

57-191

**RIO TINTO FIELD WORK****STRAHAN QUADRANGLE 57**

Table of Contents

Statement- Strahan

Magnet

Statement- Magnet

Pieman- 40 Chans 1956 - Strahan

RUN NO	PHOTO NO	OVERLAY	OVERLAY	FIELD NOTES	FIELD NOTES	FIELD NOTES	COMPLETION	
		FINISHED	CHECKED	PRINTED	TYPED	CHECKED	PRELIMINARY	CONTOUR MAP
10	3258 U/A							
11	3305							
	307							
	309 U/A							
	3310			✓				
	311			✓				
EXT T <sub>u</sub>	3330							
	332							

Rund No	Rio's TOTAL	Taken for Training	No	Remarks
2	2374 - 2348	—	0	
3	2317 - 2346	—	0	
4	2998 - 2316	—	0	
5	787 - 807	—	0	
6	808 - 835	—	0	
7	838 - 862	—	0	
8	2410 - 24929	—	0	
9	3031 - 3032			
	3039 - 3057	—	0	3033 - 3038 Mining
10	3258 - 3284	3258	1	
11	3287 - 3288	3305, 7, 9		
	3296 - 3319	3310, 1	5	3289 - 3295 Mining
East Tū	3327 - 3363	3330, 2	2	
West Tū	2375 - 2407	—	0	

000

MAGNET

445004

30 chains 1953

PROGRESS SCHEDULE

FEED NOTES

RUN NO	PHOTO NO	OVERLAY FINISHED	OVERLAY CHECKED	FEED NOTES			COMPILATION	
				PRINTED	TYPED	CHECKED	PRELIMINARY	CONTOUR MAP
7	46281							
	282							
	283							
	284							
	285							
8	46286							
	288							
	46291							
	293							
	294							
	295							
	296							
299								

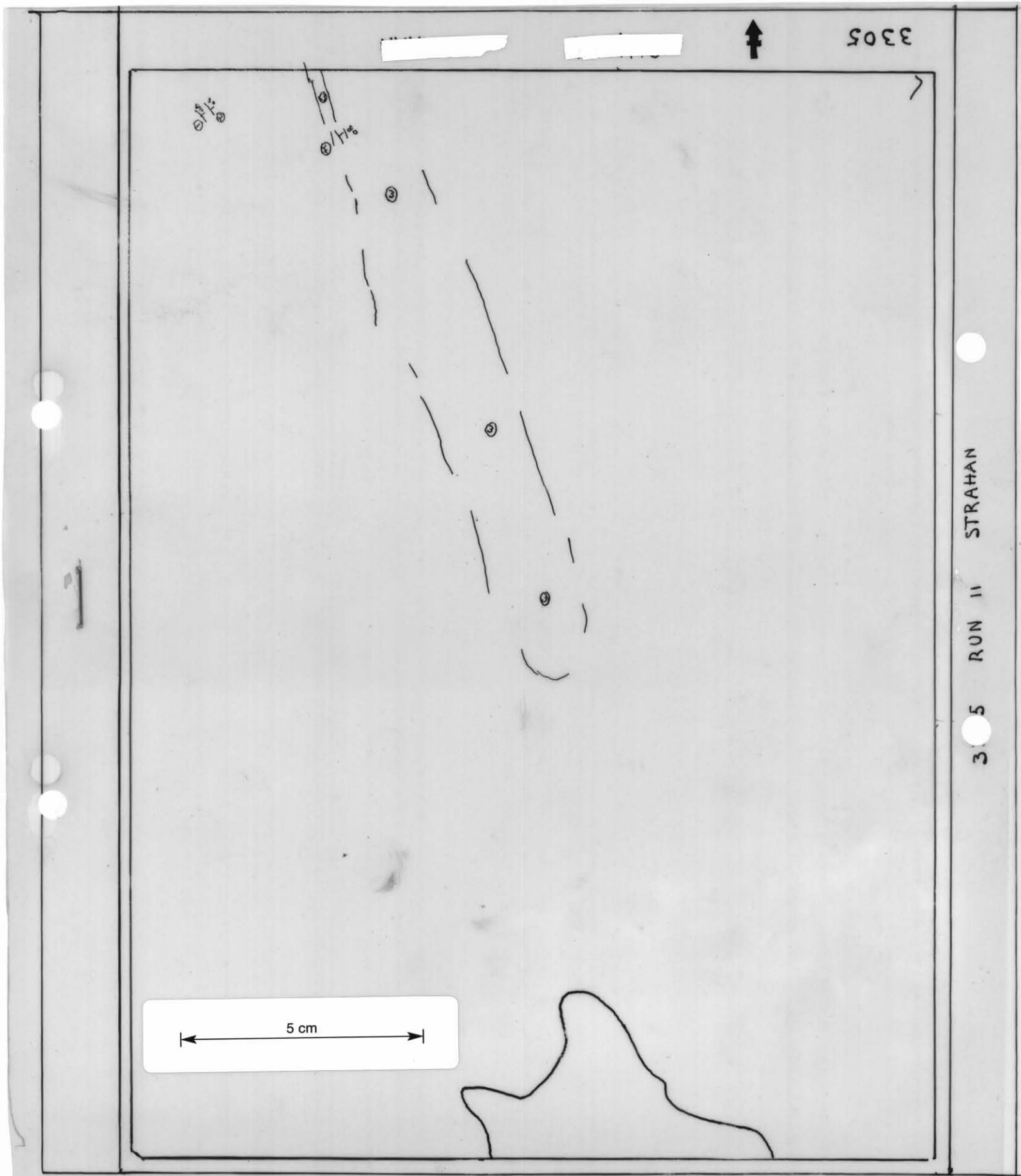
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STATEMENT

