

67-477

MT. COSTIGAN MINES LTD.
REPORT ON DRILLING OF
COWPER POINT AREA,
KING ISLAND, TASMANIA.

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ISG REFER REPORT 70-0676

13th October, 1967

Kenneth McMahon & Partners Pty. Ltd.

1. INTRODUCTION

A programme of hand drilling was undertaken by Kenneth McMahon & Partners Pty. Ltd. on the sand dunes and old strand lines near Cowper Point on the east side of King Island, Tasmania, between 4th January and 17th February, 1907.

This report sets out the results of this work and the reserves of rutile and zircon. The plans and sections of the grid lines are separate from this report.

COWPER POINT, NARACOOPA

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2. SUMMARY AND CONCLUSIONS

1. The area investigated consists of sand dunes close to and parallel to the coast both north and south of the Sea Elephant River backed by an area of old strand lines.

All the mineable reserves lie in the dunes south of this river, while on the strand lines, reserves are too small and low grade and the sand too shallow to constitute a mining proposition at present price levels.

2. Reserves in the dunes are as follows:-

Sand		11,885,500 Tons.	
Heavy Mineral @ 3.24%		385,536 Tons.	
Rutile @ 8.73% of H.M.		33,666 Tons.	0.25%
Zircon @ 7.64% of H.M.		29,462 Tons.	0.22%

3. The coastline here has been uplifted leaving a series of old strand lines. Three costeans were made to expose the formation below the sand. This was found to be 5 feet of indurated sand with a further 3 feet to 5 feet of barren white sand below. Clay and decomposed granodiorite gravel lie below the white sand.

It is clear that the strand lines could not support more than a very small operation at best.

4. The sand in the dunes is stabilised and supports bracken, marram grass and a light ti-tree scrub. The dunes reach a height of about 50 feet above mean sea level.
5. Payable ore reserves are found in the sand dunes south of the Sea Elephant River, but these reserves do not continue north of the river.
6. In order to maintain an output of 10,000 Tons per year of Rutile, with accompanying Zircon, it will be necessary to instal a wet plant with a capacity of 600 Tons per hour. Conditions are suitable for dredging. The life of such an operation would be about 3 years.

3. MINING TENEMENTS

Portions of the following mining tenements were drilled in this programme:-

1. Area held by Storeys Creek Tin Mining Co. N.L.
2. Exploration Licence 10/65 held by Mount Costigan Mines Ltd.
3. Special Prospector's Licence No. 9 held by Mount Costigan Mines Limited.
4. Area covered by Permit to Enter, permission having been given by the owner.

4. DESCRIPTION OF DRILLING PROGRAMME

Drilling was carried out using standard sand drilling equipment purchased from Dormer's Engineering Works, Murwillumbah, New South Wales.

This equipment consists of 3 ins. diameter hand augers with 5 feet lengths of extension rods. For sampling below the water table, 2½ ins. diameter casing was used with a sludge pump 2 ins. diameter.

Samples were removed by the hand auger in five feet increments, each of which was well mixed to produce a representative grab sample of 1 to 2 pounds for assaying.

Once the water table was reached, casing was inserted and samples removed by the sludge pump. The resulting sample from each five feet increment was mixed well in a tub before taking a representative sample for assaying.

Assaying of the sand samples for determining the content of heavy mineral was carried out by the University of Queensland, Brisbane.

Heavy mineral percentages were determined by the bromoform sink-flout method, and concentrates were grouped according to area and the percentage of individual minerals then assessed by R.K. Newman & Co. Pty. Ltd., Sydney.

The results of the programme are as follows:-

No. of Holes drilled	580
No. of Samples	1,980
Total footage drilled	7,941
Average depth of hole	14 feet.

Grid lines were laid out normal to the coastline at intervals of 1,000 feet apart and these extended sufficiently far inland to cover the old strand lines. North of Cowper Point this necessitated a change in the direction of the grid lines owing to the change in direction of the coastline.

Holes were drilled at intervals of 100 feet apart on the dunes on the lines 1,000 feet apart. Whereas, on the strand lines behind the dunes, holes were drilled every 100 feet on grid lines 2,000 feet apart, with the one exception of the most westerly strand line.

5. ORE RESERVES

Ore reserves have been calculated using a cut-off grade of 1.5% Heavy Mineral in the ground.

Reserves calculated for the strand lines are at present considered too shallow and too low grade to constitute a mining proposition. Accordingly, all the ore reserves accepted for the Cowper Point area are located in the dunes south of the Sea Elephant River.

DUNES

Line	Hole No.	Tons of Sand	% H.M.	Tons of H.M.	% R.	Tons of Rutile	% Z	Tons of Zircon
90N	39E-42E	176,311	2.25	3,967	8.13	322	6.58	261
100N	37E-43E	470,000	2.27	10,609	8.13	867	6.58	702
110N	33E-44E	682,310	3.17	21,629	8.50	1,838	7.25	1,568
120N	36E-48E	1,288,970	2.92	37,638	8.88	3,342	7.92	2,980
120NA	40E-53E	1,232,443	3.82	47,079	8.84	4,161	7.99	3,701
120NB	12E-32E	2,485,109	3.55	88,221	8.80	7,763	8.06	7,110
120NC	1E-16E	849,422	3.61	30,604	8.03	2,646	10.21	3,130
130N	38E-60E	1,961,420	3.59	70,415	9.98	7,027	8.37	5,893
140N	49E-63E	1,131,777	3.35	37,914	8.37	3,173	8.38	2,419
150N	50E-58E	1,010,399	2.33	23,542	6.77	1,593	4.39	1,033
160N	49E-54E	597,333	2.31	13,798	6.77	934	4.39	605
TOTAL		11,885,500	3.24	385,536	8.73	33,666	7.04	29,462

$$\frac{R}{Z} = 1.14$$

STRAND LINES

(Not included in reserves.)

70N	2W-11E	345,555	3.59	12,405	11.94	1,481	19.47	2,415
80N	2W-5E							
	13E-15E	311,110	7.93	24,671	10.73	2,647	14.49	3,575
90N	3W-2W	30,000	12.18	3,654	0.24	228	10.03	366
100N	5W-00	147,778	4.42	6,532	1.75	114	5.57	363
110N	00-5W	218,800	4.11	8,992	2.93	263	8.08	726
120N	4W-3W	40,000	2.78	1,112	4.12	45	10.60	117
130N	3W-2W	35,000	7.77	2,720	4.21	114	10.20	277
TOTAL		1,128,243	5.32	60,086	8.14	4,892	13.05	7,839

$$\frac{R}{Z} = 0.62$$



162009

67-477 3355

- Area held by Storey's Creek: ▬
- Area held by Mt. Costigan Mines: ▬
- E.L. 10/65: ▬
- S.P.L. N° 9: ▬
- Permit to enter: ▬
- Ore Reserve - 1.5% H.M. Cut-off: ▬
- 1.5% Cut-off not included in reserve: - - -



MT. COSTIGAN MINES, KING ISLAND

COWPER POINT, NARACOOPA

BORING GRID

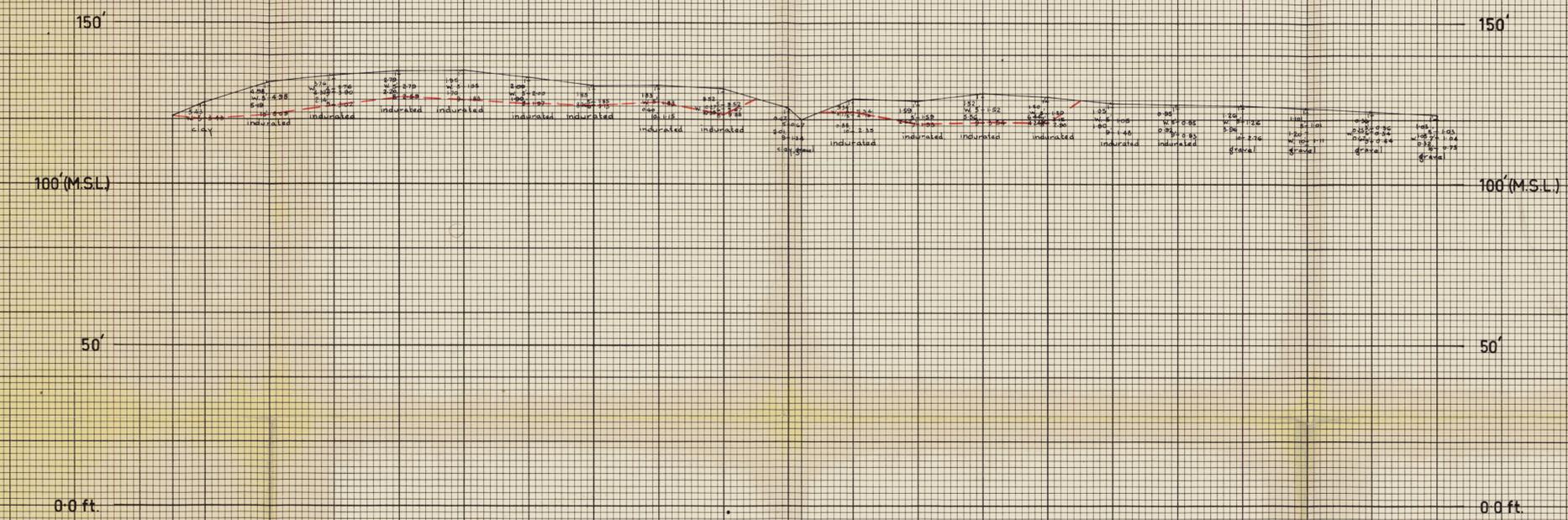
LAYOUT PLAN

KENNETH McMAHON & PARTNERS PTY. LTD.

Scale: 10 chs. to 1 inch.

PLATE I

DATE DRILLED: JAN-FEB, 1967



HOLE NUMBER	2 W	W	Q Q	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E	16 E	17 E	
DISTANCE IN FT.	250	100	00	200	200	300	400	500	500	700	750	800	900	1000	1100	1200	1300	1400	1500	1600	1700
REDUCED LEVEL	1210	1254	1318	1350	1385	1430	1490	1503	1538	1538	1538	1561	1577	1580	1610	1650	1664	1684	1705	1724	1740

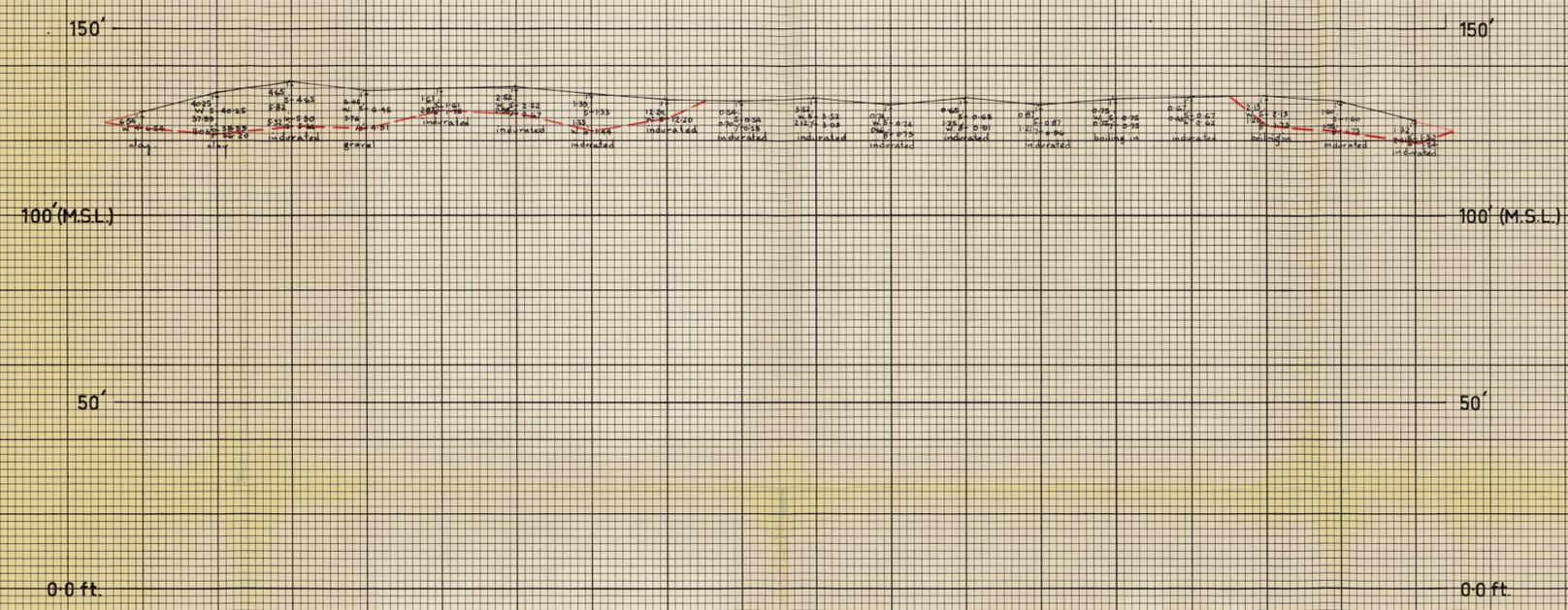


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 MT. COSTIGAN MINES, KING ISLAND.
 162010

COWPER POINT
 NARACOOPA
 BORE LINE 70 N
 -250 to 1700

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"
 PLATE II
 JAN - FEB 1967

LONGITUDINAL SECTION
 KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	7 W	1 W	0 C	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E
DISTANCE IN FT.	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
REDUCED LEVEL	127.8	133.7	136.0	133.4	134.0	134.2	132.6	131.0	130.6	131.4	129.6	131.5	128.8	131.3	131.8	132.0	129.4	129.6



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 MT. COSTIGAN MINES, KING ISLAND.

