

Q46 NO2

UNION OIL DEVELOPMENT CORPORATION

INTERIM REPORT

QUAMBY TASMANIA EL 15/75

**MICROFILMED**

M5-1144

Geochron Resettts Quamby  
Prospect E.L. 15/75  
(U.O.D.C.)

000

75-1144  
478002

UNION OIL DEVELOPMENT CORPORATION

INTERIM REPORT - QUAMBY, TASMANIA E.L. 15/75

1. Within the Quamby exploration licence there is a sequence of Cambrian sediments with minor belts of acid and basic volcanics and some acid intrusive (Quartz-Feldspar Porphyry). The Cambrian sequence within the exploration licence outcrops for a strike length of approximately 15 miles and is between one to three miles in width. The sequence is the most "northeasterly" exposure of the Mount Read Volcanic arc and at this locality it strikes northwest - southeast and dips steeply to the northeast.
2. A copper prospect on the northeast slope of Kentish Hill near Quamby Brook was worked in the early 1920's. According to A. McIntosh Reid, the government geologist at that time, the ore was low-grade and consisted of malachite and azurite which occurred as lenticular bodies and disseminations within an altered gabbro with the richer portions occurring closer to the hanging wall side of the intrusive.

More recently, G. Pike, the Mines Department geologist who mapped the Quamby sheet, described the basic igneous rock as "greyish-green basic lava and pyroclastic rocks .... which are typically chlorite and epidote rich and slightly sheared". He also noted the presence of volcanic breccia and tuff consisting of elongate fragments of fine grained lavas rich in ferromagnesian minerals, sericite and chlorite which are contained in a chlorite epidote and calcite matrix. He also noted evidence of copper mineralisation in the form of malachite veins scattered through the volcanic rocks.

3. During 1970-71 a prospecting syndicate (T. W. Davies Syndicate) carried out work on the copper prospect. Their work culminated in the drilling of six vertical diamond drill holes with depths varying between 124 ft. and 201 ft. The prospector in charge of the drilling appears to have placed the holes randomly with no specific target in mind, and has drilled to an arbitrary depth almost down the dip of the steeply dipping (70° NE) strata. Therefore, very little importance should be placed on the negative results of this drilling. One drill log (Hole No. 4) shows a zone of 150 ft. (38 ft. to 194 ft.) of copper values between 0.08% and 0.4%; assuming the strata to be dipping at 70°, this would mean a true width of about 50 ft. The only note of the rock type on the drill log is "igneous-semi basic". As these results are not mentioned or referred to in any of the reports, it is suggested that their validity be treated with suspicion. Another aspect of the prospector's reports to be regarded with suspicion is their identification of much rhyolite and trachyte lavas which they interpret as intrusions into the sediments. It is suggested that the easiest way to clear up these points is to examine the core (if still in existence) and discuss the work with T. W. Davies who is presently living in Bichemio (east coast of Tasmania).

Interim Report  
Quamby, Tasmania

-2-

4. Following the drilling, the Davies Syndicate apparently optioned the prospect to Kewanne Australia Pty. Ltd. with the prospectors as operators. Trenching was done much further along strike to the northwest, but did not locate much in the way of mineralisation. Three short lines of ground E.M. (E.M. 16) were carried out over the prospect by Mr. P. E. Cogar in a quick one-man, one-day programme. From this work he interpreted a strong anomaly on each of the three lines paralleling and close to the western contact (? of the volcanics). However, he suggests that the anomaly is due to "... the change in conductivity and in rock type at water table level along the contact zone." and then goes on to suggest that the prospect be dropped. As Mr. Cogar offers no technical explanation for his interpretation of the strong E.M. anomaly, the author feels that the reported existence and position of this anomaly should be regarded positively.
5. ASARCO recently (1973) stream sampled the entire belt of volcanics now covered by E.L. 15/75. The samples were somewhat widely spaced and many were taken in major drainage channels. Weak questionable anomalous results were never followed up and the ground was dropped.
6. Following the relinquishment of the claims over the copper prospect, by the T. W. Davies Syndicate, U.O.D.C. pegged the E.L. 15/75. Work that was planned for this area was aerial photography, airborne E.M. and mapping; also detail work on the copper prospect was to consist of soil and auger sampling, mapping and ground geophysics. The only work completed to date is seven soil lines and one auger line (refer to plans for details). Weak copper and zinc soil anomalies occur on lines 4000N and 4200N and are associated with higher nickel and iron values therefore indicating a basic or ultrabasic rock type. As the soil anomaly is strongest and widest on the most northerly line (4200N), it is suggested that this zone be tested further north. It is interesting to note that the soil values on line 3800N did not reveal any indication of the subsequent auger anomalies of 800 ppm and 395 ppm copper. This suggests that soils are not a good indicator in this area and that the weakly anomalous copper values on lines 4000N and 4200N could be far more significant than their values originally suggest. Because of this discrepancy between soil and auger results, all further investigation should be done by hand auger.

