LONG-SECTIONS.

(DH004PR. "! THE IMPERI ANVIL !" PLUNGE = 000 OFFSET = 70.7
OBJECT)

NAME	POINT-1 NORTHING	POINT-1 EASTING	POINT-2 NORTHING	POINT-2 EASTING	ELEVATIONS UPPER	ELEVATIONS LOWER
14+00 ✓	8,750.0	13,250.0	6,500.0	15,500.0	4400.0	2900.0
14+125 ✓	8,838.4	13,338.4	6,588.4	15,588.4	4400.0	2900.0
16+00 ✓	8,950.0	13,450.0	6,700.0	15,700.0	4400.0	2900.0
17+00 ✓	9,050.0	13,550.0	6,800.0	15,800.0	4400.0	2900.0
18+00 ✓	9,150.0	13,650.0	6,900.0	15,900.0	4400.0	2900.0
19+00 ✓	9,250.0	13,750.0	7,000.0	16,000.0	4400.0	2900.0
19+94 ✓	9,316.5	13,816.5	7,066.5	16,066.5	4400.0	2900.0
20+26 ✓	9,368.4	13,868.4	7,118.4	16,118.4	4400.0	2900.0
21+00 ✓	9,450.0	13,950.0	7,200.0	16,200.0	4400.0	2900.0
22+00 ✓	9,550.0	14,050.0	7,300.0	16,300.0	4400.0	2900.0
23+00 ✓	9,650.0	14,150.0	7,400.0	16,400.0	4400.0	2900.0
24+00 ✓	9,750.0	14,250.0	7,500.0	16,500.0	4400.0	2900.0
25+00 ✓	9,850.0	14,350.0	7,600.0	16,600.0	4400.0	2900.0

Plunge 000 OFFSET 70.7

"THE IMPER[illegible] ANVIL" PLUNGE = 22 @ 315 OFFSET = 70.7

CROSS-SECTIONS.

NAME	POINT-1 NORTHING	POINT-1 EASTING	POINT-2 NORTHING	POINT-2 EASTING	ELEVATIONS UPPER	ELEVATIONS LOWER	
124+22 ΔΔ	6,784.4	13,215.6	9,534.4	15,965.6	4400.	2900.	✓
125+00 ΔΔ	6,700.0	13,300.0	9,450.0	16,050.0	4400.	2900.	✓
126+23 ΔΔ	6,583.7	13,416.3	9,333.7	16,166.3	4400.	2900.	✓
127+09 ΔΔ	6,493.6	13,506.4	9,243.6	16,256.4	4400.	2900.	✓
128+20 ΔΔ	6,385.9	13,614.1	9,135.9	16,364.1	4400.	2900.	✓
129+00 ΔΔ	6,300.0	13,700.0	9,050.0	16,450.0	4400.	2900.	✓
130+00 ΔΔ	6,200.0	13,800.0	8,950.0	16,550.0	4400.	2900.	✓
131+22 ΔΔ	6,084.4	13,915.6	8,834.4	16,665.6	4400.	2900.	✓
132+52 ΔΔ	5,963.2	14,036.8	8,713.2	16,786.8	4400.	2900.	✓
133+00 ΔΔ	5,900.0	14,100.0	8,650.0	16,850.0	4400.	2900.	✓
134+47 ΔΔ	5,766.8	14,233.2	8,516.8	16,983.2	4400.	2900.	✓
135+54 ΔΔ	5,661.8	14,338.2	8,411.8	17,088.2	4400.	2900.	✓
135+122 Δ	5,613.7	14,386.3	8,363.7	17,136.3	4400.	2900.	✓

PLUNGE 22° @ 315° OFFSET 707

! The Inperial Anvil !

→ IALTD.I → 10 incl - loaded onto the system Feb 10/83

FARO DEPOSIT

IALD1 Source Geology

	CSC NAME			Assay Db Name	DDH db Name	changed
	F76x19C			Not on	76X-19	✓
	67002			67002	(67-02)	✓
	77007			77007	(77-07)	✓
	81019			81019	(81-19)	✓
	66E09	66E-09	✓	66809	66E-09	✓
	74010			74010	(74-10)	✓
	81012			81012	(81-12)	✓
	66E006	66E-06	✓	66806	66E-06	✓
	74020			74020	(74-20)	✓
	66E005	66E-05	✓	66805	66E-05	✓
	81003			81003	(81-03)	✓
	FA82F12			FA82F12	(82F-12)	✓
	FA82F15			FA82F15	(82F-15)	✓
	7545615			7545615	(7545-15)	✓
	IALD2					
	77011			77011	(77-11)	✓
	81016			81016	(81-16)	✓
	75004			75004	(75-04)	✓
	81020			81020	(81-20)	✓
	74011			74011	(74-11)	✓
	81001			81001	(81-01)	✓
	74019			74019	(74-19)	✓
	72012			72012	(72-12)	✓
IALD3	67001			67001	(67-01)	✓
	81008			81008	(81-08)	✓
	66E0010	66E-01	✓	66801	66E-01	✓
	66E004	66E-04	✓	66804	66E-04	✓
	81004			81004	(81-04)	✓
	66E007	66E-07	✓	66807	66E-07	✓
	74018			74018	(74-18)	✓
	72011			NOT ON	72-11	✓
	81007			81007	(81-07)	✓
	81006			81006	(81-06)	✓

IALD 3 cont

CSC NAME		ASSAY DB name	DDH d6 Name	Changed
74021		74021	(74-21)	✓
81005		81005	(81-05)	✓
F66E003	66E-03	Not on	66E-03	✓
F65053		Not on		✓
65055		65055	(65-55) (66065	✓
66E002	66E-02	Not on	66E-02	✓
66E08	Change to 66808 ✓	66808	66E-08	✓

IALD 4

FA82F24		FA82F24		✓
75466 18	75456-18	75456-18	75456-18	✓
FA82F13		FA82F13	82F-13	✓
FA82F11		FA82F11	-11	✓
FA82F09		FA82F09	-09	✓
FA82F06		FA82F06	-06	✓
FA82F01		FA82F01	-01	✓
FA82F04		Not FA82F04	-04	✓
F71004	71-04 ✓	71004	(71-04)	✓
F67030	67-30 ✓	67030	(67-30)	✓
F67011	67-11 ✓	67011	(67-11)	✓
F67006	67-06 ✓	67006	(67-06)	✓
F67009	67-09 ✓	67009	(67-09)	✓
F76004	76-04 ✓	76004	(76-04)	✓

IALD 5

F81018	81-18 ✓	81018	(81-18)	✓
F81015	81-15 ✓	81015	(81-15)	✓
F81002	81-02 ✓	81002	(81-02)	✓
F81011	81-11 ✓	81011	(81-11)	✓
F81010	81-10 ✓	81010	(81-10)	✓
F77004	77-04 ✓	77004	(77-04)	✓
F77012	77-12 ✓	77012	(77-12)	✓
F77014	77-14 ✓	77014	(77-14)	✓

IALD.6

CSC name		Assay Db name	DD db name	
F77009	77-09	77009	(77-09)	✓
F77017	77-17	77017	(77-17)	✓
FA82F10		FA82F10	82F-10	✓
FA82F08		FA82F08	82F-08	✓
F77001	77-01	77001	(77-01)	✓
F77016	77-16	77016	(77-16)	✓
F80002	80-02	80002	(80-02)	✓
F80004	80-04	80004	(80-04)	✓

IALD.7

FA82F07		FA82F07	82F-07	✓
F80003	80-03	80003	(80-03)	✓
F77002	77-02	77002	(77-02)	✓
F72015	72-15	72015	(72-15)	✓
F72013	72-13	72013	(72-13)	✓
F71005	71-05	71005	(71-05)	✓
F74008	74-08	74008	(74-08)	✓
F67010	67-10	67010	(67-10)	✓
F67003	67-03	67003	(67-03)	✓

IALD.8

F77015	77-15	77015	(77-15)	✓
F77003	77-03	77003	(77-03)	✓
F77013	77-13	77013	(77-13)	✓
F77010	77-10	77010	(77-10)	✓
FA82F02		Not on FA82F02	82F-02	✓
FA82F03		FA 03	82F-03	✓
FA82F05		FA 05	82F-05	✓
FA82F14		FA 14	82F-14	✓
FA82F16		FA 16	82F-16	✓

IALD9

CSC name		change	Assay Db name	DXH db name	
F81014	81-14	✓	81014	(81-14)	✓
F77006	77-06	✓	77006	(77-06)	✓
F81013	81-13	✓	81013	(81-13)	✓
FA82F17			FA82F17	82F-17	✓
E67008	67-08	✓	67008	(67-08)	✓
F67004	67-04	✓	67004	(67-04)	✓
F67005	67-05	✓	67005	(67-05)	✓
F81009	81-09	✓	81009	(81-09)	✓
F70013	70-13	✓	70013	(70-13)	✓

IALD10

	F67007	67-07	✓	67007	(67-07)	✓
DELETE	F77016	77-16		77016	(77-16)	on ILAD6

Reasigned 90000 Series Nos To GRUM DATA BASE - KA ASSAYS.

	DDH	
90000	Faga 001	
90004 - 005	Faga 004	
90006 - 019	Faga 005	
90020 - 032	Faga 009	
90033 - 040	Faga 014	
90041 - 051	Faga 068	
90052 - 071	Faga 073	
90072	Fagu 114	
90073	Fagu 005	
90074 - 076	Fagu 006	
90077 - 079	Fagu 009	
90080	Fagu 016	
90081	Fagu 025	
90082 - 085	Fagu 027	
90086 - 089	Fagu 004	
90090 - 112	Faga 021	
90113 - 115	Faga 060	
90116	Faga 028	
90117 - 124	Faga 013	
90125 - 131	Faga 017	
90132	Faga 023	
90133	OPEN	
90134 - 135	Faga 023	
90136 -	Faga 055	
90137	OPEN	
90138 - 140	Faga 096	(9895-9897)
90141 - 143	Faga 070	(9826-9829)
90144 - 145	Fagu 003	(2468-2469)
90146 - 153	Faga 088	(9250-9256, 9265)
90154	Faga 157	(9298)
90155 - 159	Faga 066	(9580-9584)
90160	Faga 045	

90000 Series № Assignments
GRUM DB. - KA ASSAYS.

	ddh
90161	Faga 153
90162 - 163	Faga 045
90164 - 166	Faga 052
90167 - 168	OPEN
90169	Faga 052
90170 -	Faga 074
90171 - 172	Faga 134
90173 - 174	Faga 147
90175	Faga 021
90176	Faga 083
90177 - 178	Faga 132
90179 - 206	Faga 019
90207 - 214	Fagu 007
90215 - 216	Faga 056
90217 - 218	Fagu 018
90219 - 222	Fagu 022
90223 - 225	Fagu 023
90226	Fagu 086
90227	Faga 062
90228 - 229	Fagu 088
90230 - 231	Fagu 090 (relog. by U113
90232 - 245	Fagu 098
90246 - 248	Fagu 102
90249 - 252	Fagu 106
90253 - 256	Fagu - 111
90257 -	Fagu - 113
90258 - 259	Fagu - 121
90260 - 261	Fagu - 035
90262	Fagu - 149
90263	Fagu - 150
90264	Fagu - 156
90265	Faga 163

90000 Series GRUMMAN Nos

90266 - 268	Faga 069
90269 - 307	Faga 024
90308 - 309	Faga 004
90310	" 005
90311	Fagu 116
90312 - 315	Faga 164
90316 - 341	Fagu 195
90342 - 347	Faga 011
90348	Fagu 035
90349	Fagu 039
90350	Fagu 045
90351 - 353	Fagu 084
90354 - 356	Faga 136
90357	Faga 099
90358	Faga 66
90359 - 366	Fagu 140
90367 - 370	Faga 084 (replaces 11707 - 11711)
90371 - 374	(replaces 11696 - 11699)
90375 - 377	Faga 082
90378	
90379	
90380	
90381	
90382	
90383	
90384	
90385	
90386	
90387	
90388	
90389	
90390 - 413	Faga 087
90414 - 449	Faga 085
90450 - 461	Faga 089

90000 Series Grum #s
used for KA assays

90462 FAGA075

90470

90480

90490

90497

90498

90500

90510

90520 Faqa 075
90521 - 529 Faqa 008
90530
531
532
533
90534 - 537 Faqa 012
90538 - 552 Faqa 020
90553 - 586 Faqa 022
90587 Faqu 036
90588 - 598 Faqu 037

90000 Series # used on GRUMDB for KA assays

90599 - 90604	Fagg 111
90605 - 606	Fagg 131
90607 - 617	Fagu 185
90618 - 629	Fagu 191
90630 - 633	Fagu 193
90634 - 643	" 195
90644 - 682	" 196
90683 - 704	" 189
90705 - 715	" 198
90716 - 741	" 199
90742 - 753	" 200
90754 - 761	" 204
90762 - 771	" 207
90772 - 784	" 215
90785 - 798	" 216
90799 - 845	" 192
90846 - 893	" 194
90894 - 936	" 206
90937 - 948	" 038
90949 - 957	" 076
90958 - 968	Fagg 104

REASIGNED 91000 Series
GRUMDB - KA assays.

91000 - 021	Faga 027	
91022 - 028	" 069	
91029 - 045	" 076	
91046 - 063	" 079	
91064 - 065	Fagu 135	
91066	Faga 069	
91067	open	
91068	open	
91069 - 071	Faga 017	
91072 - 073	Faga 052	
91074 - 077	Faga 023	
91078	Faga 071	
91079	"	
91080	Faga 136	
91081 - 099	Faga 026	
91100 - 91126	Faga 128	(Manual Assays Entry) 86W
91127 - 91171	Faga 127	(Manual Assay Entry) 86W
91172 - 91212	Faga 125	(") 86W
91213 - 91297	Faga 123	(") 86W
91298 - 91343	Faga 059	(") 86W
91344 - 91353	Faga 061	(") 86W
91354 - 91373	Faga 020	(") 86W
91374 - 91395	FAGU 187	
91396 - 91415	FAGU 208	
91415 - 91435	FAGU 209	
91437 - 91470	FAGU 210	
91471 - 91500	FAGU 211	
91501 - 91530	FAGU 212	
91531 - 91569	FAGU 213	
91570 -	Fagu 206	
91571 -	Fagu 209	
91572 -	Fagu 100	
91573 - 91596	Faga 067	
91577 - 91596	Faga 078	- Replaces sample # 12000-12019 ? KACENIUM Certificate
91597 - 91611	Faga 082	" " 12020 - 12034 ? #up

Reassigned 92000 Series #
GRUM DB. - KA Assays.

92000 - 009	Faqa 026
92010 - 012	Faqa 020
92013 - 016	" 058
92017 - 023	" 065
92024 - 025	" 083

Reasigned 94000 Series KA ASSAYS

94056 - Foga 089 - Grum DB - (number transposed instead of 90456)

GRUM 1980-81

Grum 1980

80-A200	X SECT 67W
201	61W
202	65W
203	63W
204	63W
205	67W
206	65W
207	61W
208	70W
209	61W
210	65W
211	63W
212	65.5W
213	67 W.
81-A-214	80W
215	74W
216.	68W

81A214 – } wrong azimuths!
81A215 –
81A216 –

Create 'Keyed' File Version of

PMG016

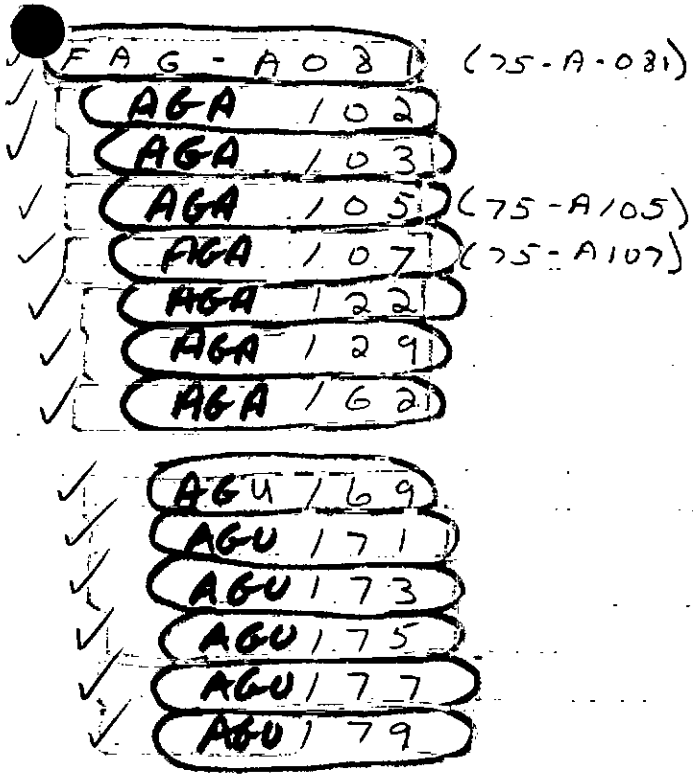
74A058
AGA010
AGA019
AGA056
AGA060
AGA062
AGA067
AGA070
AGA072
AGA077
AGA078
AGA080
AGA081
AGA082
AGA083
AGA084

~~EDIT, NEW, FIXED~~

!$TRIP, NUMBER file name

Keyed

GRUM SECT-62W



GRUM SECT-64W

	74-A026	X	
16	74-A028	X	
16	74-A055	1	no samples. now samples.
16	74-A058	X	
16	FAG-A077		
16	FAGA112	1	
16	76-A136	X	
16	76-A137	X	
16	76-A149	X	
16	76-A152	X	
16?	FAG-A163		not in FMGEIK file?
16	A165	1	sample #s missing!
16	A167	1	no samples

Westover → Pierrard

1711

Grum 66W

75 A 066 x
99 x
109 x
116 x
117 x
121 x
76 A 135 x
139 x
157 x

76 U 141 x
142 x
143 x
145 x
147 x
155 x
157 x
159 x
161 x

GRUM 68W

74A	013	X
	017	X
	023	X
	045	X
	052	X
75A	074	
	106	
76A	134	
	142	
	143	X
	145	
	147	
	153	X
81A	216	

76U	181	
	183	

GRUM SECT.— 70W

FAG-A062

⑯ FAGA070

FAG-A096 ×

AGA 100

133 ← no samples

138 ← no samples

AGA 159

AGA2087?

⑯ -U088

90 — redrilled by U113 — put samples into U113

⑯ AGU092

⑯ AGU096

98 ? — no P-data

⑯ FAGU100

⑯ AGU102

AGU104

AGU106

AGU108

AGU111

AGU113 ← samples.

~~114~~

AGU115

AGU119

AGU121

AGU123

AGU125

AGU127

AGU131

AGU133

AGU136

137 — no P-data

FAGU139

(P2)

Grum Sect 72W

FAGA019

021 X
056 X
060
083 X SIZE 5 KEY: 0
095
132

FAGU 002
003 X
004
005
006
007
008
009
010
011
012
013
014

016
017
018
019
020
022
023
024 — no sample data
025
026
027
086

Grum 74W

74A11
065 X
071 X
088
090
A 092
141
81A216

U 15
28
29
30
32
33
34
35
39
40
41
42
43
44
45
46
47
48
49
51
52
53
54
55
56
57

U-117

Grum 76 W

FAGA-001 ✓
FAGA-004 ×
005 ×
006
009 ×

FAGA 014 ×
030
053
068 ×
073 ×
155

FAGU 058
U 059
U 060
U 061
U 062
U 063
U 064
U 065
U 081
U 083
U 085
U 087
U 089
U 110
U 112
U 114 ×
U 116
U 118
U 120
U 122
U 124
U 126
U 128

U-129
U-130
U-132
U-134
U-138.

GRUM - SECT. 78W

FAG - A010
AG A067 (75-A-67)
AG A072
AG A078
AG A080
AG A082
AG A084 (75-A-084)
AG A158
AG A161
AG A214 (81-A214)

46 AGA075

FAG - U066
AG U067 (76-U-67)
AG U068
AG U069
AG U070
AG U071 (76-U-71)
AG U072
AG U073 (76-U-073)
AG U075
AG U077
AG U079
AG U091
AG U093
U095 (76-U-095) ← no samples
AG U097
AG U099
AG U101
AG U103
AG U105 (76-105)
AG U107
AG U109 (76-U109)
AG U148

(2)

Grum Sect 80W.