**COWPER POINT
 NARACOOPA**

BORE LINE 80 N
 -200 to 1500

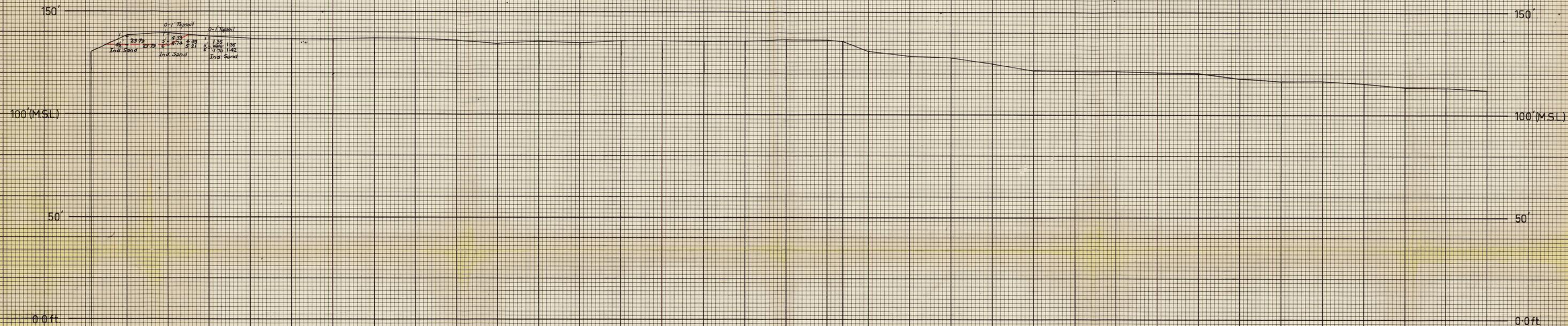
LONGITUDINAL SECTION

KENNETH McMAHON & PARTNERS PTY. LTD.

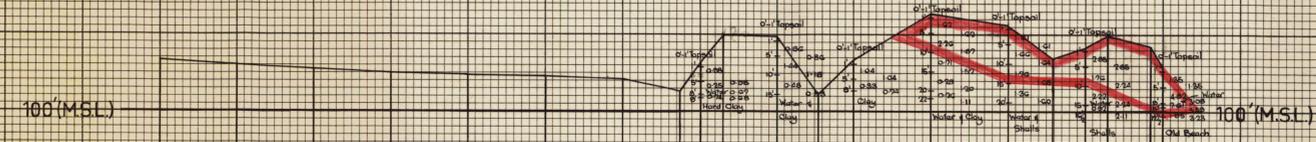
SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE III

JAN - FEB 1967



HOLE NUMBER	3 W	2 W	1 W	0 0	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E	16 E	17 E	18 E	19 E	20 E	21 E	22 E	23 E	24 E	25 E	26 E	27 E	28 E	29 E	30 E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
DISTANCE IN FT	300	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500	3700	3900	4100	4300	4500	4700	4900	5100	5300	5500	5700	5900	6100	6300	6500	6700	6900	7100	7300	7500	7700	7900	8100	8300	8500	8700	8900	9100	9300	9500	9700	9900	10100	10300	10500	10700	10900	11100	11300	11500	11700	11900	12100	12300	12500	12700	12900	13100	13300	13500	13700	13900	14100	14300	14500	14700	14900	15100	15300	15500	15700	15900	16100	16300	16500	16700	16900	17100	17300	17500	17700	17900	18100	18300	18500	18700	18900	19100	19300	19500	19700	19900	20100	20300	20500	20700	20900	21100	21300	21500	21700	21900	22100	22300	22500	22700	22900	23100	23300	23500	23700	23900	24100	24300	24500	24700	24900	25100	25300	25500	25700	25900	26100	26300	26500	26700	26900	27100	27300	27500	27700	27900	28100	28300	28500	28700	28900	29100	29300	29500	29700	29900	30100	30300	30500	30700	30900	31100	31300	31500	31700	31900	32100	32300	32500	32700	32900	33100	33300	33500	33700	33900	34100	34300	34500	34700	34900	35100	35300	35500	35700	35900	36100	36300	36500	36700	36900	37100	37300	37500	37700	37900	38100	38300	38500	38700	38900	39100	39300	39500	39700	39900	40100	40300	40500	40700	40900	41100	41300	41500	41700	41900	42100	42300	42500	42700	42900	43100	43300	43500	43700	43900	44100	44300	44500	44700	44900	45100	45300	45500	45700	45900	46100	46300	46500	46700	46900	47100	47300	47500	47700	47900	48100	48300	48500	48700	48900	49100	49300	49500	49700	49900	50100	50300	50500	50700	50900	51100	51300	51500	51700	51900	52100	52300	52500	52700	52900	53100	53300	53500	53700	53900	54100	54300	54500	54700	54900	55100	55300	55500	55700	55900	56100	56300	56500	56700	56900	57100	57300	57500	57700	57900	58100	58300	58500	58700	58900	59100	59300	59500	59700	59900	60100	60300	60500	60700	60900	61100	61300	61500	61700	61900	62100	62300	62500	62700	62900	63100	63300	63500	63700	63900	64100	64300	64500	64700	64900	65100	65300	65500	65700	65900	66100	66300	66500	66700	66900	67100	67300	67500	67700	67900	68100	68300	68500	68700	68900	69100	69300	69500	69700	69900	70100	70300	70500	70700	70900	71100	71300	71500	71700	71900	72100	72300	72500	72700	72900	73100	73300	73500	73700	73900	74100	74300	74500	74700	74900	75100	75300	75500	75700	75900	76100	76300	76500	76700	76900	77100	77300	77500	77700	77900	78100	78300	78500	78700	78900	79100	79300	79500	79700	79900	80100	80300	80500	80700	80900	81100	81300	81500	81700	81900	82100	82300	82500	82700	82900	83100	83300	83500	83700	83900	84100	84300	84500	84700	84900	85100	85300	85500	85700	85900	86100	86300	86500	86700	86900	87100	87300	87500	87700	87900	88100	88300	88500	88700	88900	89100	89300	89500	89700	89900	90100	90300	90500	90700	90900	91100	91300	91500	91700	91900	92100	92300	92500	92700	92900	93100	93300	93500	93700	93900	94100	94300	94500	94700	94900	95100	95300	95500	95700	95900	96100	96300	96500	96700	96900	97100	97300	97500	97700	97900	98100	98300	98500	98700	98900	99100	99300	99500	99700	99900	100100	100300	100500	100700	100900	101100	101300	101500	101700	101900	102100	102300	102500	102700	102900	103100	103300	103500	103700	103900	104100	104300	104500	104700	104900	105100	105300	105500	105700	105900	106100	106300	106500	106700	106900	107100	107300	107500	107700	107900	108100	108300	108500	108700	108900	109100	109300	109500	109700	109900	110100	110300	110500	110700	110900	111100	111300	111500	111700	111900	112100	112300	112500	112700	112900	113100	113300	113500	113700	113900	114100	114300	114500	114700	114900	115100	115300	115500	115700	115900	116100	116300	116500	116700	116900	117100	117300	117500	117700	117900	118100	118300	118500	118700	118900	119100	119300	119500	119700	119900	120100	120300	120500	120700	120900	121100	121300	121500	121700	121900	122100	122300	122500	122700	122900	123100	123300	123500	123700	123900	124100	124300	124500	124700	124900	125100	125300	125500	125700	125900	126100	126300	126500	126700	126900	127100	127300	127500	127700	127900	128100	128300	128500	128700	128900	129100	129300	129500	129700	129900	130100	130300	130500	130700	130900	131100	131300	131500	131700	131900	132100	132300	132500	132700	132900	133100	133300	133500	133700	133900	134100	134300	134500	134700	134900	135100	135300	135500	135700	135900	136100	136300	136500	136700	136900	137100	137300	137500	137700	137900	138100	138300	138500	138700	138900	139100	139300	139500	139700	139900	140100	140300	140500	140700	140900	141100	141300	141500	141700	141900	142100	142300	142500	142700	142900	143100	143300	143500	143700	143900	144100	144300	144500	144700	144900	145100	145300	145500	145700	145900	146100	146300	146500	146700	146900	147100	147300	147500	147700	147900	148100	148300	148500	148700	148900	149100	149300	149500	149700	149900	150100	150300	150500	150700	150900	151100	151300	151500	151700	151900	152100	152300	152500	152700	152900	153100	153300	153500	153700	153900	154100	154300	154500	154700	154900	155100	155300	155500	155700	155900	156100	156300	156500	156700	156900	157100	157300	157500	157700	157900	158100	158300	158500	15870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HOLE NUMBER	28 E	29 E	30 E	31 E	32 E	33 E	34 E	35 E	36 E	37 E	38 E	39 E	40 E	41 E	42 E
DISTANCE IN FT	2054	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
REDUCED LEVEL	101.81	102.71	103.71	104.71	105.71	106.71	107.71	108.71	109.71	110.71	111.71	112.71	113.71	114.71	115.71

5 cm

61-477 3859
 MT. COSTIGAN MINES, KING ISLAND. 162013

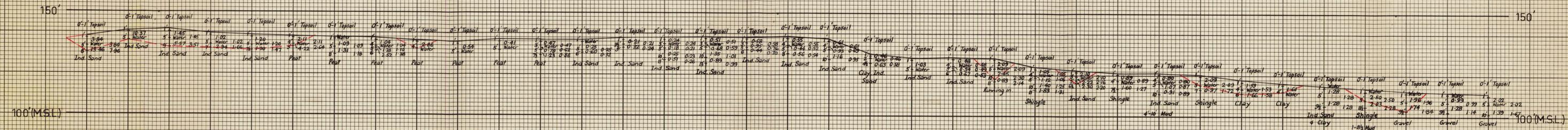
COWPER POINT
NARACOOPA
 BORE LINE 90 N
 2900 to 4200
 LONGITUDINAL SECTION

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20 to 1

PLATE V

JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	5 W	4 W	3 W	2 W	1 W	0 0	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E	16 E	17 E	18 E	19 E	20 E	21 E	22 E	23 E	24 E	25 E	26 E	27 E	28 E	29 E	
DISTANCE IN FT	300	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000	9300	9600	9900	10200		
REDUCED LEVEL	2791.5	2781.7	2772.0	2762.3	2752.6	2742.9	2733.2	2723.5	2713.8	2704.1	2694.4	2684.7	2675.0	2665.3	2655.6	2645.9	2636.2	2626.5	2616.8	2607.1	2597.4	2587.7	2578.0	2568.3	2558.6	2548.9	2539.2	2529.5	2519.8	2510.1	2500.4	2490.7	2481.0	2471.3	2461.6	2451.9

67-477 SC69
 MT. COSTIGAN MINES, KING ISLAND.
 162014

COWPER POINT
 NARACOOPA
 BORE LINE 100 N
 -500 to 2900
 LONGITUDINAL SECTION

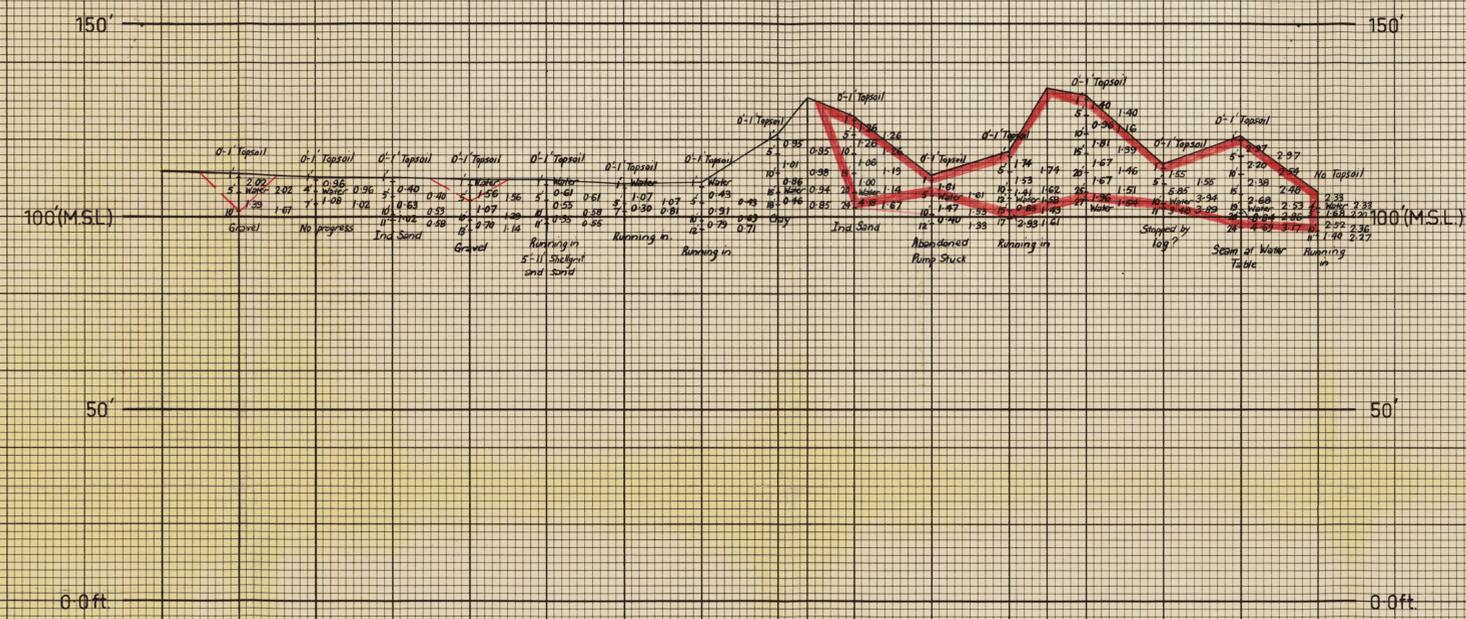
SCALE:
 Horizontal - 100' to 1"
 Vertical - 20' to 1"

PLATE VI

JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.





