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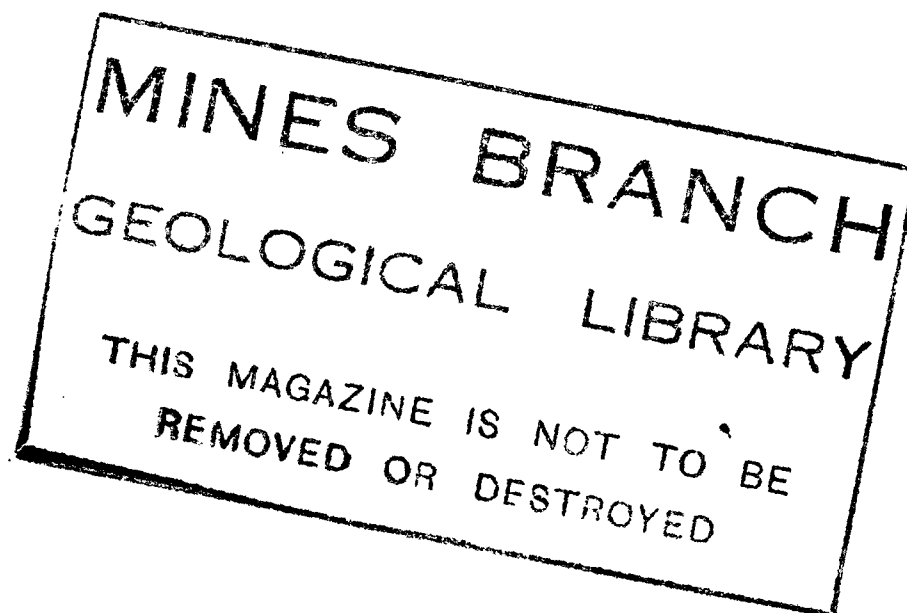
IMC DEVELOPMENT CORPORATION

ANNUAL REPORT - P.A. 2161 (WONARAH)
(Period: Aug.14, 1967-Dec.11, 1968)

The attached map shows the location of the 35 holes drilled on P.A. 2161 during the period of tenure. 3 holes were drilled in "open" ground to the west of the P.A.

The lithologic data, their stratigraphic interpretation and assay data, which are also attached, were previously described in monthly reports and partly in "Progress Report on Prospecting Authorities 1766, 1788, 1801, 1802 and 1897 in the Alexandria Region" by J. Barrie and submitted on April 5, 1968.

The latter report contains comprehensive data on the region which IMC Development Corporation is studying as a single unit rather than as individual Prospecting Authorities. A progress report to cover work completed during the past field season will be forthcoming in the near future.



LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W1	LOCATION	P.A. 2161	T.D	115'
Date Started	19/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	19/10/67	1: 250,000 SHEET (NAME & NUMBER)	Avon Downs SF53-4	Sheet..1.. of ..1..	

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 2½'	Sand.
2½- 10'	Sand with ironstone and sandstone pebbles laterite?
10 - 40'	Leached siltstone with chert (pelletal in part).
40 - 50'	Sandy siltstone silicified and micaeous in part.
50 - 62½'	Calcareous siltstone and purple limestone with chert.
62½-87½'	Silty limestone.
87½- 95'	Thin siltstone and limestone beds.
95 - 110'	Siltstone (carbonaceous) with chert at base.
110 - 115'	Dolomitic limestone.

Stratigraphic Interpretation

0 - 10'	Soil.
10 - 115'	Cambrian.

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
20 - 22½'	0.02	52½-55'	0.16
22½-25'	0.17	55 - 57½'	0.15
25 - 27½'	0.06	57½-60'	0.19
27½-30'	0.04	87½-90'	0.17
30 - 32½'	0.02	90 - 92½'	0.31
32½-35'	0.02	92½-95	0.34
35 - 37½'	0.01	95-97½'	0.35
37½-40'	0.04	97½-100'	0.42
40 - 42½'	0.17	100 - 102½'	0.65
42½-45'	0.02	102½-105'	0.64
45 - 47½'	0.02	112½- 115'	0.48
47½-50'	0.02		
50 - 52½'	0.28		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W2	LOCATION	P.A. 2161	T.D.	175'
Date Started	19/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	20/10/67	1: 250,000 SHEET	Alroy	Sheet...1.. of...1..	
		(NAME & NUMBER)	SE53-15		

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 10'	Sand and pebbles of sandstone and chert.			
10 - 162 $\frac{1}{2}$ '	Siltstone with varying amounts of chert (pelletal in parts).			
162 $\frac{1}{2}$ -175'	No sample returns.			
	<u>Stratigraphic Interpretation</u>			
0 - 10'	Soil.			
10 - 175'	Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	90 - 92 $\frac{1}{2}$ '	0.11	127 $\frac{1}{2}$ -130'	2.3
	92 $\frac{1}{2}$ - 95'	0.10	130 -132 $\frac{1}{2}$ '	3.4
	95 - 97 $\frac{1}{2}$ '	0.09	132 $\frac{1}{2}$ -135'	3.4
	97 $\frac{1}{2}$ -100'	0.19	135 -137 $\frac{1}{2}$ '	3.5
	100 -102 $\frac{1}{2}$ '	0.11	137 $\frac{1}{2}$ -140'	3.5
	102 $\frac{1}{2}$ -105'	0.20	140 -142 $\frac{1}{2}$ '	5.1
	105-107 $\frac{1}{2}$ '	0.15	142 $\frac{1}{2}$ -145'	3.9
	107 $\frac{1}{2}$ -110'	0.12	145 -147 $\frac{1}{2}$ '	21.3
	110 -112 $\frac{1}{2}$ '	0.14	147 $\frac{1}{2}$ -150'	19.5
	112 $\frac{1}{2}$ -115'	1.05	150 -152 $\frac{1}{2}$ '	13.4
	115 -117 $\frac{1}{2}$ '	1.35	152 $\frac{1}{2}$ -155'	17.3
	117 $\frac{1}{2}$ -120'	0.75	155 -157 $\frac{1}{2}$ '	26.4
	120 -122 $\frac{1}{2}$ '	1.10	157 $\frac{1}{2}$ -160'	22.1
	122 $\frac{1}{2}$ -125'	1.31	160 -162 $\frac{1}{2}$ '	16.5
	125 -127 $\frac{1}{2}$ '	2.2		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W3	LOCATION	P.A. 2161	T.D	91'
Date Started	20/10/67	Co-ordinates	See attached map		Elevation
Date Completed	20/10/67	1: 250,000 SHEET	Alroy		Sheet 1 of 1
		(NAME & NUMBER)	SE53-15		