RUN No	RIO'S TOTAL	TAKEN & TRACING	NO	REMARKS
1	47853 - 47881	—	0	
2	47913 - 47939	—	0	
3	40 - 66	—	0	
4	89 - 115	—	0	
4A	48972 - 48995	—	0	
5	2 - 27	—	0	
6	46207 - 46208			
	46210			46209 Missing <sup>Mr.</sup> (Bischhoff)
	46212			46211 "
	46214 - 46234	—	0	46213 "
7	46263 - 46285	46281, 2, 3, 4, 5	6	
7A	48074 - 48075			
	48077 - 48090	—	0	48076 Missing
8	46286 - 46311	46286, 8 46291, 3, 4, 5, 6, 9	8	





## Stachan Run "

① Light grey shale - the ground in this vicinity is covered with Owen pebbles & occasional pebbles of actual conglomerate - this could represent the remnants of a covering of Owen conglomerate. W. Brook. Feb. 59.

② White quartzite, weathering grey.

③ Owen & quartzite pebbles & boulders up to 2'  $\phi$ . - angular

④ % of Owen - bands of conglomerate, quartzites & grits.  
cong. is white, average pebble size is  $\frac{1}{4}$  -  $\frac{1}{2}$ " largest is 2" - rounded.  
grit - angular & rounded grains of white quartzite.

3305.

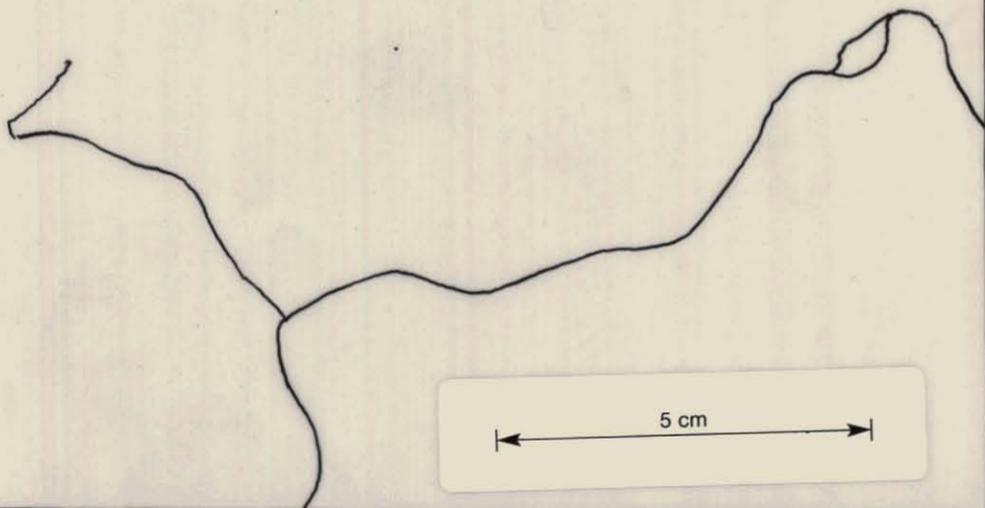
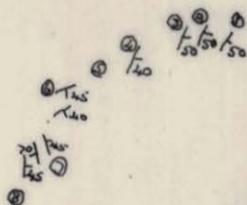
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Dundas?  
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STRAHAN