HOLE NUMBER	29 E	30 E	31 E	32 E	33 E	34 E	35 E	36 E	37 E	38 E	39 E	40 E	41 E	42 E	43 E
DISTANCE IN FT	17800	18000	18200	18400	18600	18800	19000	19200	19400	19600	19800	20000	20200	20400	20600
REDUCED LEVEL	1173.4	1171.1	1162.5	1162.8	1162.0	1161.5	1161.6	1161.5	1161.4	1161.0	1160.9	1160.6	1160.4	1160.2	1160.1



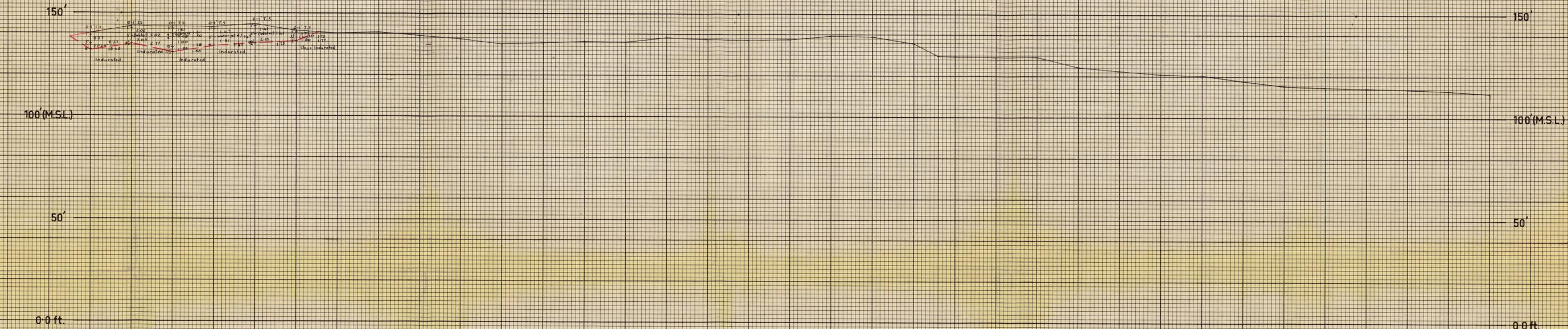
67-477 3861
 MT. COSTIGAN MINES, KING ISLAND.
 162015

COWPER POINT
 NARACOOPA
 BORE LINE 100 N
 2800 to 4300
 LONGITUDINAL SECTION

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE VII
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	5 W	4 W	3 W	2 W	1 W	0 0	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E	16 E	17 E	18 E	19 E	20 E	21 E	22 E	23 E	24 E	25 E	26 E	27 E	28 E	
DISTANCE IN FT	500	400	300	200	100	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	
REDUCED LEVEL	140.0	145.2	145.1	145.7	144.5	141.5	140.7	140.5	139.7	139.7	138.5	138.7	138.4	138.7	138.2	137.6	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3

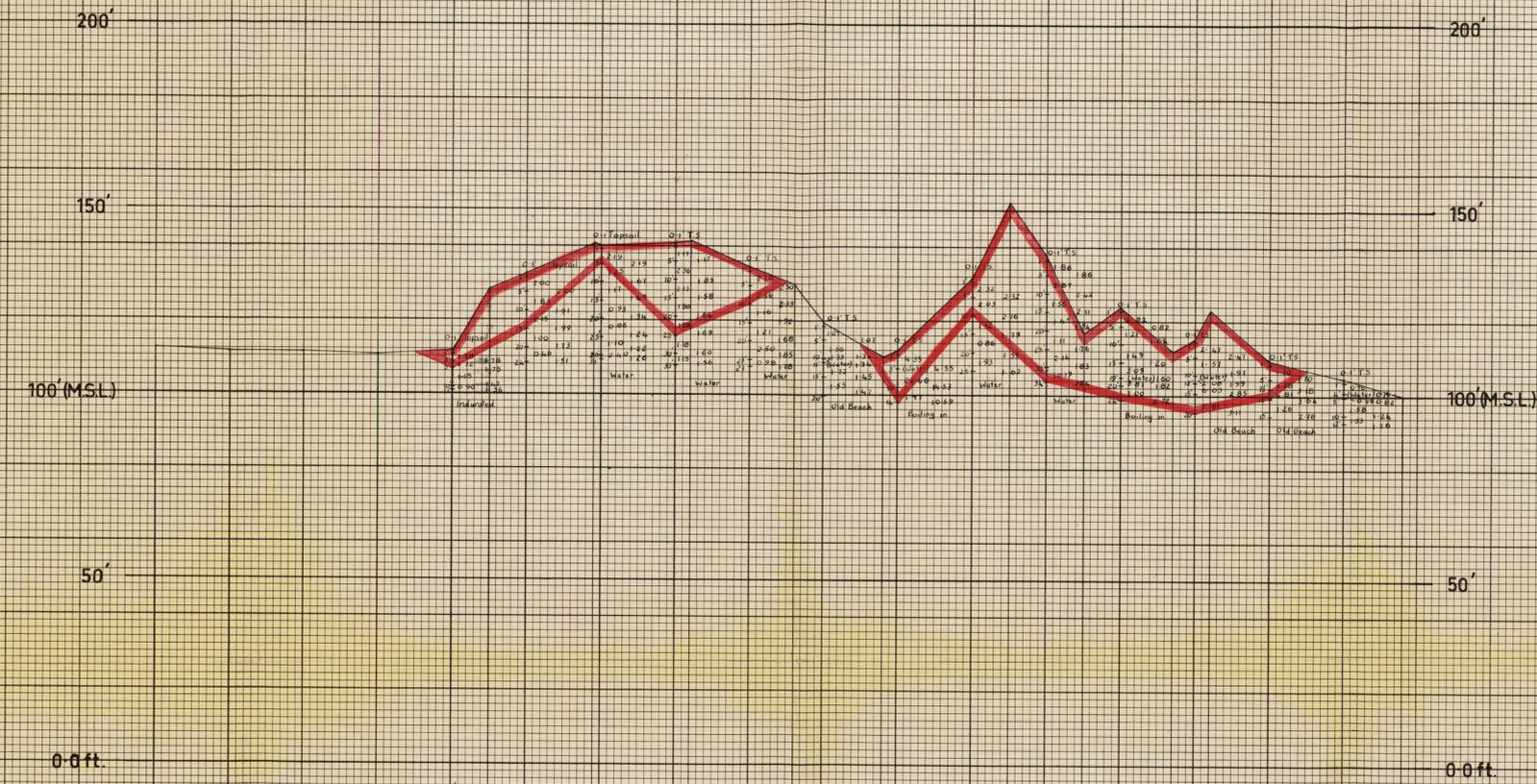
67-477 3862
 MT. COSTIGAN MINES, KING ISLAND.
 162016

COWPER POINT
 NARACOOPA
 BORE LINE 110 N
 -500 to 2900

SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"
 PLATE VIII
 JAN - FEB 1967

LONGITUDINAL SECTION
 KENNETH McMAHON & PARTNERS PTY. LTD.





HOLE NUMBER	28 E	30 E	31 E	32 E	33 E	34 E	35 E	36 E	37 E	38 E	39 E	40 E	41 E	42 E	43 E	44 E	45 E							
DISTANCE IN FT	2400	3200	3100	3200	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900							
REDUCED LEVEL	179.0	177.1	177.4	176.5	177.7	178.2	182.8	185.8	184.2	180.9	179.5	179.1	177.3	181.6	182.0	187.2	175.5	183.3	172.0	175.4	183.7	169.4	164.3	160.0

67-477 3363
162017

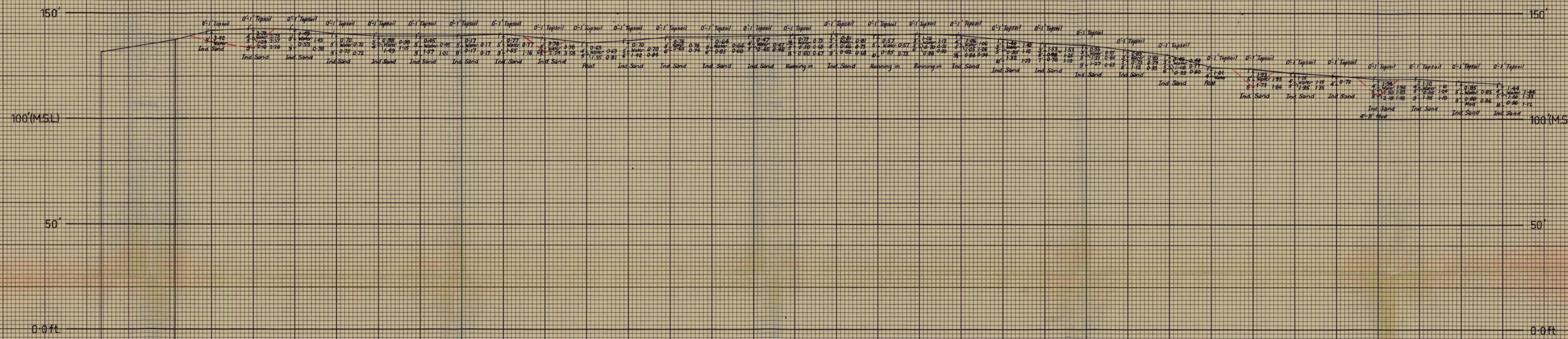
MT. COSTIGAN MINES, KING ISLAND.

**COWPER POINT
NARACOOPA
BORE LINE 110 N
2900 to 4580
LONGITUDINAL SECTION**

SCALE:
Horizontal 100' to 1"
Vertical 20' to 1"

PLATE IX
JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
DISTANCE IN FT.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700
REDUCED LEVEL	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30	707.30

67-477 3364
MT. COSTIGAN MINES, KING ISLAND.
 162015

**COWPER POINT
 NARACOOPA**

**BORE LINE 120 N
 -665 to 2700**

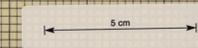
LONGITUDINAL SECTION

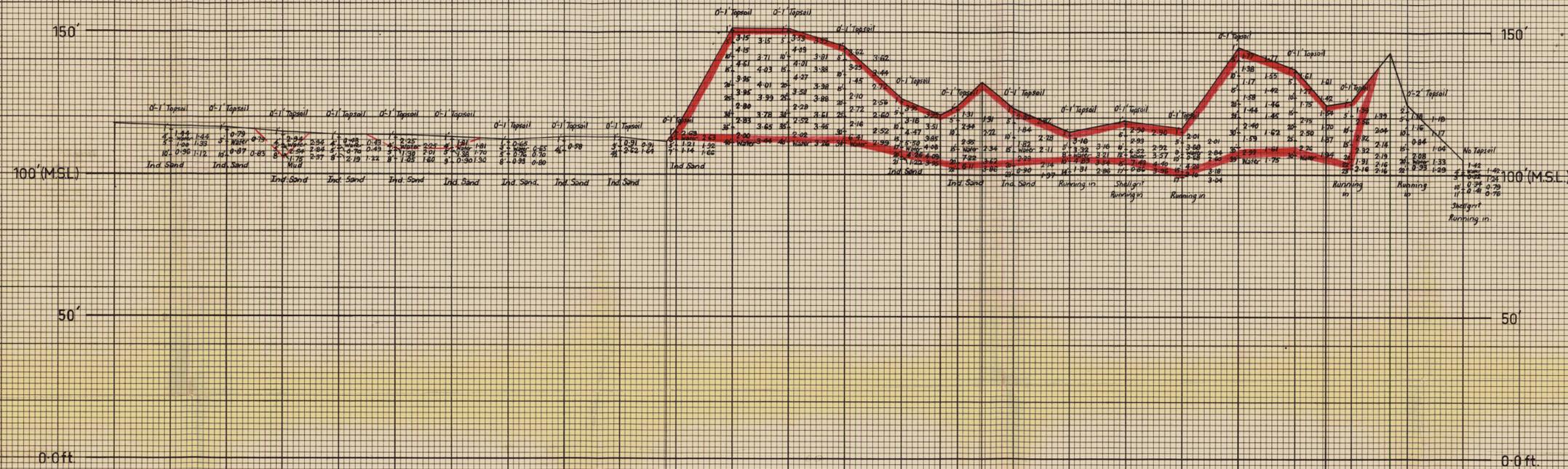
SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE X

JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.





HOLE NUMBER	26 E	27 E	28 E	29 E	30 E	31 E	32 E	33 E	34 E	35 E	36 E	37 E	38 E	39 E	40 E	41 E	42 E	43 E	44 E	45 E	46 E	47 E	48 E	49 E	50 E
DISTANCE IN FEET	0000	1700	2600	3500	4400	5300	6200	7100	8000	8900	9800	10700	11600	12500	13400	14300	15200	16100	17000	17900	18800	19700	20600	21500	22400
REDUCED LEVEL	77.5	76.5	75.5	74.5	73.5	72.5	71.5	70.5	69.5	68.5	67.5	66.5	65.5	64.5	63.5	62.5	61.5	60.5	59.5	58.5	57.5	56.5	55.5	54.5	53.5



67-477 3865
162019

MT. COSTIGAN, MINES, KING ISLAND.

**COWPER POINT
NARACOOPA**

**BORE LINE 120N
2600 to 5000**

LONGITUDINAL SECTION

KENNETH McMAHON & PARTNERS PTY. LTD.

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"
 PLATE XI
 JAN - FEB 1967

200'
150'
100 (M.S.L.)
50'
0-0 ft.