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 3½'	Sand.			
3½-17½'	Chert in sandy matrix (Billy?).			
17½-59'	Siltstone with chert (Trilobite at 31').			
59 -81'	Limestone.			
81 -91'	Calcareous siltstone.			
	<u>Stratigraphic Interpretation</u>			
0 - 3½'	Soil.			
3½-91'	Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	20 - 22½'	0.04	50 - 52½'	0.14
	22½- 25'	0.09	52½- 55'	0.80
	25 - 27½'	0.09	55 - 57½'	1. 4
	27½-30'	0.16	57½- 60'	0. 7
	30 - 32½'	0.22	60 - 62½'	0.5
	32½- 35'	0.62	62½- 65'	0. 5
	35 - 37½'	0.56	65 - 67½'	0. 5
	37½- 40'	0.13	67½- 70'	0. 5
	40 - 42½'	0.14	70 - 72½'	0. 5
	42½- 45'	0.38	72½- 75'	0. 5
	45 - 47½'	0.30	75 - 77½'	0. 5
	47½- 50'	0.10	77½' 80'	0. 5

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W4	LOCATION P.A. 2161	T.D. 180'
Date Started 20/10/67	Co-ordinates See attached map	Elevation
Date Completed 21/10/67	1:250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet.....1 of.....1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 7½'	Red sand and ironstone pebbles.			
7½- 17½'	Sandy siltstone.			
17½- 52½'	Clayey quartz, sandstone.			
52½-180'	Siltstone and chert.			
	<u>Stratigraphic Interpretation</u>			
0 - 7½'	Soil.			
7½- 180'	Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	75 - 77½'	0.02	127½-130'	2. 2
	77½- 80'	0.07	130 -132½'	3. 9
	80 - 82½'	2. 9	132½-135'	5. 3
	82½- 85'	8. 3	135 -137½'	6. 6
	85 - 87½'	8. 3	137½-140'	5. 3
	87½- 90'	3. 5	140 -142½'	5. 0
	90 - 92½'	4. 7	142½-145'	5. 0
	92½- 95'	2. 0	145 -147½'	2. 5
	95 - 97½'	2. 0	147½-150'	3. 2
	97½-100'	1. 6	150 -152½'	2. 2
	100 -102½'	1. 4	152½-155'	1. 8
	102½-105'	1. 6	155 -157½'	1. 2
	105 -107½'	4. 5	157½-160'	2. 2
	107½-110'	5. 0	160 -162½'	2. 3
	110 -112½'	4. 8	162½-165'	3.22
	112½-115'	2. 9	165 -167½'	3.20
	115 -117½'	3. 2	167½-170'	3.27
	117½-120'	1. 4	170 -172½'	2.68
	120 -122½'	1. 6	172½-175'	2.88
	122½-125'	1. 0	175 -177½'	2.76
	125 - 127½'	2. 0	177½-180'	1.32

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W5	LOCATION	P.A. 2161	T.D	118'6"
Date Started	21/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	22/10/67	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 2½'	Red sand.
2½- 10'	Chalcedony minor ironstone and sand.
10 - 25'	Limestone and chalcedony.
25 - 82½'	Sandy siltstone.
82½- 97½'	Fine grained silty sandstone.
97½-112½'	Coarse sand (not quartz).
112½-118'	Purple dolomitic limestone.
<u>Stratigraphic Interpretation</u>	
0 - 10'	Soil.
10 -118'	Cambrian.
<u>Assay Data</u>	
Sample	% P ₂ O ₅
50 - 52½'	0.06
52½- 55'	0.04
70 - 72½'	0.12
72½- 75'	0.19
90 - 92½'	0.03
92½-95'	0.03
118 -118½'	0.16

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W6	LOCATION	P.A. 2161	T.D.	142'
Date Started	25/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	27/10/67	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet.....1 of 2....	

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 2½'	Sand.
2½- 15'	Travertine with sand at base.
15 -41½'	Calcareous clay.
41½- 57½'	Fine grained limestone.
57½- 72½'	Soft siltstone with some chert.
72½-142'	Limestone and dolomitic limestone.
<u>Stratigraphic Interpretation</u>	
0 - 2½'	Soil.
2½-142'	Cambrian.

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
10 - 12½'	0.04	47½- 50'	0.04
12½-15'	0.07	50 - 52½'	0.04
15 - 17½'	0.13	52½- 55'	0.07
17½- 20'	0.16	55 - 57½'	1.71
20 - 22½'	0.19	57½- 60'	1.55
22½- 25'	0.12	60 - 62½'	1.04
25 - 27½'	0.11	62½- 65'	1.13
27½- 30'	0.07	65 - 67½'	3.01
30 - 32½'	0.07	67½- 70'	1.89
32½- 35'	0.04	70 - 72½'	0.97
35 - 37½'	0.05	72½- 75'	0.54
37½- 40'	0.04	75 - 77½'	0.33
40 - 42½'	0.05	77½- 80'	0.37
42½- 45'	0.04	80 - 82½'	0.32
45 - 47½'	0.05	82½- 85'	0.35

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W6	LOCATION P.A. 2161	T.D 142'
Date Started 25/10/67	Co-ordinates See attached map	Elevation
Date Completed 27/10/67	1: 250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet...2 of 2...

