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SML 481

MOUNT BURR

PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER, FOR THE PERIOD 15/10/1970 TO 14/7/1971

Submitted by
Australian Aquitaine Petroleum Pty Ltd
1971

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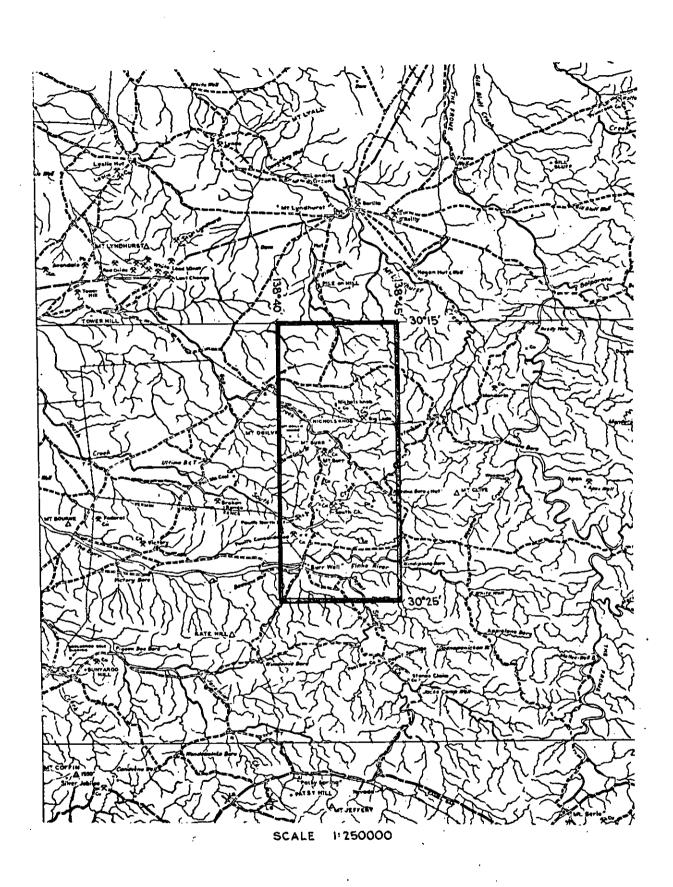
Minerals and Energy Resources

7th Floor

101 Grenfell Street, Adelaide 5000

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EXPIRY DATE 14-4-78

TENEMENT:

S.M.L. 481

TENEMENT HOLDER: AUSTRALIAN AQUITAINE PETROLEUM PTY. LTD

REPORTS:

OGNAR, S., 1971

Field Mission Report S.M.L. 481
3th November 1970 to 8th December 1970 (pgs. 4-7)

Plans:

Map 1 Photogeologic Interpretation map of the Mt. Burr area
North Flinders Range S.A. (1509-2)

Map 2 Distribution of Copper values greater than
200 ppm with approximate relation to geology. (1509-4)

REPORTS:

OGNAR, S. (1971)

S.M.L. 481 Final report 1971
As annexe 3&4 Geophoto Resources Consultants,
1971. Photogeological evaluation of the Burr
area, North Flinders Range, S.A. (pgś. 8-136)

Plans:

ANNEXE 1:

Drilling campaign 1971 and distribution of Copper values greater than 200ppm with approx. relation to geology and profiles of drill holes. (1509-3)

MTB 1: WATER LOG. (1509-5)MTB 2: WATER LOG. (1509-6)MTB 3: WATER LOG (1509-7)MTB 4: Water Log (1509-8)MTB 5: WATER LOG (1509-9)MTB 6: WATER LOG. (1509-10)

Photogeologic interpretation map of the Burr area,

North Flinders Ranges S.A. (1509-1)

003

REPORTS:

BLANGY, B. 1971

Final report S.M.L. 481 Mt. Burr area Period April 1971 to July 1971

(pgs. 137-143)

Plans:

Sample locations - plotted on Photogeologic interpretation map of the Burr area, North Flinders
Range (1509-12)

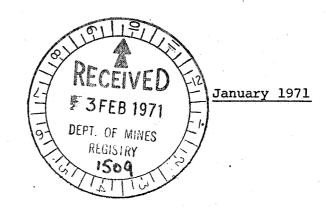
Sample locations plotted an plan showing geology and drill holes (Scale 19600) (1509-11)

FIELD MISSION REPORT

SML 481

(3rd November 1970 - 8th December 1970)

S. Ognar



3/11/70 - 8/12/70

15th January, 1971.

PROGRAMME

Geology and Prospecting

In L.C. Barne's report, (of Plates 68 - 800 Cc and 68 - 92) concerning the graphic interpretation of the geochemical analysis results of soil sampling, it is noted that the strongest values (notably for Cu.) appear to relate to underlying strata of the same horizon, the Yudnamutana Sub-Group.

The mission has been carried out to determine whether this horizon is in fact metallogenically favorable. Following reconnaissance geological examination a number of chip sampling profiles (were laid down) oriented so to traverse the strongest anomalies.

Magnetometry

Several magnetometer profiles were run, traversing the dome structure of Nichols Nob, and a further number were made over an aeromagnetic anomaly on the Copley 1:250,000 sheet.

WORK CARRIED OUT

Photogeology

A 1:50,000 scale photogeological map of the SML and environs has been prepared by "Geophoto". (see Map No. 1).

Geology and Prospecting

Apart from a number of malachite bearing calcite veinlets, copper mineralisation is in general, not visible in the strata which correspond to the geochemical anomalies.

By contrast stratiform pyrite was constantly apparent, usually limonitised and often completely leached, rarely fresh. (Pyrite ghosts were frequently abundant in the troughs of ripple marks).

In the region between Mt. Burr and the Paulls Consolidated area, the old surface workings and more importantly the two Paulls Consolidated Mines, are always restricted to the same stratigraphic horizon. (Yudnamutana Sub-Group).

There were three Proterozoic formations considered to be interesting which have been examined in the field.

These were the SKILLOGALEE DOLOMITE (top of the Burra Group), unconformably overlain by the YUDNAMUTANA SUB-GROUP, which is itself in turn conformably overlain by the TINDELPINA SHALE. (These last two units belong to the base of Umberatana Group).

These formations are well described in Barnes (pp. 14-18). The main interest now lies in the complex nature of the Yudnamutana Sub-Group. Laboratory investigations are in progress on thirty samples to determine the origin and composition of the unit. A second series of samples will be selected for confirmation and further studies when the first investigations have been completed.

Outcrop conditions have been adequate to take chip samples along profiles on a 2 yard spacing with only a small number of soil samples being required in non-outcrop areas. For 20 profiles, of a total distance of 2090 yards 1100 rock samples and 280 soil samples have been collected and analysed chiefly for copper.

Two trenches have been made by bulldozers and sampled. One of the trenches (TII) failed to stay continuously at bedrock level due to the lightness of the bulldozer.

RESULTS OBTAINED

Laboratory analysis

The geochemical analyses are shown graphically on Map 2, in relation to the geology. The results show that the interesting values range between 200 ppm to 900 ppm and that the most favorable geographic zone is between Mt. Burr proper and profile No. 3 (see Map 2). The zone is approximately 14,000' long with an average width (determined from the chip sampling analyses) of 100'.

Magnetometry

The profiles traversing Nichols Nob and a number made over an aeromagnetic anomaly on the Copley 1:250,000 sheet are currently at the interpretation stage. The interpretation will be the subject of a later note.

General

The geochemical analyses have been sufficiently encouraging to indicate the necessity for further work and a programme for subsurface investigation by percussion drilling is currently planned.

EXPENDITURE

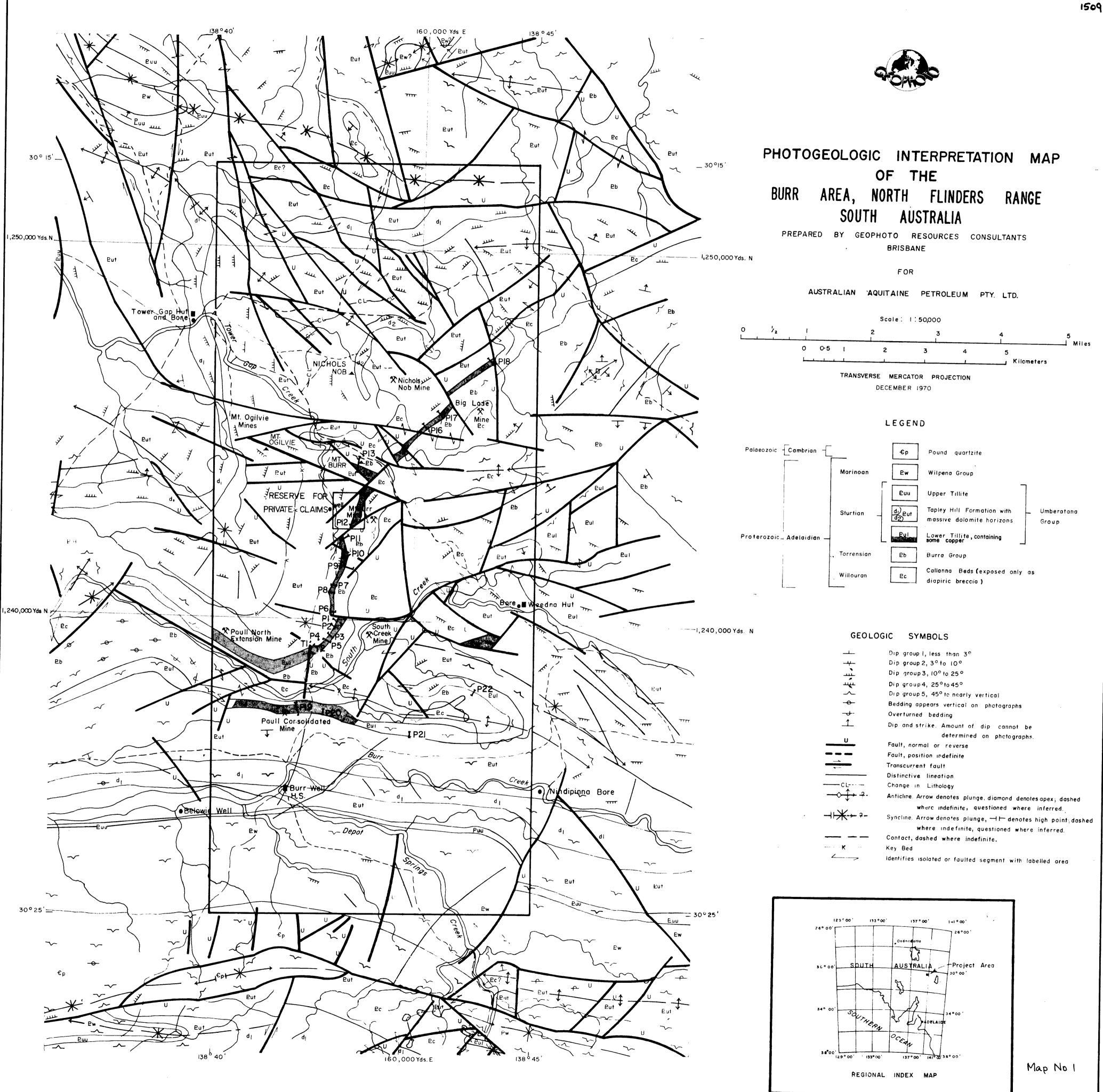
Expenditure recorded in our books for the period 15th October 1970 to 14th January 1971 amounts to a total of \$21,348.91.

