

CSR LIMITED DETAILED DRILL LOG



AREA: 0

PROJECT NUMBER: 603

DATE STARTED: 30/09/80

CO-ORDINATES N: 778288

COLLAR R.L.

AREA OF INFLUENCE

HOLE NUMBER: CG2

STATE: TAS LOCATION

INCLINATION: -96.5

DATE COMPLETED: 04/10/80

E/W: 707600

DEPTH: 440.0

DRILL TYPE: F30

PAGE 1 OF 1
HOLE SIZE: 110 TO 5.8 m
& NR TO 28.9
ASSAY TYPE: BR TO 440.0

AZIMUTH GRID: 2905

CONTRACTOR: ADD
DRILLER: R. FRIMLEY

AMG: 5367800N 327090E

LOGGED BY: R.E. Williams DATE OF LOGGING: SEPT/OCT 1980

DEPTH (m)	SUMMARY DESCRIPTION	VISUAL LOG	LOG SCALE (m)	ROCK TYPE	S.G.	START DEPTH (m)	FINISH DEPTH (m)	SAMPLE NUMBER	ACCEPTED ASSAY							
									Sn	Cu	Zn	Pb	Bi	Ag	Au	
0-32.0	INTERBEDDED GREY SHALES & GREY GREEN SANDSTONES							CG2-602								
0-0.3	Clay soil					0.0	6.5	6.50	0.01c	55	75	440	240	45	2	15
0.3-14.8	Dominantly blackish to brown clay rich oxidized sandstones with minor narrow shale bands. Much of core is badly broken. No sulphides. Bedding variable - shaly shales in massive sets.					6.5	12.0	5.50	0.02c	55	90	0.1%	180	45	3	15
14.8	Base of major weathering zone at 14.8m															
14.8-32.0	Dominantly grey black shales (70%) with interbedded grey and blackish green-grey set units. Shales well bedded < 5°. Clearance // bedding. Fracturing and plane structures give shaly parting.					12.0	19.8	2.80	0.03c	55	60	540	90	35	2	15
19.8	Pyrite mineralization is now (< 3%); predominantly on joint and fracture surfaces.					14.8	21.3	6.50	0.04c	55	80	310	55	40	2	10
21.3	No significant veininess					21.3	27.0	5.70	0.05c	55	70	440	60	50	2	10
32.0-44.0	BECCATED SHALES & SANDSTONES															
32.0	Variable mixture of grey sets, in part masses, in part beccated. Beccated section in shale matrix.					27.0	32.0	5.00	0.06c	55	100	400	320	40	2	20
37.8	No significant veining or sulphide mineralization					32.0	38.0	6.00	0.07c	5	70	300	360	45	2	15
44.0						38.0	44.0	6.00	0.08c	55	70	330	70	50	2	10