200'
150'
100 (M.S.L.)
50'
0-0 ft.

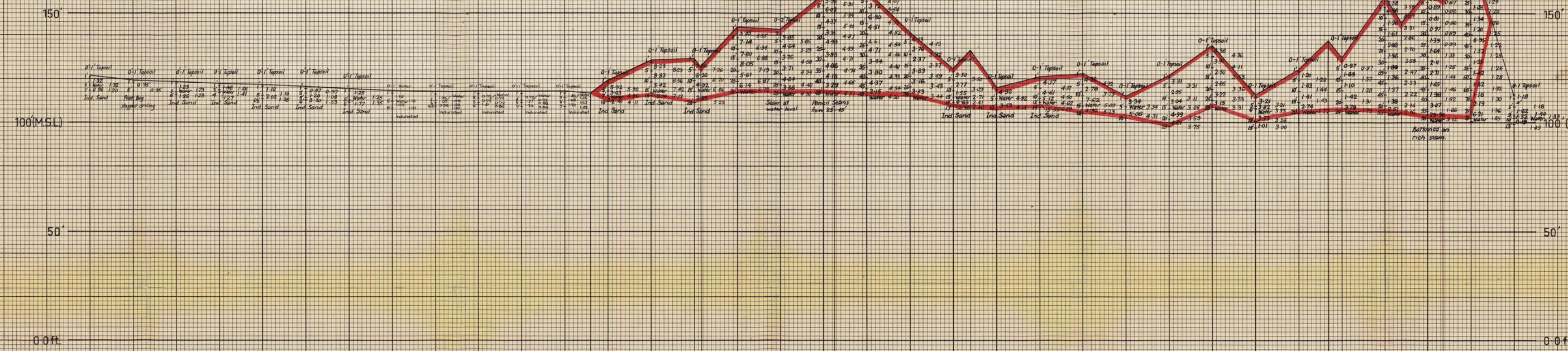
HOLE NUMBER	0-0	1E	2E	3E	4E	5E	6E	7E	8E	9E	10E	11E	12E	13E	14E	15E	16E	17E	18E	19E	20E	21E	22E	23E	24E	25E	26E	27E	28E	29E	30E	31E	32E	33E	34E
DISTANCE IN FT.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400
REDUCED LEVEL	747.0	740.9	740.5	735.3	737.3	737.7	736.3	737.6	738.7	737.7	738.5	738.7	740.7	740.5	742.0	738.3	739.3	738.6	739.3	739.0	738.4	738.8	737.7	738.3	737.4	737.4	736.0	735.7	735.0	734.4	734.2	734.2	732.8	732.8	732.7

67-477 3866
 MT. COSTIGAN MINES, KING ISLAND.
 162020
 COWPER POINT
 NARACOOPA
 BORE LINE 120 NA
 00 to 3400
 LONGITUDINAL SECTION
 KENNETH McMAHON & PARTNERS PTY. LTD.

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE XII
 JAN - FEB 1967





HOLE NUMBER	00	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E	16 E	17 E	18 E	19 E	20 E	21 E	22 E	23 E	24 E	25 E	26 E	27 E	28 E	29 E	30 E	31 E	32 E	33 E		
DISTANCE IN FT	00	100	200	300	400	500	600	700	800	900	1000	1100	1150	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	
REDUCED LEVEL	127.77	128.53	128.92	127.82	127.50	126.37	125.54	124.68	124.51	124.25	124.34	124.65	123.28	123.50	123.46	123.92	122.58	122.12	121.56	120.86	120.54	120.25	120.09	120.21	120.23	120.54	121.21	121.71	122.17	122.71	123.77	124.76	125.29	125.58	125.84	126.00



3368

67-477
MT. COSTIGAN MINES, KING ISLAND.
 162622

**COWPER POINT
 NARACOOPA**

**BORE LINE 120NB
 00 to 3300**

LONGITUDINAL SECTION

KENNETH McMAHON & PARTNERS PTY. LTD.

SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"

PLATE XIV
 JAN - FEB 1967

200'

200'

150'

150'

100' (M.S.L.)

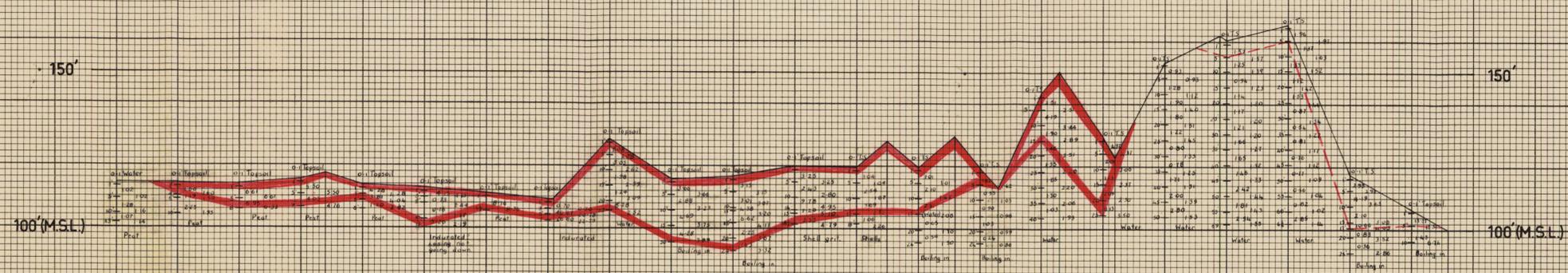
100' (M.S.L.)

50'

50'

0-0 ft.

0-0 ft.



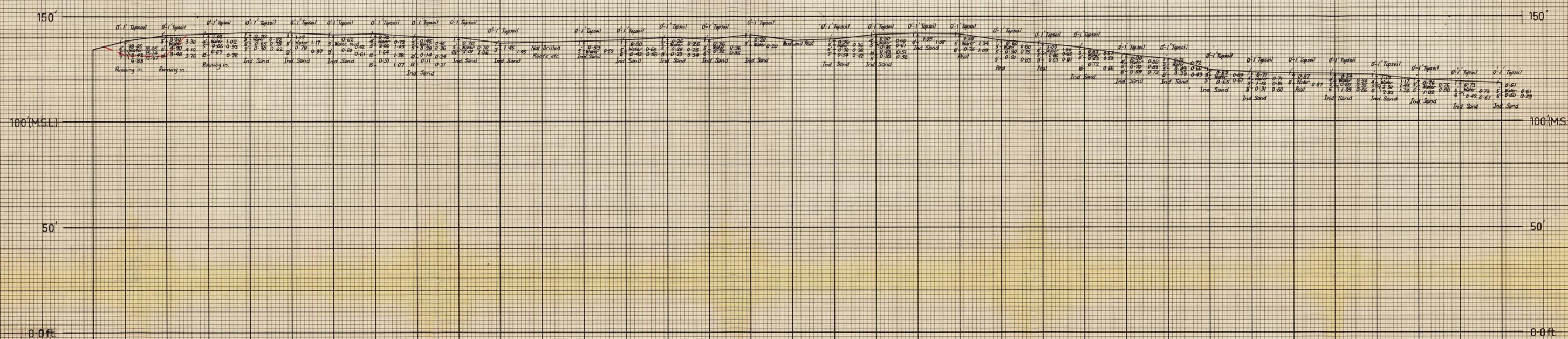
HOLE NUMBER	00	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	
DISTANCE IN FT.	00	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	
REDUCED LEVEL	1145.00	1144.40	1147.10	1153.30	1177.40	1133.80	1135.00	1177.10	1208.20	1094.20	1208.60	1175.80	1165.10	1179.30	1214.40	1258.00	1179.50	1231.70	1159.30	1128.90	1253.20	1202.30	1228.10



67-477 3369
 182023
 MT. COSTIGAN MINES, KING ISLAND.
 COWPER POINT
 NARACOOPA
 BORE LINE 120 NC
 00 to 2160
 LONGITUDINAL SECTION
 KENNETH McMAHON & PARTNERS PTY. LTD.

SCALE:
 Horizontal: 100' to 1" = 1000'
 Vertical: 20' to 1" = 2000'

PLATE XV
 JAN - FEB 1967



HOLE NUMBER	3 W	2 W	1 W	0 O	1 E	2 E	3 E	4 E	5 E	6 E	7 E	8 E	9 E	10 E	11 E	12 E	13 E	14 E	15 E	16 E	17 E	18 E	19 E	20 E	21 E	22 E	23 E	24 E	25 E	26 E	27 E	28 E	29 E	30 E																												
DISTANCE IN FT	376	300	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	14500	15000	15500	16000	16500	17000	17500	18000	18500	19000	19500	20000	20500	21000	21500	22000	22500	23000	23500	24000	24500	25000	25500	26000	26500	27000	27500	28000	28500	29000	29500	30000
REDUCED LEVEL	376	300	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	14500	15000	15500	16000	16500	17000	17500	18000	18500	19000	19500	20000	20500	21000	21500	22000	22500	23000	23500	24000	24500	25000	25500	26000	26500	27000	27500	28000	28500	29000	29500	30000

67-477 3870
 MT. COSTIGAN MINES, KING ISLAND.
 162024

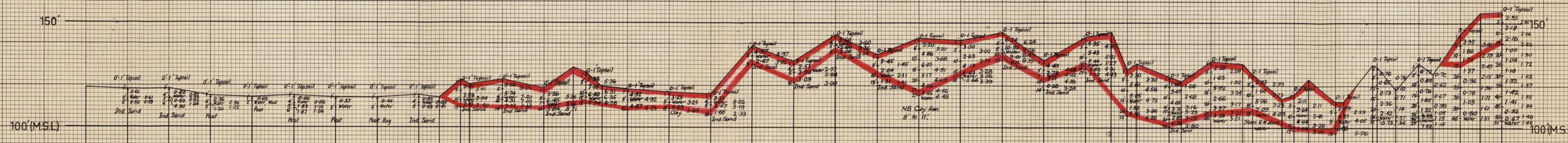
COWPER POINT
 NARACOOPA
 BORE LINE 130 N
 -376 to 3000
 LONGITUDINAL SECTION

SCALE:
 Horizontal : 100 to 1
 Vertical : 20 to 1

PLATE XVI
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.