.UN 11

3 7

W. Brook 1/3/59

- ① grey quartzites and <sup>angular</sup> small pebble beds.
  - ② grey micaceous sandy shales & greywacke conglomerates (quartzite pebbles) rather similar to the Owen, but with a disrupted framework. Grain size varies from 15 cms. to sand grade. Some pebbles are very angular.
  - ③ Conglomerates, grits, and quartzites and greywacke conglomerates. Largest pebble 20 cms., modal 1.5 - 3 cms. Pebbles are moderately well rounded.
  - ④ quartz + feldspar granule sandstone. also contains some ferromags.
  - ⑤ Similar to ③ but rounding is poor to moderate, largest pebble 6 cms, modal 4mm - 20mm.
  - ⑥ coarse quartz sandstone & grey shales.
  - ⑦ grey quartzites & shales & quartz + feldspar granule sandstone.
  - ⑧ quartzites, grits & greywacke conglomerate of ~~angular~~ quartzite pebbles.
- (Term greywacke used tentatively & refers to a water deposited sediment with a disrupted framework - characteristic of turbidity current deposits)
- Shalun Run II  
3307

3307

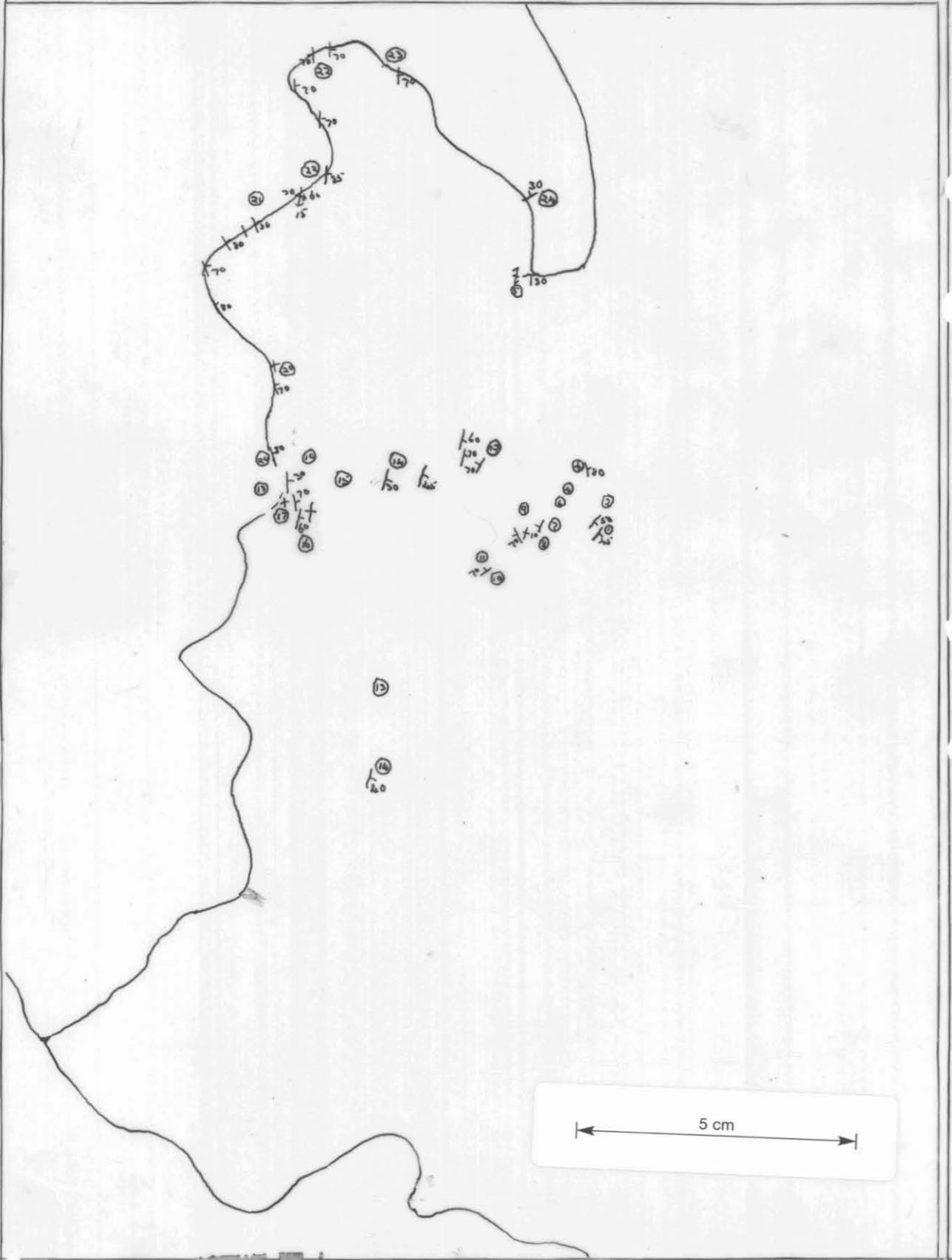
STRAHAN 11-3310

600

3310



STRAHAN — RUN 3310



Strahan R11,

3310

~~3310~~

1830

W. Brook Feb 29

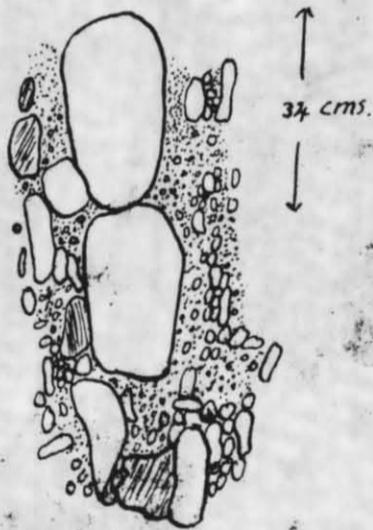
- ① Owen conglomerate - bands of fine cong. (average pebble size  $\frac{1}{2}$ " white quartzite, and coarse conglomerate (av. pebble size 1-2"). The constituent pebbles are unstratified white quartzites, with an occasional pink or grey pebble. Pebbles moderately well rounded & a low sphericity.
- ② Pink quartzite, well bedded, one bed (3" thick) shows micaceous shaly partings. About  $\frac{1}{4}$ ' of quartzites are exposed, are covered by scree below, and above they pass into the conglomerate with no gradation and complete conformity.
- ③ Thinly bedded, pale grey shales, very small plates of muscovite throughout. Appear unconformable & overlying quartzites & conglomerates.
- ④ Pale grey, (completely recrystallised) quartzites with micaceous bedding planes; interbedded with dark grey shales.