889079

CSR LIMITED DETAILED DRILL LOG



AMG

AREA: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

STATE: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

PROJECT NUMBER: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

INCLINATION: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

AZIMUTH T/M/GRID: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

DATE STARTED: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

DATE COMPLETED: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

CONTRACTOR: _____

DRILLER: _____

CO-ORDINATES N/E: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

CO-ORDINATES E/W: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

EM: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

COLLAR: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

R.L.: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

AREA OF INFLUENCE: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

DEPTH: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

DRILL TYPE: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

HOLE NUMBER: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

HOLE SIZE: _____ TO _____

ASSAY TYPE: _____ TO _____

LOGGED BY: R. Williams DATE OF LOGGING: _____

C = chip

DEPTH (m)	RECOVERY (%)	SUMMARY DESCRIPTION	VISUAL LOG	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY						
										Sn	Cu	Zn	Pb	Bz	Ag	Flu
1.10	97.5	44.0 - 59.5 m DOMINANTLY INTERBEDDED GREY (70%) SHALES & SANDSTONES (25%)				44.00	50.00	6.00	667-602-09C	15	60	340	110	35	2	15
1.50	49.0	More black shale bands (5%)														
1.20	51.70	Bedding // cleavage < 70°														
1.20	52.90	Sets massive & frag														
1.20	52.90	More black shale bands are weakly rippled (< 3°)				50.00	55.00		10C	45	70	300	60	30	3	5
2.50	55.80	Grey shales well bedded, facings are shaly														
0.60	55.60	More grey shale clasts in set units														
0.60	57.50	No significant veining or mlkshides														
1.40	58.90	57.5 m (10 cm) rubble of qtz-cb veins				55.00	59.50		11C	45	75	300	40	35	5	5
2.10	60.90	59.5 - 67.9 m MASSIVE FG-FMG GREY SANDSTONE WITH MNR GREY SHALE BANDS														
0.90	61.80	No significant veining or mlkshides														
2.50	63.95	DOMINANTLY GREY TO BLACK SILICEOUS SHALES (60%) WITH INTERBEDDED FMG GREY SETS (40%)				59.50	69.00		12C	5	70	260	35	20	1	3
0.85	64.8															
1.50	65.9															
1.90	67.8															
3.0	70.8															
3.0	73.8	Slabs massive with locally cleavage (~70° CA) only in black clay rich bands				69.00	67.80		13C	5	60	240	40	25	2	3
2.75	76.15															
0.65	76.8															
3.0	79.8	Weak (~1mm) qtz-cb veining overall at 75.20 m - 2 x 10 mm cb veins				67.80	74.50		14C	45	60	230	125	50	2	10
3.0	82.8	Veining < 5° variable														
2.4	85.2	Bedding // cleavage < 55-60°														
0.6	85.9	78.6 - 83.60 m MASSIVE FMG GREY SANDSTONE, MNR GREY SHALE BANDS				79.50	78.60		15C	5	65	185	40	40	3	10
1.4	87.2	Bedding variable < 95-60°														
1.6	88.8	bedding → shaly facings				78.60	83.60		16C	45	125	170	40	40	2	5
1.6	88.8	No mlkshides														
1.6	88.8	V. rare qtz-cb veining														
		83.60 - 88.94 m INTERBEDDED GREY SHALES (60%) & GREY SANDSTONES (40%)				83.60	87.94		17C	45	50	370	130	30	1	10
		bedding → shaly facings														
		Cleavage (weak) // bedding < 45-60°				87.94	88.94		18C	15	290	110	70	45	1	5
		Weak qtz-cb veining														
		No mlkshides														

CSR LIMITED DETAILED DRILL LOG



AREA: 01 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
 STATE: 27 28 29 LOCATION: 30 31 32 33 34 35 36 37
 PROJECT NUMBER: 38 39 40 INCLINATION: 41 42 43
 AZIMUTH T/M/GRID: 44 45 46 47 48 49
 DATE STARTED: 50 51 52 53 54 55 56 57 58 59 60
 DATE COMPLETED: 61 62 63 64 65 66 67 68 69 70
 CONTRACTOR: 71 72 73 74 75 76 77 78 79 80
 DRILLER: 81 82 83 84 85 86 87 88 89 90
 CO-ORDINATES N/S: 91 92 93 94 95 96 97 98 99 100
 E/W: 101 102 103 104 105 106 107 108 109 110
 COLLAR R.L.: 111 112 113 114 115 116 117 118 119 120
 AREA OF INFLUENCE: 121 122 123 124 125 126 127 128 129 130
 DEPTH: 131 132 133 134 135 136 137 138 139 140
 DRILL TYPE: 141 142
 HOLE NUMBER: 143 144 145 146 147 148 149 150
 HOLE SIZE: 151 TO 154
 ASSAY TYPE: 155 TO 158
 LOGGED BY: R.E.N. DATE OF LOGGING: SEPT/OCT 1990