J. L. McGregor-Dawson

308-59 mg



27711				27686				27661				27636				27611				27586				27561			
Cu	Pb	Zn	Ni	Cu	Pb	Zn	Ni	Cu	Pb	Zn	Ni	Cu	Pb	Zn	Ni	Cu	Pb	Zn	Ni	Cu	Pb	Zn	Ni	Cu	Pb	Zn	Ni
T 15	T 10			X 10	T 10			T 15	15 10			10 5	5 10			20 20	15 25			10 15	10 15			10 25	10 15		
5 50	20 35			X 7	T 10			T 10	15 15			15 15	15 15			15 15	10 15			5 15	10 10			15 20	15 15		
T 20	T 10			5 10	5 10			5 10	10 10			10 20	15 20			15 30	15 15			10 15	10 15			10 15	10 20		
10 20	T 5			T 5	T 5			5 20	10 10			10 15	10 10			15 30	15 20			10 25	15 10			15 25	15 25		
10 20	T 10			5 10	5 10			5 10	10 10			10 20	10 15			20 20	15 15			15 25	15 15			30 25	30 40		
10 10	T 10			5 7	T 10			10 10	10 15			15 15	15 20			20 20	20 35			20 20	15 20			20 25	55 130		
10 15	T 10			T 10	T 10			10 10	10 15			20 25	35 55			40 20	15 35			300 30	40 105			200 30	150 305		
10 15	5 10			10 15	20 40			10 10	10 10			25 25	30 75			25 15	30 75			250 30	60 145			195 25	110 155		
10 10	T 10			25 15	30 45			5 10	5 10			20 20	35 70			25 15	30 95			130 25	95 200			185 35	75 130		
10 10	T 5			35 15	35 45			60 15	30 45			35 10	30 60			20 15	20 50			55 20	45 75			200 25	75 70		
10 10	X 10			90 20	55 40			15 20	10 20			80 20	55 80			25 20	25 70			35 15	25 35			50 20	40 35		
10 15	X 10			25 15	30 40			35 20	20 35			85 15	75 90			20 10	20 95			25 20	20 45			75 30	50 55		
10 15	5 20			65 15	50 40			25 20	15 30			35 15	60 445			120 15	65 135			15 10	15 25			60 30	50 70		
10 20	5 30			40 15	55 40			10 20	10 10			105 25	65 505			65 20	65 70			195 50	380 225			60 25	55 70		
10 20	10 20			45 20	45 40			5 10	5 10			65 15	70 100			35 20	35 45			50 30	65 40			95 30	70 195		
10 15	10 20			35 30	35 35			35 20	10 20			35 15	35 70			25 25	45 50			35 25	45 45			55 30	55 75		
20 20	10 30			30 30	40 30			20 20	10 20			60 20	50 60			35 25	55 55			55 25	60 60			70 30	55 70		
20 20	10 20			20 35	25 30			40 15	10 20			40 20	55 80			55 20	70 55			25 25	35 25			75 35	55 85		
20 20	20 30			25 30	25 30			30 15	20 20			30 20	50 100			50 20	55 55			15 25	20 25			250 40	75 125		
30 20	20 40			20 30	20 30			35 20	20 20			80 20	45 310			25 20	45 80			30 20	35 40			60 25	85 295		
55 20	30 70			20 30	25 20			40 20	20 30			15 20	20 60			40 25	55 100			25 15	15 35			50 20	80 245		
40 30	45 80			15 20	20 20			30 20	15 30			20 15	20 60			40 25	50 100			55 30	75 215			60 25	75 315		
40 20	30 60			25 25	25 30			30 15	15 20			20 25	30 80			25 20	35 65			45 25	60 200			65 15	65 275		
40 20	40 40			20 25	20 30			20 10	10 20			40 25	40 125			35 25	40 65			50 15	65 215			65 20	50 245		
50 20	40 35			20 25	25 30			15 10	10 20			30 20	30 105			50 20	60 115			45 25	65 175			55 20	50 245		