REFERENCE

Barnes L.C., - Geological investigation of the Burr complex crush zone. Copley - Serle. Rep. South Australia Department of Mines-Pub.

ANNEXES

- Map 1 Photogeologic map SML 481 and environs showing location of chip sampling profiles. Scale 1:50,000.
- Map 2 Distribution of Cu. anomalies (related to surface geology)
 Scale 1:9,600 (after Barnes plan 69 -368 Sth. Aust. Mines Dep.).



1509-2

1509

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SML 481. SOUTH AUSTRALIA

DISTRIBUTION OF COPPER VALUES GREATER THAN 200ppm. WITH APPROX. RELATION TO THE GEOLOGY

SCALE

HORIZONTAL I'' = 800'

VERTICAL Icm = 1,000 p.p.m.Cu.

Profile. P.I. | Icm. | = 1,000 p.p.m.

Basemap after Sth. Australia Dept. of Mines
Drg. No. 69-968.

Map Noz.

Compiled by, S.OGNAR

Date: JAN 1971

LEGEND

TINDELPINA SHALE MEMBER: Black fissile pyritic shale with basal buff - brown dolomite.

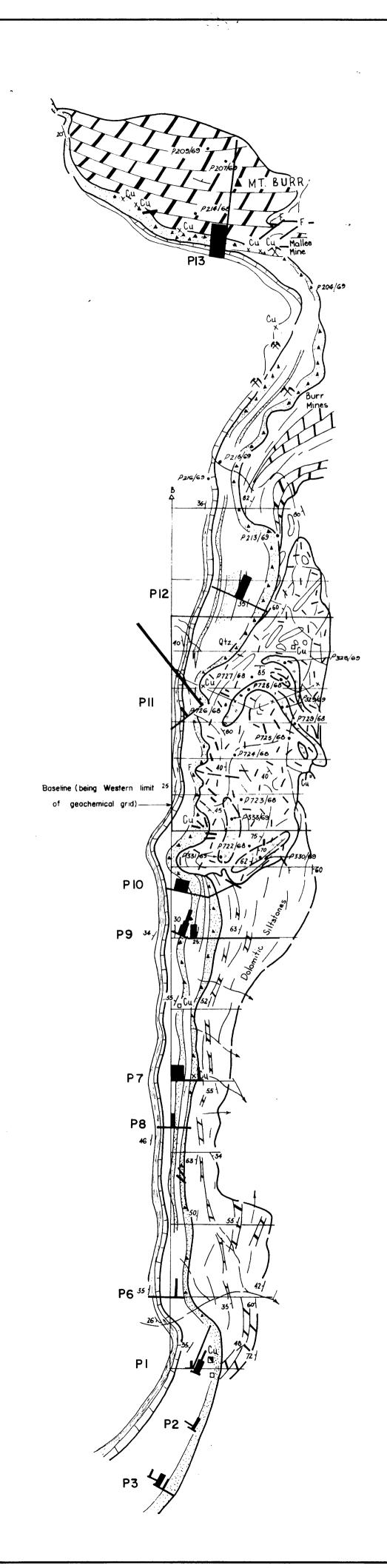
YUDNAMUTANA SUB-GROUP: Pebbly siltstones, arkoses and gritty quartzites. Lenticular conglomerates. Basal conglomerate and quartzite.

SKILLOGALEE DOLOMITE: Massive grey and brown dolomitic marbles, dolomites and dolomitic siltstones.

Micaceous sandstones, grey pitted siltstones and black shales.

Zone of contact metamorphism: Biotite quartz hornfels and schists, quartz amphibole hornfels and calc. silicate rocks.

Microdiorites and microdolerites. Altered to plagioclase, epidote, biotite, chlorite amphibole rocks.



A/DE/71/433 SO/mj

SPECIAL MINING LEASE 481 SOUTH AUSTRALIA

FINAL REPORT 1971

S. OGNAR

9th March, 1971



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ANNEX 1.	LOCATION MAP OF DRILLING CAMPAIGN AND WELL COMPARISONS
ANNEX 2.	MASTER LOGS (MTB 1, MTB 2, MTB 3, MTB 4, MTB 5, MTB 6)
ANNEX 3.	LABORATORY ASSAYS. RESULTS 1970 CHIP SAMPLING CAMPAIGN
ANNEX 4.	LABORATORY ASSAYS. RESULTS. DRILLING CAMPAIGN
ANNEX 5.	MAP AND REPORT FROM GEOPHOTO
ANNEX 6.	ESTIMATE OF EXPENDITURE DM 850/70

I. OBJECTIVE

The first laboratory analysis results obtained at the end of the last year were sufficiently encouraging to justify this drilling campaign. (See Field Mission Report, January 1971).

The main objectives were as follows:

- To try to locate, below the water table, the geochemical anomalies found on the surface.
- 2) To investigate the Tindelpina Shale Member in depth.

II. LOCATION

Six holes were spudded a little to the west of the centre of SML 481, along the contact between the Tindelpina Shale Member and the Yudnamutana Sub group, (east of the track between Burr well and Mount Burr). See annex 1, Location Map. MTB No. 1 was located about 3 miles north from Burr well and the subsequent holes emplaced successively north with an approximate 2000' spacing.

III. DRILLING CONTRACTOR

1. Equipment

- Rig = T64 HB Schramm Rotadrill (250 psi air)

Myers pump and Gardner-Denver FGAG mud pump.

- Compressor = Gardner-Denver W.E.K. (350 psi 650 cubic feet).

- Tricone = Walker Mar. 7 3/8" and 5"

- Hammer Bit = Mission - D.C. Button 5"

- Casing = $20' \times 6"$

- Drill pipe = $20' \times 0' 3\frac{1}{4}"$

- Water truck = F700 Ford

Four wheel drive = Toyota landcruiser

- Caravan

2. Personnel

lst shift - Mr. G. Reynolds Drill Foreman

Mr. M. Lee Offsider

- Mr. McPhilips Offsider

2nd shift - Mr. P.J. Seaman Drill Foreman

- Mr. M. McPhilips Offsider

- Mr. R. Mudge Offsider

First shift worked from 31st January to 18th February 1971 and 1st to 2nd March 1971.

Second shift worked from 18th February to 2nd March 1971. (1st shift's = holiday period)

IV. BULLDOZER CONTRACTOR

Because of some technical difficulties with MTB No. 1, the drill foreman decided to use a complementary air compressor (Gardner-Denvers WEK 350 Psi and 650 cubic feet) from IRON KNOB near Port Augusta.

A private contractor was engaged locally with a bulldozer (D6) to lay out access tracks, pull the compressor and prepare some drilling sites.

V. DRILLING OPERATION

1) Operation Summary

Mr. Ognar (Geologist - A.A.P.) and A. Ferry (Technical assistant - Geoservices) arrived in the Mt. Burr Well area on 27th January 1971, and marked the drilling sites MTB 1-6 inclusive in the 3 day period 28th-30th January 1971.

The drillers arrived 31st of January and started MTB No.1 immediately. The last hole was completed 1st March 1971.

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For each hole the daily progress was as shown below:

N	ITB	1	31st	January	13th	February	=	14	days	for	510'
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ľ	IT B	2	18th	tt	21st		=	4	days	for	410'
ľ	4TB	4	22nd	a	24th	8,9	=	3	days	for	450 '
1	MTB	5	25th	,111	28th	11	=	3½	days	for	380
N	IT B	6	28th	February	lst	March	=	$1\frac{1}{2}$	days	for	250

The relatively lengthy period required to drill MTB 1 was due in part to poor downhole conditions and to inadequacies in the drillers equipment. The hole was abandoned at 510' without reaching the anticipated zone of the geochemical anomaly.

2) Sampling

Representative samples for petrographic and geochemical analysis were taken over 5 feet intervals and reduced by standard quartering procedure to approximately ½ 1b weight.

VI RESULTS

1) Lithologic Analysis and Petrographic and Descriptions

The summary lithologic analyses and petrographic descriptions are plotted in the Master Logs (Annex 2).

Thirty rock samples have been sent to the Centre de Recherche de Pau in France for detailed analyses and the report on the studies carried out by the laboratories will be available in a few weeks.

A copy will be despatched as soon as possible to the South Australian Department of Mines.

2) Analysis

Some analyses for vanadium were made, but low results do not justify any complementary studies.

The main analyses were made for copper and results can best be presented in tabular form as follows:

		PPm of	Cu		
Hole No.	Depth	Average results	Max. results	Thickness of the anomaly zone	Geological observations
MTB 1	510'	740	1,200	370' - 410' 40'	Yudnamutana-Sub group Quartzitic sandstone with desseminated pyrite (White grey).
MTB 2	410'	275	510	175' - 215' 40'	Yudnamutana-Sub group Quartzitic sandstone with desseminated pyrite (green grey).
мтв з	330'	845	1,655	120' - 140' 20'	Yudnamutana-Sub group Quartzitic sandstone with desseminated pyrite (green grey and white).
MTB 4	450 '	1,660	2,525	205' - 225'	Yudnamutana-Sub group Quartzitic sandstone with desseminated pyrite (white grey)
MTB 5	380'	1,000	2,250	190' - 230' 40'	Yudnamutana-Sub group Quartzitic sandstone with desseminated pyrite (green grey and white).
мтв 6	250'	1,215	1,450	90' - 110' 20'	Yudnamutana-Sub group Quartzite sandstone with desseminated pyrite and sometimes malachite in diaclases (white - grey).

It can be seen in this tabulation that the anomalies concentrations of copper are localised at the top of Yudnamutana sub-group, directly below the Tindelpina Shale Member.

VII. CONCLUSIONS

The stratigraphic control of the anomalies is evidenced by the fact that the larger anomalies are localised in the same stratigraphical position and in the same petrographic rock type (Tillitic porous white-grey sandstone with fine desseminated yellow pyrite).

Due to the relatively low copper values obtained further testing of the area now investigated by drilling is not warranted. However, the importance and numerous prospects which exist in an around the MT. BURR diapiric structure must be examined.

In particular these are (1) Big lode deposit, (2) Mt. OGILVIE Area,

- (3) diapiric structure in general, (possibilities of Mercury?)
- (4) the basal stratigraphic unit of the Copley Quartzite and
- (5) the structural dome of Nichols Nob.

ANNEX 3

<u>EABORATORY ASSAYS.</u>
<u>RESULTS</u>

1970 CHIP SAMPLING CAMPAIGN



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all results in parts per million

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all results in parts per million

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all results in parts per million

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all results in parts per million

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all results in parts per million

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all results in parts per million

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سفسست	 														

all results in parts per million

ANNEX 4

LABORATORY ASSAYS.