- ⑤ Banded grey dolomitic or calcareous rock & honeycombed weathering. Dark grey bands ( $\frac{1}{4}$ " - 1") stand out as ridges from the softer (paler) thicker bands (1-2"). The banding is not regular, but is wavy in nature with some bands running into each other, although the mountain a fairly constant strike & dip. A rock similar to this was recorded on Strahan W. Tr. No 3380, also an exposure in the Hushisson Tr. about 2-3 miles South of confluence with Ross Creek.
- ⑥ Interbedded pale grey quartzites & dark grey siliceous mudstones.
- ⑦ Contorted bed, fold axis strike 180°, plunge 40-50°.
- ⑧ Yellow, siliceous, micaceous mudstone interbedded & dark grey siliceous mudstone.
- ⑨ Contorted grey quartzite, fold axis trend 10°, plunge 70°.
- ⑩ Very coarse white conglomerate, average pebble size 3" largest 18". Mainly white unstratified quartzite pebbles & a small % of grey sheared quartzite pebbles. Rounding is moderate & sphericity is low.
- ⑪ Same composition as ⑩ but pebble size is finer, average 1-2", largest 9".
- ⑫ Pink quartzite with bands of angular grit.
- ⑬ Hard white quartzite & some scattered white quartzite pebbles  $\frac{1}{4}$ " - 1" & rounded angular.
- ⑭ Massive white quartzite & gritty bands.
- ⑮ No outcrop but hill side is covered fragments of gritty, friable white sandstone - white conglomerate & some pink quartzite bands - average pebble size quartzite  $\frac{1}{2}$ " - 1" largest 3". Mainly white quartzites & some pink & grey pebbles. Very little matrix.
- ⑯ Thinly laminated yellow & grey shales - very smooth bedding planes (late?)
- ⑰ Owen conglomerate outcropping on W bank inaccessible - quartzite & pebble bands.
- ⑱ Contact of Owen & Cambrian. Latter is interbedded green mudstones - white brown micaceous sandstone quartzites. Owen is a white conglomerate, average pebble size 3".
- ⑳ Brown micaceous quartzites, greenish mudstones & dark grey slates.
- ㉑ Breccia - conglomerate & greenish matrix 40%, white quartzite pebbles, mostly angular high to low sphericity, average  $\frac{1}{2}$ " - 1", largest 1 1/2".
- ㉒ Dark blue-grey quartzite, brown micaceous quartzites, dark grey slates.
- ㉓ Scattered brown micaceous quartzites.
- ㉔ Rock similar to ⑤, fossiliferous - one appears to be 15" long  $\frac{1}{4}$ " across and divided into numerous small chambers. Possibly a *trilobite*. This rock must be definitely Ordovician to Silurian - even border of limestone.