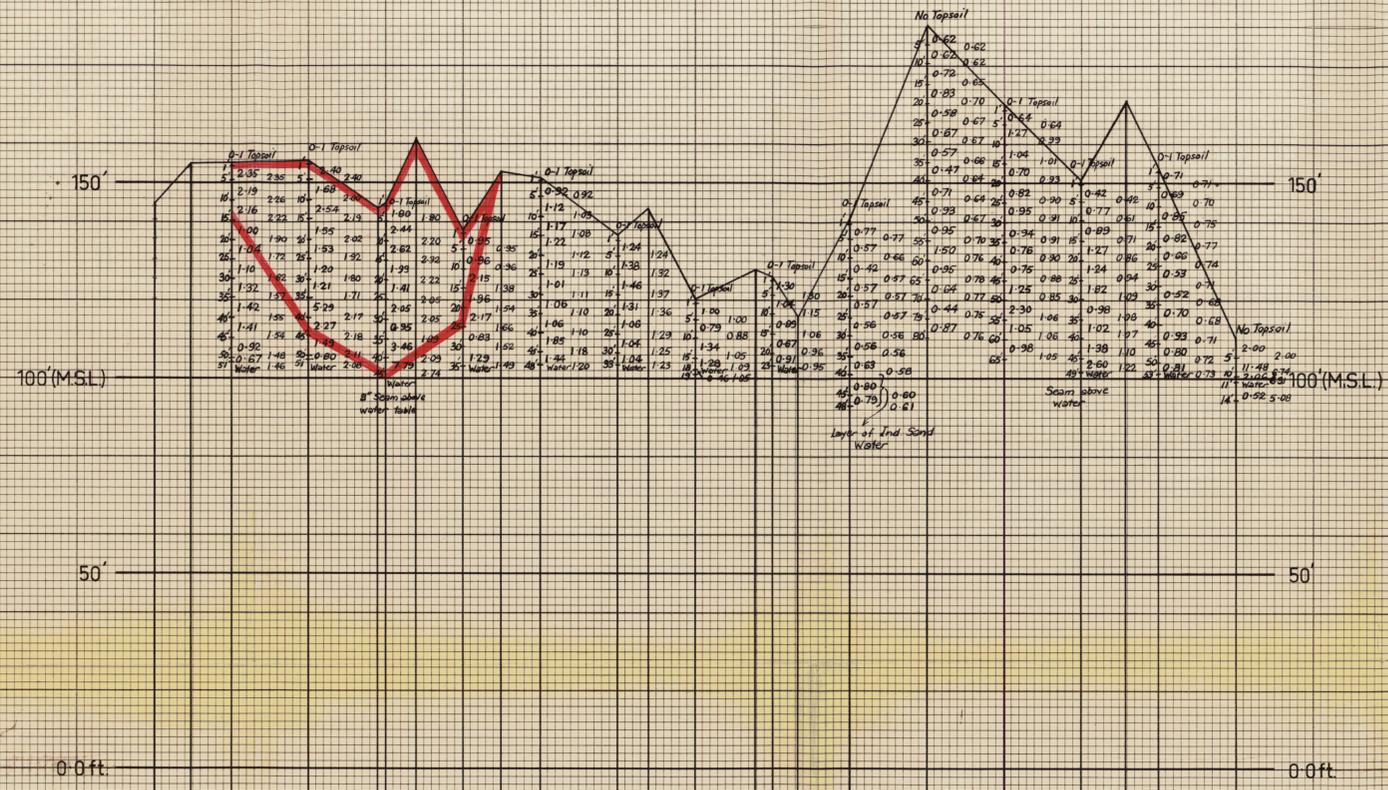




HOLE NUMBER	29 E	30 E	31 E	32 E	33 E	34 E	35 E	36 E	37 E	38 E	39 E	40 E	41 E	42 E	43 E	44 E	45 E	46 E	47 E	48 E	49 E	50 E	51 E	52 E	53 E	54 E	55 E	56 E	57 E	58 E	59 E	60 E	61 E	62 E	63 E																																																																																																																																																																																																																																																																																																																																																																																																																								
DISTANCE IN FT	78.97	118.42	148.31	178.20	208.09	237.98	267.87	297.76	327.65	357.54	387.43	417.32	447.21	477.10	506.99	536.88	566.77	596.66	626.55	656.44	686.33	716.22	746.11	776.00	805.89	835.78	865.67	895.56	925.45	955.34	985.23	1015.12	1045.01	1074.90	1104.79	1134.68	1164.57	1194.46	1224.35	1254.24	1284.13	1314.02	1343.91	1373.80	1403.69	1433.58	1463.47	1493.36	1523.25	1553.14	1583.03	1612.92	1642.81	1672.70	1702.59	1732.48	1762.37	1792.26	1822.15	1852.04	1881.93	1911.82	1941.71	1971.60	2001.49	2031.38	2061.27	2091.16	2121.05	2150.94	2180.83	2210.72	2240.61	2270.50	2300.39	2330.28	2360.17	2390.06	2419.95	2449.84	2479.73	2509.62	2539.51	2569.40	2599.29	2629.18	2659.07	2688.96	2718.85	2748.74	2778.63	2808.52	2838.41	2868.30	2898.19	2928.08	2957.97	2987.86	3017.75	3047.64	3077.53	3107.42	3137.31	3167.20	3197.09	3226.98	3256.87	3286.76	3316.65	3346.54	3376.43	3406.32	3436.21	3466.10	3495.99	3525.88	3555.77	3585.66	3615.55	3645.44	3675.33	3705.22	3735.11	3765.00	3794.89	3824.78	3854.67	3884.56	3914.45	3944.34	3974.23	4004.12	4034.01	4063.90	4093.79	4123.68	4153.57	4183.46	4213.35	4243.24	4273.13	4303.02	4332.91	4362.80	4392.69	4422.58	4452.47	4482.36	4512.25	4542.14	4572.03	4601.92	4631.81	4661.70	4691.59	4721.48	4751.37	4781.26	4811.15	4841.04	4870.93	4900.82	4930.71	4960.60	4990.49	5020.38	5050.27	5080.16	5110.05	5139.94	5169.83	5199.72	5229.61	5259.50	5289.39	5319.28	5349.17	5379.06	5408.95	5438.84	5468.73	5498.62	5528.51	5558.40	5588.29	5618.18	5648.07	5677.96	5707.85	5737.74	5767.63	5797.52	5827.41	5857.30	5887.19	5917.08	5946.97	5976.86	6006.75	6036.64	6066.53	6096.42	6126.31	6156.20	6186.09	6215.98	6245.87	6275.76	6305.65	6335.54	6365.43	6395.32	6425.21	6455.10	6485.00	6514.89	6544.78	6574.67	6604.56	6634.45	6664.34	6694.23	6724.12	6754.01	6783.90	6813.79	6843.68	6873.57	6903.46	6933.35	6963.24	6993.13	7023.02	7052.91	7082.80	7112.69	7142.58	7172.47	7202.36	7232.25	7262.14	7292.03	7321.92	7351.81	7381.70	7411.59	7441.48	7471.37	7501.26	7531.15	7561.04	7590.93	7620.82	7650.71	7680.60	7710.49	7740.38	7770.27	7800.16	7830.05	7859.94	7889.83	7919.72	7949.61	7979.50	8009.39	8039.28	8069.17	8099.06	8128.95	8158.84	8188.73	8218.62	8248.51	8278.40	8308.29	8338.18	8368.07	8397.96	8427.85	8457.74	8487.63	8517.52	8547.41	8577.30	8607.19	8637.08	8666.97	8696.86	8726.75	8756.64	8786.53	8816.42	8846.31	8876.20	8906.09	8935.98	8965.87	8995.76	9025.65	9055.54	9085.43	9115.32	9145.21	9175.10	9205.00	9234.89	9264.78	9294.67	9324.56	9354.45	9384.34	9414.23	9444.12	9474.01	9503.90	9533.79	9563.68	9593.57	9623.46	9653.35	9683.24	9713.13	9743.02	9772.91	9802.80	9832.69	9862.58	9892.47	9922.36	9952.25	9982.14	10012.03	10041.92	10071.81	10101.70	10131.59	10161.48	10191.37	10221.26	10251.15	10281.04	10310.93	10340.82	10370.71	10400.60	10430.49	10460.38	10490.27	10520.16	10550.05	10579.94	10609.83	10639.72	10669.61	10699.50	10729.39	10759.28	10789.17	10819.06	10848.95	10878.84	10908.73	10938.62	10968.51	10998.40	11028.29	11058.18	11088.07	11117.96	11147.85	11177.74	11207.63	11237.52	11267.41	11297.30	11327.19	11357.08	11386.97	11416.86	11446.75	11476.64	11506.53	11536.42	11566.31	11596.20	11626.09	11655.98	11685.87	11715.76	11745.65	11775.54	11805.43	11835.32	11865.21	11895.10	11925.00	11954.89	11984.78	12014.67	12044.56	12074.45	12104.34	12134.23	12164.12	12194.01	12223.90	12253.79	12283.68	12313.57	12343.46	12373.35	12403.24	12433.13	12463.02	12492.91	12522.80	12552.69	12582.58	12612.47	12642.36	12672.25	12702.14	12732.03	12761.92	12791.81	12821.70	12851.59	12881.48	12911.37	12941.26	12971.15	13001.04	13030.93	13060.82	13090.71	13120.60	13150.49	13180.38	13210.27	13240.16	13270.05	13300.00
REDUCED LEVEL	78.97	118.42	148.31	178.20	208.09	237.98	267.87	297.76	327.65	357.54	387.43	417.32	447.21	477.10	506.99	536.88	566.77	596.66	626.55	656.44	686.33	716.22	746.11	776.00	805.89	835.78	865.67	895.56	925.45	955.34	985.23	1015.12	1045.01	1074.90	1104.79	1134.68	1164.57	1194.46	1224.35	1254.24	1284.13	1314.02	1343.91	1373.80	1403.69	1433.58	1463.47	1493.36	1523.25	1553.14	1583.03	1612.92	1642.81	1672.70	1702.59	1732.48	1762.37	1792.26	1822.15	1852.04	1881.93	1911.82	1941.71	1971.60	2001.49	2031.38	2061.27	2091.16	2121.05	2150.94	2180.83	2210.72	2240.61	2270.50	2300.39	2330.28	2360.17	2390.06	2419.95	2449.84	2479.73	2509.62	2539.51	2569.40	2599.29	2629.18	2659.07	2688.96	2718.85	2748.74	2778.63	2808.52	2838.41	2868.30	2898.19	2928.08	2957.97	2987.86	3017.75	3047.64	3077.53	3107.42	3137.31	3167.20	3197.09	3226.98	3256.87	3286.76	3316.65	3346.54	3376.43	3406.32	3436.21	3466.10	3495.99	3525.88	3555.77	3585.66	3615.55	3645.44	3675.33	3705.22	3735.11	3765.00	3794.89	3824.78	3854.67	3884.56	3914.45	3944.34	3974.23	4004.12	4034.01	4063.90	4093.79	4123.68	4153.57	4183.46	4213.35	4243.24	4273.13	4303.02	4332.91	4362.80	4392.69	4422.58	4452.47	4482.36	4512.25	4542.14	4572.03	4601.92	4631.81	4661.70	4691.59	4721.48	4751.37	4781.26	4811.15	4841.04	4870.93	4900.82	4930.71	4960.60	4990.49	5020.38	5050.27	5080.16	5110.05	5139.94	5169.83	5199.72	5229.61	5259.50	5289.39	5319.28	5349.17	5379.06	5408.95	5438.84	5468.73	5498.62	5528.51	5558.40	5588.29	5618.18	5648.07	5677.96	5707.85	5737.74	5767.63	5797.52	5827.41	5857.30	5887.19	5917.08	5946.97	5976.86	6006.75	6036.64	6066.53	6096.42	6126.31	6156.20	6186.09	6215.98	6245.87	6275.76	6305.65	6335.54	6365.43	6395.32	6425.21	6455.10	6485.00	6514.89	6544.78	6574.67	6604.56	6634.45	6664.34	6694.23	6724.12	6754.01	6783.90	6813.79	6843.68	6873.57	6903.46	6933.35	6963.24	6993.13	7023.02	7052.91	7082.80	7112.69	7142.58	7172.47	7202.36	7232.25	7262.14	7292.03	7321.92	7351.81	7381.70	7411.59	7441.48	7471.37	7501.26	7531.15	7561.04	7590.93	7620.82	7650.71	7680.60	7710.49	7740.38	7770.27	7800.16	7830.05	7859.94	7889.83	7919.72	7949.61	7979.50	8009.39	8039.28	8069.17	8099.06	8128.95	8158.84	8188.73	8218.62	8248.51	8278.40	8308.29	8338.18	8368.07	8397.96	8427.85	8457.74	8487.63	8517.52	8547.41	8577.30	8607.19	8637.08	8666.97	8696.86	8726.75	8756.64	8786.53	8816.42	8846.31	8876.20	8906.09	8935.98	8965.87	8995.76	9025.65	9055.54	9085.43	9115.32	9145.21	9175.10	9205.00	9234.89	9264.78	9294.67	9324.56	9354.45	9384.34	9414.23	9444.12	9474.01	9503.90	9533.79	9563.68	9593.57	9623.46	9653.35	9683.24	9713.13	9743.02	9772.91	9802.80	9832.69	9862.58	9892.47	9922.36	9952.25	9982.14	10012.03	10041.92	10071.81	10101.70	10131.59	10161.48	10191.37	10221.26	10251.15	10281.04	10310.93	10340.82	10370.71	10400.60	10430.49	10460.38	10490.27	10520.16	10550.05	10579.94	10609.83	10639.72	10669.61	10699.50	10729.39	10759.28	10789.17	10819.06	10848.95	10878.84	10908.73	10938.62	10968.51	10998.40	11028.29	11058.18	11088.07	11117.96	11147.85	11177.74	11207.63	11237.52	11267.41	11297.30	11327.19	11357.08	11386.97	11416.86	11446.75	11476.64	11506.53	11536.42	11566.31	11596.20	11626.09	11655.98	11685.87	11715.76	11745.65	11775.54	11805.43	11835.32	11865.21	11895.10	11925.00	11954.89	11984.78	12014.67	12044.56	12074.45	12104.34	12134.23	12164.12	12194.01	12223.90	12253.79	12283.68	12313.57	12343.46	12373.35	12403.24	12433.13	12463.02	12492.91	12522.80	12552.69	12582.58	12612.47	12642.36	12672.25	12702.14	12732.03	12761.92	12791.81	12821.70	12851.59	12881.48	12911.37	12941.26	12971.15	13001.04	13030.93	13060.82	13090.71	13120.60	13150.49	13180.38	13210.27	13240.16	13270.05	13300.00

67-477 3871
MT. COSTIGAN MINES, KING ISLAND.
 162023

**COWPER POINT
 NARACOOPA**
BORE LINE 130 N
 2900 to 6300
LONGITUDINAL SECTION



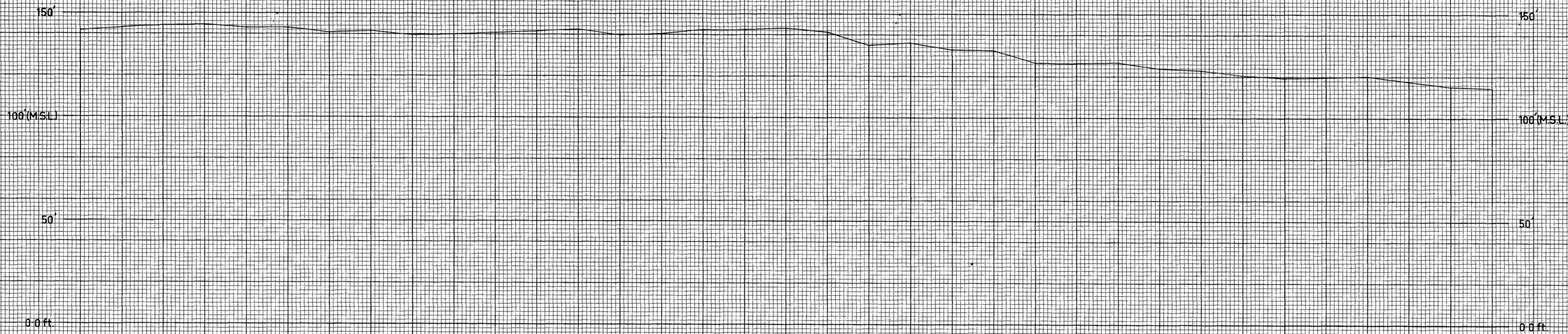
HOLE NUMBER	62 E	63 E	64 E	65 E	66 E	67 E	68 E	69 E	70 E	71 E	72 E	73 E	74 E	75 E	76 E
DISTANCE IN FT.	6430	6500	6570	6640	6710	6780	6850	6920	6990	7060	7130	7200	7270	7340	7410
REDUCED LEVEL	144.51	145.68	145.58	144.51	143.96	143.12	138.01	138.04	137.74	136.13	135.18	134.56	132.68	132.04	130.42

61-477 3372
 MT. COSTIGAN MINES, KING ISLAND.
 162026

COWPER POINT
NARACOOPA
 BORE LINE 130 N
 6200 to 7600
 LONGITUDINAL SECTION

SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"
 PLATE XVIII
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