10,000 E

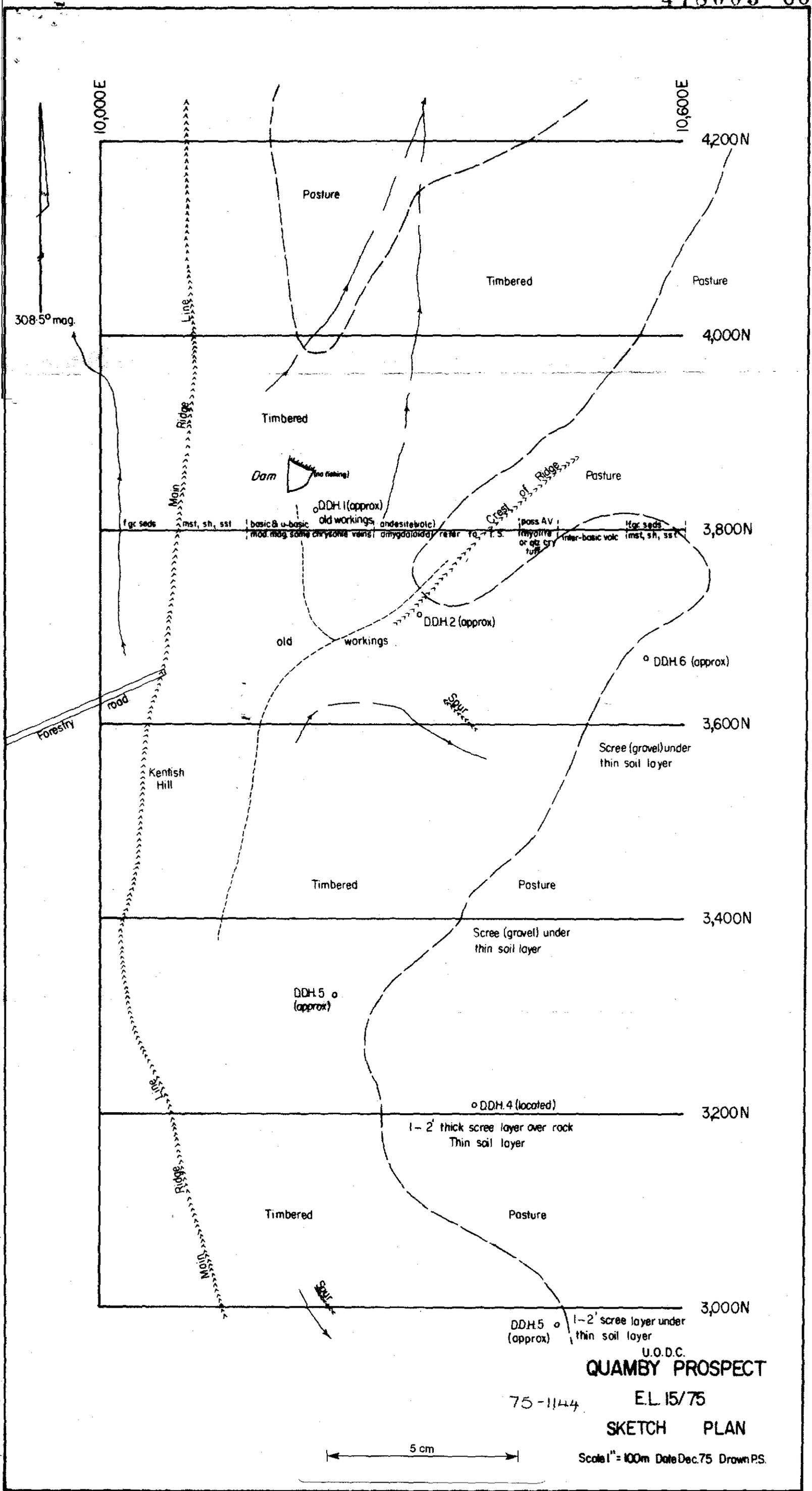
10,600 E

5 cm

75-1144

SOIL SAMPLE RESULTS  
 QUAMBY PROSPECT  
 E.L.15/75  
 U.O.D.C.  
 Scale 1"=100m, Date Dec 75, Drawn PMS.