- ① Very coarse Owen Conglomerate - occasional thin layers of gritty pinkish sandstone. white lang. rounded quartzite pebbles. average size 1", largest 4"
- ② Very coarse conglomerate, white & some thin sandstone bands like ①. average pebble size 2-3", largest 18". Some pink & grey quartzite pebbles - but mainly white pebbles.
- ③ Rather like ② but not so coarse - average pebble size 1-2", largest 12".
- ④ White conglomerate - rather similar to ①
- ⑤ Similar to ③ but ~~not so coarse - more like ④~~. Small transcurrent fault (N striking) is visible here - displacement of 2 feet.
- ⑥ Alluvium - uncompacted Owen boulders in clay.
- ⑦ Owen conglomerate, white, rounded quartzite pebbles - average 1 1/2 - 2" largest 6".
- ⑧ Similar to ⑦ but slightly coarser. Very coarse conglomerate - average pebble size 4" φ, largest 14" φ. All well rounded. Thin white sandstone bands.
- ⑨ Fine white gritty sandstone - quartzite, has bands of coarse grits - identical to ⑤ of Strahan West Tie No 3332.
- ⑩ Pinkish grits & quartzite
- ⑪ 10' thick bed of pinkish conglomerate.

Sketch of composition of ②

Strahan II,  
3311.