INTERVAL	LITHOLOGIC DESCRIPTION			
	<u>Assay Data (Cont'd)</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	85 - 87½'	1.31	115 - 117½'	0.53
	87½ - 90'	0.64	117½ - 120'	0.48
	90 - 92½'	0.43	120 - 122½'	0.47
	95 - 97½'	0.43	122½ - 125'	0.42
	97½ - 100'	0.86	125 - 127½'	0.40
	100 - 102½'	0.86	127½ - 130'	0.52
	102½ - 105'	0.90	130 - 132½'	1.18
	105 - 107½'	0.74	132½ - 135'	0.13
	107½ - 110'	0.62	135 - 137½'	1.68
	110 - 112½'	0.59	137½ - 140'	1.12
	112½ - 115'	0.38	140 - 142½'	1.18

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W7	LOCATION	P.A. 2161	T.D.	50'
Date Started	27/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	27/10/67	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 2½'	Calcareous soil.			
2½- 15'	Travertine interbedded with clay chert variable.			
15 - 37½'	Silt and clay with chert.			
37½- 50'	Limestone and dolomitic limestone.			
	<u>Stratigraphic Interpretation</u>			
0 - 2½'	Soil.			
2½- 50'	Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	20 - 22½'	0.13	35 - 37½'	0.73
	22½- 25'	0.20	37½- 40'	1.60
	25 - 27½'	0.67	40 - 42½'	1.09
	27½- 30'	3.13	42½- 45'	0.95
	30 - 32½'	2.51	45 - 47½'	1.18
	32½- 35'	0.91	47½- 50'	1.15

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W8	LOCATION	P.A. 2161	T.D	147'6"
Date Started	27/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	27/10/67	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 2½'	Soil with chert rubble.			
2½- 22½'	Clay.			
22½- 35'	Silty sandstone chert at base.			
35 -140'	Sandy siltstone with varying chert towards the base, chert black in places.			
140 -147½'	Dolomitic limestone.			
<u>Stratigraphic Interpretation</u>				
0 - 2½'	Soil.			
2½-147½'	Cambrian.			
<u>Assay Data</u>				
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	60 - 62½'	< 0.5	105 -107½'	1.8
	62½- 65'	< 0.5	107½-110'	1.0
	65 - 67½'	2.2.	110 -112½'	1.6
	67½- 70'	2.4	112½-115'	2.0
	70 - 72½'	1.2	115 -117½'	4.5
	72½- 75'	2.2	117½-120'	4.5
	75 - 77½'	0.6	120 -122½'	2.6
	77½- 80'	1.0	122½-125'	1.2
	80 - 82½'	1.2	125 -127½'	1.2
	82½- 85'	1.4	127½-130'	1.0
	85 - 87½'	3.6	130 -132½'	2.4
	87½- 90'	2.6	132½-135'	2.9
	90 - 92½'	2.0	135 -137½'	0.8
	92½- 95'	1.4	137½-140'	1.8
	95 - 97½'	1.2	140 -142½'	0.6
	97½-100'	1.0	142½-145'	0.6
	100 - 102½'	1.0	145 -147½'	0.5
	102½-105'	1.4		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W9	LOCATION	P.A. 2161	T.D	172'6"
Date Started	28/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	28/10/67	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 5'	Blacksoil.
5 - 27½'	Red brown clay.
27½- 45'	Silty sandstone.
45 -127½'	Siltstone, sandy in part and slightly calcareous in part with minor amounts of black chert.
127½-135'	Clayey sand.
135 -142½'	Sandy clay,
142½-160'	Clayey sandstone with chert.
160 -172½'	Calcareous siltstone, dolomitic limestone and chert.
	<u>Stratigraphic Interpretation</u>
0 - 5'	Soil.
5 -172½'	Cambrian.
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W10	LOCATION	P.A. 2161	T.D	125'
Date Started	28/10/67	Co-ordinates	See attached map	Elevation	
Date Completed	28/10/67	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet..1.. of ..1..	

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 7½'	Clay and soil.
7½- 15'	Gypsum.
15 - 20'	Sandstone with minor chert.
20 - 60'	Pale yellow siltstone.
60 - 75'	Interbedded siltstone and sandstone.
75 - 90'	Siltstone and chert.
90 -102½'	Interbedded sandstone and siltstone with chert.
102½-125'	Clay with minor chert, very moist.
	<u>Stratigraphic Interpretation</u>
0 - 7½'	Soil.
7½- 15'	Caniozoic ?
15 -125'	Cambrian.
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W11	LOCATION	P.A. 2161	T.D.	90'
Date Started	1/11/67	Co-ordinates	See attached map	Elevation	
Date Completed	1/11/67	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 2½'	Clay, clayey soil.			
2½- 40'	Clay with gypsum.			
40 - 85'	Slightly calcareous siltstone, clayey in parts.			
85 - 90'	Limestone.			
<u>Stratigraphic Interpretation</u>				
0 - 2½'	Soil.			
2½- 40'	Cariozoic ?			
40 - 90'	Cambrian.			
<u>Assay Data</u>				
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	35 - 37½'	0.04	47½- 50'	0.14
	37½- 40'	0.14	50 - 52½'	0.06
	40 - 42½'	0.17	52½- 55'	0.07
	42½- 45'	0.12	55 - 57½'	0.12
	45 - 47½'	0.12	57½- 60'	0.19

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W12	LOCATION	P.A. 2161	T.D	102'6"
Date Started	2/11/67	Co-ordinates	See attached map	Elevation	
Date Completed	2/11/67	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 7½'	Sand and chert rubble.
7½- 15'	Calcareous siltstone and chert.
15 - 30'	Silicified siltstone with iron rich bands and chert.
30 - 47½'	Calcareous siltstone with chert.
47½- 55'	Interbedded siltstone and limestone.
55 - 62½'	Siltstone.
62½- 76'	Dolomitic limestone.
76 - 97½'	Fine and coarse grained sandstone with minor chert.
97½-102½'	Dolomitic limestone.
<u>Stratigraphic Interpretation</u>	
0 - 7½'	Soil.
7½-102½'	Cambrian.
<u>Assay Data</u>	
Sample	% P ₂ O ₅
40 - 42½'	0.07
42½- 45'	0.09
45 - 47½'	0.09
47½- 50'	0.08
50 - 52½'	0.11
52½- 55'	0.20
55 - 57½'	0.17

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W13	LOCATION	P.A. 2161	T.D	105'
Date Started	28/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	28/6/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 27½'	Clay soil, minor gypsum.			
27½- 35'	Chert, ironstone pebbles, clay, laterite ?			
35 - 42½'	Siltstone with chert, minor clear quartz sand grains.			
42½- 50'	Siltstone, sandy, very fine grain quartz sand in silt.			
50 - 60'	Siltstone, clayey, greenish.			
60 - 70'	Siltstone minor chert, pelletal.			
70 - 87½'	Siltstone, silty quartz sandstone.			
87½-105'	Dolomitic limestone, vuggy, crystalline.			
<u>Stratigraphic Interpretation</u>				
0 - 27½'	Soil.			
27½-105'	Cambrian.			
<u>Assay Data</u>				
Sample	P ₂ O ₅	Sample	P ₂ O ₅	
25 - 27½'	0.20	77½- 80'	0.36	
27½- 30'	0.75	80 - 82½'	13. 9	
30 - 32½'	0.28	82½- 85'	1.54	
32½- 35'	0.30	85 - 87½'	2.00	
35 - 37½'	0.22	87½- 90'	4.50	
37½- 40'	0.34	90 - 92½'	1.35	
40 - 42½'	1.43	92½- 95'	1.23	
42½- 45'	0.18	95 - 97½'	1.35	
45 - 47½'	0.10	97½-100'	1.23	
47½- 50'	0.92	100 -102½'	1.10	
50 - 52½'	0.20	102½-105'	0.74	
52½- 55'	0.11			
55 - 57½'	0.27			
57½- 60'	0.40			