METERS	CORE RECOVERY	SUMMARY DESCRIPTION	VISUAL LOG	LOG SCALE	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY										
											Sn	Cu	Zn	Pb	Bi	Ag	Au
3.0	91.8	88.94 - 89.80 m QZ-CB-SULPHIDE COMPOSITE VEIN WITH INCLUDED FRAGMENTS OF GREY SST - HOST ROCK					88.94	89.80		195	1.15	52.0	5.4%	4.75%	70	12.4	5.5				
3.0	94.8	Veining mainly cb (siderite), bedding < 70-85°					89.80	90.80		205	4.5	30	9.2%	4.20	60	3	2.0				
3.0	97.8	After contact < 80°, lower ~ 80°					90.80	97.00		210	1.0	7.5	0.16%	3.10	50	2	5				
1.1	98.9	Sulphides as discrete aggregates, massive veins to 10mm and as zoned veining estimated 107 gm; 5 1/2 sp.					97.00	103.50		220	4.5	8.5	10.5	5.5	50	2	5				
2.4	101.0	88.90 - 119.50m INTERBEDDED GREY SSTs (70%) AND LAMINATED GREY SHALES (30%)																			
3.0	104.0	Bedding < 50-70°																			
3.0	107.0	Nil sulphides except with minor qtz-cb veins					103.50	110.00		230	4.5	60	19.0	80	50	2	3				
3.0	110.0	qtz-cb 2 cb veining weak and irregular (50%) or // bedding planes (50%); only minor sulphides except																			
3.0	113.0	@ 90.30 3cms composite banded qtz-cb veins < 45°; minor (5) sp-gr.					110.00	115.00		240	4.5	60	1.10	4.5	4.5	2	2.0				
3.0	116.0	@ 93.0 4 cms vein as above except < 70°																			
3.0	119.0	@ 93.8 5 cms vein as above < 60° - appears to be first stage laminae zone filling with 2nd stage of cb sulphides open space veining					115.00	119.50		250	4.5	7.5	11.5	50	50	2	3				
3.0	122.0	@ 95.0 5 cms wide qtz-cb vein in massive sst's; contact < 70°, no sulphides																			
3.0	125.0	@ 103.50 irregular qtz-cb vein over 5-10 cms					119.50	125.00		260	60	30	0.5%	29.0	50	3	4.3				
3.0	128.0	bedding & plane structures gone up till facing																			
2.35	129.35	119.50 - 125.0m FG. GREY-CREAM SANDSTONE WITH MINOR INTERBEDDED GREY-BLACK SHALE																			
0.40	125.0	Unit is brecciated with cream coloured cb veining ranging from massive cb vein 15cms wide to brecciated zones healed with cb veining to stronger veining of cb.																			
		Most veining is irregular																			
		Nil sulphides except 15 cms cb vein at 120.50m has blotchy aggregates sp-gr (< 10% over 15cms)																			

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CSR LIMITED DETAILED DRILL LOG



AREA: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
 PROJECT NUMBER: 34 35 36 37
 DATE STARTED: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
 DATE COMPLETED: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
 CONTRACTOR: _____
 DRILLER: _____
 CO-ORDINATES N/S: 12 13 14 15 16 17 18 19 20 21
 COLLAR R.L.: 01 02 03 04 05 06 07
 AREA OF INFLUENCE: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 HOLE NUMBER: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 STATE: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 LOCATION: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 INCLINATION: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 AZIMUTH T/M/GRID: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 LOGGED BY: _____ DATE OF LOGGING: _____
 HOLE SIZE: _____ TO _____
 & _____ TO _____
 ASSAY TYPE: _____ TO _____