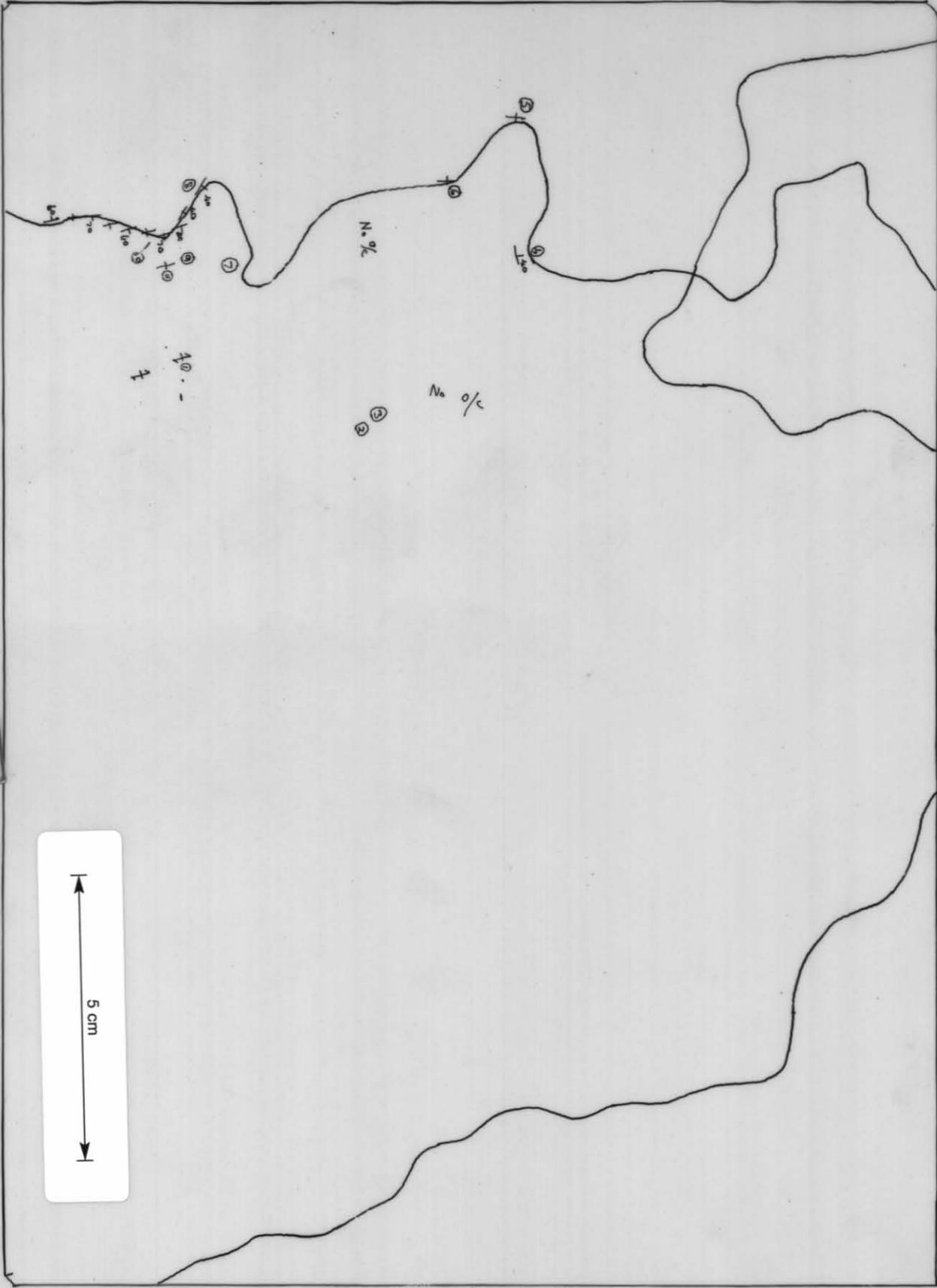
3311



- quartzite
- arg. grit. 1/4 - 1/2"
- unsharped white quartzite pebbles
- sheared grey quartzite pebbles

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3330  
ETS  
STRAHAN



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ETS

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014

- ① Sheared feldspathic rock (Cambrian). Spec  
 ② Gabbro W. Brook Rd.  
 ③ Lateritic haematite.  
 ④ Pebbly, blue-grey quartzite - white, mainly angular pebbles,  $3/4$ "  $\phi$ . soft matrix, overlain by quartzites free of pebbles & black, pyritic carbonaceous shales.  
 ⑤ Grey quartzites, heavily quartz veined.  
 ⑥ Blue-grey <sup>banded</sup> calcareous rock - honeycombed weathering (Gordon 2.5.)  
 ⑦ Blue-grey quartzites interbedded with pale grey sandy shales - slight drag folding in ~~the~~ <sup>the</sup> of the shale beds.  
 ⑧ Similar to ⑦ but  $\tau$  pyrite ~~stony~~ <sup>stony</sup> from west bank.  
 ⑨ Gritty white quartzite - sandstone - identical to ④ of Strahan R. II No 3311, & ⑤ & ⑩ of Strahan White No 3332.  
 ⑩ Grey quartzites & shale beds  
 ⑪ Fine breccias, coarse angular grits & white conglomerate, average pebble size  $1/4$ " -  $1/2$ ", largest 2".