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W14	LOCATION	P.A. 2161	T.D.	97'6"
Date Started	28/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	28/6/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 27½'	Soil, brown, clayey, gypsum.
27½- 30'	Siltstone.
30 - 40'	Siltstone, fine grain silty sandstone at top, calcareous.
40 - 50'	Siltstone, chert.
50 - 57½'	Chert, siltstone.
57½- 65'	Siltstone, chert calcareous.
65 - 87½'	Sandstone, with siltstone at top.
87½- 97½'	Sandstone, siltstone.
<u>Stratigraphic Interpretation</u>	
0 - 27½'	Soil.
27½- 97½'	Cambrian.
<u>Assay Data</u>	
Sample	% P ₂ O ₅
25 - 27½'	2.6
27½- 30'	0.2
30 - 32½'	0.2
32½- 35'	0.1
35 - 37½'	0.1
37½- 40'	0.2

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W15	LOCATION P.A. 2161	T.D 175'
Date Started 28/6/68	Co-ordinates See attached map	Elevation
Date Completed 29/6/68	1:250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet...1 of...1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 30'	Clay soil, sandy, minor gypsum.
30 - 32½'	Siltstone.
32½- 87½'	Sandstone, silty, locally very soft, friable.
87½- 92½'	Siltstone.
92½- 102½'	Sandstone.
102½-110'	Siltstone.
110 -122½'	Siltstone, chert, silty sandstone at base.
122½-160'	Siltstone, local chert.
160 -175'	Siltstone, minor dark grey chert.

Stratigraphic Interpretation

0 - 30'	Soil.
30 - 175'	Cambrian.

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
117½ - 120'	0.3	147½ - 150'	8.6
120 - 122½'	0.3	150 - 152½'	5.5
122½ - 125'	5.7	152½ - 155'	7.6
125 - 127½'	11.5	155 - 157½'	6.1
127½ - 130'	4.2	157½ - 160'	8.7
130 - 132½'	10.9	160 - 162½'	8.9
132½ - 135'	5.2	162½ - 165'	11.7
135 - 137½'	3.0	165 - 167½'	9.5
137½ - 140'	2.6	167½ - 170'	8.7
140 - 142½'	5.4	170 - 172½'	8.6
142½ - 145'	5.6	172½ - 175'	8.9
145 - 147½'	5.0		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W16	LOCATION	P.A. 2161	T.D.	127½'
Date Started	29/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	29/6/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 20'	Clay soil, sandy minor gypsum.			
20 - 30'	Siltstone, minor black chert.			
30 - 50'	Sandstone, silty.			
50 - 67½'	Siltstone, chert (some silicified sandstone ?) biconulites, sponge spicules near bottom.			
67½-122½'	Siltstone. Water at 100', sample unreliable.			
122½-127½'	Calcarenite, pink, phosphatic.			
<u>Stratigraphic Interpretation</u>				
0 - 20'	Soil.			
20 - 127½'	Cambrian.			
<u>Assay Data</u>				
Sample	% P ₂ O ₅	Sample	% P ₂ O ₅	
42½ - 45'	0.2	75 - 77½'	1.7	
45 - 47½'	0.4	77½ - 80'	1.1	
47½ - 50'	0.4	80 - 82½'	1.0	
50 - 52½'	0.3	82½ - 85'	1.0	
52½ - 55'	0.5	85 - 87½'	0.7	
55 - 57½'	0.7	87½ - 90'	0.7	
57½ - 60'	0.6	90 - 92½'	0.9	
60 - 62½'	0.6	92½ - 95'	0.9	
62½ - 65'	0.3	95 - 97½'	0.7	
65 - 67½'	0.9	97½ - 100'	0.9	
67½ - 70'	1.3	100 - 102½'	0.3	
70 - 72½'	1.2	102½ - 105'	0.6	
72½ - 75'	1.2			

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W17	LOCATION P.A. 2161	T.D. 85'
Date Started 29/6/68	Co-ordinates See attached map	Elevation
Date Completed 29/6/68	1: 250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet 1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 15'	Clay, soil, sandy.			
15 - 25'	Siltstone, sandy, chert.			
25 - 37½'	Sandstone, silty, with chert.			
37½- 82½'	Siltstone, local chert, mainly at top.			
82½- 85'	Limestone.			
	<u>Stratigraphic Interpretation</u>			
0 - 15'	Soil.			
15 - 85'	Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	45 - 47½'	0.3	65 - 67½'	0.6
	47½- 50'	4.0	67½ - 70'	2.9
	50 - 52½'	1.6	70 - 72½'	3.1
	52½- 55'	0.5	72½- 75'	2.9
	55 - 57½'	1.4	75 - 77½'	3.9
	57½- 60'	1.4	77½- 80'	4.0
	60 - 62½'	0.8	80 - 82½'	12.2
	62½- 65'	0.5	82½- 85'	4.6

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W18	LOCATION	P.A. 2161	T.D	200'
Date Started	30/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	30/6/68	1:250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet.....	1 of 2.

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 15'	Sandy soil, ironstone gravel and clay. Laterite ?
15 - 77½'	Silty sandstone and sandy siltstone, fine to coarse grain clear quartz grains.
77½- 87½'	Siltstone.
87½-150'	Siltstone, minor chert.
150 -160'	Siltstone, minor chert and yellow, pink, grey quartz sandstone.
160 -190'	Siltstone, minor pink and grey quartz sandstone.
190 -200'	Siltstone, blue-grey very coarse grain phosphatic. Poor samples 190-200' due to dampness and cavities.

Stratigraphic Interpretation

0 - 15'	Soil.
15 -200'	Cambrian.