BORE NUMBER	00	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	
DISTANCE IN FT	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	
REDUCED LEVEL	145	145	144	144	143	143	142	142	141	141	140	140	139	139	138	138	137	137	136	136	135	135	134	134	133	133	132	132	131	131	130	130	129	129	128	128

61-477 3373
 MT. COSTIGAN MINES, KING ISLAND.
 16202'

**COWPER POINT
 NARACOOPA
 BORE LINE 140 N
 00 to 3400**

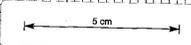
LONGITUDINAL SECTION

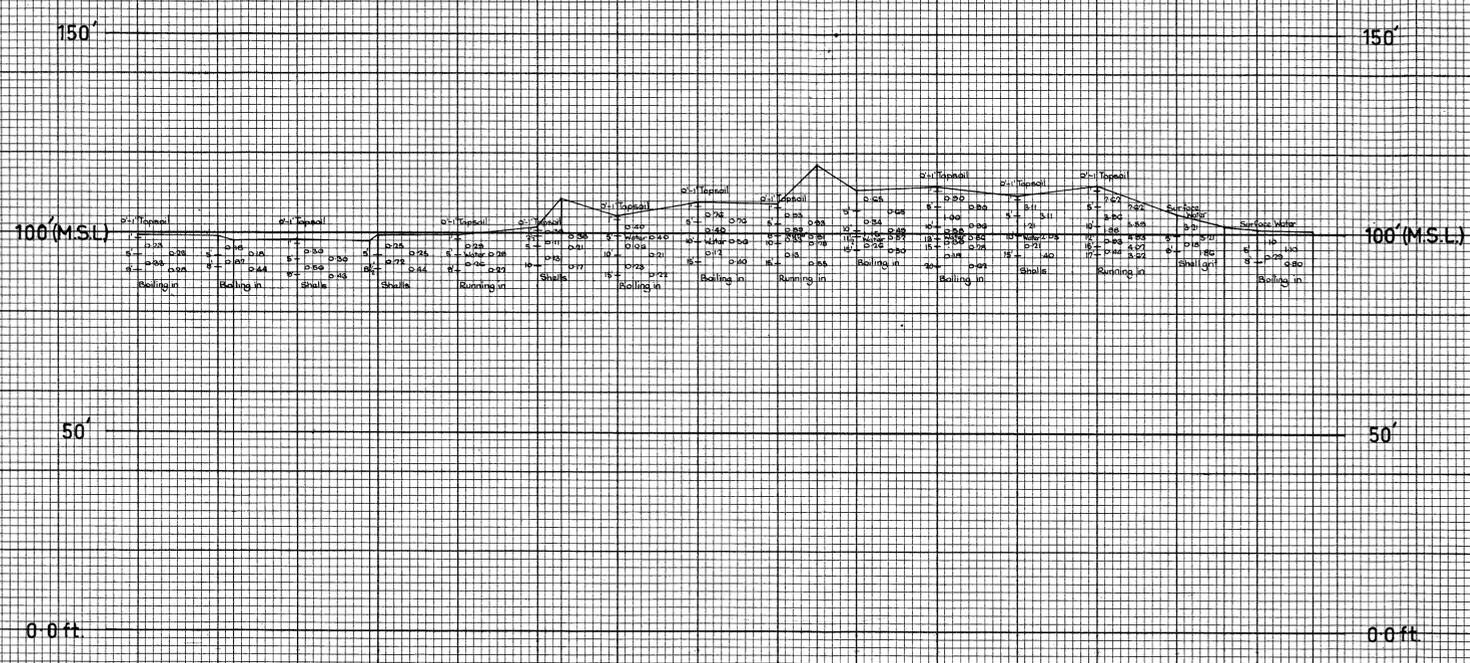
KENNETH McMAHON & PARTNERS PTY. LTD.

SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"

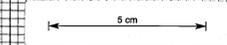
PLATE XIX

JAN - FEB 1967





HOLE NUMBER	68E	69E	70E	71E	72E	73E	74E	75E	76E	77E	78E	79E	80E	81E	82E
DISTANCE IN FT	0	20.0	40.0	60.0	80.0	100.0	120.0	140.0	160.0	180.0	200.0	220.0	240.0	260.0	280.0
REDUCED LEVEL	98.4	98.2	98.0	97.8	97.6	97.4	97.2	97.0	96.8	96.6	96.4	96.2	96.0	95.8	95.6



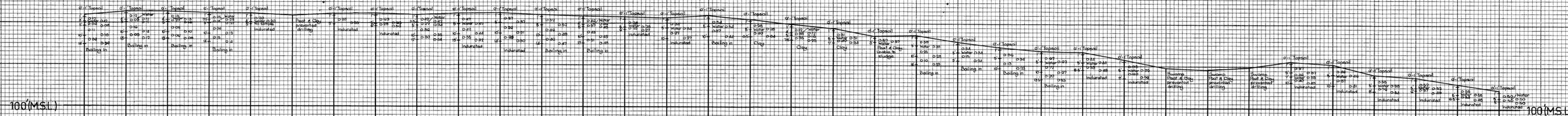
67-477 3881
 MT. COSTIGAN MINES, KING ISLAND.
 162035

COWPER POINT
NARACOOPA
BORE LINE 160 N
6800 to 8270
LONGITUDINAL SECTION

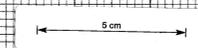
SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE XXVII
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
DISTANCE IN FT	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400
REDUCED LEVEL	145.74	145.90	145.56	144.62	144.87	144.62	144.52	144.52	144.38	144.52	145.10	143.57	143.57	142.81	142.46	142.61	139.64	137.77	136.00	134.36	132.36	130.89	129.65	128.38	127.22	126.45	125.54	124.51	123.51	122.51	121.51	120.51	119.51	118.51	117.51



67-477 3382
 MT. COSTIGAN MINES, KING ISLAND.
 162036

**COWPER POINT
 NARACOOPA**

BORE LINE 170 N
 00 to 3400

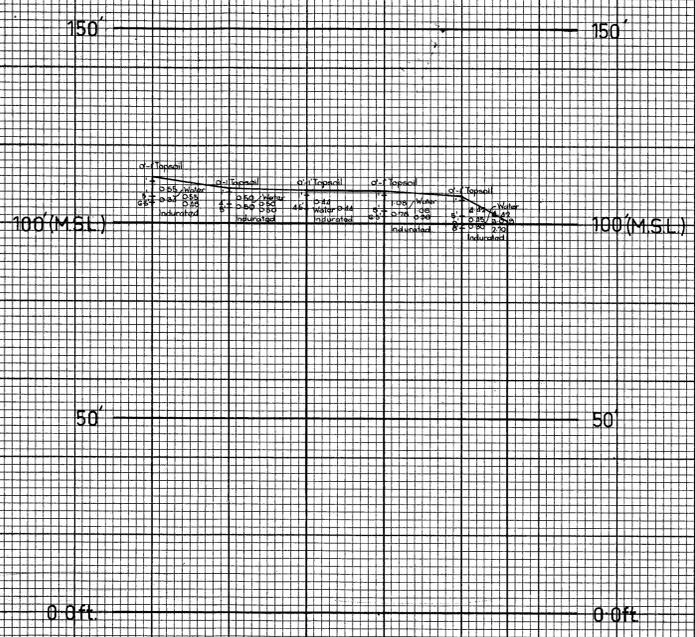
LONGITUDINAL SECTION

KENNETH McMAHON & PARTNERS PTY. LTD.

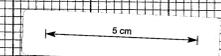
SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"

PLATE XXVIII

JAN - FEB 1967



HOLE NUMBER	33 E	34 E	35 E	36 E	37 E	38 E
DISTANCE IN FT.	600E	200E	200E	500E	200E	200E
REDUCED LEVEL	14.70	17.50	17.50	18.50	17.50	17.50



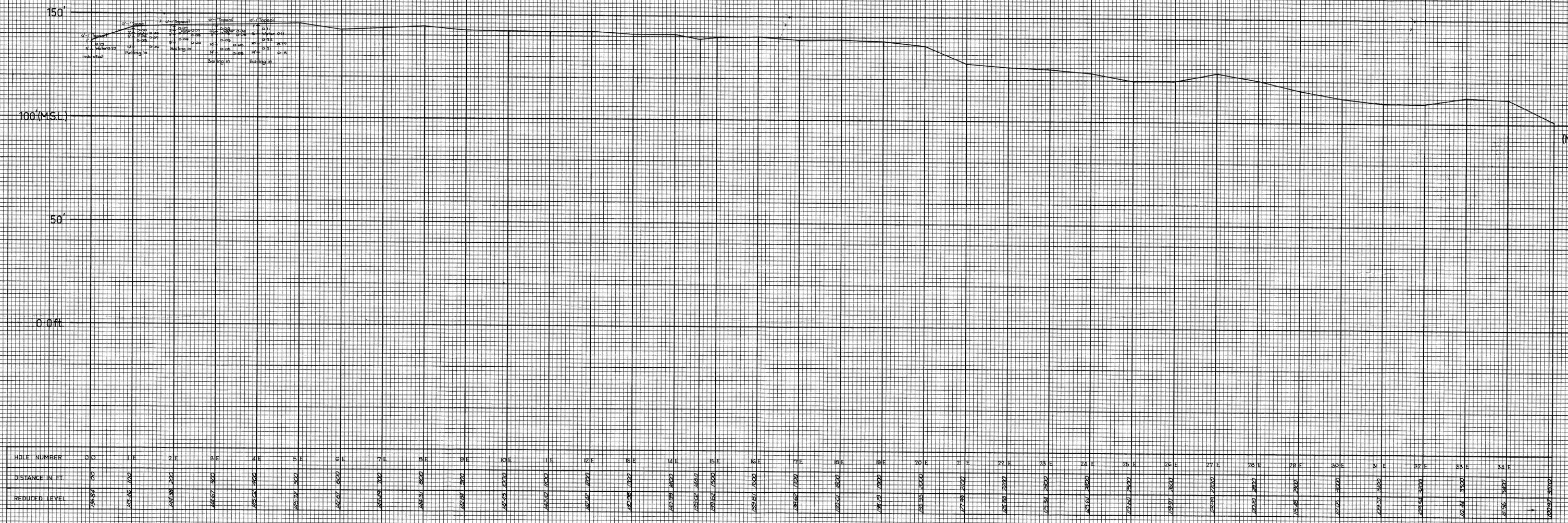
67-477 3333
 MT. COSTIGAN MINES, KING ISLAND.
 162037

COWPER POINT
NARACOOPA
BORE LINE 170 N
 3300 to 3760
 LONGITUDINAL SECTION

SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"

PLATE XXIX
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



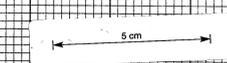
67-477 3884
 MT. COSTIGAN MINES KING ISLAND.
 182038

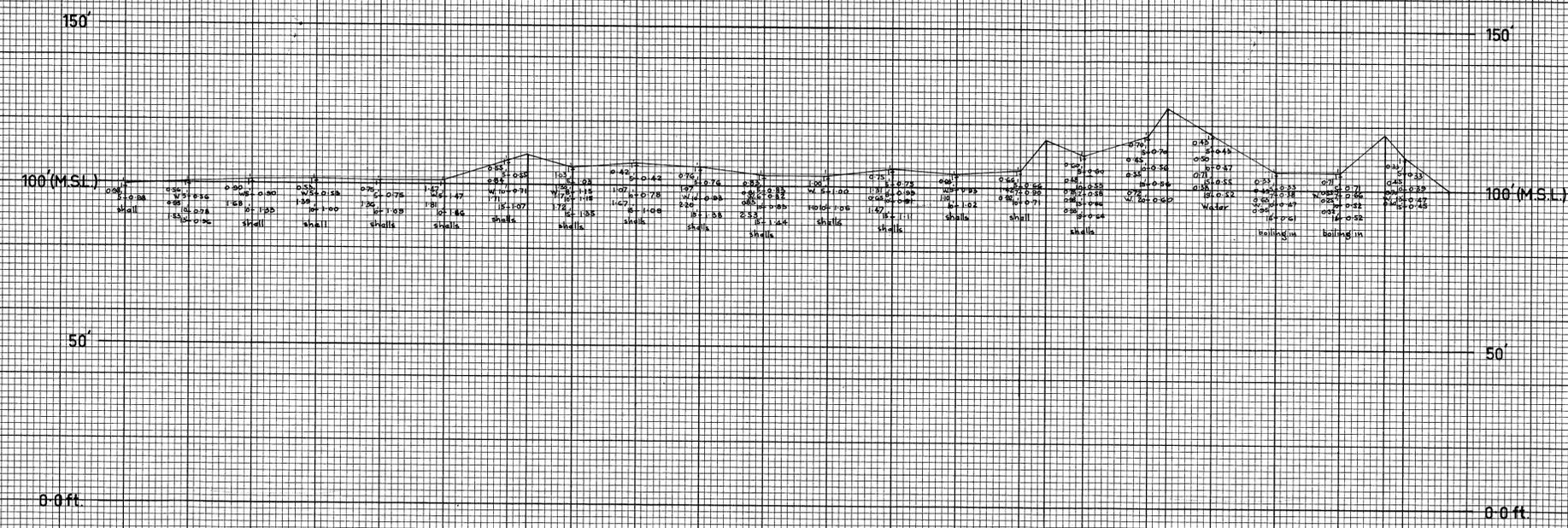
**COWPER POINT
 NARACOOPA**
 BORE LINE 180 N
 00 to 3510
 LONGITUDINAL SECTION

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE XXX
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.