RESULTS

1971 DRILLING CAMPAIGN

and a state of the	ICE EXD	EDIT	ION NO	<u>-</u>	DATED	12 Feb	Section Control Contro	1971. ======		*	accinion employment	FCETVE	ON 1!	5.2.71	
SAMPLE No.	Cu														
MTB.1.0-10	38 (10	,					1							! 	
10-15	46						•	1		. !				ļ	
15-20	38					<u> </u>		1			<u> </u>			<u> </u>	
20-25	40									!				<u> </u>	
25-30	44									1) 	
30-35	26					<u>'</u>			,	1				ļ	
35-40	40							<u> </u>		1				ļ	
40-45	36													<u> </u>	
45-50	46													<u> </u>	
50-55	38 -					:		· · · · · · · · · · · · · · · · · · ·						<u> </u>	
55-60	38													1	
60-65	32 .							,							
65-70	56 .													1	
70-75	38													<u>.</u>	
75-80	48														
80-85	78												1	,	
85-90	52												096	, ,	
90-95	60 -	·													
95-100	54	A.												<u> </u>	

Ų, ŲFEKLE:							1		R!	O <u></u> 5	. <u>'2</u> j.	
SAMPLE No.	#=====================================								:			
MTB.1.100-105	366	========	======		=====	=======						
105-110	64				1							
110-115	62											
115-120	68											
120-125	62											
125-130	1 58											
1.30-135	50					 						
135-140	38											
140-145	38											
145-150	68											
150-155	30					 						
155-160	42			1								
160-165	42 /											
165-170	46 /											
170-175	56			-								
175-180	54									0.0%		
180-185	66								•	097	<u> </u>	
185-190	66											
190-195	38 / all res	sults in p	parts pe	r million	1							

	. REFLACN	cu. Ex	PourTI	(71v -10)	, <u> </u>	ا شتنا		ARÝ	71.		c	rr INGS	SAMÈ LE	, x	⊒с'Ь о́л	1 1 5.2	.71
	1	-==== Cu	======	== == == == == == == == == == == == ==	======												
1)	 195-200	i						- 33 									and and con-
	200-205	94															
	205-210	92															
	210-215	70					·										
	215-220	66															
	220-225	84,														,	
 	225-230	78-															
	230-235	104								-							
 	235-240	55			,							<u> </u>					
	240-245	44/			<u> </u>		ļ			-							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	245-250	25 /							_								4 4 4
	250-255	42												· .			
# -	255-260	69/			<u> </u>						<u> </u>						
	260-265	39 /			ļ						-			· · · · · · · · · · · · · · · · · · ·			<u>.</u>
	265-270	48				-			ÿ							·	
3	270-280	39					-					<u> </u>		·	098		
 	280-285	20 ′							ļ		-				0.50		
 -	285-290	48				 	-	<u> </u>		 						· · · · · · · · · · · · · · · · · · ·	
	290-295	42	-							<u> </u>				· · · · · · · · · · · · · · · · · · ·		<u></u>	

		:=====	=====	<u>+=====</u>	=====	=====	=====	=====	=====	:=====	t=====	=====:	=====	=====	=====
=====================================	Cu			=====						:======				.=====	
MTB.1.295-300															
300-305	22													_	
305-310	23														
310-315	25														
315-320	24/										1			<u></u>	
320-325	29 /			<u> </u>											
325-330	35							-			1				
330-335	40				<u> </u>				1				*		
335-340	102		1						<u> </u>						
340-345	103/	2												<u> </u>	
345-350	30		1	-							-				
350-355	46		1	1											
355-360	70 /		1			-				<u> </u>		1			
360-365	105											-			
365-370	96/		1		-			-	+			 	+		
370-375	<u> </u>				1								099		
375-380 380-385	-							•	1						
380-385	 														
#	#	al	l res	ults i	n part	sper m	illion	L .			~			*	

	=====F		 	 	=====	 =====	====	 =====	=====	-					1
SAMPLE No.	Cu							 :	<u> </u>	=====			_====		
========= MTB.1.390-395	1														
395-400	875														_
400-405	735														
405-410	560														
410-415	475														
415-420	380														
420-425	212														
425-430	237	¥										·			
430-435	193														
435-440	133														
440-445	93			-								:			
445-450	102											1			
450-455	72										,				
455-460	59														
460-465	ii ii 56											9			
465-470	62												100		
470-475	56						1								
475-480	55 /					+								,	
480-485	# 83		-	+			1				-				

REFERENCE: EXPEDITION NO. 1, DATED 12th FEBRUARY 1971. CUTTINGS SAMPLES RECD. ON 15.2.71 SAMPLE NO. ii Cu MTB.1.485-490 73 490-495 60 101

all regulter in partener million

1 EF	#=====		 	======	======	40.LY L	=====	=====	3 (====	=====	NGS SA =====	AMPLES, =======	RECE;			-	.=
· .	Cu												1				
======================================	55			====	:=====:	 	 ===	====:	====	=====	====:	 	f=====!	=====			==:
500-505	64																1
505-510	74												,				-
	#																
	<u> </u>								-		-						-
	1													-			
l l	11																
	11																
<u>i</u>		<u> </u>			-	ļ											
		1		-	1	-						-	1		!		<u> </u>
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- 11 										1							
			1								<u> </u>				102		
			 !			1		<u> </u>	_		·!						1
		<u> </u>	(1		1				1	į.	1	1	í	1	1	

all results in parts per million

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11	ii Cu ii iii =====				-=====									_		ML
MTB2. 0-5	30															
5-10	34															
10-15	41															
15-20	38															
20-25	50															
25-30							•					—— <u>-</u>				
30-35																
35-40																
40-45] 															
45-50	57															
50-55	60												-			
55-60	48								-					·		
60-65	67											<u>. </u>				
65-70	63		,									· · · · · · · · · · · · · · · · · · ·				
70-75	67															
75-80	89															
80-85	46			-										-8	12	
85-90	21	-		·											03	
90-95	28			<u> </u>												

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	SAMPLE No.	Cu	-								====== 	=====:		=====			
	MTB2 95-100	24				=====	=====	=====	=====	 =====	=====	=====	=====	=====	=====	_====	===:
	100-105	21															· · · · · · · · · · · · · · · · · · ·
	105-110	28															
	110-115	50		1									-				
1	115-120	37		_						<u> </u>		·					·
	120-125	 35					_										····
II 	125-130	 48			+			 									
· #	130-135	183													-		·
11	135-140	52		1			 										
 -	140-145	48	 	 			 								-		
11	145-150	48	ļ — —	_		 -		-			-						
ii. II	150-155	<u> </u>			-		-	-									
11	155-160	33					ļ	ļ .									
- - -	160-165	83															
	165-170	166			<u> </u>		-										
1	170-175	100			-												
#		4.0.5	· · · · · · · · · · · · · · · · · · ·												104		
11	175-180		<u> </u>			<u> </u>									LUI		
11	180-185																
#-	185-190	265															
			וו ב	70011	lte ir	parts	nor m	はヿヿぇ゙゙゙゙゙゙゙ヿゎ゚									

1	Cu															
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195-200	139															-
200-205	88														-	
205-210	330															
210-215	510															-
215-220		-													 	-
220-225	285								- 1							
225-230	255	~														
230-235	108		 		<u> </u>			,								
235-240	106	}														-
240-245	83								а.							
245-250	43		_ 			-										
250-255	39		-													
255-260	19									<u> </u>		-				-
260-265	18															
265-270	39															
270-275	73															
275-280	9	-						· .					7	105		
280-285	15			1												

TIN DAM TO THE LUT IN 1 3, TEL . 2 BY OI 4.2

RE	ETCUTG	S COM							REC	BY	ON	2.			
SAM		#===== Cu		 			·		=====	=====					
H==== MTB2	2.285 - 290	#===== 114		 	‡====	-===	=====	:	======	=====	======	=====		.======	======
 	290-295	113						-							
	295-300	73													
 8	300-305	94													
#	305-310	21													
!! !!	310-315	47													
	315-320	24													
	320-325	26													
11 11 11 11	325-330	14													
	330-335	22							·						1
	335-340	27		:						1					
	340-345	41													
	345-350	51													
;; !!	350-355	93							4						
	355-360	96													
	360-365	60						:							
	365-370	46											106		
	370-375	63													
	375-380	28													

SAMPLE No. Cu	
MTB2.380-385 32	
385-390 29	
390-395 31	
395-400	
400-405 44	
405-410 27	-
	Particular de la Constitución de
	-
	·
107	

C	REFEREN	ICF	EYPEDI 17 FER	ITION I BRUARY	N _C 2 , 1971	•		5UT	G GS	(PLI	RE	VEI) F.	uar_	<u>]</u> 97[1 1	2, , ,
	SAMPLE No.	ii Cu 									=====	=====		_ =====================================	=====		
	MTB.3. 35-40	100					====:	=====	====	=====	=====	====+=	====		=====	=====	=====#
 L	40-45	65											<u> </u>		,		
11	50-55	 28												-			
	55-60	27													<u> </u>	-	1
	60-65	45							-				-	·			11
11	65-70	134							 					<u> </u>			10 mm
	75-80	56														<u></u>	
11	80 – 85	155					 										
11	85-90	66					 										11
ii	90-95	142					1							 			
#-	95-100	95															
	100-105	<u> </u>															
	105-110						-										1
1	110-115					<u>.</u> .											- 1
 	115-120						-	1 11									
11	120-125																
 	125-130														108	·	
11	130-135					 			v .					_		·	
- 	135-140					·											11
#	135-140	415								·							

	EXPE											
SAMPLE No.	Cu		-									
MTB.3.140-145	103	 ====		=====						=====		
145-150	102		•									
150-155	24				>							
155-160	28											
160-165	18											
165-170	295											
170-175	48											
175-180	27											
180-185	37										·	
185-190	24											1
190-195	25											
195-200	34											
200-205	28											
205-210	16								ļ			
210-215	21										-	
215-220	43									1 30	0	
220-225	43								<u> </u>	10	J	
225-230	43							1				
230-235	48											

all results in parts per million

	a appropriate	() :=====		(ليين	فيسسا	
SAMPLE No.	Cu								=====:		-+===	}	=====	=====	====	**************************************
MTB.3.235-240	====== 45 	=====	_=====	=====	 =====	 	=====	====:		======	====	=====		====	===	## <u>## ## ##</u>
240-245	17					-					-					
245-250	17					 	<u> </u>		·		 					
250-255	21			·												
255-260	28										 					
260-265	10				·											
265-270	13															
270-275	ii 18															! !
275-280	16									1						-
280-285	9									1						
285-290	9														- 	
290-295	9															
295-300	11															
300-305	14												- 			<u>ii</u>
305-310	9															
310-315	13														-	
315-320	15												+ 1	10		<u></u>
320-325	11															
325-330	16													-	1	!