74 - A024 ← (?) no sampler.
A027 X
A032
A035
A038
A041
75 - A069 X
A076 X
A079 X
76 - A160
A163
A164

76 - U135 X
U140
U144
U146
U149
U150
U151
U152
U153
U154
U156

ICAS Software Services	PCARD.80 RUNS "PMG015"	Systems:	Project: P80005 (906080)
		Routine:	Date:
		By: J.M.-L.	Page: 1 of 2

	HOLE	CSC: PRTCOR PHOTO	CSC: PCARD.80	CSC: OUTPUT	HP3000: RJE	HP3000: EDIT	HP3000: LOAD	HOLE	CSC: PRTCOR PHOTO	CSC: PCARD.80	CSC: OUTPUT	HP3000: RJE	HP3000: EDIT	HP3000: LOAD
F	74A011							76A164						
XF	74A013							76U015						
XF	74A017							76U028						
XF	74A023							76U029						
F	74A024							76U030						
XF	74A027							76U032						
F	74A032							76U033						
F	74A035							76U034						
F	74A038							76U035						
F	74A041							76U039						
F	74A045							76U040						
XF	74A052							76U041						
XF	75A065							76U042						
F	75A066							76U043						
XF	75A069							76U044						
XF	75A071							76U045						
F	75A074							76U046						
XF	75A076							76U047						
XF	75A079							76U048						
F	75A088							76U049						
M	75A090							76U051						
M	75A092							76U052						
M	75A099							76U053						
M	75A106							76U054						
M	75A109							76U055						
M	75A116							76U056						
M	75A117							76U057						
M	75A121							76U117						
M	76A134							X76U155						
M	76A135							76U140						
M	76A139							76U141						
M	76A141							76U142						
M	76A142							76U143						
	76A143							76U144						
M	76A145							76U145						
M	76A147							76U146						
	76A153							76U147						
M	76A157							76U149						
M	76A160							76U150						
M	76A163							76U151						

ICAS Software Services	PCARD.80 RUNS	Systems:	Project: P80005 (906080)
		Routine:	Date:
		By: J.M.-L.	Page: 2 of 2

	← CSC →			← HP3000 →		
	IH010 PCARD.80	OUTPUT	RJE	EDIT	LOAD	
76U152						
76U153						
76U154						
76U155						
76U156						
76U157						
76U159						
76U161						
76U181						
76U183						
80A200						
80A201						
80A202						
80A203						
80A204						
80A205						
80A206						
80A207						
80A208						
80A209						
80A210						
80A211						
80A212						
80A213						

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GRUM ASSAY-DB

SURFACE HOLES

LOADING STATUS

Systems:

Routine:

By:

Date:

Page:

Project: PBOMS (960080)

SURFACE	HOLE	SECTION	OK	HPGEOCHEM			5/10/96 PM
AGA	001	76W	☑	✓	KA Assay ~~90000~~		✓
	002						
	003						
AGA	004	KA 76W?	☐	✓	KA Assays 90308, ~~90309~~ & 90001 → 90005		✓
AGA	005	76W	☐	✓	KA Assays 90310 & 90006 → 90019		✓
AGA	006	76W	☒	←	NO ASSAYS!		✓
	007						
	008	KA 84W					
AGA	009	76W	☐	✓	KA Assays 90020 → 90032		✓
FAGA	010	78W	☐	✓	CAMC-81 Assays 11606-11668		✓
74A	011	74W	☐	✓	KA ASSAYS 90343-90347	**** Rock CODES	✓
	012	KA 84W					
74A	013	68W	☑	✓	KA Assays 90117-90124	**** Rock CODES	✓
FAGA	014	76W	☐	✓	KA Assays 90033 - 90040		✓
	015	KA					
	016	KA					
74A	017	68W	☐	✓	KA Assays 90125-90127 (MISSING Samples 90128-131)	**** Rock CODES	✓
	018	KA					
AGA	019	72W	☐	✓	KA Assays		✓
	020	KA 84W					
AGA	021	72W	☐	✓	KA Assays CAMC-81 Assays		✓
	022	KA 84W					
74A	023	68W	☐	✓	KA 90132, 90134, 90135 ~~CAMC 5081-5082, 5085, 5087-5093~~	**** Rock CODES	✓
74-A	024	80W	☐	✓	KA 90269 - 90307	**** Rock CODES	✓
	025	KA					
74A	026	64W	☐	✓	KA 91081 - 92009	xxxx Rock CODES	✓
74-A	027	80W	☐	✓	KA 91000 - 91021	xxxx Rock CODES	✓
74A	028	64W	☐	✓	KA 92010 - 92012	**** Rock CODES	✓
	029	KA					
FAGA	030	76W	☑	✓			✓

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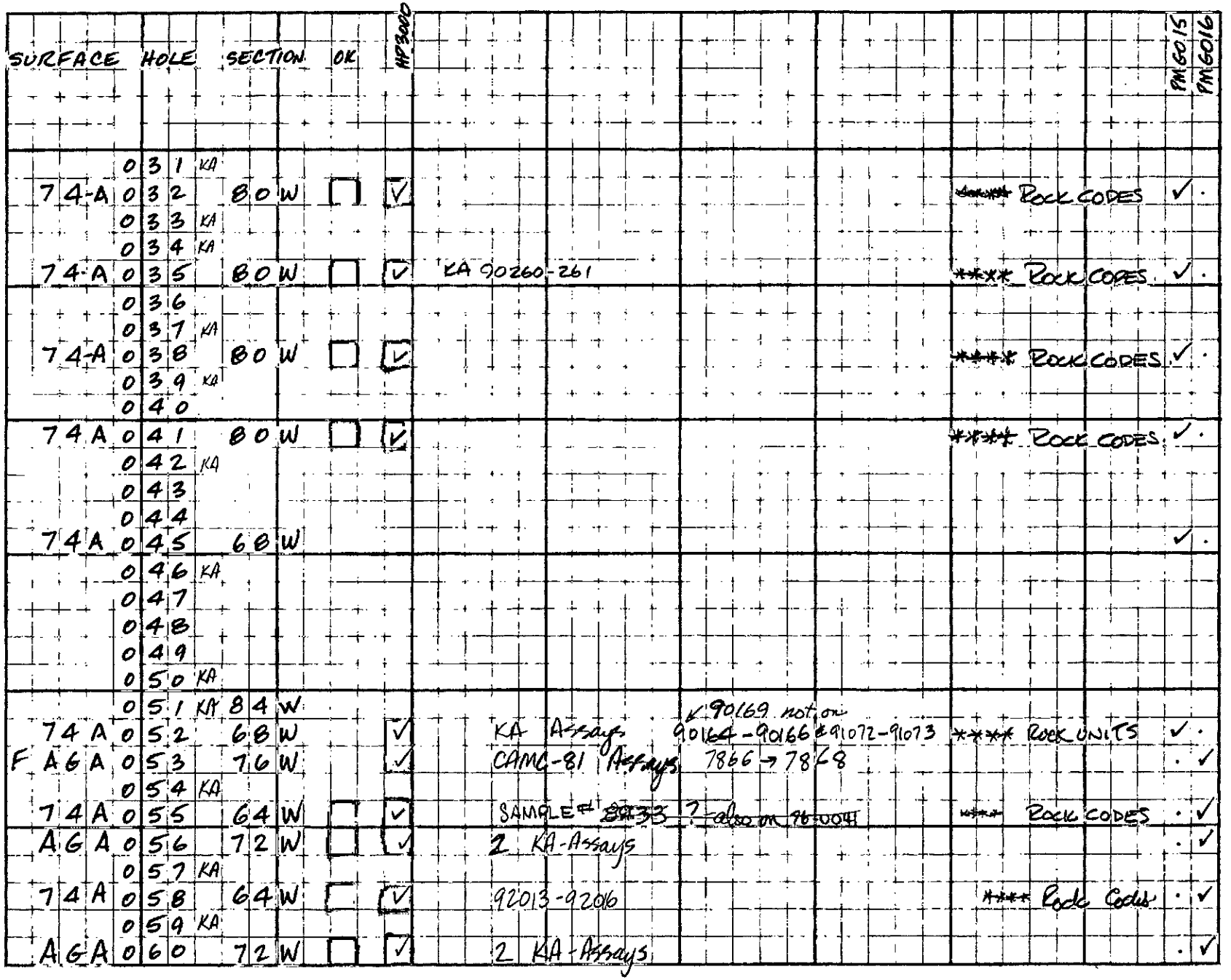
+KA



SURFACE HOLE SECTION OK

HP3000

PM6015 PM6016

		031	KA										
	74-A	032		80	W	☐	☑			**** ROCK CODES	✓	·	
		033	KA										
		034	KA										
	74-A	035		80	W	☐	☑	KA 90260-261		**** ROCK CODES	✓	·	
		036											
		037	KA										
	74-A	038		80	W	☐	☑			**** ROCK CODES	✓	·	
		039	KA										
		040											
	74A	041		80	W	☐	☑			**** ROCK CODES	✓	·	
		042	KA										
		043											
		044											
	74A	045		60	W						✓	·	
		046	KA										
		047											
		048											
		049											
		050	KA										
		051	KA	84	W								
	74A	052		68	W		☑	KA Assays		90169 not on 90164-90166 & 91072-91073	**** ROCK UNITS	✓	·
F	AGA	053		76	W		☑	CAMC-81 Assays		7866 → 7868		·	✓
		054	KA										
	74A	055		64	W	☐	☑	SAMPLE# ~~8033~~ 7 also on 96-0044			**** ROCK CODES	·	✓
	AGA	056		72	W	☐	☑	2 KA-Assays				·	✓
		057	KA										
	74A	058		64	W	☐	☑	92013-92016			**** Rock Codes	·	✓
		059	KA										
	AGA	060		72	W	☐	☑	2 KA-Assays				·	✓

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ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

CAMP KA
47 21

ICAS Software Services

ICAS Software Services Inc.

Systems:

Routine:

By:

Project:

Date:

Page:

SURFACE HOLE SECTION OK

	061	KA							
FAGA	062		70	W	☐	☑	1 KA Assay 90227		✓
	063	KA	60	W					
	064	KA							
75A	065		74	W	☐	☑	KA Assay 92017-023	**** Rock Codes	✓
75A	066		66	W	☐	☑	9560, 9561, 9562, 9563	****	✓
FAGA	067		78	W	☐	☑	CAMC-81 Assays 11492 - 11557		✓
AGA	068		76	W	☐	☑	KA Assays 90043 - 90050		✓
75-A	069		80	W	☐	☑	KA 91022 - 91028, 91066, 90266-268 Check Cu @ 7954	**** Rock Codes	✓
AGA	070		70	W	☑	☑			✓
75A	071		74	W	☐	☑	KA 91078, 91079	**** Rock Codes	✓
FAGA	072		78	W	☐	☑	CAMC-81 Assays 11669 - 11699 (some gaps)		✓
AGA	073		76	W	☐	☑	KA Assays 90052 → 90071		✓
75A	074		68	W		☑	CAMC 80 Assays ~~5025 - 5032~~ KA 90170 (Missing 5103)	**** Rock Codes	✓
FAGA	075		78	W					✓
75-A	076		80	W	☐	☑	KA 91029 - 91045	**** Rock Code	✓
AGA	077		64	W	☑	☑			✓
FAGA	078		78	W		☑	CAMC-81 Assays 12000 - 12019		✓
75A	079		80	W		☑	KA 91046-51; 91053-91065	**** Rock Codes	✓
FAGA	080		78	W	☑	☑			✓
AGA	081	84W?	62	W	☑	☑			✓
FAGA	082		78	W		☑	**** Units CAMC-81 Assays 12020 - 12034		✓
AGA	083		72	W		☑	3 KA Assays		✓
FAGA	084		70	W		☑	CAMC-81 Assays 11707-11708, 11710-11711		✓
	085		82	W					
	086								
	087		82	W					
75A	088		74	W	☐	☑	9250 - 9256 & 9265) May be KA Assays needed	**** Rock Codes	✓
	089		82	W					
75A	090		74	W	☐	☑		**** Rock Codes	✓

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Systems:

Routine:

By:

Project:

Date:

Page:

ICAS Software Services Inc.

SURFACE HOLE	SECTION	OK	HPBMD	PMS015	PMS016
091					
75A 092	74W	☐	✓	**** Rock CODES	✓ .
093	82W				
094					
AGA 095	72W	✓	✓	.	✓
FAGA 096	70W		✓	3 CAMC-81 Assays 9895-9897	. ✓
097					
098					
75A 099	66W	☐	✓	KA 90357 **** ROCK CODES	✓ .
FAGA 100	70W	☐	✓	CAMC-81 Assays 11453-11473	. ✓
101					
AGA 102	62W	✓	✓	.	✓
AGA 103	62W	✓	✓	.	✓
104	84W				
AGA 105	62W	✓	✓	.	✓
75A 106	68W	☐	✓	**** Rock CODES	✓ .
FAGA 107	62W	☐	✓	Samples 9952-9962 - may be KA#s	. ✓
108					
75A 109	66W	☐	✓	**** Rock Codes	✓ .
110					
111	86W				
AGA 112	64W	✓	✓	.	✓
113	86W				
114					
115	86W				
75A 116	66W	☐	✓	**** Rock CODES	✓ .
75A 117	66W	☐	✓	**** Rock CODES	✓ .
118	86W				
119					
120	86W				

KA 1/24

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ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

SURFACE	HOLE	SECTION	OK	HIGH		PMGOLD	PMGOLD
75A	121	66W	✓	✓		✓	.
AGA	122	62W	✓	✓		.	✓
	123						
	124	06W					
	125						
	126						
	127						
	128						
AGA	129	62W	✓	✓		.	✓
	130						
	131						
AGA	132	72W		✓	2 KA Assays	.	✓
F AGA	133	70W	✓	✓	NO ASSAYS	.	✓
76A	134	68W		✓	KA Assays 90171-90172	**** ROCK CODES ✓	.
76A	135	66W		✓		**** ROCK CODES ✓	.
76A	136	64W		✓	90354-356	.	✓
76A	137	64W		✓		**** ROCK CODES .	✓
AGA	138	70W	✓	✓	NO ASSAYS	.	✓
76A	139	66W		✓	KA # 90358	**** ROCK CODES ✓	.
	140	84W					
76A	141	74W		✓		**** ROCK CODES ✓	.
76A	142	68W		✓		**** ROCK CODES ✓	.
76A	143	68W		✓	CAMC-80 Assays 1642-1646	**** ROCK CODES ✓	.
	144						
76A	145	68W		✓		**** ROCK CODES ✓	.
	146						
76A	147	68W		✓	CAMC-80 Assays, many KA 90173-90174	**** ROCK CODES ✓	.
	148						
76A	149	64W		✓		**** ROCK CODES .	✓
	150						

SURFACE	HOLE	SECTION	OK	CROSS SECTION		PMG015	PMG016
	151						
76A	152	64W	✓	✓	CAMC-80 Assays 5359-5393 **** Rock Codes	.	✓
76A	153	68W		✓	KA Assays 90161 CAMC ~~1579-1618~~ 1618 OK; **** Rock Codes	✓	.
	154	86W			Pb Assays 5379-5382		
FAGA	155	76W	✓	✓		.	✓
	156	84W					
76A	157	66W		✓	MISSING ASSAYS FOR 9298 **** Rock Codes.	✓	.
FAGA	158	78W	✓	✓		.	✓
FAGA	159	70W		✓	CAMC-81 Assays 11268-11277	.	✓
76A	160	80W		✓	8350 Cu Assay *** Rock Codes	✓	.
FAGA	161	78W	✓	✓		.	✓
AGA	162	62W	✓	✓		.	✓
76A	163	80W		✓	KA 90265- **** Rock Codes.	✓	.
76A	164	80W		✓	KA 90312-315 **** Rock Codes	✓	.
	~~165~~				NOT DRILLED		
	~~166~~				" "		
	~~167~~				" "		
	~~168~~				" "		
	~~169~~				" "		
	~~170~~				" "		
	~~171~~				" "		
	~~172~~				" "		
	~~173~~				" "		
	~~174~~				" "		
	~~175~~				" "		
	~~176~~				" "		
	~~177~~				" "		
	~~178~~				" "		
	~~179~~				" "		
	~~180~~				" "		

ICAS Software Services

Systems:

Routine:

By:

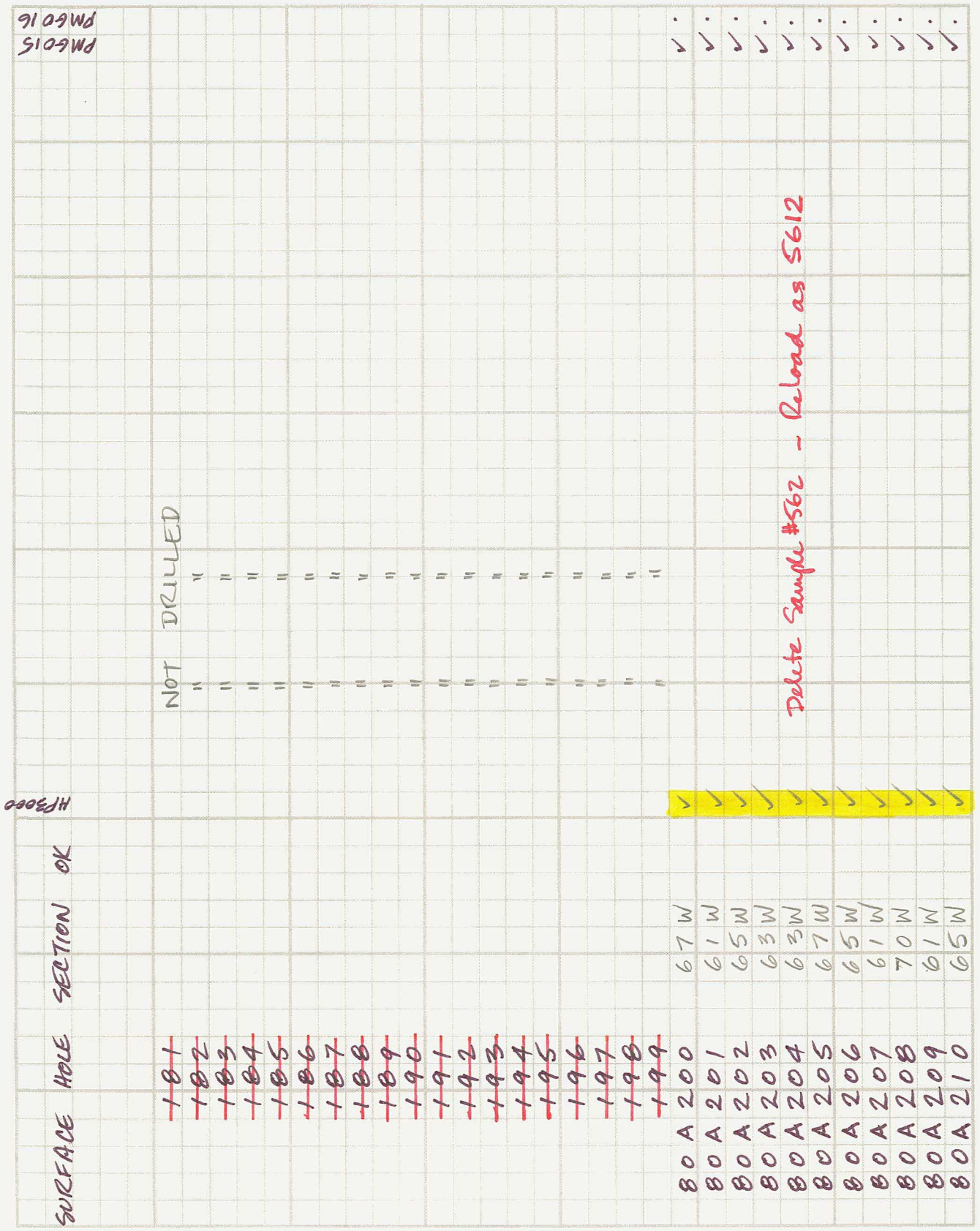
Project:

Date:

Page:

ICAS Software Services Inc.

ICAS Software Services		Systems:	Project:
		Routine:	Date:
		By:	Page:



UNDERGROUND HOLE SECTION OK

	001 KA								
AGU	002	72	W	✓	✓			✓	✓
AGU	003	72	W		✓	2 CAMC81 Assays	2468 & 2469	✓	✓
AGU	004	72	W		✓	4 KA Assays	90086 - 90089	✓	✓
AGU	005	72	W	✓	✓			✓	✓
AGU	006	72	W		✓	3 KA Assays	90074 - 90076	✓	✓
AGU	007	72	W	✓	✓	~~KA~~ COMPLETE	~~KA Assays To Add.~~ KA 90201-90214	✓	✓
AGU	008	72	W	✓	✓			✓	✓
AGU	009	72	W		✓	2 KA Assays	90077 - 90078	✓	✓
AGU	010	72	W	✓	✓			✓	✓
AGU	011	72	W	✓	✓			✓	✓
AGU	012	72	W	✓	✓			✓	✓
AGU	013	72	W	✓	✓			✓	✓
AGU	014	72	W	✓	✓			✓	✓
76U	015	74	W		✓		**** Rock Codes	✓	.
AGU	016	72	W		✓	1 KA Assay	90080	✓	✓
AGU	017	72	W	✓	✓			✓	✓
AGU	018	72	W		✓	1 KA Assay	90218	✓	✓
AGU	019	72	W	✓	✓			✓	✓
AGU	020	72	W	✓	✓			✓	✓
AGU	021 KA	72	W	✓	✓			✓	✓
AGU	022	72	W		✓	4 KA Assays	90219 - 90222	✓	✓
AGU	023	72	W		✓	3 KA Assays	90223 - 90225	✓	✓
76U	024	72	W	☒		← NO ASSAYS		✓	✓
AGU	025	72	W		✓	1 KA Assay	90081	✓	✓
AGU	026	72	W	✓	✓			✓	✓
AGU	027	72	W		✓	4 KA Assays	90082 - 90085	✓	✓
76U	028	74	W		✓		**** Rock Codes.	✓	.
76U	029	74	W	✓				✓	.
76U	030	74	W					✓	.

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

ICAS Software Services Inc.

UNDERGROUND HOLE	SECTION	OK	HEADING		PMG015	PMG016
0031 KA						
76U 0032	74W				✓	.
76U 0033	74W				✓	.
76U 0034	74W				✓	.
76U 0035	74W		✓	KA 90348 **** Rock codes.	✓	.
0036 KA						
0037 KA						
0038 KA						
76U 0039	74W		✓	KA 90349 **** Rock codes	✓	.
76U 0040	74W		✓	**** Rock codes	✓	.
76U 0041	74W		✓	**** Rock codes.	✓	.
76U 0042	74W				✓	.
76U 0043	74W		✓	7811-7813, 7815-7816 Missing Assays **** Rock codes	✓	.
76U 0044	74W		✓	**** Rock codes	✓	.
76U 0045	74W		✓	**** Rock codes	✓	.
76U 0046	74W		✓	**** Rock codes	✓	.
76U 0047	74W		✓	**** Rock codes	✓	.
76U 0048	74W		✓	**** Rock codes	✓	.
76U 0049	74W	✓	✓		✓	.
0050 KA						
76U 0051	74W				✓	.
76U 0052	74W		✓	**** Rock codes	✓	.
76U 0053	74W		✓	9031 - need Assays. **** Rock codes	✓	.
76U 0054	74W		✓	9598 - Check Au Assay. **** Rock codes	✓	.
76U 0055	74W				✓	.
76U 0056	74W	✓			✓	.
76U 0057	74W		✓	*** Rock codes	✓	.
FAGU 0058	76W	✓	✓		.	✓
FAGU 0059	76W	✓	✓		.	✓
FAGU 0060	76W	✓	✓	Check sample depth 0.0→1.1 OK	.	✓

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

53 | 7

NNC 9KA

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

ICAS Software Services Inc.