478004 003



U.O.D.C.  
**QUAMBY PROSPECT**  
 EL 15/75  
**SKETCH PLAN**

75-1144

10,000 E

10,600 E

4,200 N

4,000 N

3,800 N

3,600 N

3,400 N

3,200 N

3,000 N

308 5° mag

chips of surface rock (U/B)

Sample ID	Cu	Pb	Zn	Ni
27736	40	30	15	40
	15	20	10	25
	25	36	20	25
	25	35	25	25
	35	35	35	45
	85	40	45	85
	80	35	30	85
	35	35	85	175
	25	25	55	270
	55	30	40	160
	60	30	35	240
	25	30	55	900
	80	25	80	145
	60	25	70	150
	320	25	65	85
	65	30	50	70
	25	20	65	110
	395	30	40	70
	70	35	35	80
	800	45	76	180
	35	35	70	215
	70	35	65	235
	75	45	55	155
	90	65	45	95
	35	15	65	105

P2143 Cu Pb Zn Ni  
40 30 65 205

Cu Pb Zn Ni  
P2142 x 155 20 75 65

Cu Pb Zn Ni  
P2141 x 15 20 40 150

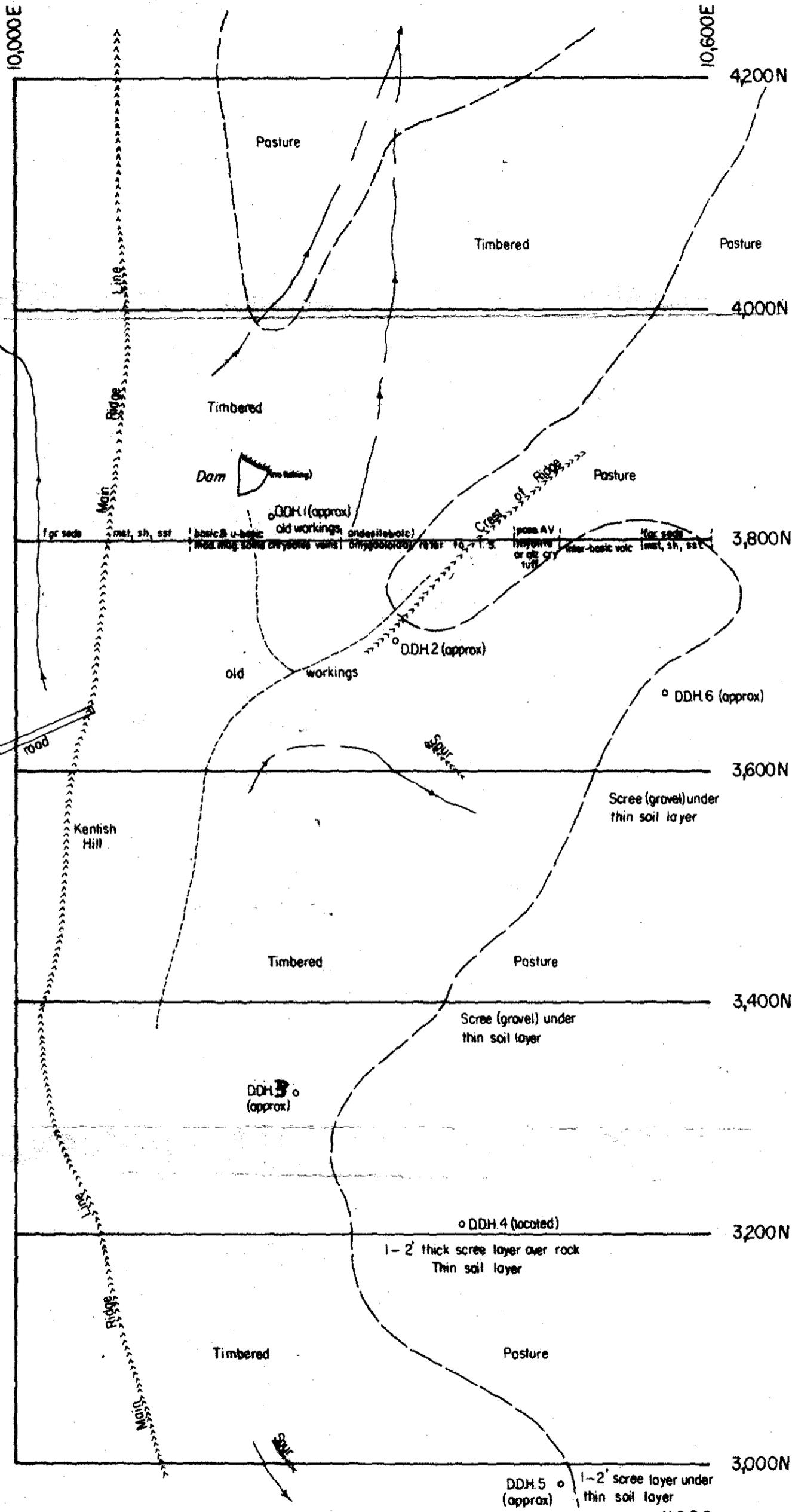
5 cm

NB. For Co, Ag, Fe, & Mn results refer to assay sheets.

75-1144

U. Q. D. C.  
QUAMBY PROSPECT  
E.L. 15/75

Auger sample results and  
rock chip assays  
Scale 1" = 100m, Date Dec 75, Drawn PMS.



GROCHER RESULTS QUAMBY PROSPECT  
 E.L. 15/75  
 SKETCH PLAN

75-1144

Scale 1" = 100m Date Dec. 75 Drawn PS.

*duplicate*

10,000 E

10,600 E

4,200 N

4,000 N

3,800 N

3,600 N

3,400 N

3,200 N

3,000 N

308.5° mag.

27736	Cu	Pb	Zn	Ni
40	30	15	40	
15	20	10	25	
25	35	20	25	
25	25	25	25	
35	35	35	45	
85	40	45	85	
80	25	30	85	
35	35	85	175	
25	25	35	270	
55	30	40	160	
60	30	35	240	
25	30	55	900	
80	25	80	145	
60	25	70	150	
320	25	65	85	
65	50	50	70	
25	20	65	110	
395	30	40	70	
70	35	35	80	
800	45	70	180	
35	35	70	215	