METERS	SUMMARY DESCRIPTION	VISUAL LOG	LOG SCALE	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY						
										Sn	Cu	Zn	Pb	Psi	Ag	Au
125.0 - 132.0	INTERBEDDED CREAM SST (40%) AND GREY BLACK SHALES (60%) Shale units irregular with disrupted contacts - appears to be soft rock deformation grading and flame structures give off-hole facies. No significant sulfides 2 1/2 - cb veining weak except @ 127.0 15 cms of brecciated rods healed with veining @ 131.40 - 132.0 2-10mm wide irregular cb vein running along core axis					125.00	132.00		27c	5	75	310	160	50	2	15
132.0 - 139.20	MASSIVE OLIVE GREY FMC SANDSTONE (85%) WITH INTERBEDDED GREY BLACK SHALE (15%) Shale also as infillings in brecciated sections of SSTs. Shale units disrupted - soft rock deform. Nil sulfides Near to nil 9 1/2 - cb veining except @ 133.90 - 5 cms 9 1/2 - cb vein.					132.00	139.20		28c	5	90	110	60	55	2	3
139.20 - 150.30	INTERBEDDED OLIVE GREY SANDSTONE (50%) WITH GREY BLACK SHALES (50%) Narrower shale units are deformed (soft rock) grading to off-hole facies Weak 9 1/2 - cb veining (irregular) except 145.50 - 10 cms 9 1/2 - cb veining with included rot rock. Nil sulfides					139.20	145.00		29c	5	75	130	40	55	2	3
150.30 - 155.00	INTERBEDDED OLIVE GREY SANDSTONE (50%) WITH GREY BLACK SHALES (50%) Narrower shale units are deformed (soft rock) grading to off-hole facies Weak 9 1/2 - cb veining (irregular) except 145.50 - 10 cms 9 1/2 - cb veining with included rot rock. Nil sulfides					145.00	150.30		30c	5	65	110	40	50	2	3
155.00 - 160.00	INTERBEDDED OLIVE GREY SANDSTONE (50%) WITH GREY BLACK SHALES (50%) Narrower shale units are deformed (soft rock) grading to off-hole facies Weak 9 1/2 - cb veining (irregular) except 145.50 - 10 cms 9 1/2 - cb veining with included rot rock. Nil sulfides					150.30	155.00		31c	5	85	490	160	55	3	13
160.00 - 165.00	INTERBEDDED OLIVE GREY SANDSTONE (50%) WITH GREY BLACK SHALES (50%) Narrower shale units are deformed (soft rock) grading to off-hole facies Weak 9 1/2 - cb veining (irregular) except 145.50 - 10 cms 9 1/2 - cb veining with included rot rock. Nil sulfides					155.00	160.00		32c	5	60	310	110	40	2	5
165.00 - 170.00	DOMINANTLY INTERBEDDED GREY & BLACK SHALES (85%) AND GREY SANDSTONES (15%) Grading & flame structures to off-hole facies SST units are brecciated and healed with shale Considerable deformation of bedding in some shale sections More regular sections to bedding L 55-70 Sulfides - 3% py overall - in black shale units - in well bedded sections the py forms aggregated bands on bedding planes (max 2mm) - in deformed bedding sections the py forms aggregates to 4mm dia 2 1/2 - cb veining irregular & variable - weak with patches of moderate veining (170.0 - 173.50) Cleaning // to bedding					160.00	165.00		33c	5	55	100	50	49	2	13
170.00 - 176.00	DOMINANTLY INTERBEDDED GREY & BLACK SHALES (85%) AND GREY SANDSTONES (15%) Grading & flame structures to off-hole facies SST units are brecciated and healed with shale Considerable deformation of bedding in some shale sections More regular sections to bedding L 55-70 Sulfides - 3% py overall - in black shale units - in well bedded sections the py forms aggregated bands on bedding planes (max 2mm) - in deformed bedding sections the py forms aggregates to 4mm dia 2 1/2 - cb veining irregular & variable - weak with patches of moderate veining (170.0 - 173.50) Cleaning // to bedding					165.00	170.00		34c	5	70	200	95	40	2	3
176.00 - 177.00	DOMINANTLY INTERBEDDED GREY & BLACK SHALES (85%) AND GREY SANDSTONES (15%) Grading & flame structures to off-hole facies SST units are brecciated and healed with shale Considerable deformation of bedding in some shale sections More regular sections to bedding L 55-70 Sulfides - 3% py overall - in black shale units - in well bedded sections the py forms aggregated bands on bedding planes (max 2mm) - in deformed bedding sections the py forms aggregates to 4mm dia 2 1/2 - cb veining irregular & variable - weak with patches of moderate veining (170.0 - 173.50) Cleaning // to bedding					170.00	176.00		35c	5	100	0.2%	500	55	3	13

100% CORE RECOVERY & ALL 3 METRE RUNS.

889082

CSR LIMITED DETAILED DRILL LOG



AREA: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
 PROJECT NUMBER: 24 25 26
 DATE STARTED: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 DATE COMPLETED: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 STATE: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 LOCATION: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 INCLINATION: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 AZIMUTH T/M/GRID: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 CONTRACTOR: _____
 DRILLER: _____
 CO-ORDINATES N/S: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 E/W: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 COLLAR R.L.: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 AREA OF INFLUENCE: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 DEPTH: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 DRILL TYPE: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 LOGGED BY: _____ DATE OF LOGGING: _____
 HOLE NUMBER: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 PAGE ____ OF ____
 HOLE SIZE: _____ TO _____
 & _____ TO _____
 ASSAY TYPE: _____ TO _____