UNDERGROUND HOLE	SECTION	OK	HEDGEHOG	PMG-915	PMG-916	
FAGU 061	76W	✓	✓	.	✓	Check Sample Depth 0.0 → 1.2 OK
FAGU 062	76W	✓	✓	.	✓	
FAGU 063	76W	✓	✓	.	✓	
FAGU 064	76W	✓	✓	.	✓	
FAGU 065	76W	✓	✓	.	✓	
FAGU 066	78W	✓	✓	.	✓	
FAGU 067	78W		✓	.	✓	2 CAMC-BI Assays 11490-11491
FAGU 068	78W	✓	✓	.	✓	
FAGU 069	78W	✓	✓	.	✓	
FAGU 070	78W	✓	✓	.	✓	
FAGU 071	78W		✓	.	✓	CAMC-BI Assays 11587-11605
FAGU 072	78W	✓	✓	.	✓	
FAGU 073	78W	✓	✓	.	✓	
074 KA						
FAGU 075	78W	✓	✓	.	✓	
076 KA						
FAGU 077	78W	✓	✓	.	✓	
078 KA						
FAGU 079	78W	✓	✓	.	✓	
080	W					
FAGU 081	76W	✓	✓	.	✓	
082 KA						
FAGU 083	76W	✓	✓	.	✓	
AGU 084 KA	~~74~~ W	✓		.	✓	90351 - 90353.
FAGU 085	76W	✓	✓	.	✓	
AGU 086	72W		✓	.	✓	1 KA-Assay 90226
FAGU 087	76W	✓	✓	.	✓	
FAGU 088	70W		✓	.	✓	2 KA-Assays 90228-90229
FAGU 089	76W	✓	✓	.	✓	
AGU 090	70W	✓		.	✓	

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UNDERGROUND HOLE		SECTION	OK	HP3000		PMG015	PMG016
FAGU091		78W	✓	✓		·	✓
FAGU092		70W	✓	✓	1 CAMC-81 Assay 11141	·	✓
FAGU093		78W	✓	✓		·	✓
094	KA						
FAGU095		78W	✓	✓		·	✓
FAGU096		70W		✓	CAMC-81 Assays 11401-11443	·	✓
FAGU097		78W	✓	✓		·	✓
FAGU098		70W		✓	KA Assays 90232-90245 (All)	·	✓
FAGU099		78W	✓	✓		·	✓
FAGU100		70W		✓	CAMC-81 Assays 11358-11388 (All)	·	✓
FAGU101		78W	✓	✓		·	✓
FAGU102		70W		✓	KA Assays 90246-90248 CAMC-81 Assays 11389-11400, 11251-11254 (All)		
FAGU103		78W	✓	✓		·	✓
FAGU104		70W		✓	CAMC-81 Assays 11278-11283	·	✓
FAGU105		78W	✓	✓		·	✓
FAGU106		70W		✓	4 KA Assays 90249-90252	·	✓
FAGU107		78W	✓	✓		·	✓
FAGU108		70W		✓	CAMC-81 Assays 11445-11450, 11255-11267 (All)	·	✓
FAGU109		78W	✓	✓		·	✓
FAGU110		76W	✓	✓		·	✓
FAGU111		70W		✓	CAMC-81 Assays 11195-11214, KA Assays 90253-90256		✓
AGU112		76W	☒		← NO ASSAYS	·	✓
FAGU113		70W		✓	CAMC-81 Assays 11284-11300, 11451, 11452 KA Assay 90257		✓
AGU114		76W		✓	KA Assay 90072	·	✓
AGU115		70W	✓			·	✓
AGU116	KA	76W	✓	✓	KA Assay 90311	·	✓
76U117	KA	74W	~~✓~~		Complete.	✓	·
AGU118		76W	✓	✓		·	✓
FAGU119		70W		✓	CAMC-81 Assays 11020-11033	·	✓
AGU120		76W	☒		← NO ASSAYS	·	✓

MC 17 KA 13

ICAS Software Services

Systems:
Routine:
By:

Project:
Date:
Page:

UNDERGROUND HOLE	SECTION	OK	HARD		PMG015	PMG016
FAGU 121	70 W		✓	3 CAMC-81 Assays 11121-11123 2 KA Assays 90258-90259	.	✓
AGU 122	76 W	☒		← NO ASSAYS!	.	✓
FAGU 123	70 W	✓	✓	8 CAMC-81 Assays 9920-9927	.	✓
FAGU 124	76 W	✓	✓		.	✓
FAGU 125	70 W		✓	CAMC-81 Assays 11314-11357	.	✓
FAGU 126	76 W	✓	✓		.	✓
FAGU 127	70 W	✓	✓		.	✓
FAGU 128	76 W	✓	✓		.	✓
FAGU 129	76 W	✓	✓		.	✓
FAGU 130	76 W	✓	✓		.	✓
FAGU 131	70 W		✓	CAMC-81 Assays 11096-11100	.	✓
FAGU 132	76 W	✓	✓		.	✓
FAGU 133	70 W		✓	CAMC-81 Assays 9898-9900, 11101-11120	.	✓
FAGU 134	76 W	✓	✓		.	✓
76U 135	80 W		✓	KA 91064-065 **** ROCK CODES.	✓	.
FAGU 136	70 W		✓	CAMC-81 Assays 11151-11164	.	✓
FAGU 137	70 W	✓	✓	~~NO RECORDS ON FILE~~ NO ASSAYS TAKEN.	.	✓
FAGU 138	76 W	✓	✓		.	✓
FAGU 139	70 W		✓	CAMC-81 Assays 11215-11224	.	✓
76U 140	80 W		✓	KA 90359-90366 **** ROCK CODES.	✓	.
76U 141	66 W		✓	**** ROCK CODES	✓	.
76U 142	66 W		✓	**** ROCK CODES	✓	.
76U 143	66 W		✓	**** ROCK CODES	✓	.
76U 144	80 W		✓	**** ROCK CODES	✓	.
76U 145	66 W		✓		✓	.
76U 146	80 W		✓	*** ROCK CODES	✓	.
76U 147 KA	66 W		✓	**** ROCK CODES	✓	.
FAGU 148	78 W	✓	✓		.	✓
76U 149	80 W		✓	KA 90262 *** ROCK CODES	✓	.
76U 150	80 W		✓	KA 90263 **** ROCK CODES.	✓	.

ICAS Software Services

Systems:
Routine:
By:
Project:
Date:
Page:

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UNDERGROUND HOLE		SECTION	OK	CHECKED		PM6015	PM6016
76U 151		80W		✓	**** ROCK CODES	✓	.
76U 152		80W		✓	**** ROCK CODES	✓	.
76U 153		80W		✓	**** ROCK CODES.	✓	.
76U 154		80W		✓	**** ROCK CODES	✓	.
76U 155		66W		✓	**** ROCK CODES	✓	.
76U 156		80W		✓	KA# 90264 **** ROCK CODES	✓	.
76U 157		66W		✓	**** ROCK CODES	✓	.
158	KA	82W					
76U 159		66W		✓	**** ROCK CODES.	✓	.
160	KA	82W					
76U 161		66W		✓	**** Rock Codes	✓	.
162	KA	82W					
AGU 163		64W	✓	✓		.	✓
164	KA	82W					
AGU 165		64W		✓	7369 Cu Assay.	.	✓
166	KA	82W					
AGU 167		64W				.	✓
168	KA	82W					
FAGU 169		62W	✓	✓		.	✓
170	KA	84W					
FAGU 171		62W	✓	✓		.	✓
172	KA	82W					
FAGU 173		62W	✓	✓		.	✓
174	KA	82W					
FAGU 175		62W	✓	✓		.	✓
176	KA	84W					
FAGU 177		62W	✓	✓		.	✓
178	KA	84W					
FAGU 179		62W	✓	✓		.	✓
180	KA	84W					

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

12

WC & KA

55 25

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

ICAS Software Services Inc.

UNDERGROUND	HOLE		SECTION	OK	HIGHSH	PM6015 PM6016	
76U	181		68W		✓	✓.	~~****~~ ROCK CODES
	182	KA	84W				
76U	183		68W		✓	✓.	CAMC-80 Assays 5128 – 5140 ~~****~~ ROCK CODES
	184	KA	84W				
	185	KA					
	186	KA	84W				
	187	KA					
	188	KA					
	189	KA					
	190	KA	82W				
	191	KA					
	192	KA					
	193	KA					
	194	KA					
	195	KA					
	196	KA					
	197	KA					
	198	KA					
	199	KA					
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	203	KA					
	204	KA					
	205	KA					
	206	KA					
	207	KA					
	208	KA					
	209	KA					
	210	KA					

28

CAMC | KA
57 | 53

ICAS Software Services		Systems:	Project:
		Routine:	Date:
		By:	Page:

9109WD
9109WD

HP3000

UNDERGROUND HOLE SECTION OK

211 KA
212 KA
213 KA
214 KA
215 KA
216 KA
217 KA
218 KA.

219
220
221
222

ICAS Software Services		Systems:	Project:
		Routine:	Date:
		By:	Page:

GRUM HOLES

SURFACE HOLES — RELOGGED = 128 | ADDITIONAL KA = 24

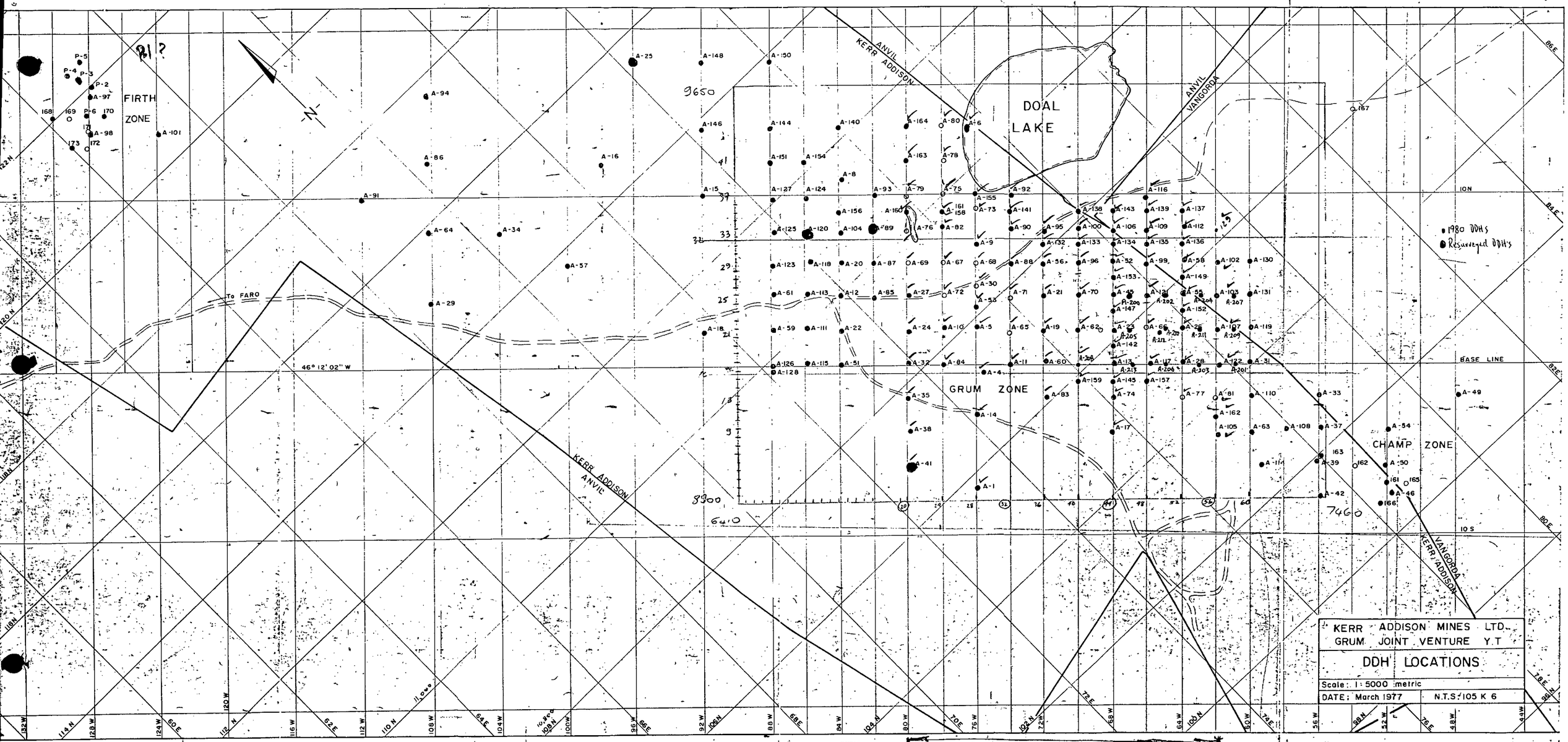
U/G HOLES — " = 157 | " " = 61

285 | 85

11/1/82

156 LOADED. of which 77 are complete
5 NOT LOADED as there were no assays.

12/1/82 80W, 74W, 66W & 64W SECTIONS ALL AT TETRAD.


DOAL LAKE
FIRTH ZONE
GRUM ZONE
CHAMP ZONE
ANVIL KERR ADDISON
ANVIL VANGORDA
KERR ADDISON ANVIL
VANGORDA KERR ADDISON
To FARO
46° 12' 02" W
BASE LINE
9650
8300
6410
7460
1980 DDHs
Resurveyed DDH's
KERR ADDISON MINES LTD.
GRUM JOINT VENTURE Y.T
DDH LOCATIONS
Scale: 1:5000 metric
DATE: March 1977
N.T.S. 105 K 6

1982 Grum Relogs

	Co-ods	Sect #	F	M	R.Data	✓	Assays.	
FAGA 008	~	84W	✓		?		~~91000 - 91008~~ 90521 - 90529 ~~12405 - 406~~	
FAGA 012	✓	84W	✓		✓		✓90534 - 537 (14240 -284) 7 Samples - No. #s.	S_2 Azimuth ?
FAGA 020	✓	84W	✓		✓	?	✓90538 - 90552 (14316-329)	"
FAGA 022	✓	84W	✓		✓	?	✓90553 - 90586	"
FAGU 036	✓	69W		✓	✓	?	✓90587	"
FAGU 037	✓	69W		✓	✓	?	✓90588 - 90598	"
FAGU 038	✓	69W		✓	✓	?	✓? - 90937 - 90948	"
FAGA 051	✓	84W	✓		✓	?	CAMC. (14188 - 213)	"
FAGU 074	✓	67W		✓	✓	?	?	No structure log.
FAGU 076	✓	67W		✓	✓	?	✓? 90949 - 90957	"
FAGU 078	✓	67W		✓	✓	?	?	"
FAGU 080	✓	67W		✓	✓	?	?	"
FAGA 085	✓	82W	✓		✓	✓	✓90414 - 90423 (12579-12607) - 90424 - 90449	(Gouge log ???????
FAGA 087	✓	82W	✓		✓	✓	✓90390 - 90413 (12501 - 530)	Gouge log.
FAGA 089	✓	82W	✓	✓	✓	✓	(?) ~~90459~~ 90450 - 90461 (12548-578) (Gouge log?)	R data - in feet - log in metres!
FAGA 093	✓	82W		✓	✓	✓	(?) 90457 - 90458 (12531-547)	Gouge log?
FAGA 104	✓	84W		✓	✓		✓~~Sample #'s missing~~ 90958-90968 (14614 - 642)	S_2 Azimuth?
FAGA 110	✓	60W		✓	✓	?	CAMC. (14595 - 14613)	S_2 Azimuth?
FAGA 111	✓	86W		✓	✓	?	✓90599 - 90604 (14519 - 543)	S_2 " ?
FAGA 113	✓	86W		✓	✓	?	CAMC. (14426 - 14451)	" ?
FAGA 114	✓	60W		✓	✓	?	CAMC (14459 - 14485)	" ?
FAGA 115	✓	86W		✓	✓	?	CAMC. (14486 - 14518)	S_2 azimuth?
FAGA 118	✓	86W		✓	✓	?	CAMC. (14546 - 583) (14589 - 594)	S_2 azimuth ?
~~FAGA 119~~		60W					12401 - 404	
FAGA 120	✓	86W		✓	✓	?	CAMC. (12847 - 906)	" ?
FAGA 124	✓	86W		✓	✓	?	CAMC. (12907 - 948) -	" ?

1982 Grum Relogs

	Co-ods	Sect#	F	M	Rdata	R_{FC}	Assays.	S_2 Azimuth ?
FAGA 131	✓	60 W		✓	✓	✓	✓ 90605, 90606	
140	✓	84W		✓	✓	?	CAMC. 14544-545	
144	✓	88W		✓		?	No Samples Taken.	"
154	✓	86W		✓	✓	?	CAMC. (14452-458)	"
156	✓	84W		✓	✓	?	CAMC. (14654-14696)	"
FAGU 158	?	82W		✓	?	?	CAMC. (14075-092)	"
U 160	✓	82W		✓	✓	?	CAMC. (14153-187)	"
U 162	✓	82W		✓	✓	?	CAMC. (14031-055)	"
U 164	✓	82W		✓	✓	?	CAMC (14097-14103)	"
U 166	✓	82 W		✓	✓	?	CAMC (14056-14074)	"
U 168	✓	82 W		✓	✓	?	CAMC. (14001-14029)	"
U 170	✓	84W		✓	✓	?	CAMC. (14214-14239)	"
U 172	✓	82W		✓	✓	?	CAMC. (12949-992)	"
U 174	✓	82W		✓	✓	?	CAMC. (14094-14096)	"
U 176	✓	84W		✓	✓	?	CAMC. (14340-14352)	"
U 178	✓	84W		✓	✓	?	CAMC. (14299-14315)	"
U 180	✓	84W		✓	✓	?	CAMC. (14285-14296)	"
U 182	✓	84 W		✓	✓	?	CAMC. (14401-14418)	"
U 184	✓	84 W		✓	✓	?	CAMC. (14353-14400)	"
U 185	✓	67 W		✓	✓	?	✓ 90607-90617	"
U 186	✓	84W		✓	✓	?	CAMC. (14335-14339)	"
U 188	✓	82 W		✓	✓	?	CAMC. (14404-14424)	"
U 189	✓	67 W		✓	✓	?	✓ 90683-90704	"
U 190	✓	82W		✓	✓	?	CAMC. (12993-13027) (14125 → 14152)	"
U 191	✓	67 W		✓	✓	?	✓ 90618-90629	"
U 187		67W						

1982 Grum Relogs

	Co-ords	Sect#	F	M	K Data	P_E	Assays		
FAQU 192	✓	75W		✓	✓	?	NEED KA FILL-IN. 90799-90845	S_2 Azimuth ?	
U 193	✓	69W		✓	✓	?	✓90630-90633	"	
U 194	✓	75W		✓	✓	?	No Samples Recorded? 90846-893	"	
U 195	✓	69W		✓	✓	?	✓90634-90643	"	
U 196	✓	75W		✓	✓	?	✓90644-90682	"	
U 197	✓	69W		✓	✓	?	0.4 m. - 4% 4E0 No Assay Taken.	"	Glen was becoming tired and not includ this.
U 198	✓	75 or 76W		✓	✓	?	✓90705-90715	"	
U 199	✓	71W		✓	✓	?	✓90716-90741	"	
U 200	✓	71W		✓	✓	?	✓90742-90753	"	
U 204	✓	71W		✓	✓	?	✓90754-90761	"	(LITH Codes.-Assay log).
U 205	✓	71W		✓	✓	?	No Samples Taken.	"	
U 206	✓	71W		✓	✓	?	✓No Assay log. 90894-90936	"	
U 207	✓	73W		✓	✓	?	90762-90771	"	
U 214	✓	75W		✓	✓	?	CAMC. (14330-14334)	"	
U 215	✓	75W		✓	✓	?	✓90772-90784	"	
U 216	✓	75W		✓	✓	?	90785-90798	"	
U 208	-	73W							
209	-	"							
210	-	"							
211	-	"							
212	-	"							
213	-	"							

ORFSections

90936.

LIST OF COMPUTER CORRECTIONS - GRUM DB.

	PCARD.80	RPCARD.GR.	PCARD.81	'T' UPDATES	"R" UPDATES	"P" UPDATES	MANUAL ENTRY 'P'	ETE	1980 (DDHCOE.DH) (DDHPLT.DH) (LOCATE.DH)	1981 (DDHCOE.81) (DDHART.81)	1982 (DHOIO.81) (DHO3B-84.81) (LOCATE.81)
FAGA 001		✓								✓	
002											
003											
004		✓								✓	
005		✓								✓	
006		✓								✓	
007											
008			✓					✓			✓
009		✓								✓	
010		✓								✓	
011	✓								✓		
012			✓					✓			✓ 10
013	✓								✓		
014		✓								✓	
015											
016											
017	✓								✓		
018											
019		✓								✓	
020			✓					✓			✓ 10
021		✓								✓	
022			✓					✓			✓ 10
023	✓								✓		
024	✓								✓	✓	
025											
026		✓								✓	
027	✓								✓		
028		✓								✓	
029											
030		✓								✓	
031											
032	✓								✓		
033											
034											

	PCARD.80	RPCARD.GR	PCARD.81	'T' UPDATES	'I2' UPDATES	'P' UPDATES	MANUAL ENTRY	RJE	1980 (DDHCOB.DH) (DDHALT.DH) (LOCATE.DH)	1981 (DDHCOB.81) (DDHALT.81)	1982
FAGA 035	✓								✓		
036											
037											
038	✓								✓		
039											
040	✓										
041	✓								✓		
042											
043											
044											
045	✓								✓		
046											
047											
048											
049											
050											
051			✓					✓			✓ 10
052	✓								✓		
053		✓								✓	
054											
055											
056		✓								✓	
057											
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060		✓								✓	
061											
062		✓								✓	
063			✓								
064											
065	/								✓		
066	/								✓		
067		✓								✓	
068		✓								✓	

		PCARD80	RPGREAD.GE	'P'CARD.81	'T' UPDATES	'R' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE (LOADED-	1980 (DDHCOB.DN) (DDHPLT.DH) (LOCATE.DH)	1981 (DDHCOB.81) (DDHPLT.81)	1982 (DH010.81) (DH030-34.81) (LOCATE.81)	
FAGA	069	✓								✓			
	070		✓								✓		
	071	✓								✓			
	072		✓								✓		
	073		✓								✓		
	074	✓								✓			
	075		✓								✓		
	076	✓								✓			
	077		✓								✓		
	078		✓								✓		
	079	✓								✓			
	080		✓								✓		
	081		✓								✓		
	082		✓								✓		
	083		✓								✓		
	084		✓								✓		
	085								✓			1/10	GM3
	086												
	087			✓					✓			30/9	
	088	✓								✓			
	089			✓					✓			30/9	
	090	✓								✓			
	091												
	092	✓								✓			
	093			✓					✓			30/9	
	094												
	095		✓								✓		
	096		✓								✓		
	097												
	098												
	099	✓								✓			
	100		✓								✓		
	101												
	102		✓								✓		

		PCARD.81	RP CARD.GR.	PCARD.81	'4' UPDATES	'2' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE	1980 (DDHCOR.DH) (DDHPLT.DH) (LOCATE.DH)	1981 (DDHCOR.81) (DDHPLT.81)	1982 (DH010.81) (DH030-034.81) (LOCATE.81)
FAGA	103		✓								✓	
	104			✓								✓ 1/10
	105		✓								✓	
	106	✓								✓		
	107		✓								✓	
	108											
	109	✓								✓		
	110											
	111											✓
	112		✓								✓	
	113											✓
	114											
	115											✓
	116	✓								✓		
	117	✓								✓		
	118											✓
	119											
	120											✓
	121	✓								✓		
	122		✓								✓	
	123											
	124											✓
	125											
	126											
	127											
	128											
	129		✓								✓	
	130											
	131			✓								
	132		✓								✓	
	133		✓								✓	
	134	✓								✓		
	135	✓								✓		
	136		✓								✓	

		PCARD.80	EP CARD.82	PCARD.81	'r' UPDATES	'e' UPDATES	'p' UPDATES	MANUAL ENTRY 'p'	EJE	1980 (DDH008.DH) (DDHATT.DH) (LOCATE.DH)	1981 (DDHCOR.81) (DDHPLT.81)	1982 (DH010.81) (DH030-034.81) (LOCATE.81)
FAGA	137		✓								✓	
	138		✓								✓	
	139	✓								✓		
	140			✓								1/10
	141		✓							✓		
	142		✓							✓		
	143		✓							✓		
	144											
	145		✓							✓		
	146											
	147		✓							✓		
	148											
	149		✓								✓	
	150											
	151											
	152		✓								✓	
	153	✓								✓		
	154											✓
	155		✓								✓	
	156			✓								1/10
	157	✓								✓		
	158		✓								✓	
	159		✓								✓	
	160	✓								✓		
	161		✓								✓	
	162		✓								✓	
	163	✓								✓		
	164	✓								✓		
	165											
	166											
	167											
	168											
	169											
	170			✓								