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
92½- 95'	0.18	137½- 140'	5.5
95 - 97½'	1.6	140 - 142½'	6.3
97½-100'	5.1	142½- 145'	4.6
100 -102½'	0.6	145 - 147½'	6.2
102½-105'	3.5	147½- 150'	6.2
105 -107½'	3.6	150 - 152½'	6.3
107½-110'	4.6	152½- 155'	5.5
110 -112½'	6.2	155 - 157½'	3.0
112½-115'	3.9	157½- 160'	2.7
115 - 117½'	1.5	160 - 162½'	3.1
117½-120'	3.0	162½- 165'	3.0
120 - 122½'	3.5	165 - 167½'	2.4
122½-125'	3.0	167½- 170'	1.5
125 -127½'	2.7	170 - 172½'	1.6
127½-130'	2.7	172½- 175'	1.5
130 -132½'	2.5	175 - 177½'	1.5
135 -137½'	5.2	177½- 180'	1.6

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W18	LOCATION P.A. 2161	T.D. 200'
Date Started 30/6/68	Co-ordinates See attached map	Elevation
Date Completed 30/6/68	1: 250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet 2.... of 2....

INTERVAL	LITHOLOGIC DESCRIPTION			
	<u>Assay Data (Cont'd)</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	180 - 182½'	1.5	190 - 192½'	1.5
	182½- 185'	1.9	192½- 195'	1.5
	185 - 187½'	1.6	195 - 197½'	2.0
	187½- 190'	1.5	197½- 200'	1.8

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W19	LOCATION	P.A. 2161	T.D	207½'
Date Started	30/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	30/6/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet.....	1 of 2

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 7½'	Sand, gravel.			
7½- 25'	Siltstone, with chert.			
25 - 40'	Siltstone, very coarse siltstone to very fine grain sandstone.			
40 - 55'	Siltstone, chert.			
55 -160'	Siltstone, arenaceous in part. Minor chert.			
160 -207½'	Siltstone, minor chert.			
<u>Stratigraphic Interpretation</u>				
0 - 7½'	Soil.			
7½-207½'	Cambrian.			
<u>Assay Data</u>				
Sample	% P ₂ O ₅	Sample	% P ₂ O ₅	
65 - 67½'	0.7	105 - 107½'	3.0	
67½- 70'	4.3	107½- 110'	5.4	
70 - 72½'	17.0	110 - 112½'	1.2	
72½- 75'	5.9	112½-115'	2.0	
75 - 77½'	5.7	115 - 117½'	0.7	
77½- 80'	14.6	117½- 120'	3.6	
80 - 82½'	11.5	120 - 122½'	1.5	
82½- 85'	9.6	122½- 125'	4.4	
85 - 87½'	21.8	125 - 127½'	2.3	
87½- 90'	7.9	127½- 130'	2.9	
90 - 92½'	14.2	130 - 132½'	2.4	
92½- 95'	10.9	132½- 135'	2.5	
95 - 97½'	8.5	135 - 137½'	2.7	
97½-100'	4.7	137½- 140'	2.0	
100 -102½'	2.8	140 - 142½'	2.2	
102½-105'	4.8	142½- 145'	1.8	

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W19	LOCATION P.A. 2161	T.D. 207½'
Date Started 30/6/68	Co-ordinates See attached map	Elevation
Date Completed 30/6/68	1: 250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet.....2 of 2...

INTERVAL	LITHOLOGIC DESCRIPTION			
	<u>Assay Data (Cont'd)</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	145 - 147½'	2.9	177½- 180'	3.3
	147½- 150'	2.9	180 - 182½'	3.0
	150 - 152½'	2.3	182½- 185'	2.9
	152½- 155'	2.5	185 - 187½'	3.3
	155 - 157½'	2.3	187½- 190'	5.7
	157½- 160'	2.8	190 - 192½'	6.7
	160 - 162½'	3.3	192½- 195'	4.6
	162½- 165'	2.6	195 - 197½'	4.7
	165 - 167½'	1.8	197½- 200'	4.2
	167½- 170'	2.5	200 - 202½'	4.3
	170 - 172½'	2.9	202½- 205'	3.8
	172½- 175'	2.9	205 - 207½'	4.5
	175 - 177½'	3.4		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W20	LOCATION	P.A. 2161	T.D.	120'
Date Started	22/10/68	Co-ordinates	See attached map	Elevation	
Date Completed	22/10/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1... of 1...

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 7½'	Sand, soil.			
7½- 17½'	Chert billy, sands.			
17½- 47½'	Siltstone, coarse siltstone to very fine grain sandstone.			
47½-120'	Siltstone, chert, greater concentration chert in upper regions.			
<u>Stratigraphic Interpretation</u>				
0 - 7½'	Soil.			
7½- 120'	Cambrian.			
<u>Assay Data</u>				
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	60 - 62½'	15.6	90 - 92½'	9.5
	62½- 65'	13.7	92½- 95'	8.2
	65 - 67½'	16.2	95 - 97½'	6.7
	67½- 70'	18.1	97½-100'	8.8
	70 - 72½'	21.4	100 - 102½'	9.9
	72½- 75'	18.6	102½-105'	4.8
	75 - 77½'	21.2	105 -107½'	5.8
	77½- 80'	21.0	107½-110'	9.0
	80 - 82½'	23.3	110 -112½'	8.5
	82½- 85'	17.7	112½-115'	4.5
	85 - 87½'	16.6	115- 117½'	3.2
	87½- 90'	19.1	117½-120'	2.5

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W21	LOCATION	P.A. 2161	T.D	175'
Date Started	30/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	30/6/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 2

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 5'	Red sand, chert pebbles.
5 - 30'	Chert billy, minor sand.
30 - 50'	White siltstone, some ferruginous sandstone.
50 - 67½'	Sandstone.
67½- 87½'	Sandstone, siltstone.
87½- 95'	Siltstone.
95 -167½'	Siltstone and sandstone.
167½-175'	Calcarenite.

Stratigraphic Interpretation

0 - 5'	Soil.
5 -175'	Cambrian.