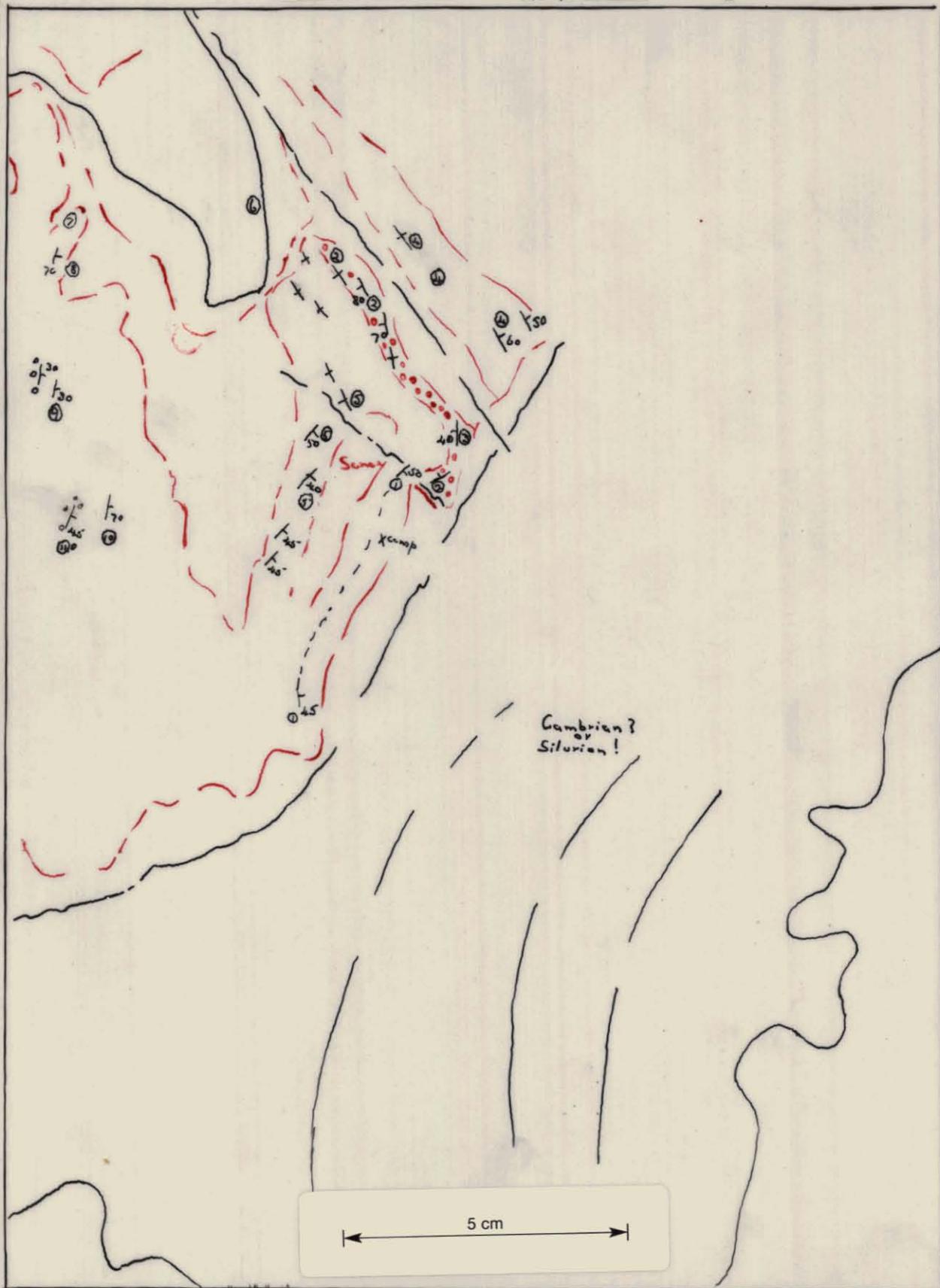
Strahan E.T.S.  
3330

3330

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 AERIAL SURVEY DEPT.  
 PHOTO DETAILS  
 SCALE 20cm = 1 inch  
 LENS 8 1/2 inch  
 CAMERA EAGLE 4

