31	coal	5'
31-33	rock	
33-34	coal	1'
34-39	rock	
39-44	coal	5'
44-49	rock	
49-63	coal	14'
63-67	rock	
67-69	coal	2'
69-226	rock	
226-235	coal	9'
235-303	rock	

TD 303