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
75 - 77½'	0.4	102½- 105'	3.2
77½- 80'	0.9	105 - 107½'	2.9
80 - 82½'	0.9	107½- 110'	2.2
82½- 85'	1.3	110 - 112½'	2.9
85 - 87½'	1.3	112½- 115'	4.1
87½- 90'	1.7	115 - 117½'	3.8
90 - 92½'	1.3	117½- 120'	3.2
92½- 95'	2.3	120 - 122½'	3.1
95 - 97½'	1.7	122½- 125'	2.1
97½-100'	1.9	125 - 127½'	4.3
100 -102½'	2.1	127½- 130'	2.3

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W21	LOCATION P.A. 2161	T.D 175'
Date Started 30/6/68	Co-ordinates See attached map	Elevation
Date Completed 30/6/68	1 : 250,000 SHEET Ränken (NAME & NUMBER) SE53-16	Sheet...2. of 2.....

INTERVAL	LITHOLOGIC DESCRIPTION			
	<u>Assay Data (Cont'd)</u>			
	Sample	% P ₂ O	Sample	% P ₂ O ₅
	130 -132½'	1.0	157½-160'	3.9
	132½-135'	1.8	160 -162½'	1.7
	135 -137½'	1.9	162½-165'	1.8
	137½-140'	1.8	165 -167½'	1.5
	140 -142½'	1.2	167½-170'	1.3
	142½-145'	1.3	170 -172½'	1.1
	145 -147½'	1.7	172½-175'	0.9
	147½-150'	1.2		
	150 -152½'	1.9		
	152½-155'	4.6		
	155 -157½'	6.3		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W22	LOCATION P.A. 2161	T.D. 200'
Date Started 30/6/68	Co-ordinates See attached map	Elevation
Date Completed 30/6/68	1: 250,000 SHEET Ranken (NAME & NUMBER) SE53-16	Sheet 1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 5'	Red sand, chert, ironstone pebbles.			
5 - 10'	Sandy siltstone.			
10 - 35'	Sandstone.			
35 - 70'	Siltstone with sandstone.			
70 - 160'	Siltstone with chert, sandstone.			
160 - 200'	Siltstone.			
	<u>Stratigraphic Interpretation</u>			
0 - 5'	Soil.			
5 - 200'	Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	152½-155'	0.3	177½-180'	0.5
	155 -157½'	2.9	180 -182½'	0.4
	157½-160'	1.5	182½-185'	0.6
	160 -162½'	0.4	185 -187½'	0.6
	162½-165'	0.5	187½-190'	0.4
	165 -167½'	0.9	190 -192½'	0.5
	167½-170'	0.2	192½-195'	0.6
	170 -172½'	1.0	195 -197½'	0.6
	172½-175'	0.2	197½-200'	0.8
	175 -177½'	0.8		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W23	LOCATION	P.A. 2161	T.D.	200'
Date Started	28/6/68	Co-ordinates	See attached map	Elevation	
Date Completed	29/6/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 15'	Red sands, minor quartzite and chert billy.
15 - 27½'	Sandy siltstone, ferruginous, mottled.
27½- 72½'	Quartzite, cherty sandstone with minor ferruginous siltstone.
72½-120'	Sandstone and siltstone.
120 -145'	Sandstone with minor silt. Some light grey - black chert.
145 - 160'	Siltstone, sandstone chert zone.
160 - 200'	Siltstone, minor chert, quartz sandstone.

Stratigraphic Interpretation

0 - 15'	Soil.
15 -200'	Cambrian.

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
150 - 152½'	1.5	175 - 177½'	2.1
152½- 155'	3.8	177½- 180'	1.6
155 - 157½'	7.4	180 - 182½'	1.7
157½- 160'	2.2	182½- 185'	1.8
160 - 162½'	12.2	185 - 187½'	2.6
162½- 165'	9.0	187½- 190'	1.5
165 - 167½'	5.4	190 - 192½'	0.8
167½- 170')		192½- 195'	
170 - 172½)	3.4	195 - 197½'	1.5
172½- 175'	3.5	197½- 200'	0.6

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W24	LOCATION	P.A. 2161	T.D	200'
Date Started	1/7/68	Co-ordinates	See attached map	Elevation	
Date Completed	1/7/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet...1 of 1...	

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 10'	Red sand, minor chert, ironstone pebbles.
10 - 27½'	Siltstone, sandy with sandstone.
27½- 45'	Sandstone, minor siltstone.
45 - 60'	Siltstone, minor sandstone.
60 -200'	Siltstone.
	<u>Stratigraphic Interpretation</u>
0 - 10'	Soil.
10 -200'	Cambrian.
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W25	LOCATION	P.A. 2161	T.D.	120'
Date Started	25/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	25/8/68	1: 250,000 SHEET	Ranken	Sheet	1 of 1
		(NAME & NUMBER)	SE53-16		

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 15'	Clay, chert pebbles, gypsum.			
15 - 27½'	Siltstone, some chert.			
27½ - 55'	Sandstone, very fine grain, trace silt, chert.			
55 - 95'	Siltstone, coarse, sandy texture, locally ferruginous, micaceous, chert.			
95 - 120'	Calcarenite, with siltstone, chert, top to mid-section.			
	<u>Stratigraphic Interpretation</u>			
0 - 15'	Cainozoic. Soil.			
15 - 120'	Middle Cambrian.			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	67½ - 70'	0.5	95 - 97½'	0.7
	70 - 72½'	0.7	97½ - 100'	0.7
	72½ - 75'	0.7	100 - 102½'	0.7
	75 - 77½'	0.7	102½ - 105'	0.5
	77½ - 80'	0.6	105 - 107½'	0.5
	80 - 82½'	0.3	107½ - 110'	0.5
	82½ - 85'	0.6	110 - 112½'	0.5
	85 - 87½'	0.6	112½ - 115'	0.5
	87½ - 90'	0.7	115 - 117½'	0.5
	90 - 92½'	0.6	117½ - 120'	0.5
	92½ - 95'	0.9		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W26	LOCATION	P.A/ 2161	T.D	75'
Date Started	25/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	25/8/68	1: 250,000 SHEET Ranken (NAME & NUMBER)	SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 22½'	Clay, gypsum, 30-40% at 5-7½'.
22½- 27½'	Siltstone, clayey, calcareous.
27½- 75'	Calcarenite, limestone.
	<u>Stratigraphic Interpretation</u>
0 - 22½'	Cainozoic, soil.
22½- 75'	Middle Cambrian.
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W27	LOCATION	P.A. 2161	T.D	75'
Date Started	26/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	26/8/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet.1... of .1...	