		CE[<u></u>	(II:			, 🕮 . 4	EF:	JÀXPĹ	Drid.	to	. DA.	25-	FED.	neary—	<u>-</u> 971.	
11	SAMPLE No.	Cu First Split		1:	Check Anal. st Spl	{		Cu 2nd Split		1	Cu hole S Crushe	Sample ed	+==== :	=====		=====:	
 	MTB.4.0-5	71			67			74					=====	=====	=====		=====
ji II	5-10	65															
	15-20	94															
	20-25	88			· · · · · · · · · · · · · · · · · · ·										 		
	25-30	97			<u> </u>	*											
11	30-35	80												1			11
	35-40	115												 	 		
	40-45	82												_			<u> </u>
 	45-50	63												·			11
	50 - 55	115			112			103									
# # # #	55-60	106										_					
	60-65	161															
11	65-70	121															
!	70-75	101													 		
 	75-80	152									138	-					
	80-85	116															
11	85-90	93											<u> </u>		11.	İ	
	90-95	182								-	-						
	95-100	98															

SAMPLE No.	First Split	Checl Anal Ist.Sp	1 1	1 !	Cu 2nd Split	=====	===== WI	Cu hole Sa Crushe	ample ed				
MTB.4.100-105	11				117								
105-110	117							115					
110-115	185											,	
115-120	105												11
120-125	60												11
125-130	92										1		11
130-135	104									1			
135-140	75												
140-145	166												11
145-150	135									1			
150-155	135	138			108					1			
155-160	45		,							1			
160-165	19									1			
165-170	31						*	1		1			
170-175	 27									1			
175-180	128												
180-185	70									1	112	2	
185-190	33									1			
190-195	82							,					

SAMPLE No.	First Split	Anal.		Cu 2nd Split		Cu Whole Crush	Sample ed				
MTB4.195-200	55			=======================================		 ====	========	=====			=======================================
200-205	123	120		97	-						
205-210	2525	2325				2375					
210-215	1720	1650				•					, ,
215-220	1100	960									11
220-225	1300	1250									11
225-230	510										11
230-235	448										1
235-240	270										1
240-245	202						:				
245-250	307										11
250-255	283					212					
255-260	192		:								1
260-265	161										11
265-270	975	900		775		1115					11
270-275	515					485					
275-280	152								11	3	1
280-285	79										
285-290	59					79					1

all results in parts per million

SAMPLE No.	First Split	=====	=====	Cnec Anal. st Spl			Cu 2nd Split		į.	Cu	Sample hed		=====	=====	=====	====
MTB4.290-295	40						=====	====:	=====	=====	======	====	=====	:= ===:	=====	====
295-300	41					 							-			
300-305	156					 										
305-310	80											-				
310-315	28					-				-		ļ				
315-320	30			28									-			
320-325	18						13			-				 		
325-330	33													-		
330-335	20												-			
335-340	16													-		
340-345	10								-							
345-350	10															
350-355	8							-								
355-360	10															
360-365	14								-							
365-370	9			8												
370-375	16					1	8							-		
375-380	8									15					14	
380-385	13															

			7=2===	+====	: +==== :	~====:			.=====			 =======			
SAMPLE NO.	# Cu #First #Split	1	Check Anal. st Spl	t ======		Cu 2nd Split	t		Whole	Samol	a				
MTB4.385-390															====-
390-395	12								-						
395-400	10														,
400-405	13								13						
405-410	10														
410-415	19		1												İ
415-420	10		7			11									
420-425	15									1	1				
425-430	26									1	1	,			
430-435	10									1	1				
435-440											1		1	,	
440-445	10			1	<u> </u>						i				
445-450	10		10		<u> </u>						1		†		
: II	-			1			<u> </u>				· · · · · · · · · · · · · · · · · · ·				
	<u> </u>				1		1				1				
11	<u> </u>				<u> </u>	1							1		
					ļ								1	15	
			+	,	<u> </u>										
91					-						1				1

GE RV.									_ri(Jo	2	71	
SAMPLE No.	Cu		Cu Contro	l lana]							=====	
MTB 5- 0-5	40						=====	 	+====	=====	= == == <u>==</u>	_ = = = = =	
10-15	55												
15-20	48										<u> </u>		
20-25	82		1				-					<u>.</u>	
25-30	102												
30-35	76					-					·		
40-45	60												-,
45-50	43			_									
50-55	54												
55-60	13		12										
60-65	10												
65-70	14												
70-75	42												
75-80	50											*	
80-85	60						·					-	
85-90	72												
90-95	72						<u> </u>				1	16	<u>-</u>
95-100	78											10	
100-105	75						<u> </u>						

	#=====			: 	+====	+==== :	-====:		======	======	====	#==== =	-t=====	 	
SAMPLE No.	11	-	=====	1227 0	rol ana split										
MTB 5 -105-110				49							=====		+====	=====	====
110-115	60														
115-120	64											-			
120-125	25														
125-130	20														
130-135	21					l		_							
135-140	162														
140-145	35			1		1									
145-150	57														
150-155	108					<u> </u>									
155-160	86					· · · · · · · · · · · · · · · · · · ·									
160-165	65					!						1			
165-170	34	<u> </u>										1			
170-175	49														
175-180	415		ļ!												
180-185	192	<u> </u>	ļ											117	
185-190		<u> </u>	. 												
190-195			ļ												
195-200	730		<u> </u>											1	

SAMPLE NO. Cu Cut Control Anal. MTB 5-200-205 835	-===================================	#======	=======		 =====		+=====	-=====	 	=====	+=====	±====	±====	====		
MTE 5-200-205 835	SAMPLE No.	Cu		Cu	ol Ana	7										
210-215 1190	MTB 5-200-205	835														
215-220 2250 220-225 860 225-230 495 495 450 230-235 305 235-240 204 240-245 235 245-250 30 250-255 30 255-260 590 260-265 1170 940 265-270 810 270-275 315 275-280 400 118 280-285 83 285-290 190	205-210		·													
220-225 860 450 225-230 495 450 230-235 305 305 235-240 204 306 240-245 235 307 245-250 307 307 250-255 308 308 260-265 1170 940 265-270 810 308 275-280 400 400 280-285 83 308 285-290 190 190	210-215	1190		<u> </u>								 			,	
225-230 495 450 230-235 305 305 235-240 204 305 240-245 235 305 245-250 305 305 250-255 305 305 255-260 590 305 260-265 1170 940 265-270 810 305 275-280 400 400 280-285 83 305 285-290 190 190	215-220	2250														
230-235 305 235-240 204 240-245 235 245-250 305 250-255 305 255-260 590 260-265 1170 265-270 810 270-275 315 275-280 400 280-285 83 285-290 190	220-225	860														
235-240 204 1 240-245 235 1 245-250 250-255 1 255-260 590 1 260-265 1170 940 265-270 810 1 270-275 315 1 275-280 400 1 280-285 83 285-290 190 190	225-230	495		450										<u> </u>		
240-245 235 35 245-250 30 30 250-255 30 30 255-260 590 30 260-265 1170 940 265-270 810 30 270-275 315 315 275-280 400 400 280-285 83 30 285-290 190 118	230-235	305						1								
245-250 250-255 255-260 590 260-265 1170 940 265-270 810 270-275 315 275-280 400 280-285 83 285-290 190	235-240	204														
250-255 255-260 590 260-265 1170 940 265-270 810 315 270-275 315 315 280-285 83 318 285-290 190 190	240-245	235														
255-260 590 260-265 1170 940 265-270 810 270-275 315 275-280 400 280-285 83 285-290 190	245-250					·- · · · · · · · · · · · · · · · · · ·										
260-265 1170 940 265-270 810 315 270-275 315 315 275-280 400 118 280-285 83 3285-290 190 190	250-255															
265-270 810 270-275 315 275-280 400 280-285 83 285-290 190	255-260	590					<u> </u>									
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PHOTOGEOLOGICAL EVALUATION

of the

BURR AREA, NORTH FLINDERS RANGE SOUTH AUSTRALIA

Prepared for

AUSTRALIAN AQUITAINE PETROLEUM PTY.LTD.

by

GEOPHOTO RESOURCES CONSULTANTS BRISBANE, QUEENSLAND, AUSTRALIA

JANUARY, 1971



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Map	[1509-1]

INTRODUCTION

The photogeological evaluation of the Burr Area was undertaken by Geophoto Resources Consultants for Australian Aquitaine Petroleum Pty. Ltd., late in 1970. The total area consists of 156 square miles and lies in the north part of the Flinders Ranges of South Australia.

Differential relief in the area is not great and rarely exceeds a thousand feet, however, comparatively recent erosion has resulted in locally intricate dissection. Travel in the area is afforded by a number of unimproved earth roads which are negotiable in dry weather and are accessable from Leigh Creek approximately 15 miles to the south-west. This small community is on a railway as well as a sealed all weather road and has a landing strip for light air-craft.

The initial photo evaluation was conducted by Mr. L. DiScala while the final edit was undertaken by the author. The purpose of the evaluation was to supply as much geologic information as was possible from the air photographs to assist in later mineral exploration.

PHOTOGRAPHY AND MAP COMPILATION

Photographs

Air photographs covering the project area were furnished by the

client. The photos, on a 9 inch by 9 inch format, are at an approximate scale of 1:80,000. Eight photos, comprising parts of two east-west flights, give complete stereoscopic coverage of the area. The photography was originally flown for the Department of Lands of South Australia.

The quality of the photography is excellent with respect to clarity and sharpness of detail. The virtual lack of vegetation cover results in excellent rock exposures. The only criticism of the photography from the standpoint of photogeologic interpretation is the small scale which limits the amount of detail that can be mapped.

BASE MAP

The base map was laid out on a Transverse Mercator Projection at a scale of 1:50,000. Control for the base map was taken from the 1:250,000 Copley planimetric sheet and the 1:63,360 Serle geologic sheet. Planimetric detail on the two above sheets was derived by photogrametric methods and appears to be quite accurate. The major portion of the planimetric detail on the 1:50,000 base map was derived directly from the published maps and was augmented to a lesser degree by detail from the photographs.

Compilation

The air photographs were stereoscopically examined by a photogeologist and his interpretation wasannotated directly to the photos.

The photos were then placed in a Map-O-Graph opaque projector which was adjusted to project at a scale of 1:50,000 the image of the photo onto a print of the base map. Common planimetric detail of the projected image and the base were superimposed and the geological detail was traced directly onto the base map to construct the preliminary geologic map. A careful edit of the preliminary map was then undertaken by the geologist.

When the corrections were completed on the preliminary map the result was then ink drafted on a scale stable film. After a final edit of the drafted map prints were made and one copy was colored with permanent water proof inks.

GEOLOGY

These Ranges with a general north-south orientation merge to the south with the Mt. Lofty-Olary area. This area, commencing with Kangaroo Island, extends northward through the Mt. Lofty Ranges and veers eastward through the Olary region into the Broken Hill area of New South Wales. The Flinders Ranges together with the Mt. Lofty-Olary arc and the Peake and Denison Ranges in north-central South Australia roughly define the surface exposures of a late Proterozoic to early Cambrian series of sediments laid down in the Adelaide Geosyncline. Early Paleozoic diastrophism of possibly more than one phase resulted in uplift and folding of the Adelaide Geosyncline into a series of mountain ranges. Associated with the sediments is a Late

Proterozoic granite suite and Early Paleozoic acid intrusives which have been termed collectively the younger granitic suite.

Throughout the remainder of Paleozoic and Mesozoic time the area was subjected to leveling erosion, periodic renewal of tectonic movements and deposition of continental sediments. By Tertiary time, peneplanation of the area was complete. Late Tertiary to Quaternary uplift of the area and recent rapid erosion has resulted in the present physiographic expression of the mountain ranges.

Rock Units

In the project area the major portion of the rock units exposed fall in the Proterozic Adelaidian system. The only exception is a unit in the southern part of the area of probable late Cambrian age. In the following discussion, the lithologic descriptions of the units mapped as well as their nomenclature have been taken from available literature.

Callanna Beds (Pc)

These beds consist predominantly of alternating sandstones and siltstones with significant amounts of interbedded dolomites, cherts, limestones and carbonaceous shales. Volcanics occur in the basal portion of the beds. The thickness of the unit has been variously estimated as between 12,000 and 20,000 feet. The Callanna Beds have been placed in the Willouran Series which is the oldest time unit in the Adelaide System of the Upper Proterozoic Era.

In the project area the beds occur out of normal sequence in complex brecciated crush zones which are now considered to represent the surface expression of diapiric structures. On the photographs these zones in general are readily distinguishable. Observable bedding is extremely contorted and unconformable with surrounding units. The texture and grain of the zones on the photos is likewise distinctly different.