		PCARD.80	RPBARD.82	PCARD.81	'1' UPDATES	'12' UPDATES	'p' UPDATES	MANUAL ENTRY 'p'	RJE	1980 (DDHC02.DH) (DDHPRT.DH) (LOCATE.DH)	1981 (DDHC02.81) (DHHPRT.81)	1982 (DHO10.81) (DHO30-234.81) (LOCATE.81)
FAGA	171											
	172											
	173											
	174											
	175											
	176											
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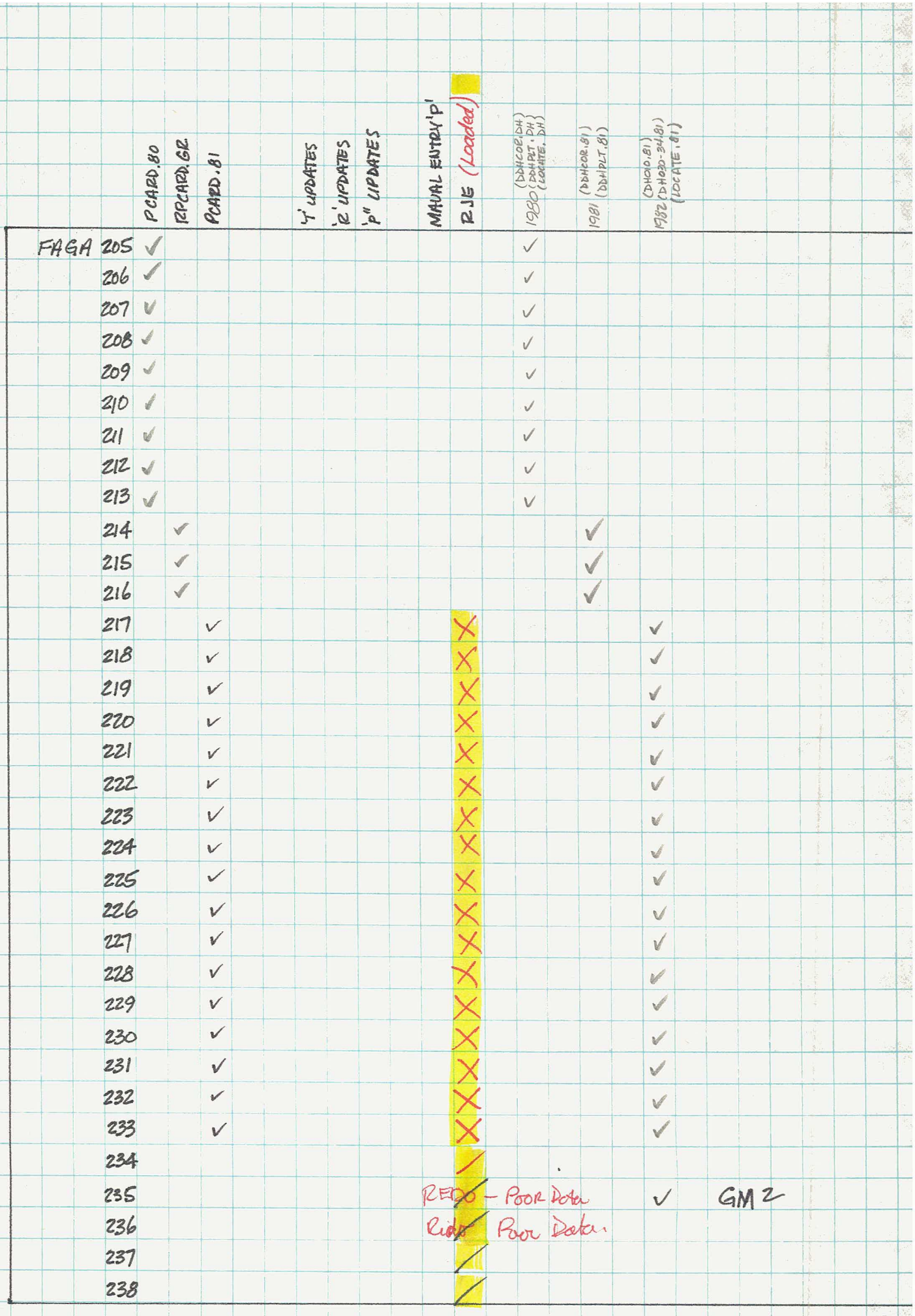
	198											
	199											
	200	✓								✓		
	201	✓								✓		
	202	✓								✓		
	203	✓								✓		
	204	✓								✓		


PCARD.80
12PCARD.82
PCARD.81
'1' UPDATES
'2' UPDATES
'p" UPDATES
MANUAL ENTRY 'P'
RJE (Loaded)
1980 (DDHCOR.DH) (DDHPLT.DH) (LOCATE.DH)
1981 (DDHCOR.81) (DDHPLT.81)
1982 (DH010.81) (DH020-34.81) (LOCATE.81)
FAGA
205
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238
REDO - Poor Data
Poor Data.
GM 2

		PCARD.80	RPCARD.GE	PCARD.81	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE	1982 (DIALOG.81) (DIALOG.-034.81) (LOCATE.81)
FAGA	239									✓
	240									✓
	241									✓

Grum - DB Corrections

		PCARD.80	EPCARD,82	PCARD.81	'T' UPDATES	'E' UPDATES	'D' UPDATES	MANUAL ENTRY 'P'	RJE	1980 (DDHCOB.DH) (DDHART.DH) (LOCATE.DH)	1981 (DDHCOB.81) (DDHART.81)	1982 (DHDIA.81) (DHP20-03¢) (LOCATE.81)
FAGU	001		✓								✓	
	002		✓								✓	
	003		✓								✓	
	004		✓								✓	
	005		✓								✓	
	006		✓								✓	
	007		✓								✓	
	008		✓								✓	
	009		✓								✓	
	010		✓								✓	
	011		✓								✓	
	012		✓								✓	
	013		✓								✓	
	014		✓								✓	
	015	✓								✓		
	016		✓								✓	
	017		✓								✓	
	018		✓								✓	
	019		✓								✓	
	020		✓								✓	
	021		✓								✓	
	022		✓								✓	
	023		✓								✓	
	024		✓								✓	
	025		✓								✓	
	026		✓								✓	
	027		✓								✓	
	028	✓								✓		
	029	✓								✓		
	030	✓								✓		
	031											
	032	✓								✓		
	033	✓								✓		
	034	✓								✓		

Grum - DB Corrections

		PCHED.00	EPCHED.GE	PCHED.01	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE	1980 (DDHCOB.DH) (DDHALT.DH) (LOCATE.DH)	1981 (DDNCOB.81) (DDHALT.81)	1982 (DHDIG.81) (DHDSD-034) (LOCATE.81)
FAGU	035	✓								✓		
	036											
	037											
	038											
	039	✓								✓		
	040	✓								✓		
	041	✓								✓		
	042	✓								✓		
	043	✓								✓		
	044	✓								✓		
	045	✓								✓		
	046	✓								✓		
	047	✓								✓		
	048	✓								✓		
	049	✓								✓		
	050											
	051	✓								✓		
	052	✓								✓		
	053	✓								✓		
	054	✓								✓		
	055	✓								✓		
	056	✓								✓		
	057	✓								✓		
	058		✓								✓	
	059		✓								✓	
	060		✓								✓	
	061		✓								✓	
	062		✓								✓	
	063		✓								✓	
	064		✓								✓	
	065		✓								✓	
	066		✓								✓	
	067		✓								✓	
	068		✓								✓	

Grum - DB Corrections

		PCAED.80	EPCAED,GE,	PCAED.81	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE	1980 (DDHCOR.DH) (DDHALT,DH) (LOCATE:DH)	1981 (DDHCOR,81) (DDHALT,81)	1982 (DHOIA.81) (DHPSD-OS4) (LOCATE;81)
FAGU	069		✓								✓	
	070		✓								✓	
	071		✓								✓	
	072		✓								✓	
	073		✓								✓	
	074											
	075		✓								✓	
	076											
	077		✓								✓	
	078											
	079		✓								✓	
	080											
	081		✓								✓	
	082											
	083		✓								✓	
	084		✓								✓	
	085		✓								✓	
	086		✓								✓	
	087		✓								✓	
	089		✓								✓	
	090		✓								✓	
	091		✓								✓	
	092		✓								✓	
	093		✓								✓	
	094											
	095		✓								✓	
	096		✓								✓	
	097		✓								✓	
	098		✓								✓	
	099		✓								✓	
	100		✓								✓	
	101		✓								✓	
	102		✓								✓	
	103		✓								✓	

Grum - DB Corrections

		PCARD.00	EPCARD.GE	PCARD.01	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE	1980 (DDHCOB.DH) (DDHART.DH) (LOCATE.DH)	1981 (DDHCOB.01) (DDHART.01)	1982 (DDHCOB.01) (DDHPSD-034) (LOCATE.01)
FAGU	104		✓								✓	
	105		✓								✓	
	106		✓								✓	
	107		✓								✓	
	108		✓								✓	
	109		✓								✓	
	110		✓								✓	
	111		✓								✓	
	112		✓								✓	
	113		✓								✓	
	114		✓								✓	
	115		✓								✓	
	116		✓								✓	
	117		✓							✓		
	118		✓								✓	
	119		✓								✓	
	120		✓								✓	
	121		✓								✓	
	122		✓								✓	
	123		✓								✓	
	124		✓								✓	
	125		✓								✓	
	126		✓								✓	
	127		✓								✓	
	128		✓								✓	
	129		✓								✓	
	130		✓								✓	
	131		✓								✓	
	132		✓								✓	
	133		✓								✓	
	134		✓								✓	
	135	✓								✓		
	136		✓								✓	
	137		✓								✓	

Grum - DB Corrections

		PCHED.00	EPCHED.02	PCHED.01	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE (LOADED)	1980 (DDHCOB.DH) (DDHALT.DH) (LOCATE.DH)	1981 (DDHCOB.B1) (DDHALT.B1)	1982 (DHDCA.B1) (DHDB2-034) (LOCATE.B1)
FAGU	138		✓								✓	
	139		✓								✓	
	140	✓								✓		
	141	✓								✓		
	142	✓								✓		
	143	✓								✓		
	144	✓								✓		
	145	✓								✓		
	146	✓								✓		
	147	✓								✓		
	148										✓	
	149	✓								✓		
	150	✓								✓		
	151	✓								✓		
	152	✓								✓		
	153	✓								✓		
	154	✓								✓		
	155	✓								✓		
	156	✓								✓		
	157	✓								✓		
	158										~~30~~ ✓9	✓30/9
	159	✓								✓		
	160											✓30/9
	161	✓								✓		
	162										~~30~~ ✓9	✓30/9
	163	✓									✓	
	164											✓30/9
	165	✓									✓	
	166											✓30/9
	167	✓									✓	
	168											✓30/9
	169	✓									✓	
	170			✓								✓1/10
	171	✓									✓	

Grum - DB Corrections

		PCNED.00	EPCNED.GE	PCNED.81	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RTE (LOADED	1980 (DDHCOB.DH) (DDHALT.DH) (LOCATE.DH)	1981 (DDHCOB.81) (DDHALT.81)	1982 (DHDIA.81) (DHDSD-054) (LOCATE.81)
FAGU	172								/			50 / 9
	173	✓									✓	
	174								/			30 / 9
	175	✓									✓	
	176			✓								1 ✓ 10
	177	✓									✓	
	178			✓								1 ✓ 10
	179	✓									✓	
	180			✓								1 ✓ 10
	181	✓								✓		
	182			✓								1 ✓ 10
	183	✓								✓		
	184			✓								1 ✓ 10
	185								/		✓	LMN 82
	186			✓								1 ✓ 10
	187								/			
	188								/			30 / 9
	189											
	190								/			30 / 9
	191											
	192											
	193											
	194											
	195											
	196											
	197											
	198											
	199											
	200											
	201											
	202											
	203											
	204											
	205											

Grum - DB Corrections

	PCARD.00	EPCARD.GE	PCARD.01	'T' UPDATES	'E' UPDATES	'P' UPDATES	MANUAL ENTRY 'P'	RJE	1980 (DDNICOB.DH) (DDNIALT.DH) (LOCATE.DH)	1981 (DDNICOB.01) (DDNIALT.01)	1982 (DHI010.01) (DHI030-034) (LOCATE.01)
FAGU 206											
207											
208											
209											
210											
211											
212											
213											

1982 Grum Relogs

	Co-ods	Sect #	F	M	R.Data	✓	Assays.	
FAGA 008	✓	84W	✓		?		91000 – 91008	
FAGA 012	✓	84W	✓		✓		90534 – 537	7 Samples – NO. #s. S_2 Azimuth ?
FAGA 020	✓	84W	✓		✓	?	90538 – 90552	"
FAGA 022	✓	84W	✓		✓	?	90553 – 90586	"
FAGU 036	✓	69W		✓	✓	?	90587	"
FAGU 037	✓	69W		✓	✓	?	90588 – 90598	"
FAGU 038	✓	69W		✓	✓	?	?	"
FAGA 051	✓	84W	✓		✓	?	CAMC.	"
FAGU 074	✓	67W		✓	✓	?	?	NO STRUCTURE log.
FAGU 076	✓	67W		✓	✓	?	?	"
FAGU 078	✓	67W		✓	✓	?	?	"
FAGU 080	✓	67W		✓	✓	?	?	"
FAGA 085	✓	82W	✓		✓	✓	90414 – 90423 – 90424 – 90449	(GOUGE LOG ???????
FAGA 087	✓	82W	✓		✓	✓	90390 – 90413	Gouge log.
* FAGA 089	✓	82W	✓ ✓		✓	✓	~~90459~~ 90450 – 90461 (Gouge log?)	R data – in feet – log in metres
FAGA 093	✓	82W		✓	✓	✓	90457 – 90458	Gouge log?
FAGA 104	✓	84W		✓	✓		Sample #s missing.	S_2 Azimuth?
FAGA 110	✓	60W		✓	✓	?	CAMC.	S_2 Azimuth?
FAGA 111	✓	86W		✓	✓	?	90599 – 90604	S_2 " ?
FAGA 113	✓	86W		✓	✓	?	CAMC.	" ?
FAGA 114	✓	60W		✓	✓	?	CAMC	" ?
FAGA 115	✓	86W		✓	✓	?	CAMC.	S_2 azimuth?
FAGA 118	✓	86W		✓	✓	?	CAMC.	S_2 azimuth ?
FAGA 120	✓	86W		✓	✓	?	CAMC.	" ?
FAGA 124	✓	86W		✓	✓	?	CAMC.	" ?

1982 Grum Relogs

	Co-ods	Sect#	F	M	R data	R_{FC}	Assays.
FAGA 131	✓	60 W		✓	✓	✓	90605, 90606
140	✓	84 W		✓	✓	?	CAMC.
144	✓	88 W		✓		?	No Samples Taken.
154	✓	86 W		✓	✓	?	CAMC.
156	✓	84 W		✓	✓	?	CAMC.
FAGU 158	?	82 W		✓	?	?	CAMC.
U 160	✓	82 W		✓	✓	?	CAMC.
U 162	✓	82 W		✓	✓	?	CAMC.
U 164	✓	82 W		✓	✓	?	CAMC
U 166	✓	82 W		✓	✓	?	CAMC
U 168	✓	82 W		✓	✓	?	CAMC.
U 170	✓	84 W		✓	✓	?	CAMC.
U 172	✓	82 W		✓	✓	?	CAMC.
U 174	✓	82 W		✓	✓	?	CAMC.
U 176	✓	84 W		✓	✓	?	CAMC.
U 178	✓	84 W		✓	✓	?	CAMC.
U 180	✓	84 W		✓	✓	?	CAMC.
U 182	✓	84 W		✓	✓	?	CAMC.
U 184	✓	84 W		✓	✓	?	CAMC.
U 185	✓	67 W		✓	✓	?	90607 - 90617
U 186	✓	84 W		✓	✓	?	CAMC.
U 188	✓	82 W		✓	✓	?	CAMC.
U 189	✓	67 W		✓	✓	?	90683 - 90704
U 190	✓	82 W		✓	✓	?	CAMC.
U 191	✓	67 W		✓	✓	?	90618 - 90629

S_2 Azimuth ?
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1982 Grum Relogs

		Co-ords	Sect#	F	M	R Data	R_E	ASSAYS
*	FAGU 192	✓	75W		✓	✓	?	NEED KA FILL-IN.
	U 193	✓	69W		✓	✓	?	90630-90635
*	U 194	✓	75W		✓	✓	?	No Samples Recorded.
	U 195	✓	69W		✓	✓	?	90634-90643
	U 196	✓	75W		✓	✓	?	90644-90682
	U 197	✓	69W		✓	✓	?	0.4 m. - 4% 4E0
	U 198	✓	75or76W		✓	✓	?	90705-90715
	U 199	✓	71W		✓	✓	?	90716-90741
	U 200	✓	71W		✓	✓	?	90742-90753
	U 204	✓	71W		✓	✓	?	90754-90761
	U 205	✓	71W		✓	✓	?	No Samples Taken.
*	U 206	✓	71W		✓	✓	?	No Assay Log.
	U 207	✓	73W		✓	✓	?	90762-90771
	U 214	✓	75W		✓	✓	?	CAMC.
	U 215	✓	75W		✓	✓	?	90772-90784
	U 216	✓	75W		✓	✓	?	90785-90798

S_2 Azimuth ?

"

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Glen was becoming tired and not included this

(LITH Codes. - Assay Log)

Data Base 1987/88

Nov 1/82

Most work done by mid Dec. 82. (PHASE 1A)

① Store collected ddh data for past 7 yrs. 1982
1981
1980 - Pre data.

→ to put everything in one format.

② Tech control JM-L.

③ Admin. P. Clarke

④ Passwords - Wayne.

⑤ Project Control. - JM-L. - every Monday - meeting for costs. etc. + problems.

Data Processing.

{ Grom. } When available & when needed.
{ Cirque. }
{ Anvil. } → Urgent. 124-128 middle of Nov.
finished - End Nov.

Users Manager of DB. - PAPER CHASE.
Data input.
Ultimate End user. - NO CHANGES ALLOWED.

PLOTTING - ① Tetrad. HI DP-85
② " but install HI CPS-19.
③ CAMC - own plotter. HI CPS-19

ICAS Software Services	PROGRAMMING STANDARDS	Systems: / Routine: / By:	Project: / Date: / Page:

1. ALL Program Development will be done in the GEOLOGY Account.

2. ALL Programs, Sub-routines and Functions will have their SOURCE language modules stored in the SOURCE Group as

   DHijkS.SOURCE.GEOLOGY

   where 'ijk' is the number assigned to the routine. All SOURCE language modules will be stored as QEDIT (Type=III) files.

3. ALL Sub-routine and function OBJECT (or relocatable) modules will be stored in the SOURCE Group within the Relocatable Library

   GEORL.SOURCE.GEOLOGY

   by their 'call' name 'DHijk'.

4. ALL Program executable modules will be stored in the OBJECT Group as

   DHijkP.OBJECT.GEOLOGY for COBOL programs

   and

   DHijkPR.OBJECT.GEOLOGY for 'FORTRAN' programs.

5. ALL Program compile job stream files will be stored in the SOURCE Group as

   DHijkCJO.SOURCE.GEOLOGY for 'COBOL' programs

   and

   DHijkCF.SOURCE.GEOLOGY for 'FORTRAN' programs.

   All compile stream files are stored as QEDIT 'TEXT' files.

6. ALL Program, Sub-routine and Function Documentation files will be stored in the DOC Group as

   DHijkP.DOC.GEOLOGY

   and will be QEDIT 'TEXT' files (max. length = 80 characters)

7. ALL Programmers will have a 'home' GROUP = user id for working in and for storage of miscellaneous files.

ICAS Software Services	FORTRAN PROGRAMMING STANDARDS.	Systems: / Routine: / By:	Project: / Date: / Page:

① Output Units.

- All printed output will be written to logical device 9 (= FTN09) if 132-character wide printout (standard) is used.
  - all reports will be headed by a banner page created by S/R LTITLE (EN5085)
  - all report pages will have a standard header line created by S/R LPAGE (EN5085)
- Other printed output will be written to logical device 8 (= FTN08) when 85-character wide printout (non-standard) is used.
  - all reports will be headed by a banner page created by S/R STITLE (EN5075)
  - all report pages will have a standard header line created by S/R SPAGE (EN5075)
- All access to printers, and other output files will be initiated and controlled within program main-line elements through calls to the HP3000 INTRINSIC 'COMMAND'.
- The User's CRT-screen will always be the "STDLIST" device and will always be logical device # 6. Output to the screen will be done through

  DISPLAY "——"

  or WRITE (6, format) ——

  statements.
- If a punch-file is required (if necessary for the HI-plotter, etc.) it will be assigned to logical device # 7 (= FTN07) (by COMMAND)
- If an output file is required for temporary or permanent data storage it will be assigned as follows.
  - formatted data - logical units 10, ..., 19 as necessary
  - binary data - logical units 20, ..., 49 as necessary

  All permanent output data files will be assigned names (by COMMAND).
- Note - as the bulk of data storage will be within the DATA BASE the need for binary data files is minimal and their usage will be discouraged.

(2.) Input Units

- The User's CRT-screen will always be the 'STDIN' device and will always be logical device #5. Input from the screen will be done through:

  ACCEPT xxx
  or READ (5, *) or READ (5, format) ← UNUSUAL

  statements.

- Formatted input data files may be assigned to logical units 1, 2, 3 or 4 if manually prepared.

- Input data files created by other programs should be assigned to the same logical device #, i.e.

  logical units 10, ..., 19 for formatted input data
  logical units 20, ..., 49 for binary input data.

(3.) Statement Numbers.

- should increase consistently throughout each program except for the following reservations in the 9000 series

9000 → 9100	Input format statements.
9500 → 9799	Output format statements (normal)
9800 → 9899 + 9900 → 9999	Error condition statements paired with Error format statements.

ICAS Software Services	FORTRAN PROGRAMMING STANDARDS	Systems: / Routine: / By:	Project: / Date: / Page:

(4.) DATA-BASE ACCESS

- Access to any of the Diamond Drill-Hole Data Bases may only be made programmatically through use of the DH100-series subroutines.
- Interactive display and reporting (for testing only) may be done via the QUERY processor.
- The COMMON blocks (and the variables stored within them) are RESERVED exclusively for DATA-BASE ACCESS. You may not re-use them for any other purpose.