METERS	SUMMARY DESCRIPTION	VISUAL LOG	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY						
									Sn	Cu	Zn	Pb	Bi	Pg	Flu
176.0 - 193.80m	INTERBEDDED GREY SANDSTONES (50%) AND GREY (MNR BLACK) SHALES (50%) Shale units are narrow and disrupted. Bedding ² variable ⁵⁰⁻⁸⁵ Clearance // bedding Nil sulfides 2 1/2 - cb veining 176.0 - 182.0m moderate, narrow (< 3mm) irregular veining with some 10mm regular veining at ⁵ from 40-70° 182 - 193.80m nil to weak veining Facing is uphole				176.00	182.50		36	S	SS	100	SP	SP	2	LS
					182.50	188.00		37	LD	11S	110	SP	40	2	LS
					188.00	193.80		38	S	SS	110	45	45	2	3
193.80 - 197.20m	MASSIVE GREY GREEN FG SANDSTONE (90%) WITH MNR GREY SHALE INTERBEDS (5%) Nil sulfides Weak irregular narrow qtz - cb veins				193.80	197.20		39	LS	40	80	40	40	2	5
197.20 - 200.0m	MASSIVE FG CREAM BUFF COLOURED SANDSTONE (90%) MNR (10%) NARROW DK GREY TO CREAM SHALE INTERBEDS. Bedding ² 80-50° Clearance // bedding Moderate cb veining with mnr sulfides				197.20	200.00		40	LD	40	0.13%	190	40	3	5
					200.00	206.50		41	S	60	190	100	35	2	5
200.0 - 212.20m	INTERBEDDED SHALES & SANDSTONES Rapid alternation of shales & ssls with disrupted bedding Sets fg - cream to grey; shales cream - grey - black Cb veining weak to moderate Weak veins (1-2mm) // to bedding in shaly sections Composite (open phase) qtz - cb veins with ² 30° @ 205.0m (10mm wide) 211.0m (15mm ") 201.0m 15mm massive qtz - cb vein with mnr (5%) dk fg sulfide (sphalerite) Sulfides - mnr aggregates (² 1%) py in black shale				206.50	212.20		42	LS	50	180	55	40	2	10
					212.20	217.00		43	LS	40	110	40	40	2	3
212.20 - 217.0m	DOMINANTLY MASSIVE FG-FML GREY - GREEN SANDSTONE (90%) WITH INTERBEDDED GREY SHALE (10%) Weak irregular qtz - cb veining in sst units (not in shales)														

100% CORE RECOVERY - & ALL 3m RUNS

5

889083

CSR LIMITED DETAILED DRILL LOG



AREA: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 PROJECT NUMBER: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 DATE STARTED: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 DATE COMPLETED: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 STATE: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 LOCATION: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 INCLINATION: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 AZIMUTH T/M/GRID: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 CONTRACTOR: _____
 DRILLER: _____
 CO-ORDINATES N/S: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 E/W: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 COLLAR R.L.: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 DEPTH: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 AREA OF INFLUENCE: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 DRILL TYPE: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 HOLE NUMBER: 01-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-00
 DATE OF LOGGING: 01-02 03-04 05-06 07-08 09-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52 53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92 93-94 95-96 97-98 99-00
 HOLE SIZE: _____ TO _____
 & _____ TO _____
 ASSAY TYPE: _____ TO _____