Burra Group (Pb)

This group in normal sequence overlies the Callanna Beds. It comprises the Torrensian Series of the Adelaide System. The Burra Group is composed of thick basal sandstone deposited in ashallow water to deltaic environment with the upper portion consisting of alternating shales, sands and delomites with local cherts. The group has been estimated at between 10,000 to 13,000ft in thickness.

On the photographs the group is a distinct unit. In general it is very well bedded and at the photographic scale appears thin bedded in contrast to the other mapped units. It generally exhibits a dark tone.

Lower Tillite (Pul)

This unit is the basal member of the Umberatana Group. The group comprises the Sturtian Series of the Adelaide System. The Umberatana Group overlies the Burra Group in an unconformable relationship.

The Lower Tillite consists of a basal unit of coarse boulder conglomerate. This is overlain by a succession of laminated siltstones, varved beds and alternating quartzites and tillites. The unit is believed to have been laid down in an inland sea or large lake. The glacial deposits accumulated over a large span of time and in places reached a total thickness of 15,000 feet.

On the photographs the unit varies considerably in thickness. It is usually well bedded and generally light to medium toned.

Tapley Hill Formation (Put)

The unit is the middle member of the Umberatana Group as mapped in the area. It is composed of a thick sequence of laminated slates with several horizons of massive interbedded dolomites. Two of these dolomite horizons have been mapped in the area. The Tapley Hill Formation exceeds 10,000 feet in thickness and represents an interglacial stage in the Umberatana Group.

On the photographs the formation is moderately well bedded and varies between light to medium toned. The dolomite horizons are well expressed units.

Upper Tillite (Puu)

This unit forms the upper member of the Umberatana Group. It

consists primarily of a coarse boulder tillite and resembles the boulder tillites of the Lower Tillite. It rarely exceeds a thickness of more than a 1000 feet. It represents the recurrence of a glacial cycle in late Sturtian time.

On the photographs it forms a distinct mappable unit. Bedding is moderately well expressed and it is generally light toned.

Wilpena Group (Pw)

This group comprises the Marinoan Series which is the youngest series of the Adelaide System. It consists of primarily of red shales and siltstones with minor amounts of sandstones, limestones, dolomites and carbonaceous shale. The thickness of the group exceeds 10,000 feet.

On the photographs the unit is moderately well bedded to poorly hedded. It is generally dark toned and is expressed topographically by low rounded hills.

Pound Quartzite (Sp)

The Pound Quartzite consists primarily of a massive feldspathic sandstone sequence with minor interbedded shaly layers. It exceeds 9,000 feet in thickness. It is generally thought to be Cambrian in age. However, it

rests conformably on the underlying Wilpena Group and as yet no diagnostic fossils have been found in it. For these reasons it is possible that it belongs to the Adelaide System and is Upper Proterozoic in age.

On the photographs it is a moderately well Bedded unit and is generally dark tone. It is topographically expressed as a series of high well-pronounced ridges.

Structure

The major structural elements in the project area are those which resulted from the early Paleozoic orogeny which folded and faulted the Upper Proterozoic and Lower Paleozoic sediments of Adelaidian Geosyncline. Later tectonic movement appears to have only reactivated the same structural elements along the same structural trends.

Orientation of folds in the area is somewhat at random but the predominant direction is east-west varying to north-west, south-east. In general the flexures are broad open structures and well expressed. Minor folds on the flanks of the large structures are fairly common. Dips in general are quite steep which is somewhat at varience to the openness of the folds.

Faulting in the area likewise displays a somewhat random nature.

However, a number are developed along the same trends as the folds with a pronounced additional orientation in a general north-east, south-west direction. The largest displacement appears to occur on several well developed strike faults. Several transcurrent faults have moderate displacement while the least displacement occurs on the number of short normal faults. A number of lineations have also been mapped in the project area and it is felt that many of these represent faults traces but their displacement is not apparent.

Of structural interest in the project area is the occurrence of several diapiric elements. These do not display typical domal structures. They likewise do not exhibit any preferred structural association. This would tend to indicate that diapiric development predates the main orongeny which deformed and uplifted the Adelaide Geosyncline.

CONCLUSIONS AND RECOMMENDATIONS

In the Flinders Ranges as well as within the actual project area a number of mineral occurrences have been noted. Some of these occurrences and prospects have been developed as economic mines but primarily on a small scale. The primary mineral occurrence is copper but uranium, gold, silver lead and zinc have also been found. Minor occurrences of barytes, magnesite, manganese and asbestos have also been noted. The metallic mineralization is thought to be associated with the emplacement of the younger granite suite.

The metallic mineral deposits do not appear to be confined to any specific stratigraphic horizon, however, in general they do appear more commonly in the tillitic beds of Umberatana Group and in the calcareous beds of the Burra Group and the Umberatana Group. In general the mineral deposits do not seem to indicate a specific structural control in their deposition.

In view of the general observations above it is difficult to present specific targets within the project area which warrant immediate investigation. Consequently the best recommendations that can be advanced are that more detailed surface mapping be undertaken in the calcareous zones and along the tillite contacts. It is also possible that local faulting exerts more control over mineralization than is apparant on the photogeologic map. If a stratigraphic or structural relationship can be established for the mineral occurrences then this can be used to guide later geochemical and geophysical prospecting.

Respectfully submitted,

GEOPHOTO RESOURCES CONSULTANTS

Robert Kopp Senior Geologist

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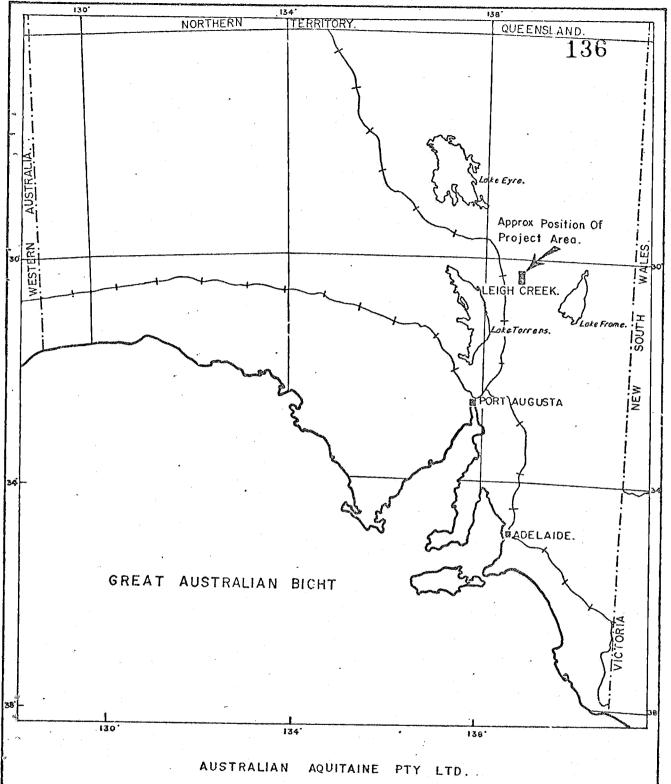
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AUSTRALIAN AQUITAINE PTY LTD.

BURR AREA NORTH FLINDERS RANGE.

SOUTH AUSTRALIA

REGIONAL LOCATION MAP:

SCALE. I" = 120 MILES.



ANNEX. I

SML 481 SOUTH AUSTRALIA

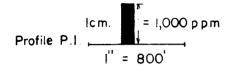
AUSTRALIAN AQUITAINE PETROLEUM PTY LTD.

DRILLING CAMPAIGN 1971
AND
DISTRIBUTION OF COPPER VALUES
GREATER THAN 200ppm. WITH
APPROX. RELATION TO THE GEOLOGY

SCALE

HORIZONTAL I" = 800'

VERTICAL Icm = 1,000 p.p.m.Cu



⊕-- VERTICAL PROJECTION OF DRILL HOLES MTB 1-6

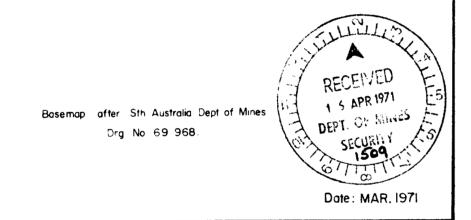
Cu VALUES - SURFACE

Cu VALUES - SUB SURFACE

CONTACT AREA

DIP ROCK

Compiled by S.OGNAR



LEGEND

TINDELPINA SHALE MEMBER: Black fissile pyritic shale with basal buff - brown dolomite.

YUDNAMUTANA SUB-GROUP: Pebbly siltstones, arkoses and gritty quartzites. Lenticular conglomerates. Basal conglomerate and quartzite.

SKILLOGALEE DOLOMITE: Massive grey and brown dolomitic marbles, dolomites and dolomitic siltstones.

Micaceous sandstones, grey pitted siltstones and black shales.

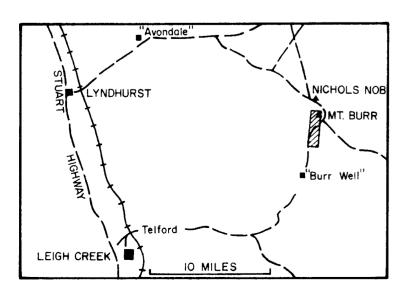
Zone of contact metamorphism: Biotite quartz hornfels and schists, quartz amphibole hornfels and calc. silicate rocks.

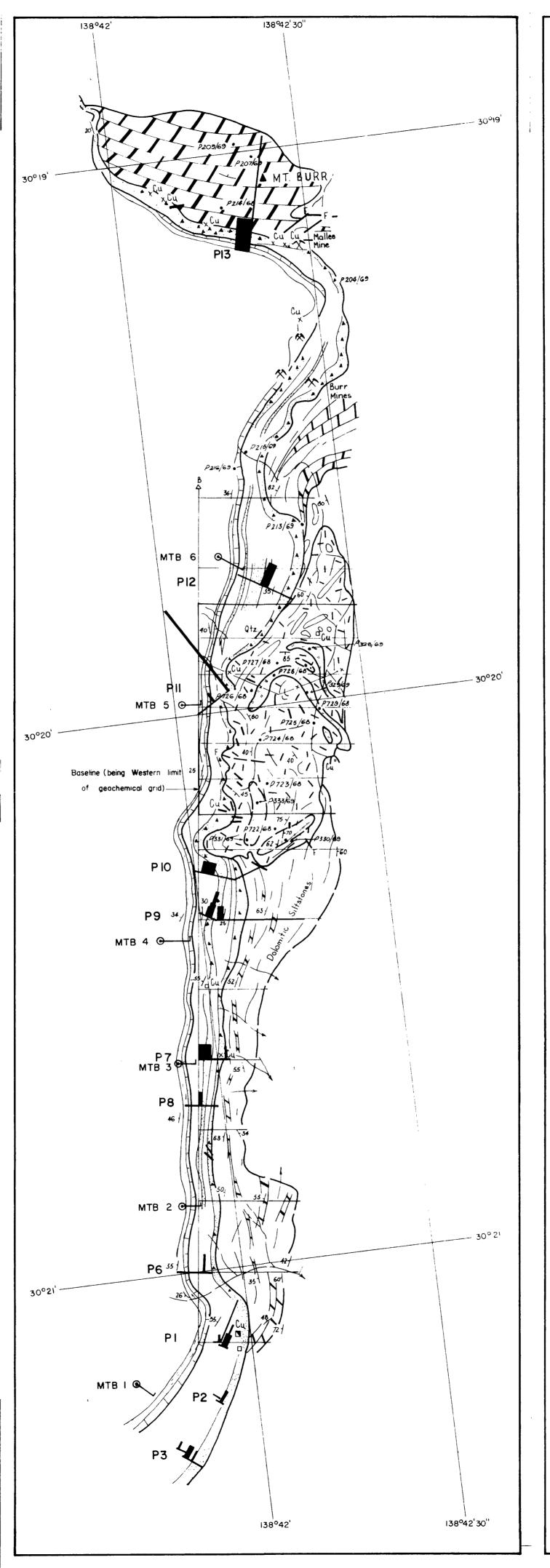
biotite, chlorite amphibole rocks.