(5.) STANDARD SUBROUTINES

- many standard subroutines exist for
  - data base access
  - sorting
  - scientific constants
  - report and page control
  - plotting
  - date conversion.
  - etc.
- to minimize development/testing time and cost you must use a standard routine whenever available.
- if a standard routine is not available for a regular operation one may be created after consultation with the project director.

(6.) DOCUMENTATION

- A system workbook containing all program development notes etc. will be created. You are expected to organise your notes and enter them in this workbook, for use by other programmers and for programmer's documentation/maintenance in the future. Obsolete notes are to be marked as such and left in the workbook.
- It is expected that you will create and maintain formal notes for any
  - algorithms/calculations you code
  - decision logic tables
  - array allocations

used in the programs. Fortran coding will have sufficient comment cards inserted so that an experienced programmer can follow program flow readily.

(6) DOCUMENTATION (Continued)

- It is also expected that you will create and maintain formal notes of significant variable usage within the programs you create.
- Formal user documentation will be organized by the Project Director.

(7) OTHER

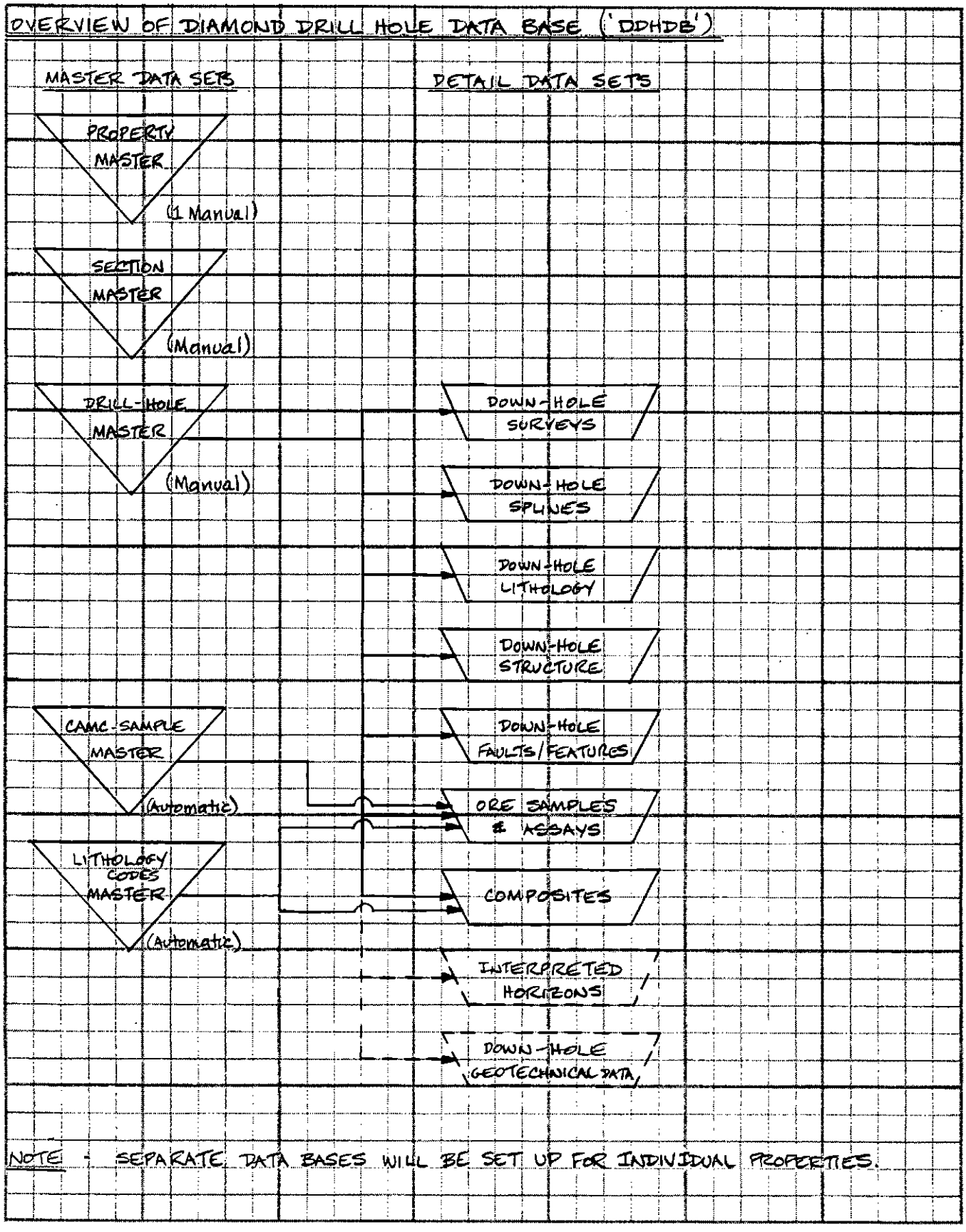
- Data values may not be stored in subroutines between calls unless the variables are located in labelled COMMON blocks.
- Use character variables for storage and manipulation of literal strings
  - when necessary - equate character strings to single integer arrays (cf. plotting strings via SYMBOL)
- Name variables according to regular FORTRAN usage.

  A → H, O → Z as REAL variables.
  try and reserve D— for DOUBLE PRECISION
  CHnn for nn-length characters
  do not use 'O'

  I → N as INTEGER variables (max. value ± 32767)
  try and reserve J— for INTEGER*4
  L— for LOGICAL variables.

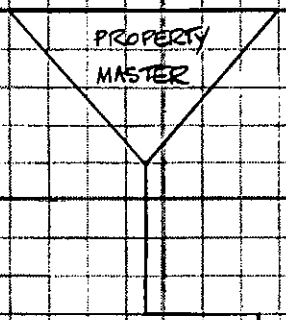
- Keep variable names significant i.e. FDEPTH = from-depth, etc.
- When accepting interactive input always load it into a character string and then decode the character string.
  - note leading blanks are eliminated.
  - always check for 'Y' and 'N' in YES/NO answer situations.

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 22.10.82
		By: J.M.-L.	Page:



ICAS Software Services		Systems: DDHDB	Project: PS2001
		Routine: SCHEMA	Date: 20.10.82
		By: J.M.-L.	Page:

"PROPERTY-MASTER" DATA SET



R4 - Double precision calculations.

PROPERTY,		X20;	
UTM-LIMITS,	4	R4;	} Primary Grid.
UTM-ZONE,		I;	
UTM-TRUEN,		R2;	
GEOL-GRID,	6	R4;	← Secondary grid. S1
MODEL-GRID,	6	R4;	← " " S2
SURVEY-GRID,	6	R4;	← " " S3
CON-KEY(0),		X2;	
IND-GR,	3	I;	
PLUNGE,	2	I;	← ?

6.10.82 →

(0) Holds conversions factors for various grids.

ICAS Software Services		Systems: DDHDB	Project: PS2001
		Routine: SCHEMA	Date: 21.10.82
		By: J.M.-L.	Page:

"PROPERTY MASTER" DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /PRPRTY/

```
      COMMON /PRPRTY/ PRNAME,UTMLIM(4),IUTMZN,UTMTRN,
     1                GRGEOL(4),GRMODL(4),GRSURV(4),CONKEY,INDGR(3),IPLNGE(2)
      CHARACTER PRNAME*20, CONKEY*2
      DOUBLE PRECISION UTMLIM,GRGEOL,GRMODL,GRSURV
```

≠ 26.10.82

Variables	Type	Size	Description
PRNAME	Character	20 bytes	Property Identifier
UTMLIM	D.P	4	Property UTM-limits 1 = Min. Northing 2 = Max. Northing 3 = Min. Easting 4 = Max. Easting
IUTMZN	Integer		UTM-Zone * (usually 8)
UTMTRN	Real		Offset Angle UTM-North to True North (degrees)
GRGEOL	D.P.	6	Geological Grid Definition Parameters 1 = N_o 2 = E_o 3 = Z_o 4 = α (degrees) 5 = S_H 6 = S_V
GRMODL	D.P	6	Mine Model Grid Definition Parameters 1,...,6 as above
GRSURV	D.P.	6	Mine (Survey) Grid Definition Parameters 1,...,6 as above
CONKEY	Character	2 bytes	Control-Key (? P. Pollhammer)

ICAS Software Services		Systems: DDHDB	Project: P82001
		Routine: SCHEMA	Date: 26.10.82
		By: J.M.-L.	Page:

PROPERTY-MASTER DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /PRPRTY/ (Continued)

INDGR	Integer	3	Grid Input Indicator (1) - Geological 0 = NO 1 = YES (2) - Mine Model (3) - Mine Survey
IPLNGE	Integer	2	General Property Structure Plunge (1) - Plunge Angle - integer degrees ± from horizontal (2) - Plunge Direction - integer degrees c.w from : UTM-North (i.e. a UTM-azimuth)

ICAS Software Services		Systems: DDHDB	Project: PE2001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"PROPERTY-MASTER" DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' PROPERTY Master - CALL S/R DH701

SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
PROPERTY	X20	1- 10	PRNAMX	→	PRNAME
UTM-LIMITS	4 R4	11- 26	DUTMX(i)	→	UTMLIM(i)
UTM-ZONE	I	27	IZONE	→	IUTMZN
UTM-TRUEN	R2	28- 29	UTMRNX	→	UTMTRN
GEOL-GRID	6 R4	30- 53	GRGEOX(i)	→	GRGEOL(i)
MODEL-GRID	6 R4	54- 77	GRMDLX(i)	→	GRMODL(i)
SURVEY-GRID	6 R4	78-101	GRSRVX(i)	→	GRSURV(i)
CON-KEY	X2	102	CONKEX	→	CONKEY
IND-GR	3 I	103-105	INDGRX(i)	→	INDGR(i)
PLUNGE	2 I	106-107	IPLNGX(i)	→	IPLNGE(i)

2. PUT or UPDATE PROPERTY Master - CALL S/R DH702 or S/R DH703

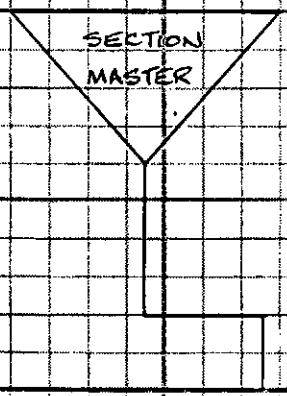
COMMON	OPERATION	EQUIV.	PRBUFF(i)	SIZE	SCHEMA
PRNAME	→	PRNAMX	X20	1- 10	PROPERTY
UTMLIM(i)	→	DUTMX(i)	4 R4	11- 26	UTM-LIMITS
IUTMZN	→	IZONE	I	27	UTM-ZONE
UTMTRN	→	UTMRNX	R2	28- 29	UTM-TRUEN
GRGEOL(i)	→	GRGEOX(i)	6 R4	30- 53	GEOL-GRID
GRMODL(i)	→	GRMDLX(i)	6 R4	54- 77	MODEL-GRID
GRSURV	→	GRSRVX(i)	6 R4	78-101	SURVEY-GRID
CONKEY	→	CONKEX	X2	102	CON-KEY
INDGR(i)	→	INDGRX(i)	3 I	103-105	IND-GR
IPLNGE(i)	→	IPLNGX(i)	2 I	106-107	PLUNGE

ICAS Software Services

Systems:	DDHDB
Routine:	SCHEMA
By:	J.M.-L.

Project:	PB2001
Date:	28.10.82
Page:	

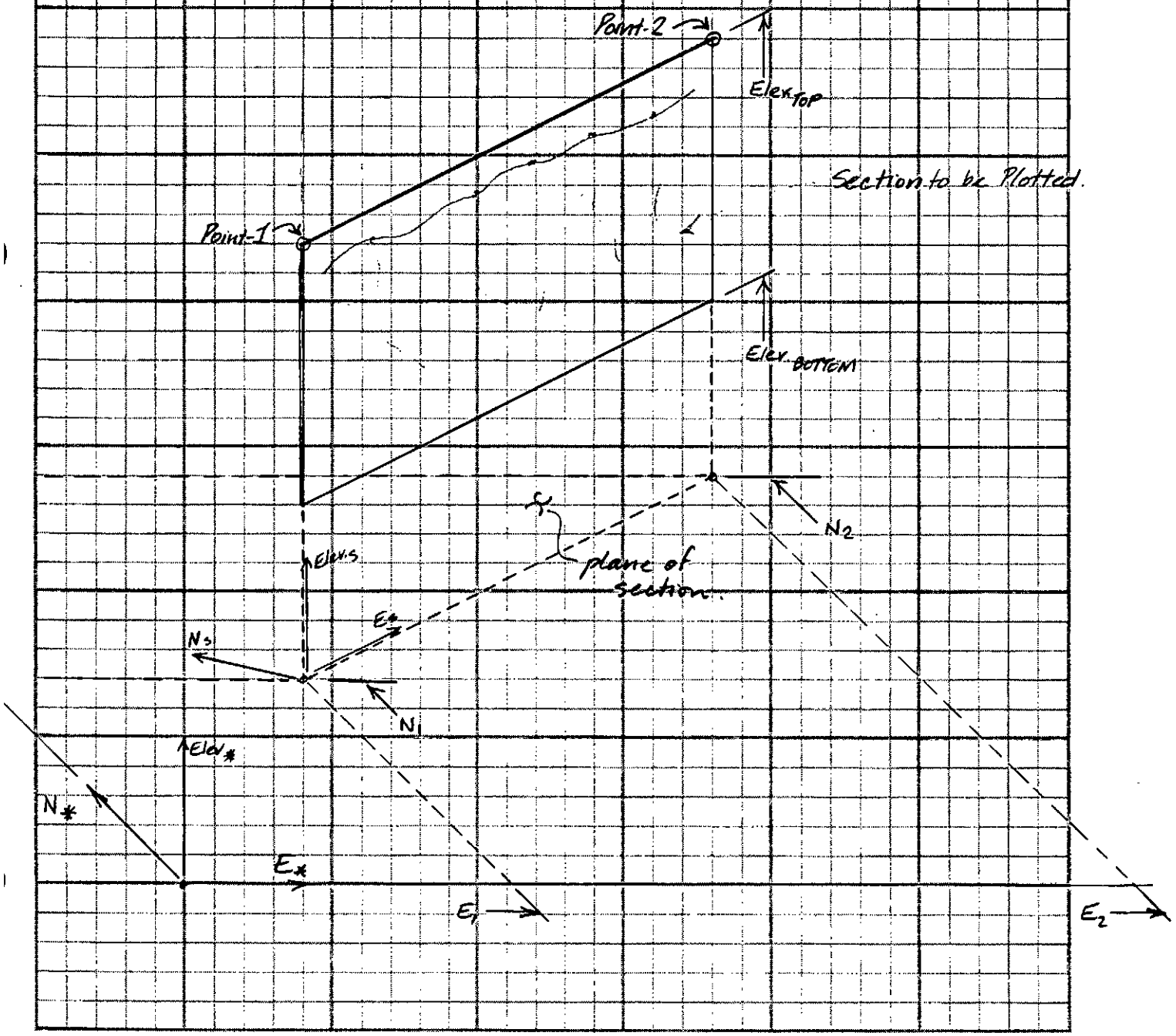
"SECTIONS" MASTER DATA SET



SECTION(0),		X6;
UTM-ENDS,	4	R4;
UTM-ELEV,	2	R2;
GEOL-ENDS,	4	R2;
GEOL-ELEVS,	2	R2;
TRANSF-M,	16	R2;
IND-GR,		I; ← Defines grid being used.
SCALES,	2	R2;
UNITS,	2	X8;
ROTATE,	3	R2;
VIEW,		R2;
S-DIST,		R2;
PLUNGE	2	I;
S-PLUNGE	2	R2;

Mathesis = Transf-m } - utm to mines grid.
Rotate }

"SECTIONS" MASTER DATA SET (Continued)



ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"SECTIONS" MASTER DATA (Continued)

FORTRAN ACCESS - LABELLED COMMON /CSECTN/

```
      COMMON /CSECTN/ PSECTN,UTMEND(4),UTMELS(2),GEOLND(4),GEOELS(2),
     1                TRANSF(4,4),INDGRS,SCALES(2),UNITS(2),ROTATE(2,3),
     2                VIEW,SDIST,IPLNGS(2),PLUNGES(2)
      CHARACTER*8 PSECTN,UNITS
      DOUBLE PRECISION UTMEND
```

Variable	Type	Size	Description
PSECTN	Character	8 bytes	Section Identifier
UTMEND	D.P.	4	UTM Co-ordinates of Section end-points (1) = Point 1 - Northing (2) = - Easting (3) = Point 2 - Northing (4) = - Easting
UTMELS	Real	2	UTM - Elevations of Section Limits (1) Section Top (2) Section Bottom
GEOLND	Real	4	Co-ordinates (secondary) of Section end-points (1) = Point 1 - Northing (2) = - Easting (3) = Point 2 - Northing (4) = - Easting
TRANSF	Real	4,4	Coordinate Transformation Matrix from Secondary Co-ordinate System to Section Coordinates.
INDGRS	Integer		Base Point Co-ordinate System 0 = Undefined 1 = UTM Co-ords 2 = Geological } Secondary Coordinate Systems. 3 = Mine Model } Secondary Coordinate Systems. 4 = Mine Survey } Secondary Coordinate Systems.
GEOELS	Real	2	Elevations of Section Limits (Secondary Co-ordinate (1) = Top

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"SECTIONS" MASTER DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /CSECTN/ (Continued)

SCALES	Real	2	Section Plotting Scales (units/plot inch) (1) = Horizontal Scale (2) = Vertical Scale
UNITS	Character	2 x 8 bytes	Section Units (Distance) (1) = Horizontal (2) = Vertical
ROTATE	Real	2,3	Rotation Matrix to Project off-section points on to the Section
VIEW	Real		View azimuth - decimal degrees
SDIST	Real		Horizontal Distance to next section
IPLNGS	Integer	2	Section Structure Plunge (1) - Plunge Angle - integer degrees I horizontal (2) - Plunge Direction - integer degrees c.w. from UTM-North (i.e. a UTM-azimuth
PLUNGES	Real	2	Plunge angles (radians) relative to section (1) Plunge Angle (2) Plunge Direction

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"SECTIONS" MASTER DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Specific' and GET 'Next' SECTION MASTER - CALL S/R DH704 & S/R DH705

SCHEMA	SIZE	PBUFF(i)	EQUIV.	OPERATION	COMMON
SECTION	XB	1- 4	SECTX	→	PSECTN
UTM-ENDS	4 R4	5- 20	UTMNX(i)	→	UTMEND(i)
UTM-ELEVS	2 R2	21- 24	UTMELX(i)	→	UTMELS(i)
GEOL-ENDS	4 R2	25- 32	GEOLX(i)	→	GEOLND(i)
GEOL-ELEV	2 R2	33- 36	GEOLZ(i)	→	GEOELS(i)
TRANSF-M	16 R2	37- 68	TRANX(i,j)	→	TRANSF(i,j)
IND-GR	I	69	INDGRX	→	INDGRS
SCALES	2 R2	70- 73	SCALEZ(i)	→	SCALES(i)
UNITS	2 XB	74- 89	UNITZ(i)	→	UNITS(i)
ROTATE	6 R2	90- 101	ROTATX(i,j)	→	ROTATE(i,j)
VIEW	R2	102-103	VIEWX	→	VIEW
S-DIST	R2	104-105	SDISTX	→	SDIST
PLUNGE	2 I	106-107	IPLNGX(i)	→	IPLNGS(i)
S-PLUNGE	2 R2	108-111	SPLNGX(i)	→	PLUNGES(i)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"SECTIONS" MASTER DATA SET (Continued)

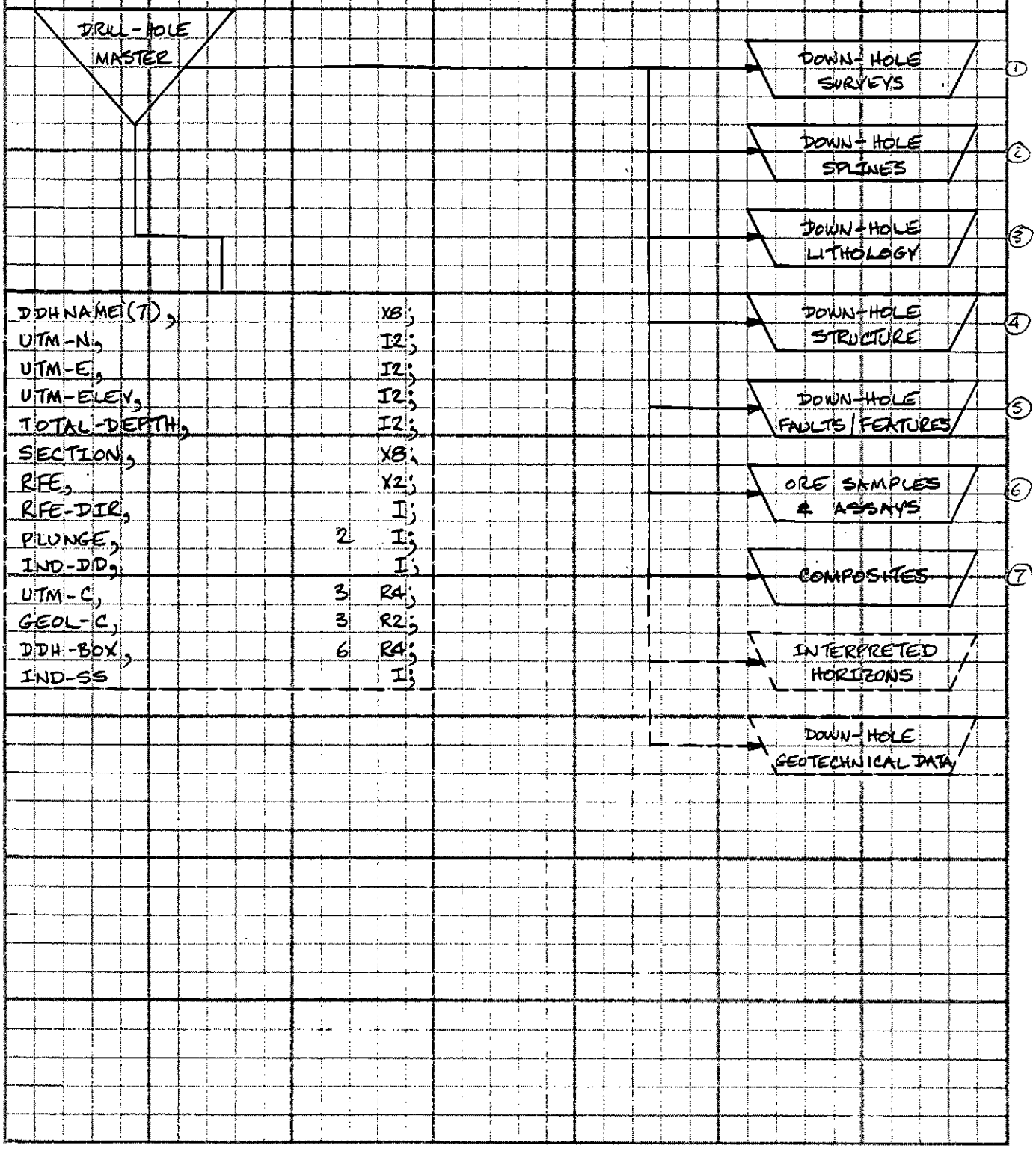
FORTRAN ACCESS

2. PUT and UPDATE SECTION MASTER - CALLS R DH707 & DH708

COMMON	OPERATION	EQUIV.	PRBUFF(i)	SIZE	SCHEMA
PSECTN	→	SECTX	1- 4	XB	SECTION
UTMEND(i)	→	UTMNY(i)	5- 20	4 R4	UTM-ENDS
UTMELS(i)	→	UTMELY(i)	21- 24	2 R2	UTM-ELEVS
GEOLND(i)	→	GEOLX(i)	25- 32	4 R2	GEOL-ENDS
GEOELS(i)	→	GEOLZ(i)	33- 36	2 R2	GEOL-ELEV
TRANS(i,j)	→	TRANX(i,j)	37- 68	16 R2	TRANSF-M
INDGRS	→	INDGRX	69	I	IND-GR
SCALES(i)	→	SCALEZ(i)	70- 73	2 R2	SCALES
UNITS(i)	→	UNITZ(i)	75- 89	2 XB	UNITS
ROTATE(i,j)	→	ROTATX(i,j)	90-101	6 R2	ROTATE
VIEW	→	VIEWX	102-103	R2	VIEW
SDIST	→	SDISTX	104-105	R2	S-DIST
IPLNGS(i)	→	IPLNGX(i)	106-107	2 I	PLUNGE
PLUNGES(i)	→	SPLNGX(i)	108-111	2 R2	S-PLUNGE

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"DRILL-HOLE MASTER" DATA SET



ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"DRILL-HOLE MASTER" DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /DHMSTR/

```
      COMMON /DHMSTR/ DDHIDM,UTMCS(3),TOTALD,SECTION,RFE,IRDIR,
     1                MPLNGE(2),INDDDM,DUTMS(3),GEOLCS(3),
     2                DDHBOX(6),INDDSM
      CHARACTER*8 DDHIDM,SECTION
      CHARACTER*2 RFE
      DOUBLE PRECISION DUTMS,DDHBOX
```

Variable	Type	Size	Description
DDHIDM	Character	8 bytes	DDH - Identifier
UTMCS	Real	3	Input UTM- Coordinates (1) Northing (2) Easting (3) Elevation
TOTALD	Real		Total depth (length) of DDH (metres)
SECTION	Character	8 bytes	Section descriptor (closest X-section to DDH-collar)
RFE	Character	2 bytes	Reference Fabric Element for DDH - " " not defined - "S0", "S1", "S2"
IRDIR	Integer		Reference Fabric Element Direction (degrees azimuth)
MPLNGE	Integer	2	DDH local structure plunge angles (1) = plunge angle ± ° from horizontal (2) = plunge direction - ° from UTM-N (cw)
INDDDM	Integer		Indicator for down-hole displacement calculations - 0 = not done (default) 1 = done
DUTMS	D.P.	3	Double Precision UTM-Coordinates of DDH-Collar (N, E, Elev.)