METRES	SUMMARY DESCRIPTION	VISUAL LOG	LOG SCALE	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY						
										Sn	Cu	Zn	Pb	Ba	Ag	Au
217.0 - 228.0	INTERBEDDED CREAM TO GREY SANDSTONES & GREY TO BLACK SHALES Rapid variation of bedding Black, in part moderate, irregular cb, g ₃ -cb veining At 228.0m - 10cm section of semi-massive cb with inclusions of angular fragments of hard rock = healed brecciated zone? Mnr py in black shale Facies quartzite.					217.00	223.00		44c	10	55	470	170	50	3	5
228.0 - 231.50	DOMINANTLY BLACK SHALE (85%) MNR GREY SHALE (15%) Bedding disrupted: moderate g ₃ -cb veining mainly fine (1-2mm) // to bedding or irregular; several massive veins to 15mm // to bedding Mnr py (<3%) cleavage roughly // to bedding					228.00	231.50		46c	5	55	230	150	45	3	3
231.50 - 245.20	INTERBEDDED GREY-GREEN SSTS AND BLACK & GREY SHALES. Bedding disrupted Mnr py (total <<1%) aggregates in black shale Mnr g ₃ -cb veining - bedding plane veins and rare irregular veins					238.00	245.20		48c	45	65	160	50	40	2	3
245.20 - 269.15m	INTERBEDDED FG. SSTS, SILTSTONES AND SHALES. V. MNR BLACK SHALE UNITS Dominantly pale grey green in colour; Set units are massive Bedding < 50-70° - some bedding both disrupted. g ₃ -cb veining in weak overall - significant on below D 250m - several narrow (1cm max) irregular <30° vein mnr py 252.70m 1cm vein D <30° 254.50m 15mm vein D <30° 261.0m irregular vein 2cm D <30-40° 262.70-90 irregular narrow veining 266.70-267.10 irregular g ₃ -cb vein from 1mm to 20m wide along core axis 268.0 1cm vein D <30° Sulfides - mnr py in veining; mnr py in black shale bands - as aggregates on bedding planes					251.00	257.50		50c	5	115	120	45	45	2	3
						257.50	263.00		51c	55	115	120	45	40	3	3
						263.00	269.15		52c	5	55	145	70	45	2	3

100% CORE RECOVERY - ALL 3 METRE RUNS

889084

CSR LIMITED DETAILED DRILL LOG



AREA: [11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27] PROJECT NUMBER: [28 29 30] DATE STARTED: [31 32 33 34 35 36 37] CO-ORDINATES N/S: [38 39 40 41 42 43 44 45 46 47] COLLAR R.L.: [48 49 50 51 52 53 54 55] AREA OF INFLUENCE: [56 57 58 59 60 61 62 63 64] HOLE NUMBER: [65 66 67 68 69 70 71 72 73 74]

STATE: [75 76 77] LOCATION: [78 79 80 81 82 83 84 85 86 87] INCLINATION: [88 89 90] DATE COMPLETED: [91 92 93 94 95 96 97] E/W: [98 99 100 101 102 103 104 105 106 107] DEPTH: [108 109 110 111 112 113 114 115] DRILL TYPE: [116 117 118] PAGE: [119] OF [120]

AZIMUTH T/M/GRID: [121 122 123 124 125 126 127 128 129 130] CONTRACTOR: _____ LOGGED BY: _____ DATE OF LOGGING: _____ HOLE SIZE: _____ TO _____ & _____ TO _____ ASSAY TYPE: _____ TO _____

7.

METRES	SUMMARY DESCRIPTION	VISUAL LOG	LOG SCALE	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY						
										Sn	Cu	Zn	Pb	Ri	Pes	Au
269.15 - 270.40	MASSIVE PLE CREAM-GREEN FINE SST-SILTSTONE WITH CB MATRIX. MNR BRECCIATED BLACK & GREY SHALE INCLUSIONS. Bedding \angle 60-90° blocky, irregular qz -cb veining. No significant sulfides.					269.15	270.40		602-053	25	65	80	60	40	2	3
270.40 - 274.50	INTERBEDDED GREY TO GREY-GREEN MASSIVE SILTSTONE/SST AND GREY TO GREEN SHALES. Shales has deformed bedding; some bedding \angle 60°. Irregular qz -cb veining in brecciated zone.					270.40	281.00		054	45	20	120	30	30	2	45
271.0 - 271.30	mnr aggregates of py in shales of above unit					281.00	287.50		055	45	15	120	40	45	1	10
274.50 - 329.80	DOMINANTLY INTERBEDDED RED SANDSTONE/SILTSTONE/SHALE POSSIBLY PARTLY WATERLAIN PYROCLASTICS. Majority of siltstone is deep red brown in colour. Finer grained unit (shales) often shows deformed bedding (high energy environment?). grading in coarse grained units grain affected. Change // bedding in fine grained units. bedding \angle vary 80-60°. Flow Units: greenish columnar sst/shale at 274.80-275.10 with massive irregular qz -cb veining. 289.30-289.70 red & green sst/sh. 303.60-303.80 ple greenish. 318.10-326.90 red gray qz -cb sst greenish sst/shales.					287.50	294.00		056	45	40	115	40	45	2	5
						294.00	300.50		057	5	15	110	40	40	2	5
						300.50	307.00		058	45	140	125	40	35	2	5
						307.00	313.50		059	140	35	75	40	40	2	15
	273-Cb veining irregular & variable. (1) fine (\leq 2mm) regular @ \angle 30° with variable intensity, is. nil to minor (weak to mod) at 250 m. (2) Massive (to 3 cms) irregular veins with no sulfides.					313.50	320.00		060	40	350	130	45	40	2	5
	Sulfides: narrow bands of sp-gr-py associated with bleached zones at: 283.50 - 5 mm wide stringer zone @ 70° in bleached zones 15 cms wide. 287.50 - 1 cm wide sp-gr stringer @ \angle 60° in 5 cms bleached & matrix qz -cb veined zones.					320.00	325.00		061	5	20	100	45	40	1	5
						325.00	328.90		062	15	35	125	45	50	2	10