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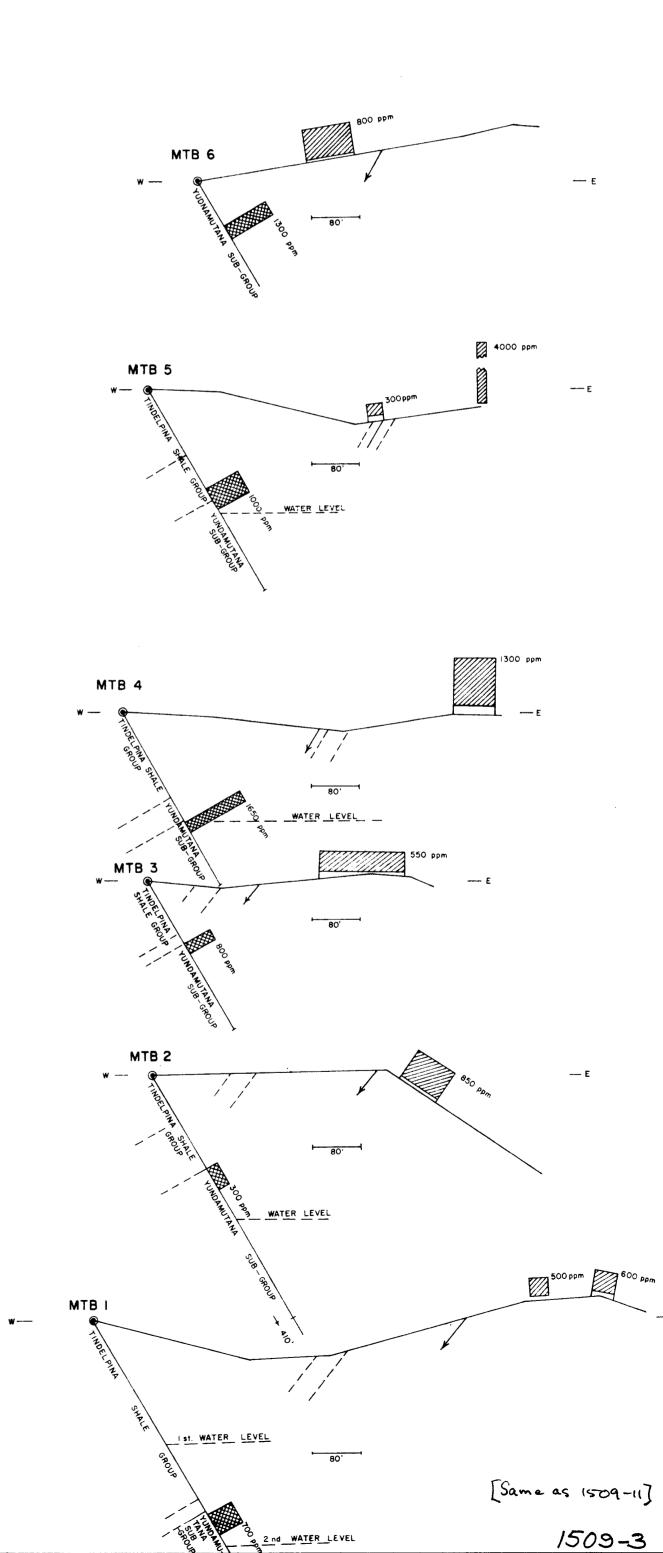
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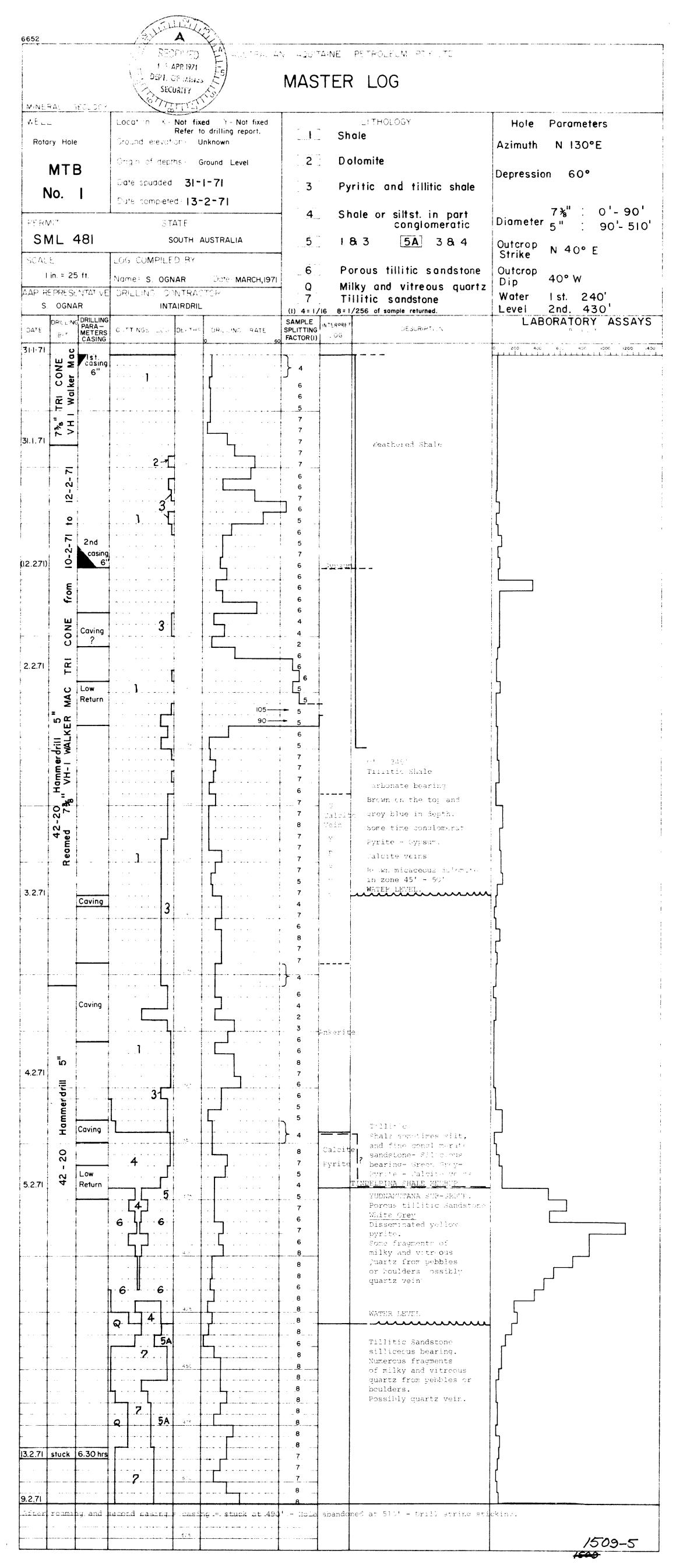
LOCALITY PLAN