ICAS Software Services		Systems: DDHDB	Project: PS2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"DRILL-HOLE MASTER" DATA SET (Continued)

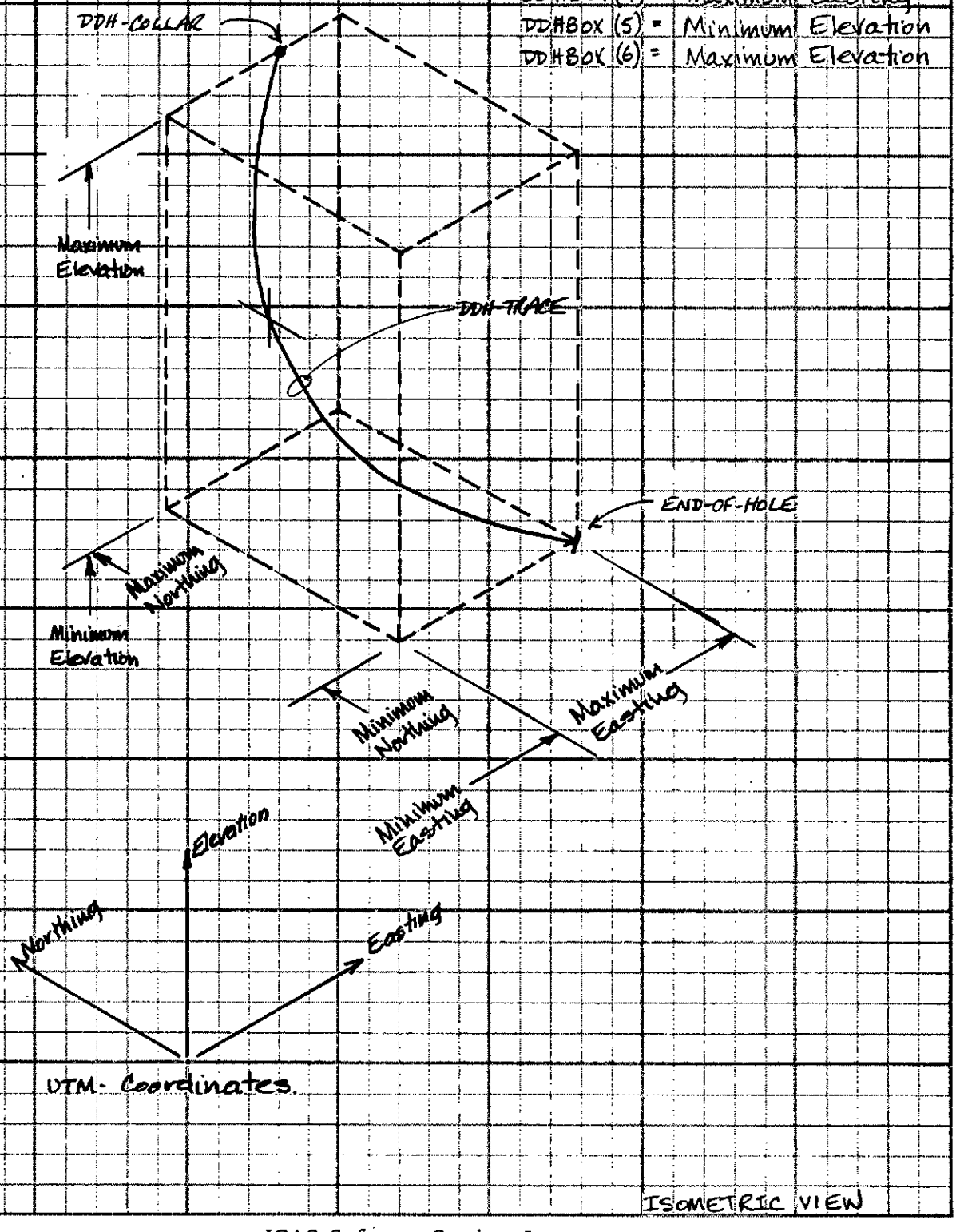
FORTRAN ACCESS - LABELLED COMMON /DHMSTR/ (Continued)

GEOLCS	Real	3	Geological - coordinates of DDH - collar. (1) = Northing (Geological) (2) = Easting (Geological) (3) = Elevation (Geological)
DDHBOX	D.P.	6	UTM - Coordinates of location box containing entire DDH - trace (1) = Minimum Northing (2) = Maximum Northing (3) = Minimum Easting (4) = Maximum Easting (5) = Minimum Elevation (6) = Maximum Elevation
INDSSM	Integer		Indicator for structural solution calc. - 0 - not done (default) 1 - done

ICAS Software Services		Systems: DDHDB	Project: P8200 1
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"DRILL-HOLE MASTER" DATA SET (Continued)

DDHBOX (1) = Minimum Northing
DDHBOX (2) = Maximum Northing
DDHBOX (3) = Minimum Easting
DDHBOX (4) = Maximum Easting
DDHBOX (5) = Minimum Elevation
DDHBOX (6) = Maximum Elevation



ISOMETRIC VIEW

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 28.10.82
		By: J.M.-L.	Page:

"DRILL-HOLE MASTER" DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Specific' / 'Next' DDH-MASTER - CALL S/R DH710 / S/R DH711

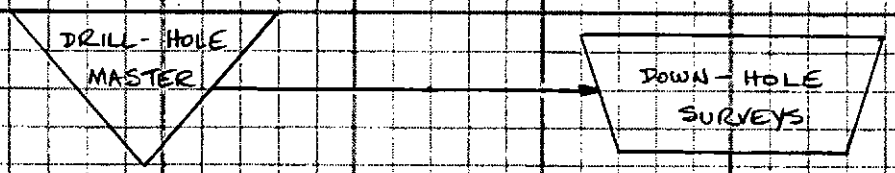
SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHNAME	XB	1- 4	DDHIDX	→	DDHIDM
UTM-N	I2	5- 6	JUTM(1)	} JFLOAT(JUTM(i)) * 0.1	UTMCS(i)
UTM-E	I2	7- 8	JUTM(2)		
UTM-ELEV	I2	9- 10	JUTM(3)		
TOTAL-DEPTH	I2	11- 12	JTTD	JFLOAT(JTTD) * 0.1	TOTALD
SECTION	XB	13- 16	SECTX	→	SECTION
RFE	X2	17	RFEV	→	RFE
RFE-DIR	I	18	IRFEX	→	IRDIR
MPLNGE	2 I	19- 20	IPLNGX(i)	→	MPLNGE(i)
IND-DD	I	21	INDDDX	→	INDDDM
UTM-C	3 R4	22- 33	DUTMX(i)	→	DUTMS(i) } only if INDDM > 0 otherwise set = 0.0
GEOL-C	3 R2	34- 39	GEOLX(i)	→	GEOLCS(i)
DDH-BOX	6 R4	40- 63	DHBOXX(i)	→	DDHBOX(i)
IND-SS	I	64	INDSSX	→	INDSSM

2. UPDATE DDH-MASTER - CALL S/R DH714

COMMON	OPERATION	EQUIV.	PRBUFF(i)	SIZE	SCHEMA
DDHIDM	→	DDHIDX	1- 4	XB	DDHNAME
UTMCS(i)	Not Updated				
TOTALD	" "				
SECTION	" "				
RFE	" "				
IRDIR	" "				
MPLNGE(i)	" "				
INDDDM	→	INDDX	5	I	IND-DD
DUTMS(i)	→	DUTMX(i)	6- 17	3 R4	UTM-C
GEOLCS(i)	→	GEOLX(i)	18- 23	3 R2	GEOL-C
DDHBOX(i)	→	DHBOXX(i)	24- 47	6 R4	DDH-BOX
INDSSM	→	INDSSX	48	I	IND-SS

ICAS Software Services		Systems: DDHDB	Project: F62001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE SURVEYS" DETAIL DATA SET



		UNITS	STORED AS
DDHID (DDH-MASTER)	XB;		aaaaaaa
FDEPTH,	I2;	metres	9999.9
ZENITH,	I2;	degrees	999.9
AZIMUTH,	I2;	degrees	999.9

26.10.82

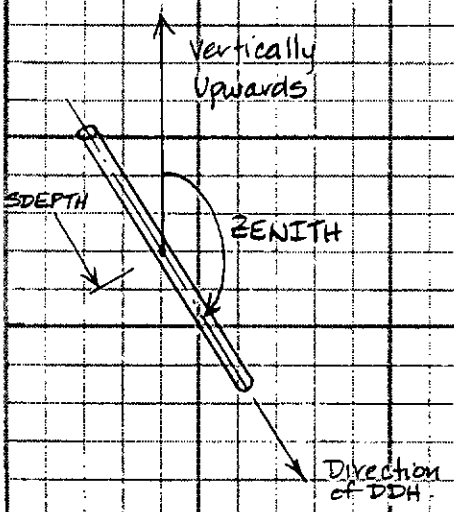
ICAS Software Services		Systems: DDHDB	Project: PS2001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE SURVEYS" DETAIL DATA SET (Continued)

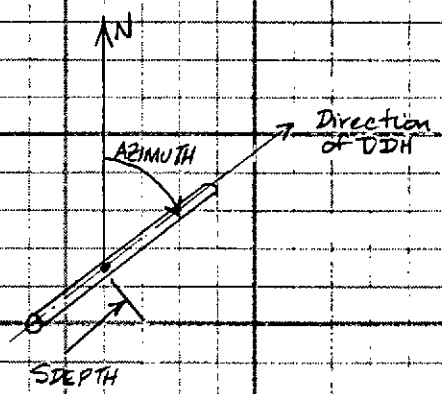
FORTRAN ACCESS - LABELLED COMMON /DDHSUR/

```
COMMON /DDHSUR/ DDHID2,SDEPTH,ZENITH,AZMUTH
```

Variables	Type	Size	Description
DDHID2	Character	8 bytes	DDH - Identifier
SDEPTH	Real		Depth of Survey Measurement (≥ 0.0)
ZENITH	Real		Zenith angle ($0.0 \leq$ ZENITH ≤ 180.0)
AZMUTH	Real		Azimuth angle ($0.0 \leq$ AZMUTH ≤ 359.9)



VERTICAL SECTION VIEW



PLAN VIEW

ICAS Software Services		Systems: DDHDB	Project: P82001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.L.	Page:

"DOWN-HOLE SURVEYS" DETAIL DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' SURVEY DETAIL — S/R DH717

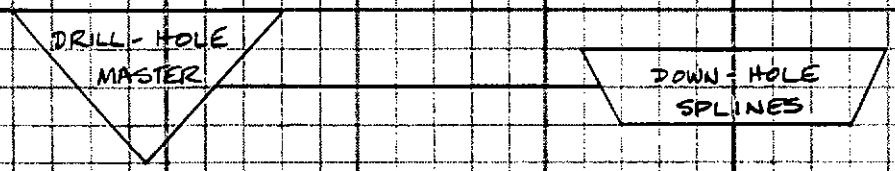
SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHID	X8	1- 4	DDHIDX	→	DDHID2
FDEPTH	I2	5- 6	JSDPTH	JFLOAT(JSDPTH) *0.1	SDEPTH
ZENITH	I2	7- 8	JZNITH	JFLOAT(JZNITH) *0.1	ZENITH
AZIMUTH	I2	9- 10	JAZMTH	JFLOAT(JAZMTH) *0.1	AZMUTH

26.10.82*

26.10.82*

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 26.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE SPLINES" DETAIL DATA SET




```
DDHID (DDH-MASTER),          XB;
SPLINE-NO,                   I;
SPLINE-COND,                 I;
TZERO,                   3   R2;
SPLINEC,                 12  R8;
```

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 26.10.82
		By: J.M.-L.	Page:

DOWN-HOLE SPLINES" DETAIL DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /DHSPLN/

```
COMMON /DHSPLN/ DDHIDSP, ISPLINE, KSPLINE, TZERO(3), SPLINEC(12)
CHARACTER*8 DDHIDSP
```

Variable	Type	Size	Description
DDHIDSP	Character	8 bytes	DDH-Identifier
ISPLINE	Integer		Spline segment # (from DDH-Collar)
KSPLINE	Integer		Spline condition indicator = 1 for all segments except the last = 2 if last segment overlaps the next to last segment = 3 if only 1 segment for DDH
TZERO	Real	3	Down-hole depths (1) = t_o start of spline-segment (2) = t_m mid-point of spline-segment (3) = t_e end of spline-segment.
SPLINEC	Real	12	Parametric cubic spline coefficients (1) = A (2) = B (3) = C } x-coefficients (UTM-E) (4) = D (5) = E (6) = F (7) = G } y-coefficients (UTM-N) (8) = H (9) = P (10) = Q (11) = R (12) = S } y-coefficients (UTM-El.)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 26.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE SPLINES" DETAIL DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' SPLINES Detail - CALL S/R DH722

SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHID	X8	1- 4	DDHIDX	→	DDHIDSP
SPLINE-NO	I	5	ISPLNX	→	ISPLINE
SPLINE-COND	I	6	KSPLNX	→	KSPLINE
TZERO(i)	3 R2	7- 12	TZEROX(i)	→	TZERO(i)
SPLINEC(i)	12 R2	13- 36	SPLINX(i)	→	SPLINEC(i)

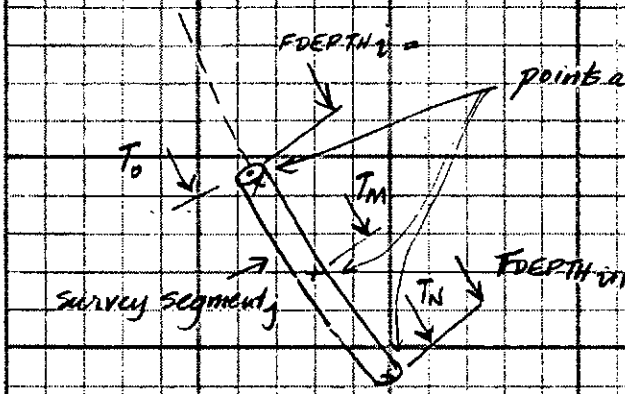
2. PUT SPLINES Detail - CALL S/R DH723

COMMON	OPERATION	EQUIV.	PRBUFF(i)	SIZE	SCHEMA
DDHIDSP	→	DDHIDX	1- 4	X8	DDHID
ISPLINE	→	ISPLNX	5	I	SPLINE-NO
KSPLINE	→	KSPLNX	6	I	SPLINE-COND
TZERO(i)	→	TZEROX(i)	7- 12	3 R2	TZERO(i)
SPLINEC(i)	→	SPLINX(i)	13- 36	12 R2	SPLINEC(i)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine:	Date: 26.10.82
		By: J.M.-L.	Page:

DOWN-HOLE SURVEY CALCULATIONS

- for i^{th} spline segment along the drill-hole



- Retrieve TZERO and SPLINEC(12) for this segment.

T = depth down-hole to point of interest $\quad T_0 \leq T \leq T_N$

26.10.82

Set
T_0 = TZERO(1) $\quad$ A = SPLINEC(1) $\quad$ E = SPLINEC(5) $\quad$ P = SPLINEC(9)
T_M = TZERO(2) $\quad$ B = SPLINEC(2) $\quad$ F = SPLINEC(6) $\quad$ Q = SPLINEC(10)
T_N = TZERO(3) $\quad$ C = SPLINEC(3) $\quad$ G = SPLINEC(7) $\quad$ R = SPLINEC(11)
D = SPLINEC(4) $\quad$ H = SPLINEC(8) $\quad$ S = SPLINEC(12)

Calculate $t = T - T_0$ $\quad$ Check $t \geq 0.0$

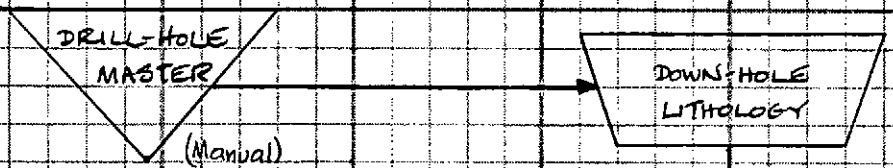
Then

$$XE = A + t*(B + t*(C + t*D))$$
$$YN = E + t*(F + t*(G + t*H))$$
$$EL = P + t*(Q + t*(R + t*S))$$

XE, YN, EL are UTM-coordinates of point along the DDH-trace.

ICAS Software Services		Systems: DDHDB	Project: 982001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE LITHOLOGICAL UNITS" DETAIL DATA SET



			UNITS ↓	STORED AS ↓
DDHID (DDH-MASTER),		XB;		aaaaaaaa$_{\Delta}$
TDEPTH,		I2;	metres	9999.9
LITH UNIT,		I;		
LITH-CODE,		XB;		
LITH-DESC,		X30;		
RECOV,		I2;	metres	99.9
INDF-DD,		I;		
DD2,	3	R2;	metres	±9999.9

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Revised 26.10.82 Date: ~~18.10.82~~
		By: J.M.-L.	Page:

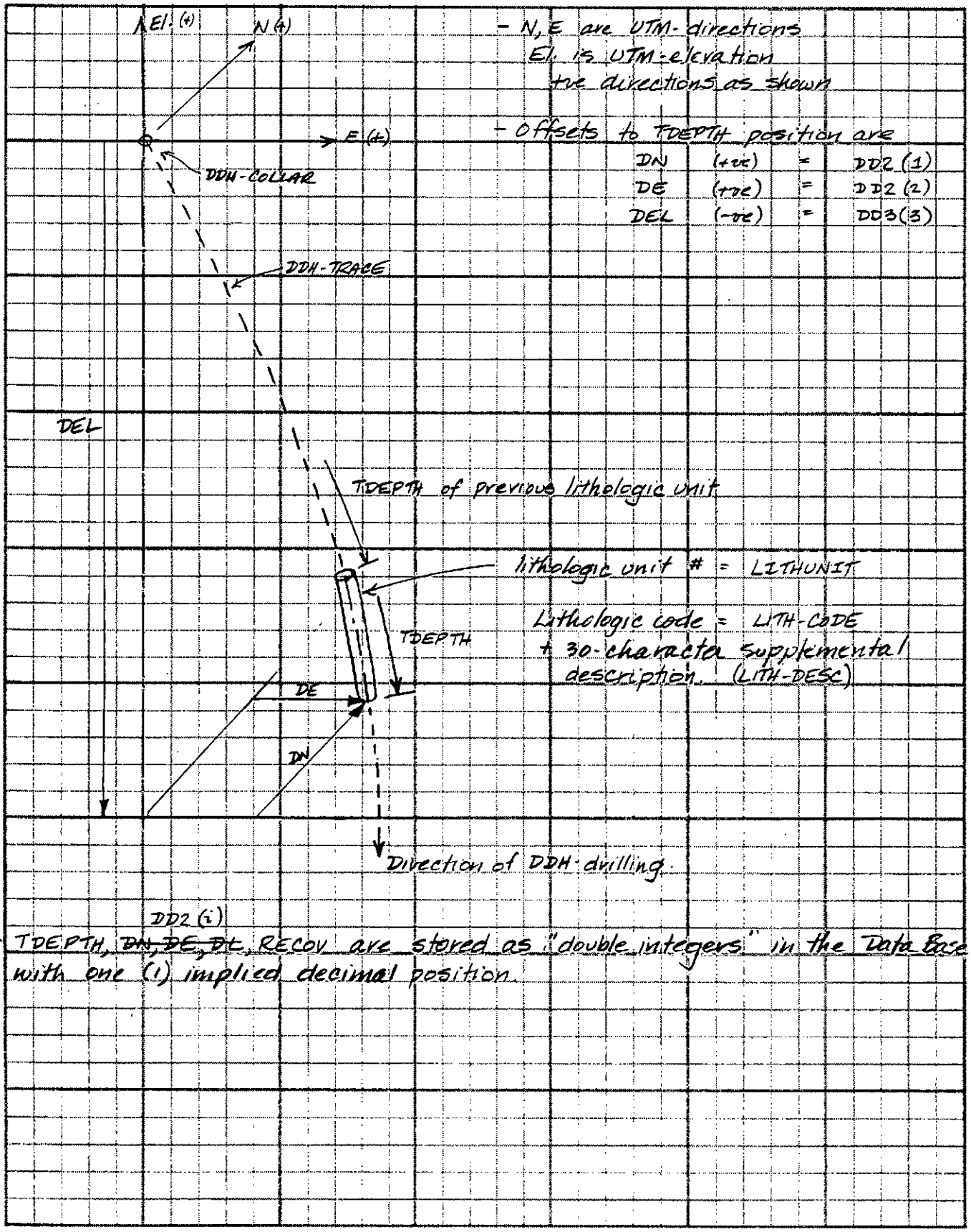
"DOWN-HOLE LITHOLOGICAL UNITS" DETAIL DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /DHLITH/

```
      COMMON /DHLITH/ DDHIDL, TDEPTH, ILITHU, CLITH, DLITH, RECOV,
     1                INDDDL, DD2L(3)
      CHARACTER DDHIDL*8, CLITH*8, DLITH*30
```

Variables	Type	Size	Description
DDHIDL	Character	8 bytes	DDH - Identifier
TDEPTH	Real		To-depth of lithological unit
ILITHU	Integer		Sequential Lithological Unit # (down-hole)
CLITH	Character	8 bytes	Main Lithological unit code (only first 5 characters used currently)
DLITH	Character	30 bytes	Lithological unit description (additional) (component) and [alternate] units.
RECOV	Real		Core recovery for unit (metres)
INDDDL	Integer		Indicator for down-hole displacement calculation - 0 = not done (initial condition) 1 = done
DD2L	Real	3	Down-hole displacements of 'to-depth' position relative to collar location (metres) DD2L(1) = ΔN DD2L(2) = ΔE DD2L(3) = ΔElev.