70	35	45	235	
75	45	35	155	
90	65	45	95	
35	35	65	105	

chips of surface rock (U/R)

P2M3 Cu Pb Zn Ni  
40 30 65 205

Cu Pb Zn Ni  
P2142 x 155 20 75 65

Cu Pb Zn Ni  
P2141 x 15 20 40 180

5 cm

N.B. For Co, Ag, Fe, & Mn results refer to assay sheets.

75-1144

U.O.D.C. QUAMBY PROSPECT

EL. 15/75

Auger sample results and rock chip assays

Scale 1"=100m, Date Dec 75, Drawn PMS

duplicate

478009

308.5 mag  
10,000E

Latitude	Cu	Pb	Zn	Ni
27561	10 25	10 15	10 15	10 20
27585	15 20	15 15	15 25	15 25
27585	30 25	30 40	20 25	20 30
27585	20 25	20 30	20 25	20 30
27585	195 25	110 155	195 25	110 155
27585	185 35	75 130	185 35	75 130
27585	200 25	75 70	200 25	75 70
27585	50 20	40 35	50 20	40 35
27585	75 30	50 55	75 30	50 55
27585	60 30	50 70	60 30	50 70
27585	60 25	55 70	60 25	55 70
27585	95 30	70 195	95 30	70 195
27585	55 30	55 75	55 30	55 75
27585	70 30	55 70	70 30	55 70
27585	75 36	55 85	75 36	55 85
27585	250 40	75 125	250 40	75 125
27585	60 25	85 295	60 25	85 295
27585	50 20	80 245	50 20	80 245
27585	60 25	75 315	60 25	75 315
27585	65 15	65 275	65 15	65 275
27585	65 20	50 245	65 20	50 245
27585	55 20	50 245	55 20	50 245
27585	45 25	10,600E	45 25	10,600E
4200N	27585		27585	
4000N	27610		27610	
3800N	27611		27611	
3600N	27636		27636	
3400N	27661		27661	
3200N	27688		27688	
3000N	27711		27711	

5 cm

U.O.D.C.  
**QUAMBY PROSPECT**  
 E.L.15/75  
 SOIL SAMPLE RESULTS  
 Scale 1"=100m, Date Dec 75, Drawn P.M.S.

7B-1144

duplicate.