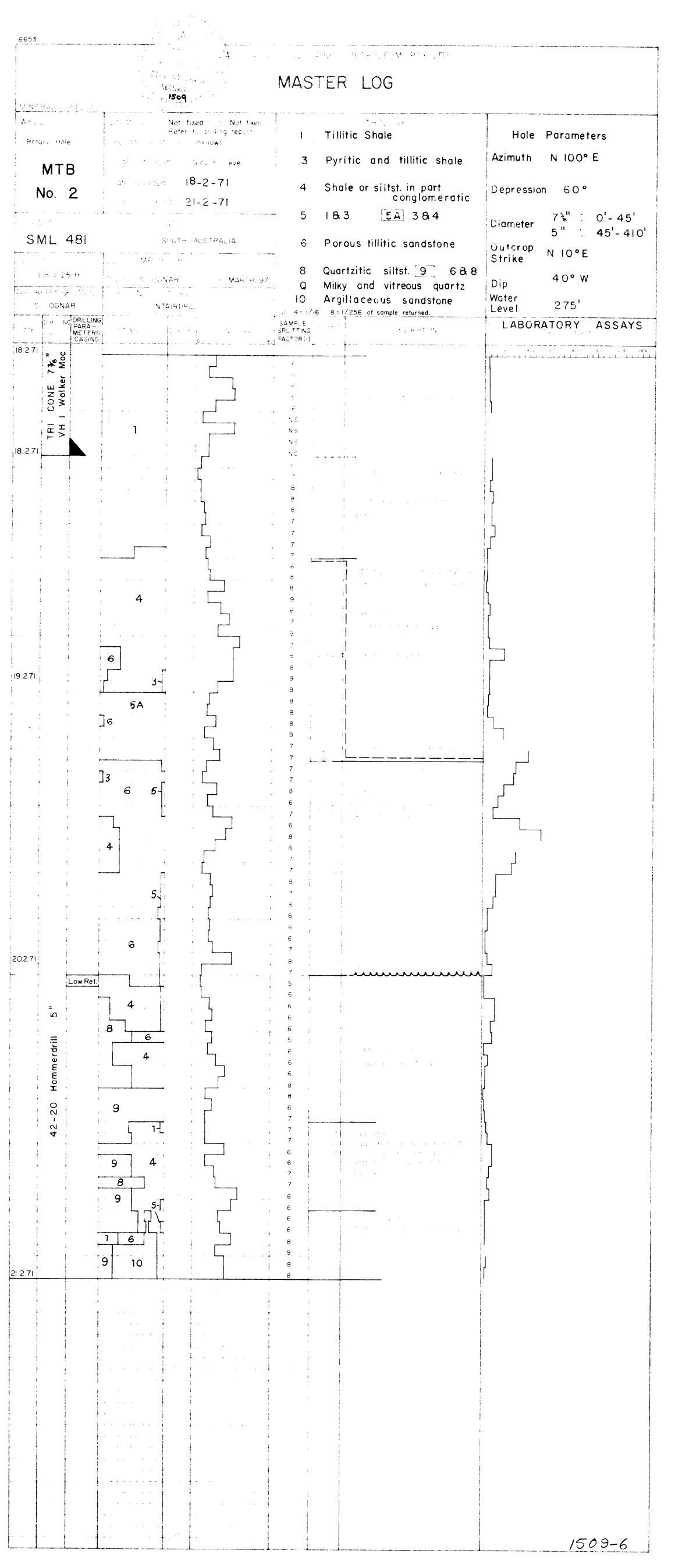




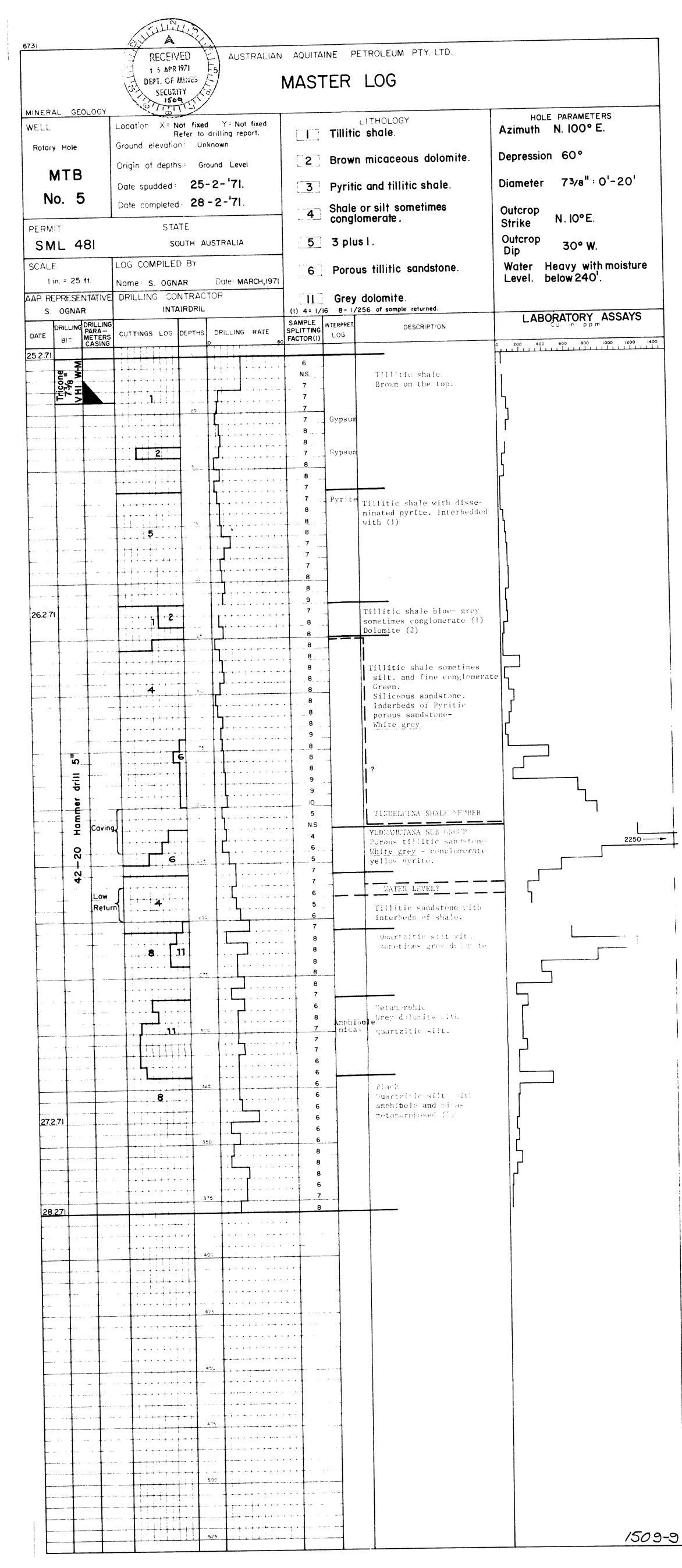
RESULTS OF COMPARISON
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AND SUB-SURFACE

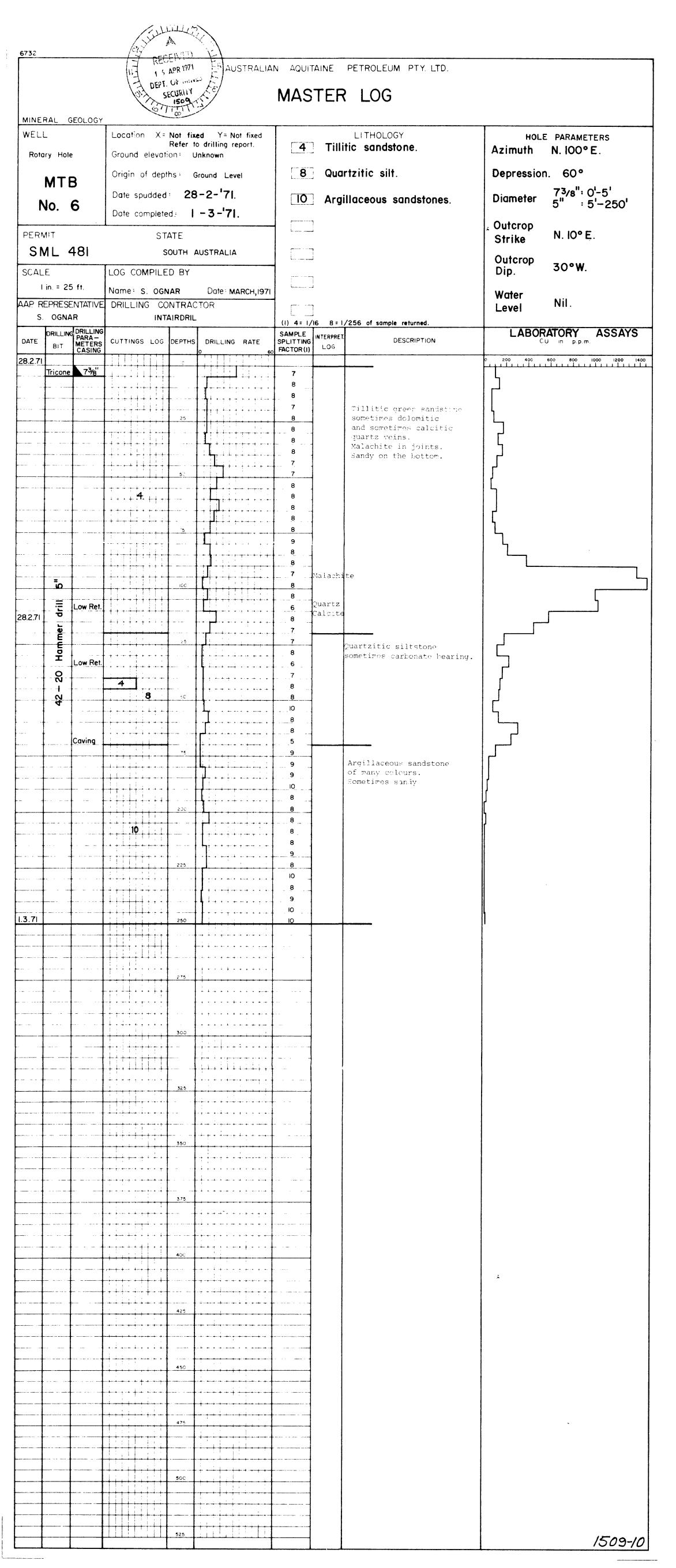






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AUSTRALIAN AQUITAINE PETROLEUM PTY.LTD.

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FINAL REPORT.

SML 481, MT.BURR AREA,

PERIOD APRIL 1971 to JULY, 1971.

B BLANGY.

SEPTEMBER, 1971.

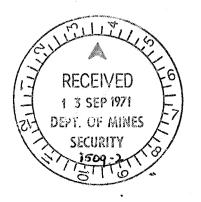
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SML 481, MT.BURR AREA, PERIOD APRIL 1971 to JULY 1971.

This report is not related to a new exploration made in 1971 on SML 481. It is only a critical revision of results obtained in Mt.Burr area.

1. BASE METALS IN STURTIAN GLACIAL SEDIMENTS.

The area studied with some detail is limited to a North South portion of ground between Mt.Burr and Paull Consolidated Mine. The glacial nature of UMBERATANA sediments was already described. Nevertheless a new sampling was made (see location maps) and the samples were carefully studied in thin sections. The results are given in Annex

In conclusion we consider the UMBERATANA sediments of Mt.BURR area as fluvio-glacial facies deposited at a short distance (of 10 to 20 miles) from the main true glacial tillites widely outcropping to the East.

The chip campling made by AAP during November 1970 proved that copper mineralisation was strictly limited to the upper sandstones of UMBERATANA Outcropping below the TINDELPINA SHALES. This mineralisation, after the chip sampling and the percussion drill holes (FEB.1971) is not economic. The paleoclimatic environment of Umberatana Sediments is not favorable to any kind of stratiform deposits. We come to the conclusion that Copper contained in these sandstones is partly detritic, coming from older rocks, or contained in thin Quartz veinlets. We think the only possible

case of dissemination exists with a drastic change of climatic conditions. It looks for example that in Paull Consolidated Mine, copper mineralisation is correlated with a "red beds" horizon.

If these hypotheses are valid, Umberatana beds have no chance to contain economic mineralisation.

2. BASE METALS IN TINDELPINA SHALE MEMBER.

We had some reasons to expect good results in Tindelpina shale exploration:

- the nature of the sediments, (possibly black shales)
- the result of B.M.R. geochemical sampling.
- existence of mineralisation in Tindelpina outside the SML 481 (example Southern Cross).

We consider now that these 3 arguments do not exist anymore.

After the observations made in the field and some thin sections studies, Tindelpina shale member is now considered as a varve post - glacial sedimentation and does not match with the definition of a true BLACK SHALE. In fact we understood rapidly in December 1970 that the mineralisation giving all B.M.R. geochemical answers was contained inside the Umberatana and not in Tindelpina shale (with very few exceptions). This observation was confirmed by A.A.P. percussion drilling. Tindelpina has, nevertheless, a high CLARKE in Cu and other metals.

During a visit to their prospect, kindly granted by Southern Cross, we understood that copper mineralisation was contained inside small quartz filling with hydrothermal paragnesis.

For these reasons we consider we should give up exploration of TINDELPINA shale member in Mt. Burr area.

3. BASE METALS IN WILLOURAN.

The presence of older formations in Mt.BURR anticlines is known but very poorly defined. The photogeological study made by GEOPHOTO shows CALLANNA beds widely distributed on western and northern flanks of Mt.BURR anticline. We had to visit the Willouran formations where they outcrop; in the Mt.PAINTER area. These visits were extremely usefull and allowed our geologist to recognise the same formations in the Mt.BURR area, mainly in two locations, BIG LODE and South Creek.

- The BIG LODE is now considered as being located in the UPPER CALLANNA beds.
- in South Creek area, we were lucky enough to recognise the CALLANNA and find a new extensive copper showing, South of Paull North Extension Mine.

CONCLUSIONS.

- We consider after a geological evaluation of all results obtained by B.M.R. and A.A.P. that Umberatana and Tindelpina, both of glacial origin are not a suitable target for copper exploration.
- Copper may eventually be present in these formations, but either in local red beds or in veins and fractures, of possibly in tillitic pebbles or diapiric floating blocks coming from lower units.
- A possible source to these mineralisations could be the WILLOURAN formations, not fully mapped, sometimes hidden by younger creeks, but sometimes outcropping.

- for these reasons we relinquish SML 481. On the claims pegged in the meantime we intend to explore the Willoura possibilities.

ANNEXES: Sample location map scale 1/50,000.