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine:	Revised Date: 27.10.82 ~~19.10.82~~
		By: J.M.-L.	Page:



- N, E are UTM-directions
  El. is UTM-elevation
  +ve directions as shown

- Offsets to TDEPTH position are

DN	(+ve)	=	DD2 (1)
DE	(+ve)	=	DD2 (2)
DEL	(-ve)	=	DD3 (3)

Lithologic code = LITH-CODE
+ 30-character supplemental description. (LITH-DESC)

* TDEPTH, ~~DN, DE, DL~~, RECOV are stored as "double integers" in the Data Base with one (1) implied decimal position.

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: Revised 27.10.82 ~~14.10.82~~
		By: J.M.-L	Page:

"DOWN-HOLE LITHOLOGICAL UNITS" DETAIL DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' LITHOLOGY Detail — CALL DH727

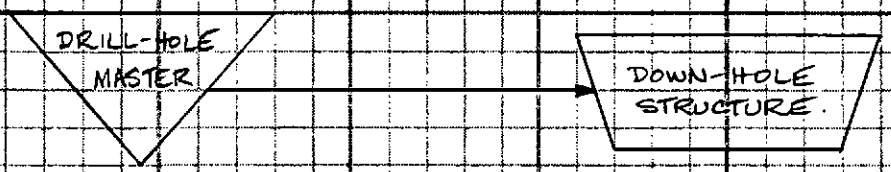
SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHID	X8	1- 4	DDHIDX	→	DDHIDL
IDEPTH	I2	5- 6	JDEPTH	JFLOAT(JDEPTH) * 0.1	TDEPTH
LITHUNIT	I	7	ICLITHX	→	ILITHU
LITH-CODE	X8	8- 11	CLITHX	→	CLITH
LITH-DESC	X30	12- 26	DLITHX	→	DLITH
RECOV	I2	27- 28	JRECOV	JFLOAT(JRECOV)*0.1	RECOV
IND-DD	I	29	INDDDX	→	INDDDL
DD2	3 R2	30 - 35	DD2X(i)	→	DD2L(i) } only if INDDDL > 0 otherwise set = 0.0

2. UPDATE LITHOLOGY Detail - CALL S/R DH729

COMMON	OPERATION	EQUIV.	PRBUFF(i)	SIZE	SCHEMA
DDHIDL	→	DDHIDX	1- 4	X8	DDHID
TDEPTH	Not Updated				
ILITHU	" "				
CLITH	" "				
DLITH	" "				
RECOV	" "				
INDDDL	→	INDDDX	5	I	IND-DD
DD2L(i)	→	DD2X(i)	6 - 11	3 R2	DD2

ICAS Software Services		Systems: DDHDB Routine: SCHEMA By: J.M.-L.	Project: PB2001 Revised Date: 26.10.82 Page:

"DOWN-HOLE STRUCTURE" DETAIL DATA SET



				units	stored as
DDHID(DDH-MASTER),		XB;			aaaaaaaa
STYPE,		I;			
FDEPTH,		I2;		metres	9999.9
TDEPTH,		I2;		metres	9999.9
FEATURE,		X4;			
SYMMETRY,		X2;			
S-ZERO,	2	I;		degrees	
S-ONE,	2	I;		"	
S-TWO,	2	I;		"	
SX-TYPE,		I;			
IND-DD,		I;			
DD1	3	R2;		metres	
DD2	3	R2;		metres	
IND-SS,		I;			
SX-SOL,	4	R2;		degrees	
SXM1-SOL,	8	R2;		"	
SXP1-SOL,	8	R2;		"	
S-ANGLE,	2	R2;		degrees	

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE STRUCTURE" DETAIL DATA SET (Continued)

FORTRAN ACCESS + LABELLED COMMON /DHSTRC/

```
      COMMON /DHSTRC/ DDHIDY,ISTYPE,FDPTHY,TDPTHY,FEATRE,SYMTRY,
     1                ISØ(2),IS1(2),IS3(3),ISXTYP,
     2                INDDDY,DD1Y(3),DD2Y(3),
     3                INDSSY,SXS(2,2),SXM1S(4,2),SXP1S(4,2),SANGLE(2)
      CHARACTER DDHIDY*8,FEATRE*4,SYMTRY*2
```

Variables	Type	Size	Description
DDHIDY	Character	8 bytes	DDH-Identifier
ISTYPE	Integer		Processing Indicator 0 = do not process (:$) 1 = processable (=S)
FDPTHY	Real		From depth of zone-measurement
TDPTHY	Real		To-depth of zone-measurement or At-depth of point-measurement
FEATRE	Character	4 bytes	Feature Code (only 1st 3 bytes used)
SYMTRY	Character	2 bytes	Symmetry Code (only 1st byte used)
ISØ	Integer	2	S_0 input 1 = core dip angle (degrees) 2 = core direction " "
IS1	Integer	2	S_1 input 1 = core dip angle (degrees) 2 = " direction " "
IS2	Integer	2	S_2 input 1 = core dip angle (degrees) 2 = " direction " "
ISXTYP	Integer		RFE code # -1 = undefined 0 = S_0 1 = S_1 2 = S_2 3+ = S_x (use RFE = S_2 pos'n)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE STRUCTURE" DETAIL DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /DHSTRC/ (Continued)

INDDDY	Integer		Indicator for down-hole displacement calculation - 0 = not done (default) 1 = done
DD1Y	Real	3	Down-hole displacement of from-depth position relative to collar location DD1Y (1) = ΔN DD1Y (2) = ΔE DD1Y (3) = ΔElevation
DD2Y	Real	3	Down-hole displacement of 'to-depth' or 'at-depth) position (ΔN, ΔE, Δ Elevation) (as for DD1Y)
INDSSY	Integer		Indicator for structure direction calculation - 0 = not done (default) 1 - done
SXS	Real	2,2	Alternate angles for RFE plane (i,j) - i = solution # (1,2) j = angle 1 = dip 2 = direction
SXM1S	Real	4,2	Alternate angles for S_{X-1} solutions (i,j) = i = 1,2 for RFE sol^{n} #1 (3,4 for #2) j = angle 1 - dip 2 - direction
SXP1S	Real	4,2	Alternate angles for S_{X+1} solutions (i,j) = i = 1,2 for RFE sol^{n} #1 (3,4 for #2) j = angle 1 - dip 2 = direction
SANGLE	Real	2	Inclination of DDH at 'AT-position 1 = zenith angle 2 = azimuth angle

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 26.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE STRUCTURE" DETAIL DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' STRUCTURE Detail — CALL S/R DH732

SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON	
DDHID	X8	1- 4	DDHIDX	→	DDHIDY	
STYPE	I	5	ISTYPX	→	ISTYPE	
FDEPTH	I2	6- 7	JFDPTH	JFLOAT(JFDPTH)*0.1	FDPTHY	
TDEPTH	I2	8- 9	JTDPTH	JFLOAT(JTDPTH)*0.1	TDPTHY	
FEATURE	V4	10- 11	FEATRX	→	FEATRE	
SYMMETRY	X2	12	SYMTRX	→	SYMTRY	
S-ZERO	2 I	13- 16	ISΦX(i)	→	ISΦ(i)	
S-ONE	2 I	17- 20	IS1X(i)	→	IS1(i)	
S-TWO	2 I	21- 24	IS2X(i)	→	IS2(i)	
SX-TYPE	I	25	ISTPXX	→	ISXTYP	
IND-DD	I	26	INDDX	→	INDDDY	
DD1	3 R2	27- 32	DD1X(i)	→	DD1Y(i)	only if INDDDY ≠ 0 otherwise set = 0.0
DD2	3 R2	33- 38	DD2X(i)	→	DD2Y(i)	
IND-SS	I	39	INDSX	→	INDSSY	
SX-SOL	4 R2	40- 47	SXSOL(i,j)	→	SXS(i,j)	only if INDSSY ≠ 0 otherwise set = 0.0
SXM1-SOL	8 R2	48- 63	SX1(i,j)	→	SXM1S(i,j)	
SXP1-SOL	8 R2	64- 79	SX2(i,j)	→	SXP1S(i,j)	
S-ANGLE	2 R2	80- 83	SXXX(i)	→	SANGLE(i)	

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 26.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE STRUCTURE" DETAIL DATA SET (Continued)

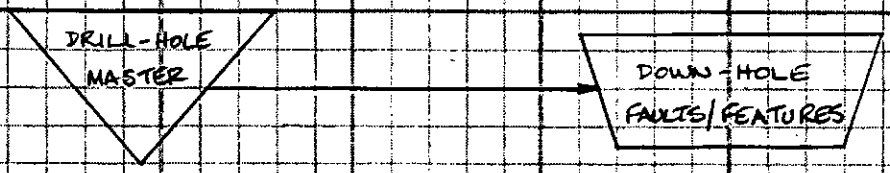
FORTRAN ACCESS (Continued)

2. UPDATE STRUCTURE Detail - CALL S/R DH734

COMMON	OPERATION	EQUIV.	PRBOFF(i)	SIZE	SCHEMA
DDHIDY	→	DDHIDY	1- 4	X8	DDHID
ISTYPE	Not Updated				
FDPTHY	" "				
TDPTHY	" "				
FEATRE	" "				
SYMTRY	" "				
ISϕ(i)	" "				
IS1(i)	" "				
IS2(i)	" "				
ISXTYP	" "				
INDDDY	→	INDDDX	5	I	IND-DD
DD1Y(i)	→	DD1X(i)	6- 11	3 R2	DD1
DD2Y(i)	→	DD2X(i)	12- 17	3 R2	DD2
INDSSY	→	INDSSX	18	I	IND-SS
SXS(i,j)	→	SXSOL(i,j)	19- 26	4 R2	SX-SOL
SXM1S(i,j)	→	Sx1(i,j)	27- 42	8 R2	SXM1-SOL
SXP1S(i,j)	→	SX2(i,j)	43- 58	8 R2	SXP1-SOL
SANGLE(i)	→	SXXX(i)	59- 62	2 R2	S-ANGLE

ICAS Software Services		Systems: DDHDB	Project: P82001
		Routine: SCHEMA	Date: 21.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE FAULTS/FEATURES" DETAIL DATA SET.




```
DDHID( DDH-MASTER),          XB;
FDEPTH,                      I2;
TDEPTH,                      I2;
FEATURE,                     X4;
FRECOV,                      X2;
PARALLEL,                    X2;
UPPER,                    2  I;
INTERNAL,                 2  I;
LOWER,                    2  I;
IND-DD,                      I;
DD1,                      3  R2;
DD2,                      3  R2;
```

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE FAULTS/FEATURES" DETAIL DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /DDHFLT/

```
      COMMON /DDHFLT/ DDHIDF, FDPTHF, TDPTHF, FEATRF, FRECOV, PARLLL,
     1                IUPPER(2), INTRNL(2), ILOWER(2),
     2                INDDF, DD1F(3), DD2F(3)
      CHARACTER DDHIDF*8, FEATRF*4, FRECOV*2, PARLLL*2
```

Variable	Type	Size	Description
DDHIDF	Character	8 bytes	DDH-Identifier
FDPTHF	Real		From depth of zone measurement
TDPTHF	Real		To-depth of zone measurement or At-depth of point measurement
FEATRF	Character	4 bytes	Feature Code (Only 1st 3 bytes used)
FRECOV	Character	2 bytes	Fault core recovery code (Only 1st byte used)
PARLLL	Character	2 bytes	Parallel Code (' ', 'S0', 'S1' or 'S2')
IUPPER	Integer	2	Upper plane core angles 1 = core dip; 2 = core direction
INTRNL	Integer	2	Internal plane core angles 1 = core dip; 2 = core direction
ILOWER	Integer	2	Lower plane core angles 1 = core dip; 2 = core direction
INDDDF	Integer		Indicator for down-hole displacement calculations - 0 = not done (default); 1 = done
DD1F	Real	3	Down-hole displacement of 'From-depth' (ΔN_1, ΔE_1, $\Delta Elev._1$)
DD2F	Real	3	Down-hole displacement of 'To-depth' (ΔN_2, ΔE_2, $\Delta Elev._2$)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 27.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE FAULTS/FEATURES" DETAIL DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' FAULTS Detail - CALL S/R DH737

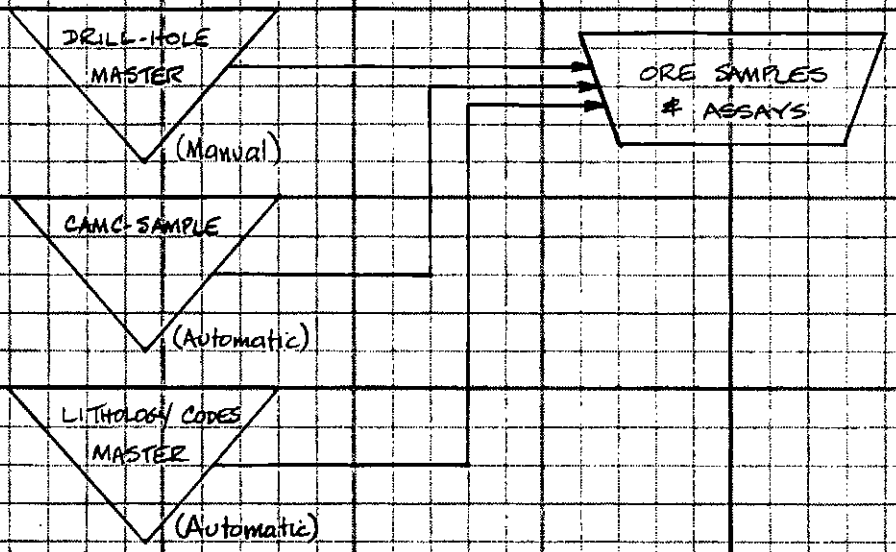
SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHID	X8	1- 4	DDHIDX	→	DDHIDF
FDEPTH	I2	5- 6	JFDPTH	JFLOAT(JFDPTH) * 0.1	FDPTHF
TDEPTH	I2	7- 8	JTDPTH	JFLOAT(JFDPTH) * 0.1	TDPTHF
FEATURE	X4	9- 10	FEATRX	→	FEATRF
FRECOV	X2	11	FRECVX	→	FRECOV
PARALLEL	X2	12	PARLLX	→	PARLLL
UPPER	2 I	13- 14	IUPPRX(i)	→	IUPPER(i)
INTERNAL	2 I	15- 16	INTRNX(i)	→	INTRNL(i)
LOWER	2 I	17- 18	ILOWRX(i)	→	ILOWER(i)
IND-DD	I	19	INDDX	→	INDDDF
DD1	3 R2	20- 25	DD1X(i)	→	DD1F(i) } only if INDDDF ≠ 0 otherwise set = 0.0
DD2	3 R2	26- 31	DD2X(i)	→	DD2F(i) }

2. UPDATE FAULTS Detail - CALL S/R DH739

COMMON	OPERATION	EQUIV.	PRBUFF(i)	SIZE	SCHEMA
DDHIDF	→	DDHIDX	1- 4	X8	DDHID
FDPTHF	Not Updated				
TDPTHF	" "				
FEATRF	" "				
FRECOV	" "				
PARLLL	" "				
IUPPER(i)	" "				
INTRNL(i)	" "				
ILOWER(i)	" "				
INDDDF	→	INDDDX	5	I	IND-DD
DD1F(i)	→	DD1X(i)	6- 11	3 R2	DD1
DD2F(i)	→	DD2X(i)	12- 17	3 R2	DD2

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Revised 27.10.82 Date: ~~19.10.82~~
		By: J.M.-L.	Page:

"ORE SAMPLES & ASSAYS" DETAIL DATA SET



			UNITS	STORED AS
DDH ID (DDH-MASTER),		XB;		aaaaaaaa
ISAMPLE (!SAMPLE-MASTER)		I2;		
ROCK-CODE (ROCK-MASTER)		XB;		aaaaa△△△
ASSAY-LAB,		X10;		
CERTIFICATE,		XB;		
CERTNO,		I;		
FDEPTH,		I2;	metres	9999.9
TDEPTH,		I2;	metres	9999.9
RECOV,		I2;	metres	99.9
ASSAYS,	20	I2;	%, g/T, etc	99.99.999
IND-DD,		I;		
DD1,	3	R2;	metres	1.
DD2,	3	R2;	metres	.
UTM-C,	3	R4;	metres	

ICAS Software Services		Systems: DDHDB	Project: FB2001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.-L.	Page:

"ORE SAMPLES & ASSAYS" DETAIL DATA SET (Continued)

Definition of Assay Values Stored

		Assay	Units	Min.	Max.
ASSAYS(1)	= S.G.	(Specific Gravity)	—	[2.0]	[5.0]
(2)	= Cu	(Copper)	%	0.0	[10.0]
(3)	= Pb	(Lead)	%	0.0	[10.0]
(4)	= Zn	(Zinc)	%	0.0	[10.0]
(5)	= Ag(AA)	(Silver - Atomic Absorption)	g/T	0.0	[1000.0]
(6)	= Ag(FA)	(Silver - Fire Assay)	g/T	0.0	[1000.0]
(7)	= Au(FA)	(Gold - Fire Assay)	g/T	0.0	[500.0]
(8)	= Po	(Pyrrhotite)	%	0.0	[20.0]
(9)	= Py	(Pyrite)	%	0.0	[20.0]
(10)	= BaO	(Barium Oxide)	%	0.0	[30.0]
(11)	= Hg	(Mercury)	%	0.0	[5.0]
(12)	= Mn	(Manganese)	%	0.0	[5.0]
(13)	= As	(Arsenic	%	0.0	[5.0]
(14)					
(15)					
(16)					
(17)					
(18)					
(19)					
(20)	= WRSG	(Whole Rock Specific Gravity)	—	[2.0]	[5.0]

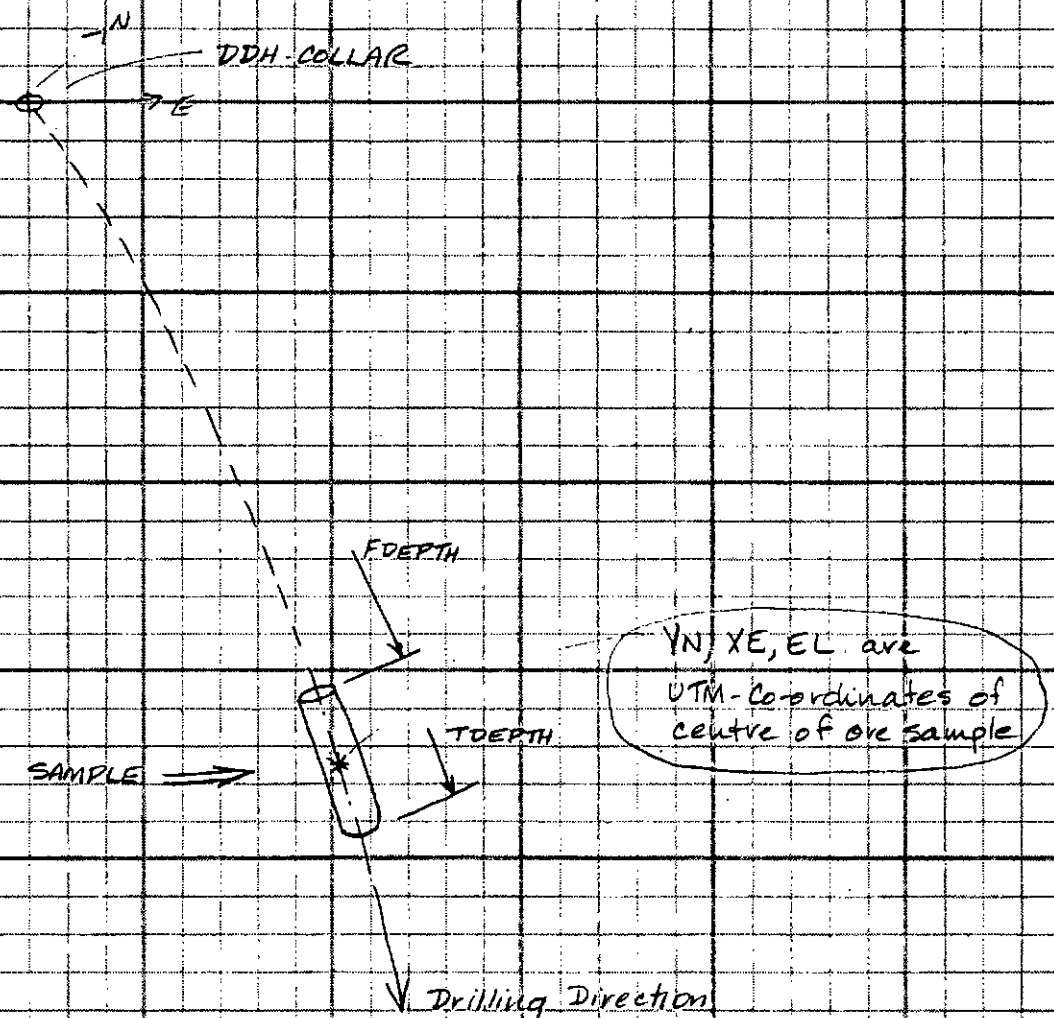
} not currently used.