100% CORE RECOVERY - ALL 3 METRE RUNS!

88085

CSR LIMITED DETAILED DRILL LOG



AREA: [11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26] PROJECT NUMBER: [34 35 36] DATE STARTED: [] CO-ORDINATES N/S: [11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26] COLLAR R.L.: [] AREA OF INFLUENCE: [] HOLE NUMBER: []
 STATE: [] LOCATION: [] INCLINATION: [] AZIMUTH TM/GRID: [] DATE COMPLETED: [] E/W: [] DEPTH: [] DRILL TYPE: [] HOLE SIZE: [] TO: []
 CONTRACTOR: [] DRILLER: [] LOGGED BY: [] DATE OF LOGGING: [] ASSAY TYPE: []

METRES	SUMMARY DESCRIPTION	VISUAL LOG	ROCK TYPE	S.G.	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER	ACCEPTED ASSAY						
									Sn	Cu	Zn	Pb	Bi	Ag	Au
346 - 364.60m (CONT'D)	Sulfides - patchy massive sulfides (py) on bedding planes in black shale units - where soft rock deformation has occurred, the py has formed botchy aggregates - py ~ 2% in black shale units				358:00	364:60		068c	45	90	175	70	45	2	55
	Soft rock deformation of black and grey shale units is characteristic and is different to that in the grey green shales. Bedding 45-70°. Mass weak qtz-cb veining														
364.60 - 374.0	INTERBEDDED GREY GREEN MASSIVE SANDSTONES & SHALES				364:60	369:00		069c	5	85	155	55	55	2	20
	Bedding disrupted - 45° vary from 45-70° to part the fine grained material has flowed. Weak cb & qtz-cb veining. Now py with veining				369:00	374:00		070c	5	60	130	40	55	2	15
374.0 - 377.50	BRECCIATED & CB VEINED PIE GREY-GREEN SHALES & GREYWACKES				374:00	377:50		071c	5	50	390	125	55	2	10
	Lower contact is gradual. 2 1/2" - cb veining (complex) - several phases of veining @ 374.15 6 cms wide, bleaching extends 10 cms each side. @ 367.70 25 cms wide complex vein with mpy - bleaching extends above & below. & other more narrow (< 1cm) veining. No significant sulfides.														
377.50 - 386.15m	MASSIVE LITHIC SSTS & INTERBEDDED MUDSTONES.				377:50	382:00		072c	45	115	140	45	50	2	5
	Some mass gnl zones. (70% SST, 30% Mudstone) Colour is distinct - brick red brown. Bedding core 45-90°. Weak to moderate qtz-cb veining variable core < 3" thickness mainly < 2mm. No significant sulfides.				382:00	386:15		073c	5	15	120	40	40	2	3

100% CORE RECOVERY - ALL 3 METRE RUNS.

880087



LOG SHEET

1-2

Area _____ State _____ Prospect No. _____ 1:100,000 Sheet _____ Title _____ Hole No. CG 2.