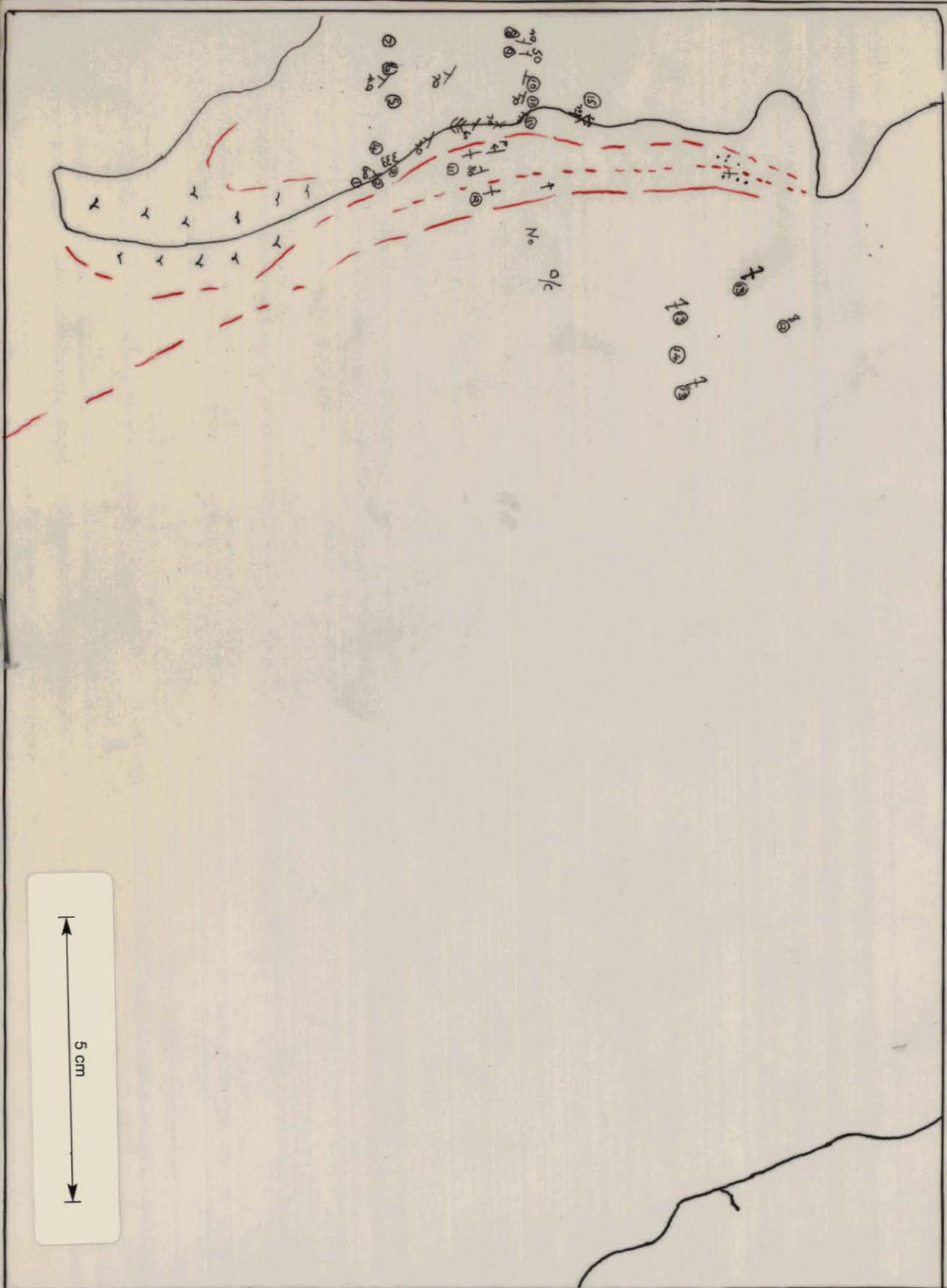
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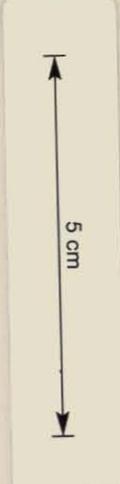


STRAHAN RUN II 3311

STRAHAN 3332



332 E.T.S. STRAHAN



3332



E.T.S. STRAHAN

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Strahan E.T.S. 3332

W. Brock. Feb. 59

- ① Micaceous quartz sandstone - yellow - no bedding. - quartzites & quartz grits.
- ② Interbedded grey quartzites & slates. { fault contact ? ① - strong silicification &
- ③ Heavy silicified grey quartzite ③ strikes under ②
- ④ Intense drag folding in ③
- ⑤ Friable white coarse quartz sandstone - gritty - Upper Owen or Selkirk?
- ⑥ Angular pebbles (1/4" & 1/2") in sandy matrix
- ⑦ Top of ridge is covered with white sandstone like ⑤ and a pink, micaceous quartz sandstone.
- ⑧ Yellow shales & sandstones - Devonian thin subgreywacke bands (often called
- ⑨ Grey quartzites, & purple shales (topaceous).
- ⑩ Grey quartzites & shales
- ⑪ Friable white sandstone - quartzite & angular grits, very similar to ⑤ of this photo is ⑨ of Strahan R. No 3311
- ⑫ Owen cong. white - average pebble size 1" largest 3"
- ⑬ Sheared rock - forms bladed outcrops. Cambrian - (spec)
- ⑭ Yellow, friable, feldspathic quartz sandstone, occasional flakes of mica.
- ⑮ Interbedded quartzite slates (black, grey, purple) & micaceous sandstone. Strongly drag folded

THE PHOTOGRAPHY DEPT.  
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