BORE NUMBER	3470	3515	3560	3710	3860	3910	4060	4110	4260	4410	4560	4710	4860	5010	5160	5310	5470
DISTANCE IN FT	3470	3515	3560	3710	3860	3910	4060	4110	4260	4410	4560	4710	4860	5010	5160	5310	5470
REDUCED LEVEL	70.7	70.3	70.2	70.5	70.3	70.2	70.7	70.3	70.0	69.0	68.3	68.7	69.5	70.5	70.7	70.3	69.0

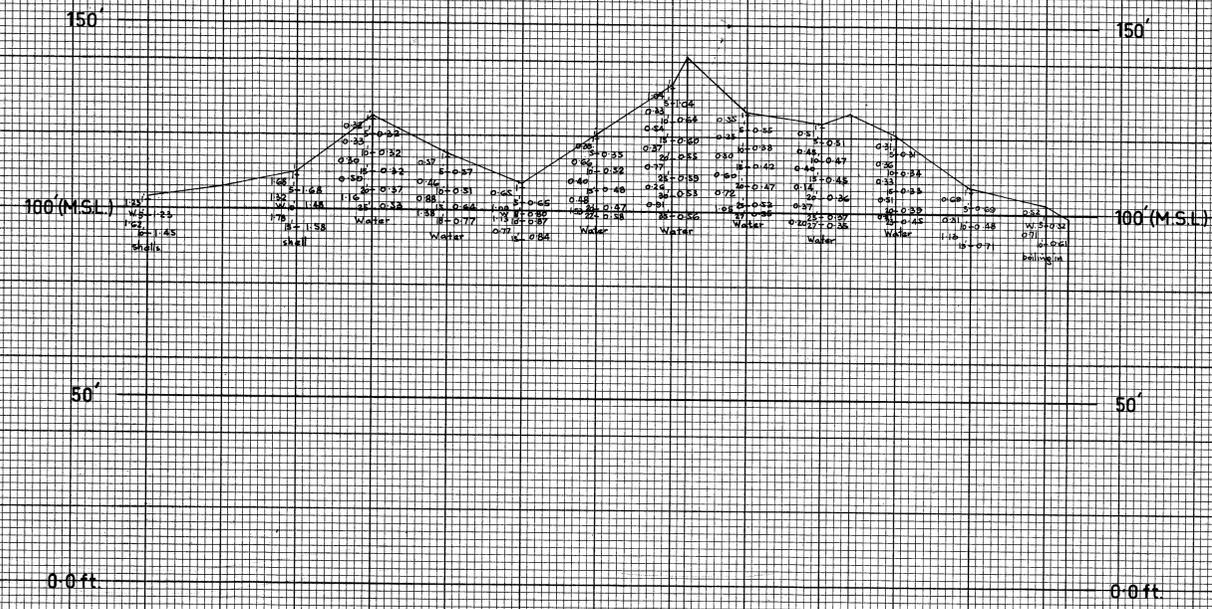
67-477 3886
 MT. COSTIGAN MINES, KING ISLAND.
 162040

**COWPER POINT
 NARACOOPA**
 BORE LINE 190 N
 3400 to 5470
 LONGITUDINAL SECTION

SCALE:
 Horizontal: 100' to 1"
 Vertical: 20' to 1"

PLATE XXXII
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	34 E	35 E	36 E	37 E	38 E	39 E	40 E	41 E	42 E	43 E	44 E	45 E	46 E
DISTANCE IN FT	103.1	1080.0	1710.2	2265.3	2785.0	3270.0	3820.0	4340.0	4840.0	5320.0	5780.0	6220.0	6630.0
REDUCED LEVEL	103.1	1080.0	1710.2	2265.3	2785.0	3270.0	3820.0	4340.0	4840.0	5320.0	5780.0	6220.0	6630.0



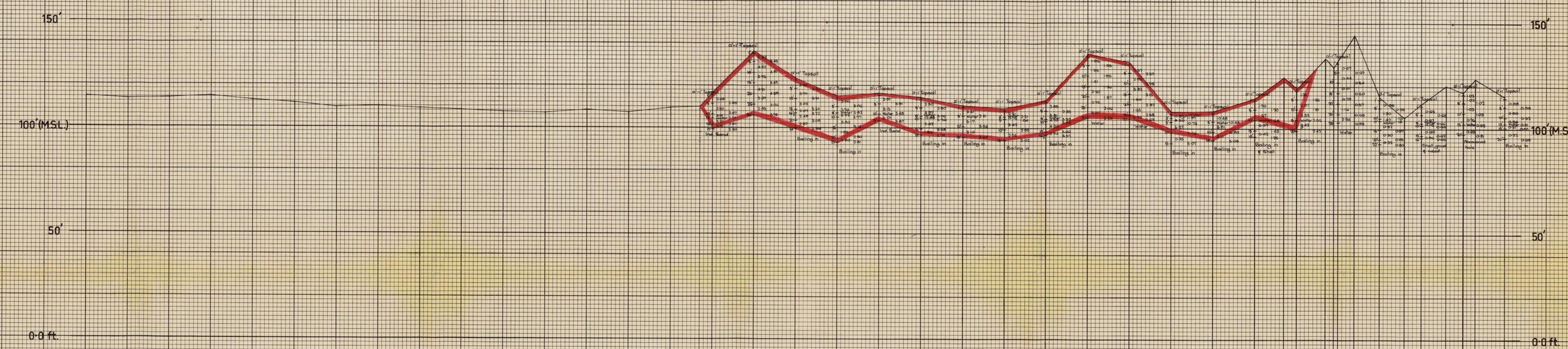
67-47 3888
 MT. COSTIGAN MINES, KING ISLAND.
 162042

COWPER POINT
 NARACOOPA
 BORE LINE 210 N
 3400 to 4630
 LONGITUDINAL SECTION

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE XXXIV
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	34 E	35 E	36 E	37 E	38 E	40 E	41 E	42 E	43 E	44 E	45 E	46 E	47 E	48 E	49 E	50 E	51 E	52 E	53 E	54 E	55 E	56 E	57 E	58 E	60 E	61 E	62 E	63 E	64 E	65 E	66 E	67 E	68 E	
DISTANCE IN FT.	3400	3500	3600	3700	3800	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	5600	5700	5800	6000	6100	6200	6300	6400	6500	6600	6700	6800	
REDUCED LEVEL	112.2	113.2	113.8	114.6	115.7	116.4	117.0	117.5	118.5	119.1	120.0	120.5	121.5	122.7	123.8	124.2	125.7	126.2	126.7	127.1	128.5	129.5	130.5	131.5	132.5	133.7	134.4	135.5	136.2	137.2	138.2	139.2	140.2	141.2

67-477 3874
 MT. COSTIGAN MINES, KING ISLAND.
 162025

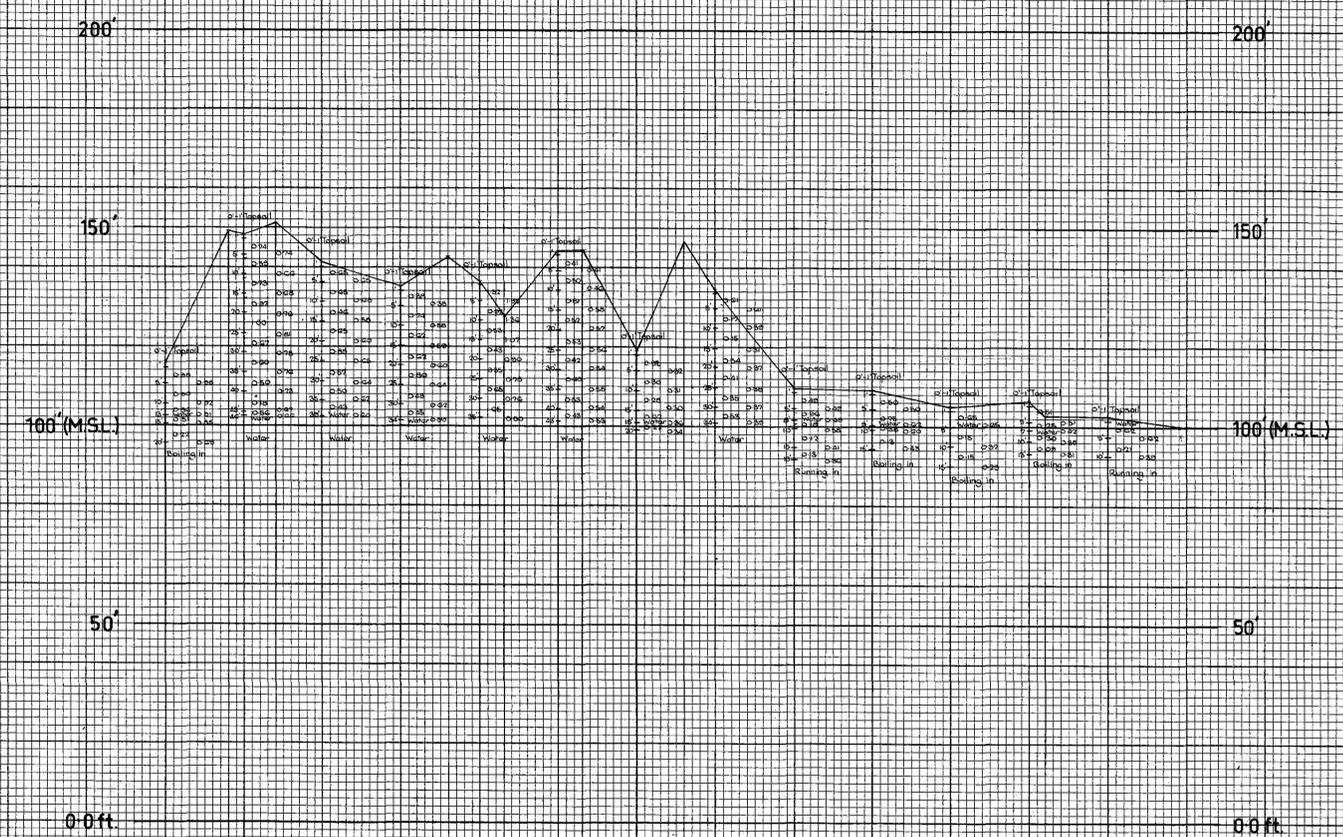
**COWPER POINT
 NARACOOPA
 BORE LINE 140 N
 3400 to 6800
 LONGITUDINAL SECTION**

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

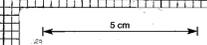
PLATE XX
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.





HOLE NUMBER	60'E	60'E	70'E	71'E	72'E	73'E	74'E	75'E	76'E	77'E	78'E	79'E	80'E	81'E
DISTANCE IN FT	6800	6840	6880	6920	6960	7000	7040	7080	7120	7160	7200	7240	7280	7320
REDUCED LEVEL	77.8	78.2	78.6	79.0	79.4	79.8	80.2	80.6	81.0	81.4	81.8	82.2	82.6	83.0



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MT. COSTIGAN MINES KING ISLAND
162029

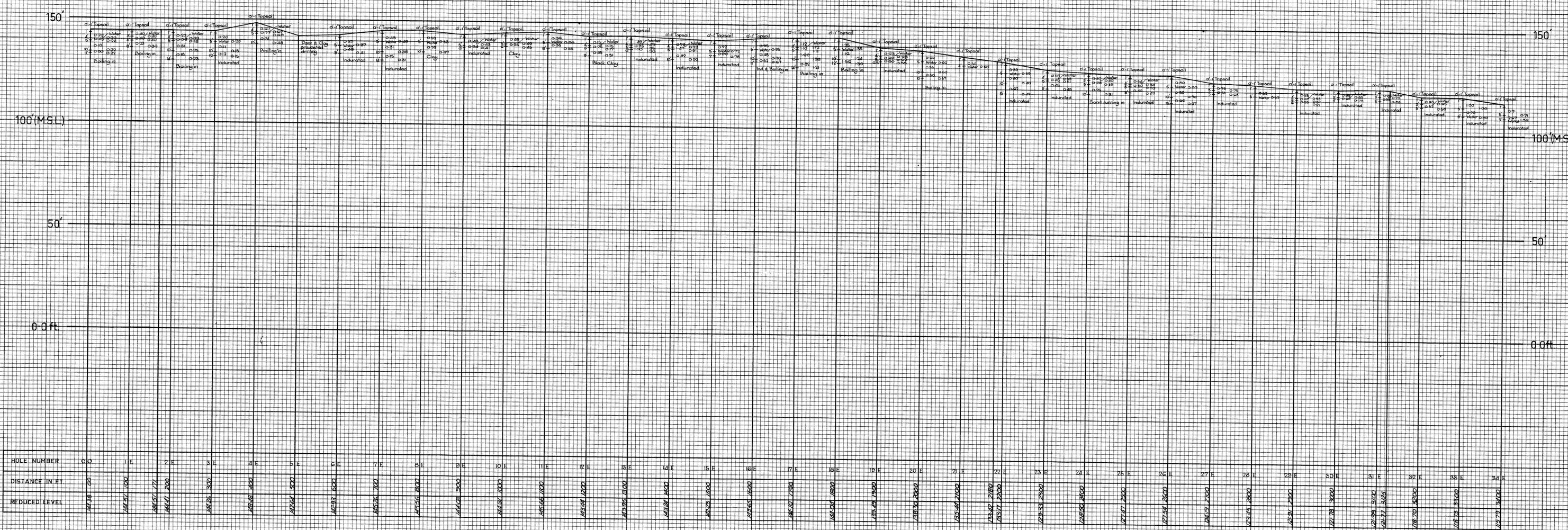
COWPER POINT
NARACOOPA
BORE LINE 140 N
6800 to 8100
LONGITUDINAL SECTION

SCALE:
Horizontal: 100' to 1"
Vertical: 20' to 1"

PLATE XXI

JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.