SURVEY DATA

DEPTH	AZIMUTH	ANGLE	COMMENTS
0	277° MAG	-46.5	COMPASS & CLINOMETER
125m	281° MAG	-43°	EASTMAN SINGLE SHOT CAMERA
175m	282.5° MAG	-37.75°	" "
225m	284° MAG	-33°	" "
275m	283° MAG	-29°	" "
315m	-	-27.5°	" " READING IN RODLINE, LANDING COLLAR REMOVED
360m	-	-26°	" " " " " "

DOWN HOLE CALCULATIONS

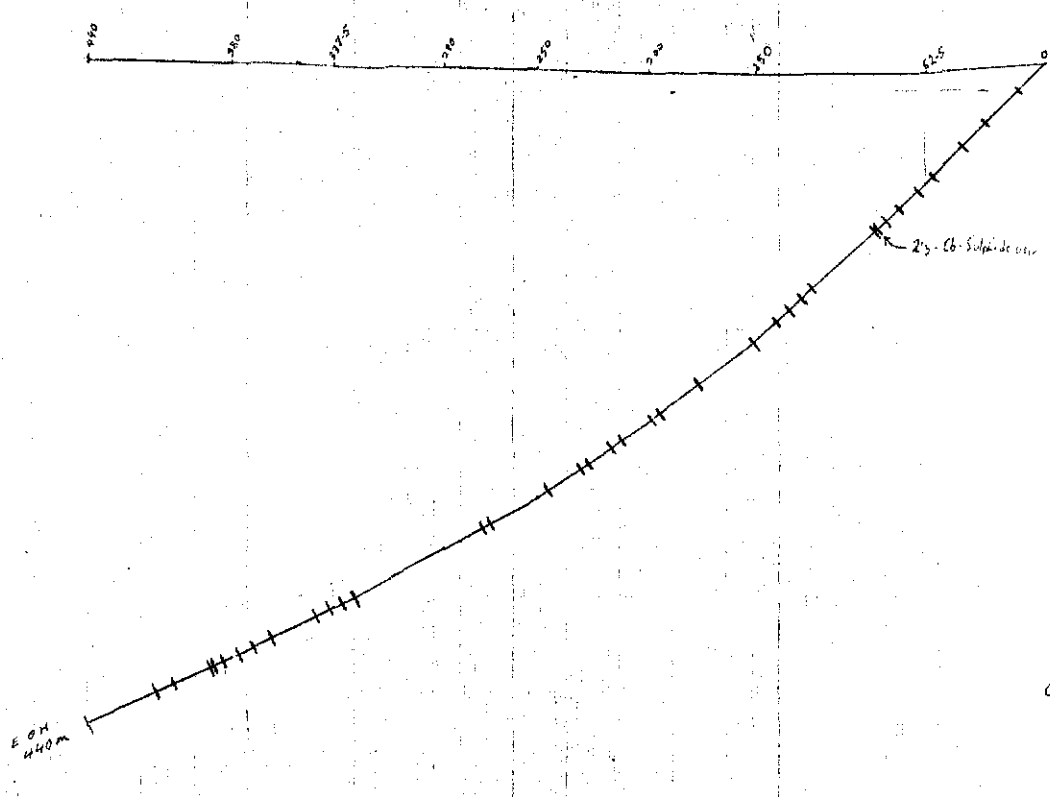
FROM	TO	DISTANCE	ANGLE	GRID BEARING	VERTICAL ADVANCE	R.L.	HORIZONTAL ADVANCE	LATITUDE	DEPARTURE
0	62.5	62.5	-46.5°	290.5	-45.33	-45.33	42.02	+15.06	-40.29
62.5	150	87.5	-43°	294.5	-57.67	-105.00	63.99	+26.54	-58.23
150	200	50	-37.75°	296	-30.61	-135.61	39.53	+17.73	-35.53
200	250	50	-33	297.5	-27.23	-162.84	41.93	+19.36	-37.19
250	290	40	-29	296.5	-19.39	-182.23	39.98	+15.06	-31.30
290	337.5	47.5	-27.5	296.5*	-21.93	-204.16	42.13	+18.90	-37.70
337.5	390	42.5	-26	296.5*	-18.63	-222.79	38.20	+17.04	-34.18
380	440	60	-25*	296.5*	-25.38	-248.17	54.38	+24.26	-48.66

* = ASSUMED READINGS.

880606

Area _____ State _____ Prospect No. _____ 1:100,000 Sheet _____ Title _____ Hole No. _____

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BASE OF UNCONFORMITY

CROSS SECTION OF DDH 036

DRAWN ON PLANE 335° 00' W
LOOKING BEARING 34°

SCALE 1:2000

5 cm

889091