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 35'	Clay, clayey soils, gypsiferous at top.
35 - 45'	Sandstone, silty, (silicified limestone?), chert.
45 - 52½'	Siltstone, clayey, brown, with silicified limestone.
52½- 70'	Limestone, siltstone, chert at top.
70 - 75'	Calcarenite limestone.
	<u>Stratigraphic Interpretation</u>
0 - 35'	Cainozoic, soil.
35 - 75'	Middle Cambrian.
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W28	LOCATION	P.A. 2161	T.D	120'
Date Started	26/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	26/8/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 10'	Clay, minor chert pebble; gypsum.
10 - 57½'	Limestone, chert silts at bottom.
57½- 77½'	Siltstone, limestone minor chert.
77½-112½'	Sandstone, very fine grain, some siltstone, mainly at top, likely contaminant.
112½-120'	Calcarenite, limestone.
<u>Stratigraphic Interpretation</u>	
0 - 10'	Cainozoic, soil.
10 -120'	Middle Cambrian.
<u>Assay Data</u>	
Sample	% P ₂ O ₅
110 -112½'	<0.5
112½-115'	0.7
115 -117½'	< 0.5
117½-120'	< 0.5

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W29	LOCATION	P.A. 2161	T.D	100'
Date Started	27/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	27/8/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet.....	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 7½'	Clay, minor chert pebbles. Gypsum (to 40%, Base).
7½- 22½'	Limestone, silty, minor clay.
22½- 37½'	Clay/siltstone, limestone, local chert.
37½- 45'	Limestone, local chert.
45 - 52½'	Clay, limestone.
52½- 97½'	Limestone, silty, siltstone, some chert. Inter-layered limestone, siltstone.
97½-100'	Limestone, dolomitic limestone, chert.
	<u>Stratigraphic Interpretation</u>
0 - 7½'	Soil.
7½-100'	Tertiary ? (Brunette Limestone ?).
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W30	LOCATION	P.A. 2161	T.D	65'
Date Started	28/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	28/8/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 30'	Clay, few chert pebbles. Gypsum, to 60-70% at 15-17½'.
30 - 37½'	Limestone, soft, white. Chert.
37½- 47½'	Siltstone, limestone chert.
47½- 65'	Limestone, silty at top, mainly hard, minor chert.
	<u>Stratigraphic Interpretation</u>
0 - 30'	Cainozoic, soil.
30 - 65'	Middle Cambrian ?
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W31	LOCATION	P.A. 2161	T.D.	117½'
Date Started	29/8/68	Co-ordinates	See attached map	Elevation	
Date Completed	29/8/68	1:250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 5'	Clay, few chert pebbles, gypsum.
5 - 37½'	Sandstone.
37½- 77½'	Siltstone, sandy texture, minor sandstone. Purple, brown, ferruginous in part.
77½- 87½'	Siltstone, calcareous, with silty limestone (transition).
87½-117½'	Limestone, with chert. Siltstone top to mid-section.
<u>Stratigraphic Interpretation</u>	
0 - 5'	Soil.
5 -117½'	Middle Cambrian, Burton Beds (BMR mapping).
<u>Assay Data</u>	
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W32	LOCATION P.A. 2161	T.D. 155'
Date Started 20/10/68	Co-ordinates See attached map	Elevation
Date Completed 20/10/68	1:250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet...1... of...1...

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 7½'	Sand, minor clay, limestone at base.
7½- 45'	Sandstone, calcareous matrix in part. Minor limestone.
45 - 80'	Sandstone.
80 - 87½'	Siltstone, siliceous clayey, minor sand.
87½-137½'	Sandstone very fine grain sandstone to coarse siltstone, minor local clay.
137½-150'	Siltstone/clay sands contaminant. Low chert content.
150 -155'	Dolomite sand/silt contaminant.

Stratigraphic Interpretation

0 - 7½'	Soil.
7½-155'	Middle Cambrian (Wonarah Beds?).

Assay Data

Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
132½-135'	1.7	145 -147½'	2.2
135 -137½'	0.5	147½-150'	1.4
137½-140'	2.2	150 -152½'	1.0
140 -142½'	2.2	152½-155'	0.8
142½-145'	2.3		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W33	LOCATION P.A. 2161	T.D 135'
Date Started	20/10/68	Co-ordinates See attached map	Elevation
Date Completed	20/10/68	1: 250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet...1 of.1...

INTERVAL	LITHOLOGIC DESCRIPTION
0 - 5'	Sand, soil, minor clay.
5 - 127 $\frac{1}{2}$ '	Sand, sandstone, minor calcareous clay in upper sections. Locally silicified, minor chert.
127 $\frac{1}{2}$ -135'	Siltstone, siliceous. Much sand contaminant; cavities.
	<u>Stratigraphic Interpretation</u>
0 - 5'	Soil.
5 - 135'	Middle Cambrian.
	<u>Assay Data</u>
	Nil.

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W34	LOCATION	P.A. 2161	T.D	190'
Date Started	20/10/68	Co-ordinates	See attached map	Elevation	
Date Completed	20/10/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet.....1of...2.	

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 7½'	Sands, ironstone pisolites; billy at base.			
7½- 17½'	Sandstone, minor siliceous siltstone, chert.			
17½- 45'	Siltstone, siliceous siltstone, very fine grain sandstone.			
45 -120'	Sandstone, silty, actually a very fine grain sandstone to coarse siltstone.			
120 -160'	Siltstone, siliceous in part, to very fine grain sandstone. Interbedded mottled brown siltstone of varying hardness.			
160 -190'	Siltstone, clayey in part, calcareous. Interbedded hard and soft siltstone.			
	<u>Stratigraphic Interpretation</u>			
0 - 7½'	Soil.			
7½- 190'	Middle Cambrian (Wonarah Beds ?).			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	87½- 90'	0.5	130 -132½'	1.8
	90 - 92½'	0.5	132½-135'	1.2
	92½- 95'	1.7	135 -137½'	1.4
	95 - 97½'	2.7	137½-140'	1.1
	97½-100'	8.2	140 -142½'	1.1
	100 -102½'	10.5	142½-145'	0.9
	102½-105'	4.5	145 -147½'	1.1
	105 -107½'	1.8	147½-150'	1.2
	107½-110'	2.1	150 -152½'	1.1
	110 -112½'	1.5	152½-155'	1.2
	112½-115'	8.0	155 -157½'	1.2
	115 -117½'	5.8	157½-160'	1.1
	117½-120'	6.2	160 -162½'	0.9
	120 -122½'	1.5	162½-165'	0.7
	122½-125'	2.7	165- 167½'	0.9
	125 -127½'	2.1	167½-170'	0.7
	127½-130'	4.3	170 -172½'	0.7

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W34	LOCATION	P.A. 2161	T.D	190'
Date Started	20/10/68	Co-ordinates	See attached map	Elevation	
Date Completed	20/10/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet.2... o2.....	