Sample location map scale 1" - 800'

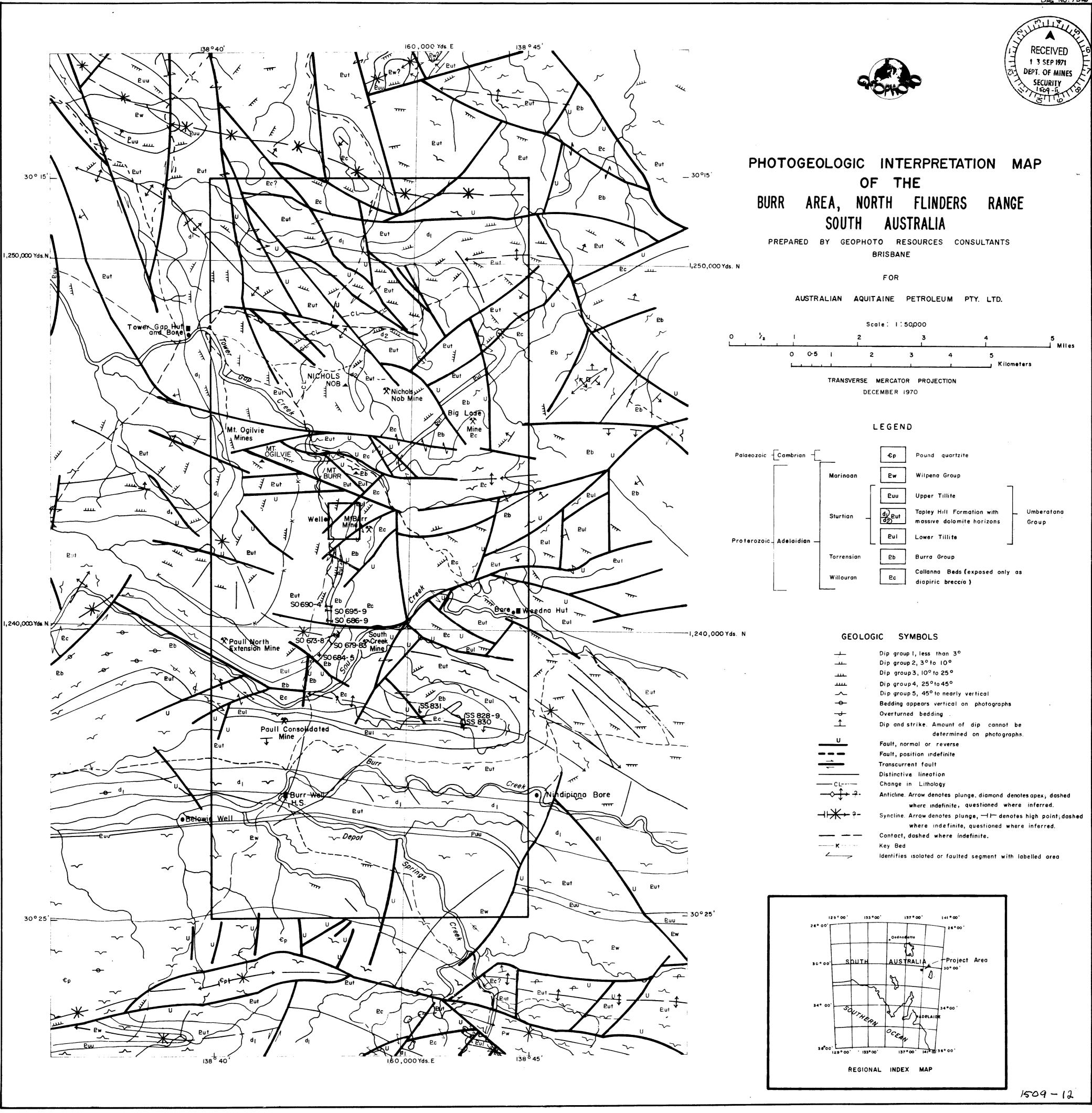
SML 481

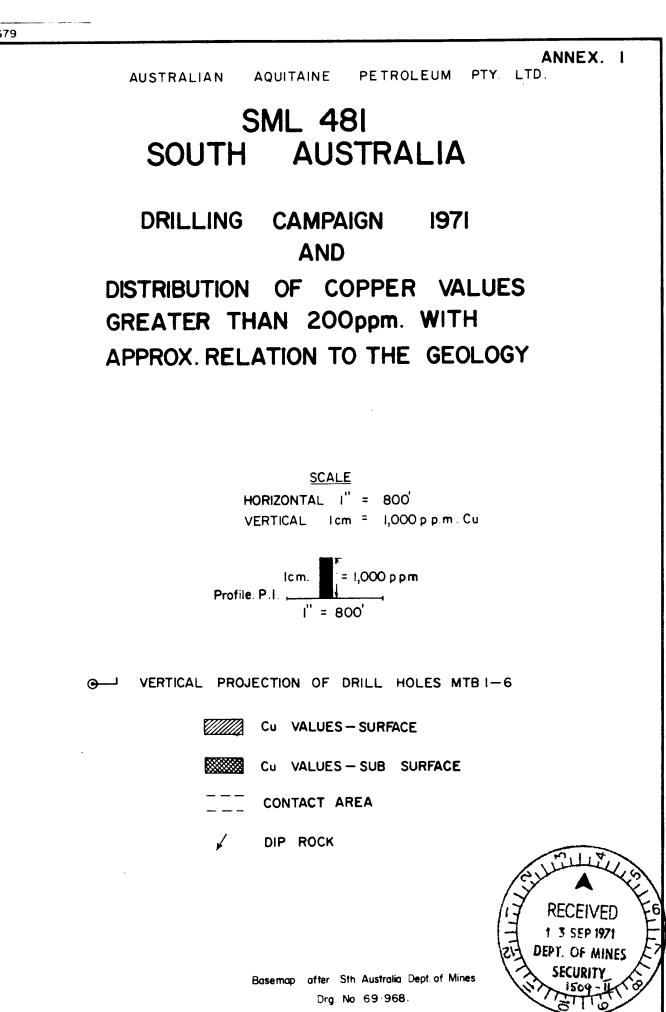
PETROGRAPHIC DESCRIPTIONS

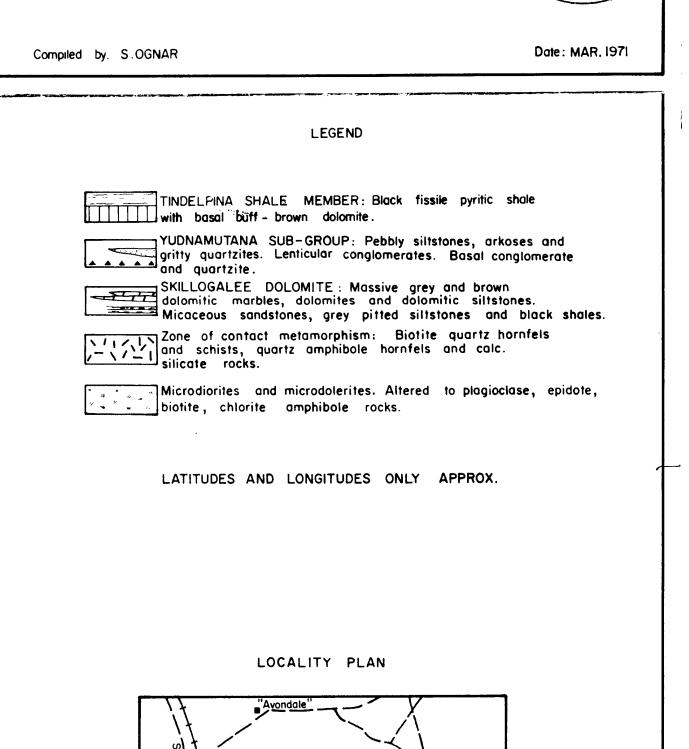
	,		
so	673	_	silt. rare feldspar; some carbonates.
SO	674	_	silt.
S O	675	_	argillaceous sandstone, conglomeratic, coarse, in an argile/carbonate matrix.
SO	676	_	silt.
SO	677	-	argillaceous sandstone.
so	678	-	coarse, polymodel argillaceous sandstone. MICA. PYRITE. CHLORITE.
SO	679	-	silt, varve.
SO	680	-	shale. PYRITE.
S0	681	-	silt.
so	682	-	feldspathic sandstone. conglomeratic. Quartz feldspar. Matrix of silt + silica + carbonates.
SO	684	_	sandstone. fluvioglacial.
\$0	685	-	conglomeratic sandstone. Numerous pebbles of metamorphic and eruptive rocks. Numerous micas in the cement.
SO	686·	-	black varve. Pyrite. Chlorite.
SO	687	_	black varve.
SO	688	-	black shale with pebbles of sedimentary and metamorphic rocks.
SO	689	_	argillaceous sandstone with pebbles.
SO	690	_	silt close to a true varve.
SO	691		quartzitic sandstone.
SO	692	_	sandstone with numerous pebbles.
SO	693	_	sandstone.
SO	694		silt.
SO	695	_	silt with pebbles (angulous). Chlorobiotites.
S0	696	-	silt.
SO	697	-	microbreccia. Chlorite. Illite. Muscivite.
SO	698	-	feldspathic sandstone with carbonate cement. Pyrite quartz concrete by carbonates.
SO	699	-	silt with dolomitic cement.
SO	828	-	feldspathic sandstone. Cement of silt and carbonates.
so	829	-	argillaceous sandstone.
S0	830	-	dolomitic silt.
so	831	-	conglomeratic sandstone. Cement of silt and carbonates. Molodite. Sulphides.
so	683	-	dolomicrite. silicified possible phlogopite.

QUANTOMETER RESULTS SML 481

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1	N° TERRAIN	В	V	Мо	Pb	Zn	Cu	Cr	Nī	Со	Sr	Ba	Ga	Mn	Ag	
	so 673	55	150	≼ 5	≼ 5	8	30	75	10	10	35	400	8	200	≤ 5	i i
	so 675	30	110	≼ 5	≼ 5	7	~ <u>290</u>	40	15	9	15	340	7	120	≤ 5	!
	SO 676	45	120	≤ 5	≼ 5	8	230	60	20	15	50	450	10	60	≤ 5	I
	so 680	45	180	11	8 .	50	≥ 1800	80	45	30	85	490	15	120	≤ 5	1
. !	SO 682	20	! ! 65	≤5	≤ 5	≼ 5	75	30	≤ 5	15	60	50	≤ 5	830	≤ 5	1
!	SO 684	35	130	≤ 5.	13	30	300	40	15	20	≤ 5	175	€ 5	90	≤ 5	1
1	SO 687	75	220	. ≤ 5	< 5	.8	40	100	30	12	25	330	11	130	≤ 5	1
	so 688	30	90	! ! ≼5	≤5	8	200	50	20	6	25	670	≰ 5	40	≤ 5	!
	so 690	35	150	! ≤5	≤5	! ! 6	40	! ! 80	! ≼5	15	40	270	12	210	≤ 5	1
	so 694	30	120	! \$ 5.	≤5	! ≤ 5	960	60	1 12	12	35	250	9	340	! ! ≤ 5	!
	SO 697	1 160	170	! ! ≼ 5	9	! ≤ 5	170	80	20	20	8	290	! ! 7	20	! ! ≼5.	1
!	SS 828	80	1 120	25	≼5	! ! ≼ 5	90	80	9	30	320	8000	l ! 9	4500	! ! ≤ 5	1
	SS 829	85	130	! ≤ 5	! ≼ 5	! ! ≤5	140	80	30	30	! ! 20	1450	8	450	! ! ≼ 5	1
	SS 83.0	50	90	7	! ≤ 5	1 6	! ! 40	70	1 15	! ! 40	1 140	300	8 1	2500	! ! ≤ 5	1
	SS 831	420	130	1 15	! ! 8.	! ! 20	! ≥ <u>1800</u>	80	! ! 30	1 30	1 120	55	1 12	480	! ! ≤ 5	1
		1	1	!	!	1	!	<u> </u>	1	!	!	!	<u>!</u>	1	<u> </u>	i







YNDHURST

IO MILES

LEIGH CREEK

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MT. BURR