HOLE NUMBER	00	01E	02E	03E	04E	05E	06E	07E	08E	09E	10E	11E	12E	13E	14E	15E	16E	17E	18E	19E	20E	21E	22E	23E	24E	25E	26E	27E	28E	29E	30E	31E	32E	33E	34E			
DISTANCE IN FT	0	100	171	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400		
REDUCED LEVEL	147.28	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51	146.51

3876
MT. COSTIGAN MINES, KING ISLAND.
162030

67-477

**COWPER POINT
NARACOOPA**

**BORE LINE 150 N
00 to 3400**

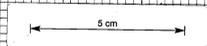
LONGITUDINAL SECTION

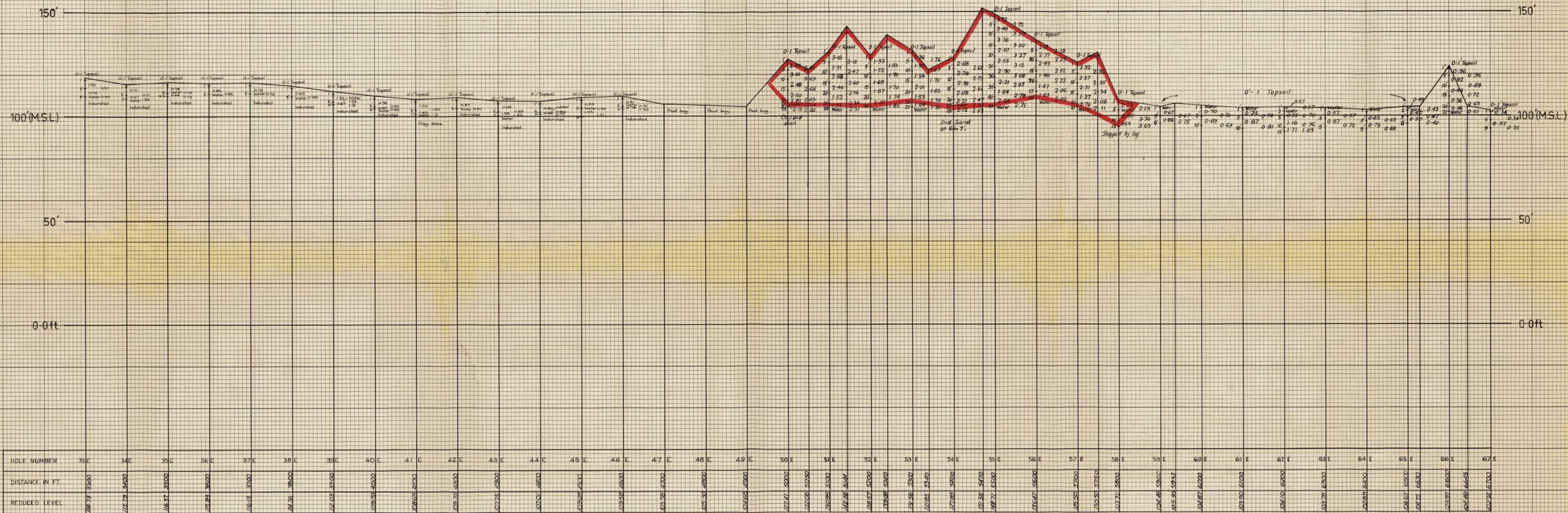
KENNETH McMAHON & PARTNERS PTY. LTD.

SCALE:
Horizontal : 100' to 1"
Vertical : 20 to 1

PLATE XXII

JAN - FEB 1967





3877
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 MT. COSTIGAN MINES, KING ISLAND.
 162031

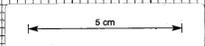
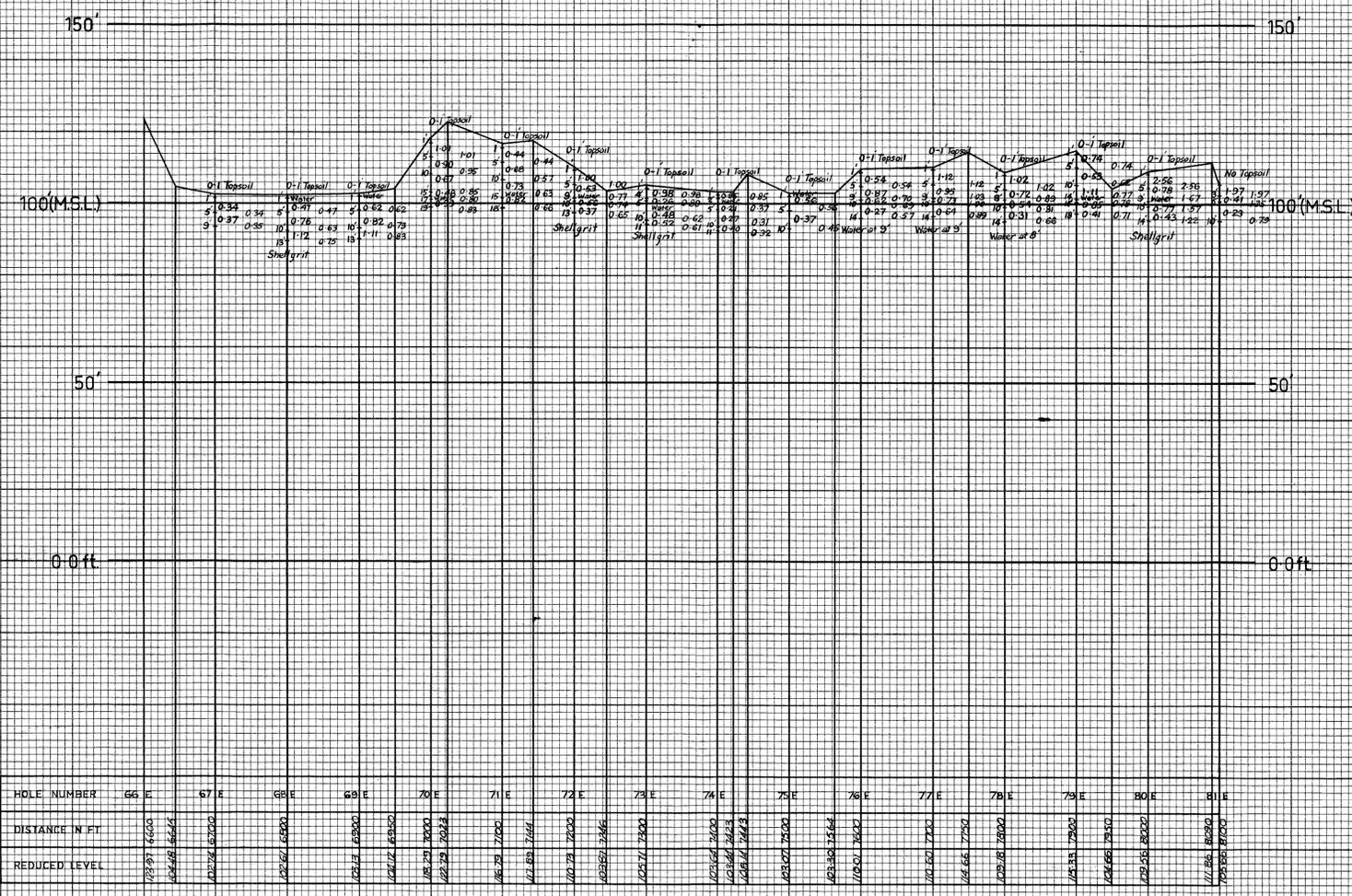
COWPER POINT
 NARACOOPA
 BORE LINE 150N
 3300 to 6700
 LONGITUDINAL SECTION

SCALE:
 Horizontal: 100 to 1'
 Vertical: 20 to 1'

PLATE XXIII
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.





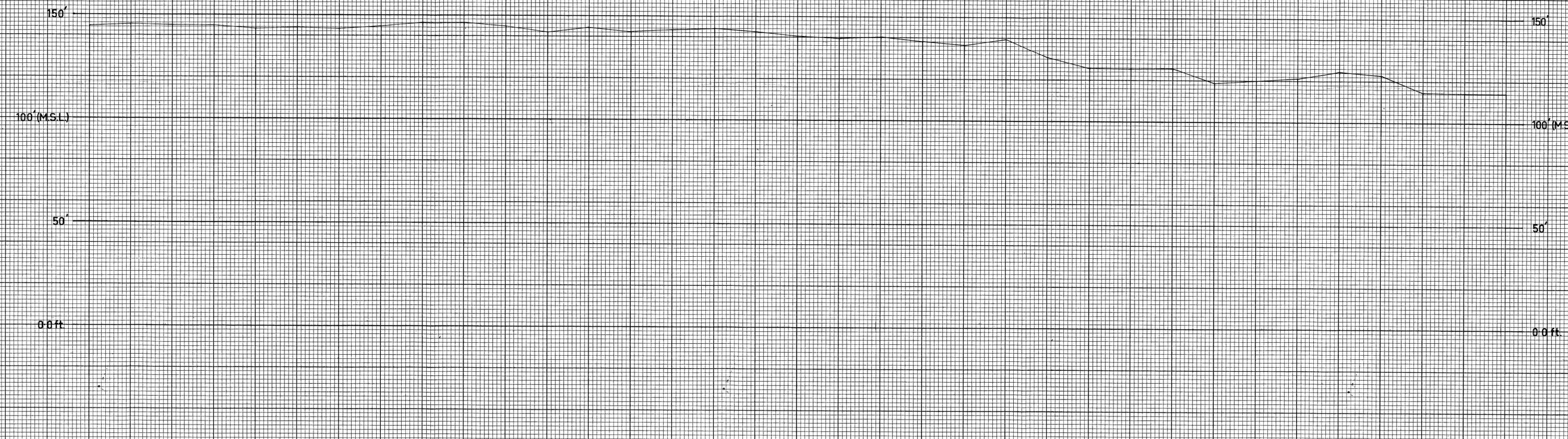
67-477 3878
MT. COSTIGAN MINES, KING ISLAND.
 162032

COWPER POINT
NARACOOPA
BORE LINE 150N
 6600 to 8100
LONGITUDINAL SECTION

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"

PLATE XXIV
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.

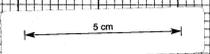


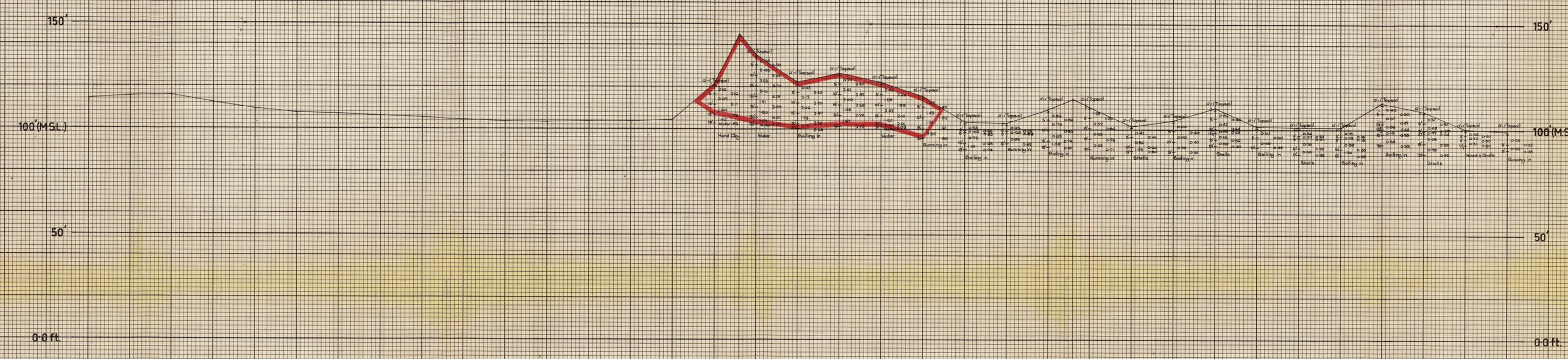
HOLE NUMBER	00	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400
DISTANCE IN FT.	00	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400
REDUCED LEVEL	144.2	145.5	144.3	144.6	143.2	143.3	145.3	146.7	146.2	144.3	142.8	144.7	142.3	143.2	144.2	146.5	146.3	149.4	147.7	149.4	148.7	148.8	148.4	148.3	145.3	145.3	145.0	143.8	144.0	144.0	142.5	142.5	141.3	141.5	141.7

67-477 3879
 1020.33
 MT. COSTIGAN MINES, KING ISLAND.

**COWPER POINT
 NARACOOPA
 BORE LINE 160 N
 00 to 3400
 LONGITUDINAL SECTION**

SCALE:
 Horizontal : 100' to 1"
 Vertical : 20' to 1"
 PLATE XXV
 JAN - FEB 1967
 KENNETH McMAHON & PARTNERS PTY. LTD.





HOLE NUMBER	34E	35E	36E	37E	38E	39E	40E	41E	42E	43E	44E	45E	46E	47E	48E	49E	50E	51E	52E	53E	54E	55E	56E	57E	58E	59E	60E	61E	62E	63E	64E	65E	66E	67E	68E
DISTANCE IN FT.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
REDUCED LEVEL	144.7	145.3	145.9	146.5	147.1	147.7	148.3	148.9	149.5	150.1	150.7	151.3	151.9	152.5	153.1	153.7	154.3	154.9	155.5	156.1	156.7	157.3	157.9	158.5	159.1	159.7	160.3	160.9	161.5	162.1	162.7	163.3	163.9	164.5	165.1

67-477
 3880
 MT. COSTIGAN MINES, KING ISLAND.
 162004

COWPER POINT
NARACOOPA
BORE LINE 160N
3400 to 6800
LONGITUDINAL SECTION

SCALE:
 Horizontal : 100 to 1"
 Vertical : 20 to 1"

PLATE XXVI
 JAN - FEB 1967

KENNETH McMAHON & PARTNERS PTY. LTD.