INTERVAL	LITHOLOGIC DESCRIPTION			
	<u>Assay Data (Cont'd)</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	172½-175'	0.9	182½-185'	0.7
	175 -177½'	0.9	185 -187½'	0.7
	177½-180'	0.9	187½-190'	0.7
	180 -182½'	0.7		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No. W35	LOCATION P.A. 2161	T.D. 137½'
Date Started 23/10/68	Co-ordinates See attached map	Elevation
Date Completed 23/10/68	1:250,000 SHEET Alroy (NAME & NUMBER) SE53-15	Sheet...1 of...1.

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 2½'	Sand, soil.			
2½- 7½'	Chert, billy.			
7½-107½'	Siltstone, coarse siltstone to very fine grain sandstone with minor chert, chert billy at top.			
107½-137½'	Siltstone, chert, carbonate at base. Cavity 132-133½'. Poor sample return 133½-135'. Hard drilling and few chips indicate dolomite at base.			
<u>Stratigraphic Interpretation</u>				
0 - 7½'	Soil.			
7½-137½'	Middle Cambrian (Wonarah Beds ?).			
<u>Assay Data</u>				
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	100 -102½'	< 0.5	120 -122½'	6.9
	102½-105'	< 0.5	122½-125'	5.1
	105 -107½'	4.0	125 -127½'	6.7
	107½-110'	< 0.5	127½-130'	5.8
	110 -112½'	1.2	130 -132½'	2.1
	112½-115'	4.6	132½-135'	1.6
	115 -117½'	6.7	135 -137½'	0.7
	117½-120'	4.7		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W36	LOCATION	P.A. 2161	T.D.	190'
Date Started	23/10/68	Co-ordinates	See attached map	Elevation	
Date Completed	23/10/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 15'	Sand, sandy soils, siltstone, sandstone ironstone rubble.			
15 - 25'	Chert billy, with sandstone at base.			
25 - 45'	Siltstone, sandy siltstone, silty sandstone (coarse siltstone to very fine grain sandstone), cherty at base.			
45 -135'	Siltstone, some very fine grain sandstone, general chert content but mainly near bottom.			
135 -160'	Siltstone (coarse siltstone to very fine grain sandstone).			
160 -190'	Siltstone.			
	<u>Stratigraphic Interpretation</u>			
0 - 15'	Soil.			
15 -190'	Middle Cambrian (Wonarah Beds ?).			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	135 -137½'	0.9	162½-165'	1.4
	137½-140'	1.3	165 -167½'	1.9
	140 -142½'	1.1	167½-170'	1.1
	142½-145'	5.5	170 -172½'	1.1
	145 -147½'	5.0	172½-175'	1.1
	147½-150'	4.0	175 -177½'	1.4
	150 -152½'	2.2	177½-180'	1.1
	152½-155'	5.0	180 -182½'	1.3
	155 -157½'	2.3	182½-185'	1.1
	157½-160'	2.3	185 -187½'	1.4
	160 -162½'	1.6	187½-190'	1.1

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W37	LOCATION	P.A. 2161	T.D.	190'
Date Started	23/10/68	Co-ordinates	See attached map	Elevation	
Date Completed	23/10/68	1: 250,000 SHEET (NAME & NUMBER)	Alroy SE53-15	Sheet...1. of...1.	

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 10'	Sand, ironstone pisolites, rubble.			
10 - 20'	Siltstone, siliceous, ferruginous.			
20 -140'	Siltstone, minor silicified, with local cherty sections near top and bottom.			
140 -155'	Siltstone, clayey, particularly at base.			
155 -160'	Volcanic? Clayey, green-mottled.			
160 -190'	Volcanic? Clayey, mottled purple, green, locally vesicular?			
<u>Stratigraphic Interpretation</u>				
0 - 10'	Soil.			
10 -190'	Middle Cambrian, Wonarah Beds (BMR Mapping).			
<u>Assay Data</u>				
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	102½-105'	1.8	132½-135'	8.2
	105 -107½'	0.9	135 -137½'	3.9
	107½-110'	4.0	137½-140'	6.8
	110 -112½'	7.7	140 -142½'	9.0
	112½-115'	7.7	142½-145'	9.3
	115 -117½'	11.0	145 -147½'	4.6
	117½-120'	11.7	147½-150'	2.1
	120 -122½'	13.4	150 -152½'	2.1
	122½-125'	19.2	152½-155'	1.6
	125 -127½'	21.5	155 -157½'	1.8
	127½-130'	21.5	157½-160'	1.1
	130 -132½'	10.1		

LOG OF LITHOLOGIC AND ASSAY DATA

DRILLHOLE No.	W38	LOCATION	P.A. 2161	T.D	84'
Date Started	24/10/68	Co-ordinates	See attached map	Elevation	
Date Completed	24/10/68	1: 250,000 SHEET (NAME & NUMBER)	Ranken SE53-16	Sheet	1 of 1

INTERVAL	LITHOLOGIC DESCRIPTION			
0 - 7½'	Sands, ironstone, silcrete, siltstone.			
7½- 30'	Siltstone, coarse. With silcrete?			
30 - 80'	Siltstone, to very fine grain sandstone, minor silicified siltstone. Chert near bottom.			
80 - 84'	Dolomitic limestone.			
	<u>Stratigraphic Interpretation</u>			
0 - 7½'	Soil.			
7½- 84'	Middle Cambrian (Wonarah Beds ?).			
	<u>Assay Data</u>			
	Sample	% P ₂ O ₅	Sample	% P ₂ O ₅
	62½- 65'	0.5	75 - 77½'	2.1
	65 - 67½'	<0.5	77½- 80'	0.7
	67½- 70'	0.7	80 - 82½'	<0.5
	70 - 72½'	1.4	82½- 85'	<0.5
	72½- 75'	3.0		