Notes

- Non-assayed components are to be set to (value) = -0.5
- [n.n] - means normal limit - ask data entry person to check value (it does not mean an absolute limit)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.-L.	Page:

"ORE SAMPLES + ASSAYS" DETAIL DATA SET.



ICAS Software Services		Systems: IDHDB	Project: PS2001
		Routine: ICHEMA	Revised 27.10.82 Date: ~~19.10.82~~
		By: J.M.-L.	Page:

"ORE SAMPLES & ASSAYS" DETAIL DATA SET (Continued)

FORTRAN ACCESS - LABELLED COMMON /DDHSAM/

```
      COMMON /DDHSAM/ DDHIDN,JSAMPL,LITHCD,ASLAB,ASCERT,NASC,
     1                FDPTHA,TDPTHA,RECOV,ASSAYS(20),INDDS,DD1S(3),DD2S(3),
      CHARACTER DDHIDN*8,ASLAB*10,ASCERT*8,LITHCD*8                    UTMS(3)
      INTEGER*4 ISAMPL
      DOUBLE PRECISION UTMS
```

Variables	Type	Size	Description
DDHIDN	Character	8 bytes	DDH - Identifier
JSAMPL	Integer*4		CAMC - Sample No.
LITHCD	Character	8 bytes	Rock (Lithology) Type Code
ASLAB	Character	10 bytes	Assay Lab Name
ASCERT	Character	8 bytes	Assay Lab Certificate Code
NASC	Integer		Assay # on Certificate
FDPTHA	Real		From-depth of sample (metres)
TDPTHA	Real		To-depth of sample (metres)
RECOV	Real		Core-recovery of sample (metres)
ASSAYS	Real	20	Sample assay values
INDDDS	Integer		Indicator for down-hole displacement calc. 0 = not done (initial condition) 1 = done
DD1S	Real	3	Down-hole displacements of from-depth (ΔN_1, ΔE_1, $\Delta Elev._1$)
DD2S	Real	3	Down-hole displacements of to-depth (ΔN_2, ΔE_2, $\Delta Elev._2$)
UTMS	Double Precision	3	UTM-co-ordinates of sample mid-point (N_{UTM}, E_{UTM}, $Elev._{UTM}$)

ICAS Software Services		Systems: DDHDB	Project: P82001
		Routine: SCHEMA	Revised 27.10.82 Date: ~~19.10.82~~
		By: J.M.-L.	Page:

"ORE SAMPLES & ASSAYS" DETAIL DATA SET (Continued)

FORTRAN ACCESS

1. GET 'Next' SAMPLE Detail — CALL DH742

SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHID	X8	1- 4	DDHIDX	→	DDHIDN
ISAMPLE	I2	5- 6	JSMPLX	→	JSAMPL
LITHCODE	X8	7- 10	LITHCX	→	LITHCD
ASSAY-LAB	X10	11- 16	ASLABX	→	ASLAB
CERTIFICATE	X8	17- 20	ASCERX	→	ASCERT
CERTNO	I	21	IASC	→	NASC
FDEPTH	I2	22- 23	JFDPTH	JFLOAT(JFDPTH) * 0.1	FDPTHA
TDEPTH	I2	24- 25	JTDPTH	JFLOAT(JTDPTH) * 0.1	TDPTHA
RECOV	I2	26- 27	JRECOV	JFLOAT(JRECOV) * 0.1	RECOV
ASSAYS	20 I2	28- 67	JASSAY(i)	JFLOAT(JASSAY(i) * 0.001	ASSAYS
IND-DD	I	68	INDDDX	→	INDDDS
DD1	3 R2	69- 74	DD1X(i)	→	DD1S(i)
DD2	3 R2	75- 80	DD2X(i)	→	DD2S(i)
UTM-C	3 R4	81- 92	DUTMC(i)	→	UTMS(i)

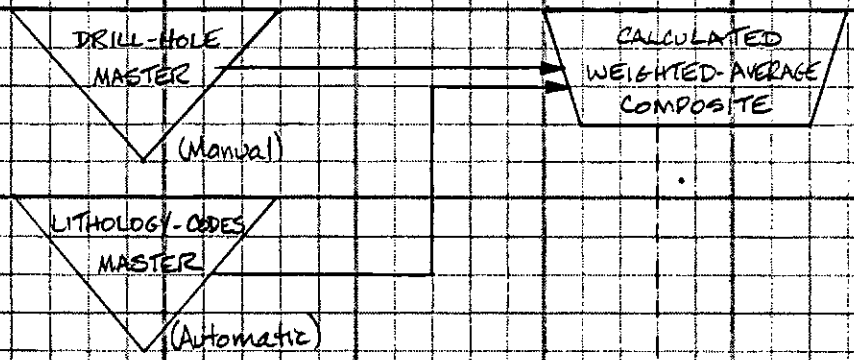
} only if INDDDS 70 otherwise set = 0.0

2. UPDATE SAMPLE DETAIL — CALL DH744

COMMON	OPERATION	EQUIV	PRBUFF(i)	SIZE	COMMON
DDHIDN	→	DDHIDX	1- 4	X8	DDHID
JSAMPL	Not Updated				
LITHCD	" "				
ASLAB	" "				
ASCERT	" "				
NASC	" "				
FDPTHA	" "				
TDPTHA	" "				
RECOV	" "				
ASSAYS	" "				
INDDDS	→	INDDDX	5	I	IND-DD
DD1S(i)	→	DD1X(i)	6- 11	3 R2	DD1
DD2S(i)	→	DD2X(i)	12- 23	3 R2	DD2
UTMS(i)	→	DUTMX(i)	24- 35	3 R4	UTM-C

ICAS Software Services		Systems: DDHDB	Project: PS2001
		Routine: SCHEMA	Revised Date: 29-10-82 ~~19-10-82~~
		By: J.M.-L.	Page:

"CALCULATED WEIGHTED-AVERAGE COMPOSITES" DETAIL DATA SET



DDHID (DDH-MASTER),	X8;		aaaaaaaΔ
FDEPTH,	I2;	metres	9999.9
TDEPTH,	I2;	metres	9999.9
INTERVAL,	I2;	metres	99.9
AVERAGES, 20	I2;	%, g/T etc	99.99.999
ROCK-TYPE (ROCK-MASTER),	X8;		aaaaaΔaa
CUT-OFF-GRADE,	I2;	%	99.9
DATE,	X8;		ddMMMYYΔ
TIME,	X8;		hh:mm:ss

INTERVAL = TO − FROM

AVERAGES (1) = weighted average assay (S.G.) values (weighted by length)
↓ corresponding to ASSAYS (1) through (20)
AVERAGES (20)

ROCK-TYPE = predominant rock-type in interval (assessed/interpreted by Geologist).

CUT-OFF-GRADE = cut-off-grade of Pb+Zn used in creating composite.

DATE, TIME } Date and time of composite calculation.

ICAS Software Services		Systems: DDHDB	Project: P82001
		Routine: SCHEMA	Date: Revised 27.10.82 ~~19.10.82~~
		By: J.M.-L.	Page:

"CALCULATED WEIGHTED-AVERAGE COMPOSITES" DETAIL DATA SET (Continued)

FORTRAN ACCESS – LABELLED COMMON /DHCOMP/

```
COMMON /DHCOMP/ DDHIDC, FDPTHC, TDPTHC, COMPL, AVRGES(20), CROCK,
1               CGRADE, DATEC, TIMEC
CHARACTER*8     DDHIDC, CROCK, DATEC, TIMEC
```

Variables	Type	Size	Description
DDHIDC	Character	8 bytes	DDH - Identifier
FDPTHC	Real		From-depth for composite
TDPTHC	Real		To-depth for composite.
COMPL	Real		Composite length or interval
AVRGES	Real	20	Average grades calc. for composite
CROCK	Character	8 bytes	Geologist specified composite rock code
CGRADE	Real		Cut-off-grade for Pb+Zn used in creation of composite.
DATEC	Character	8 bytes	Date of composite calculation
TIMEC	Character	8 bytes	Time of composite calculation

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SCHEMA	Revised Date: 27.10.82 ~~14.10.82~~
		By: J.M.-L.	Page:

"CALCULATED WEIGHTED-AVERAGE COMPOSITES" DETAIL DATA SET (Continued)

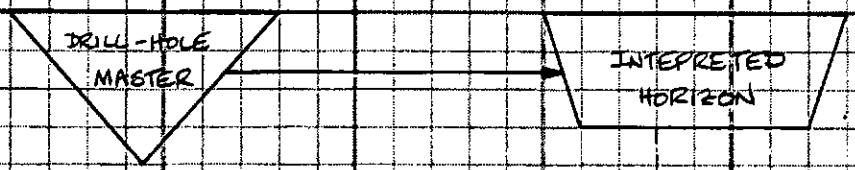
FORTRAN ACCESS

GET "Next" COMPOSITE - Call S/R DH747

SCHEMA	SIZE	PRBUFF(i)	EQUIV.	OPERATION	COMMON
DDHID	X8	1- 4	DDHIDX	→	DDHIDC
FDEPTH	I2	5- 6	JFDPTH	JFLOAT(JFDPTH) * 0.1	FDPTHC
TDEPTH	I2	7- 8	JTDPTH	JFLOAT(JFDPTH) * 0.1	TDPTHC
INTERVAL	I2	9- 10	JCOMPL	JFLOAT(JCOMPL) * 0.1	COMPL
AVERAGES(i)	20 I2	11- 30	JAVGX(i)	JFLOAT(JAVGX(i)) * 0.001	AVRGES(i)
ROCK-TYPE	X8	31- 34	ROCKX	→	CROCK
CUT-OFF-GRADE	I2	35- 36	JCOG	JFLOAT(JCOG) * 0.1	CGRADE
DATE	X8	37- 40	DATEX	→	DATEC
TIME	X8	41- 44	TIMEX	→	TIMEC

ICAS Software Services		Systems: DDHIS	Project: PS1001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.-L.	Page:

"INTERPRETED HORIZON" DETAIL DATA SET



DDHID (DDH-MASTER),	X8;		aaaaaaa
FDEPTH,	I2;	metres	9999.9
TDEPTH,	I2;	metres	9999.9
HORIZON,	I;		99
F-WALL,	X2;		"aa" or "Ha" or "Fa"
T-WALL,	X2;		"aa" or "Ha" or "Fa"

interpretation

HORIZON - unique horizon # assigned by Geologist

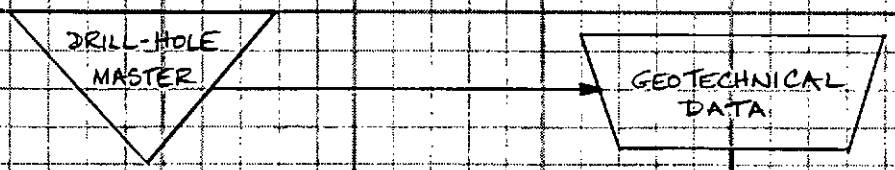
F-WALL - Horizon wall at from-depth
H = Hanging Wall
F = Foot Wall

T-WALL - Horizon wall at to-depth
H = Hanging Wall
F = Foot Wall

Horizons need not be contiguous but must not overlap!

ICAS Software Services		Systems: DDHDB	Project: PS2001
		Routine: SCHEMA	Date: 19.10.82
		By: J.M.-L.	Page:

"DOWN-HOLE GEOTECHNICAL DATA" DETAIL DATA SET



		UNITS	STORED AS
DDHID (DDH-MASTER),	XB;		aaaaaaaa
FDEPTH,	I2;	metres	9999.9
TDEPTH,	I2;	"	9999.9
RECOVP100,	I2;	metres	99.9
NOFRACT,	I;		999
FRACT-FREQ,	I2;	fractures/metre	99.99
RQD,	I;		999
RECOV,	I2;	metres	99.9

RECOV = total length of core recovered in interval

RECOVP100 = total length of core pieces > 100 mm. recovered

NOFRACT = no of fractures in interval

FRACTFREQ = calculated fracture frequency = NOFRACT / (TDEPTH - FDEPTH)

RQD = Rock Quality Designator (cf. Deere - Univ. of Illinois)

= 100 * RECOVP100 / (TDEPTH - FDEPTH)

ICAS Software Services

DDHDB ACCESS

FORTRAN SUBROUTINE

LIBRARY

Systems: DDHDB

Routine: S/R LIBRARY

By: J.M.-L

Project: PB2001

Date: 26.10.81

Page:

	MASTER DATA SETS						DETAIL DATA SETS				
	GET SPECIFIC	GET NEXT	GET ALL	PUT	UPDATE	DELETE	FIND CHAIN	GET NEXT	PUT	UPDATE	DELETE
PROPERTY		DH701		DH702	DH703						
SECTIONS	DH704	DH705	DH706	DH707	DH708	DH709					
DDH-MASTER	DH710	DH711	DH712	DH713	DH714	DH715	DH716	DH717	DH718	DH719	DH720
- SURVEYS							DH721	DH722	DH723	DH724	DH725
- SPLINES							DH726	DH727	DH728	DH729	DH730
- LITHOLOGY							DH731	DH732	DH733	DH734	DH735
- STRUCTURE							DH736	DH737	DH738	DH739	DH740
- FAULTS							DH741	DH742	DH743	DH744	DH745
- SAMPLES							DH746	DH747	DH748	DH749	DH750
- COMPOSITES							DH751	DH752	DH753	DH754	DH755
- HORIZONS							DH756	DH757	DH758	DH759	DH760
- GEOTECHNICS											
SAMPLE-MASTER	DH760	DH761	DH762	DH763	DH764	DH765	DH766	DH742	DH743	DH744	DH745
- SAMPLES											
ROCK-CODES	DH767	DH768	DH769	DH770	DH771	DH772	DH773	DH742	DH743	DH744	DH745
- SAMPLES							DH774	DH747	DH748	DH749	DH750
- COMPOSITES											

ICAS Software Services	DDHDB ACCESS FORTRAN SUBROUTINE LIBRARY	Systems: DDHDB Routine: S/R LIBRARY By: J.M.-L.	Project: PB2001 Date: 26.10.82 Page:

S/R	PURPOSE
DH7000	OPEN 'DDHDB' FOR 'PROPERTY'
DH7001	GET (Next) PROPERTY MASTER
DH7002	PUT PROPERTY MASTER
DH7003	UPDATE PROPERTY MASTER
DH7004	GET 'Specific' SECTION MASTER
DH7005	GET 'Next' SECTION MASTER
DH7006	GET 'All' SECTION MASTERS
DH7007	PUT SECTION MASTER
DH7008	UPDATE SECTION MASTER
DH7009	DELETE SECTION MASTER
DH7010	GET 'Specific' DDH-MASTER
DH7011	GET 'Next' DDH-MASTER
DH7012	GET 'All' DDH-MASTERS
DH7014	UPDATE DDH-MASTER
DH7016	FIND 'DDH-MASTER' Chain through SURVEYS
DH7017	GET 'Next' SURVEY Detail
DH7021	FIND 'DDH-MASTER' Chain through SPLINES
DH7022	GET 'Next' SPLINES Detail
DH7023	PUT SPLINES Detail
DH7025	DELETE SPLINES Detail
DH7026	FIND 'DDH-MASTER' Chain through LITHOLOGIES
DH7027	GET 'Next' LITHOLOGY Detail
DH7029	UPDATE LITHOLOGY Detail
DH7031	FIND 'DDH-MASTER' Chain through STRUCTURE
DH7032	GET 'Next' STRUCTURE Detail
DH7034	UPDATE STRUCTURE Detail
DH7036	FIND 'DDH-MASTER' Chain through FAULTS
DH7037	GET 'Next' FAULT Detail
DH7039	UPDATE FAULT Detail

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: S/R LIBRARY	Date: 28.10.82
		By: J.M.-L.	Page:

S/R	PURPOSE
DH7411	FIND 'DDH-MASTER' Chain through SAMPLES
DH7422	GET 'Next' SAMPLE Detail
DH7444	UPDATE SAMPLE Detail
DH7477	GET 'Next' COMPOSITE Detail
DH7666	FIND 'SAMPLE-MASTER' Chain through SAMPLES
DH7733	FIND 'ROCK-MASTER' Chain through SAMPLES
DH7744	FIND 'ROCK-MASTER' Chain through COMPOSITES.

ICAS Software Services

Systems: DDHDB

Routine: S/R LIBRARY

By: J.M.-L.

Project: PB2001

Date: 28.10.82

Page:

S/R	PURPOSE
DH789	'CLOSE' DDHDB FOR 'PROPERTY'

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine:	Date: 21.10.82
		By: JM.-L.	Page: 1 of 4

CO-ORDINATE SYSTEMS

All properties will use the UTM co-ordinate system as the primary definition for the location of major geological, mining, engineering and surveying features and/or facilities.

Location data entered into the Diamond Drill Hole Data Base for a property will consist of the full UTM co-ordinates calculated from high-order observations. Currently, only DDH-COLLAR co-ordinates fit into this category of data, and calculation of UTM-coordinates for DDH-COLLARS is standard CAMC practice at all its properties.

Three secondary co-ordinate systems may be used for various purposes. These secondary co-ordinate systems are local planar grids of limited extent (to minimize distortion from the UTM- curvilinear surface) which are fitted to (or usually above) the UTM-surface to provide convenient location references for geological, mine modelling and mine operations purposes. The three secondary co-ordinate systems are -

(1) The Geological Co-ordinate System - a local planar grid usually defined by Exploration Geologists to fit perceived strike and dip directions of the orebody being explored. Usually cross- and long-sections will be constructed parallel to the axes of this co-ordinate system.

(2) The Mine Modelling (Co-ordinate) System - another local planar grid set up for definition of the mine model. This system is required as the MINTEC MEDSYSTEM block model developed for the orebody must have its rows and columns oriented parallel to the principal axes of this co-ordinate system.

(3) The Mine Surveying and Operations Co-ordinate System - the (planar) grid set up for co-ordination of all mining operations. Ideally, this should be a local direct abstraction of the UTM grid. The Mine North Direction should coincide with UTM-North for a number of reasons, some of which are
   - mine operations people understand 'True North' and concciously orient themselves to this direction regardless of various presumed 'Grid-North' definitions presented to them. Serious confusion has and does exist at mines where the mining-North direction is significantly skewed from True North
   - dropping of the millions and hundred thousand values from the UTM co-ordinates often presents a very usable scale for mine operations. Standard government maps can often be used

CO-ORDINATE SYSTEMS (Continued)

directly as underlays or overlays of topographical and geographical information.

The above secondary coordinate systems are linearized from the UTM primary co-ordinate systems. Transformations between these systems will be a feature of the DDHDB System.

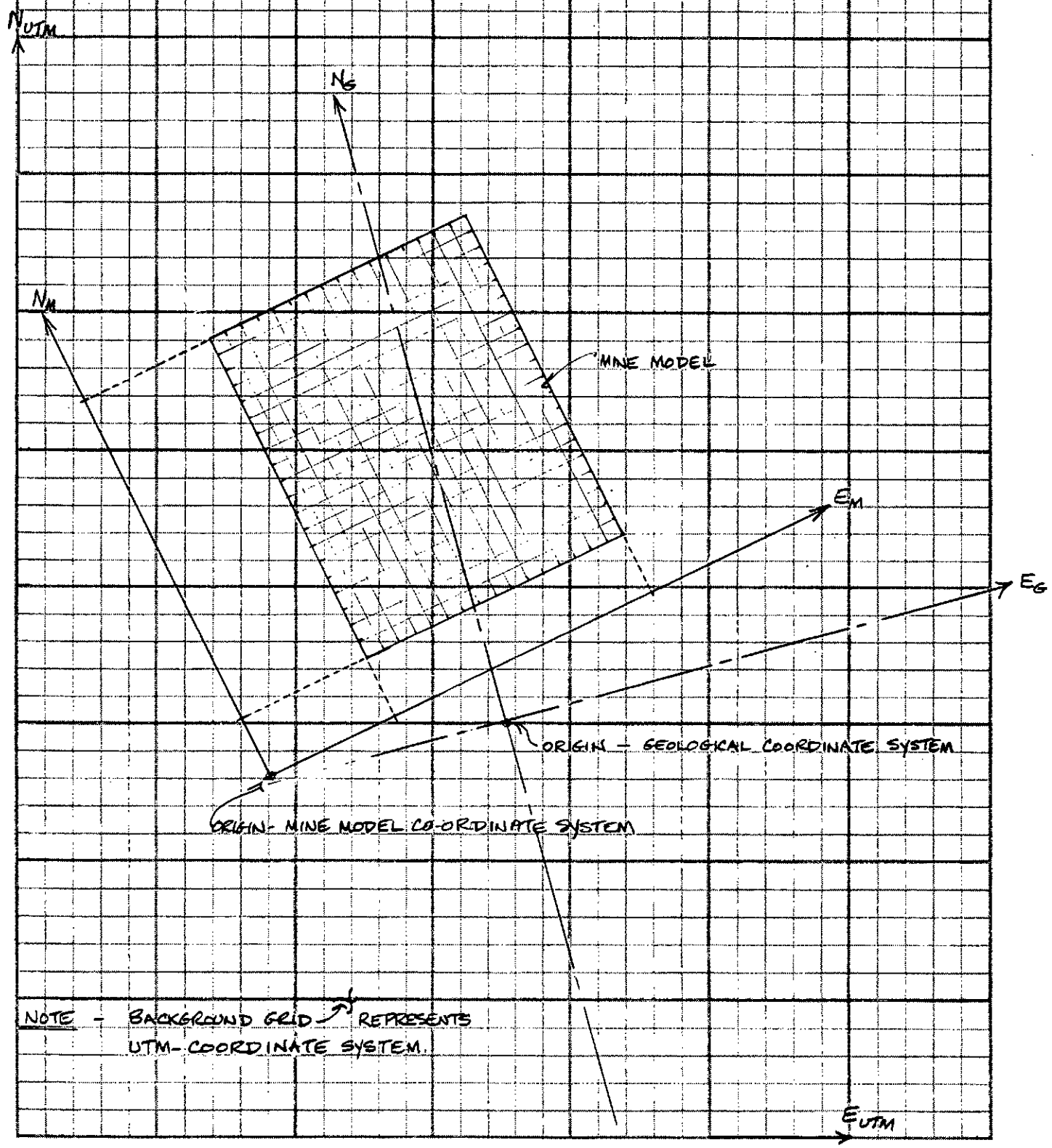
The above co-ordinate systems are illustrated on the sketch on the following page.

Data Required for Definition of Coordinate Systems (within DDHDB)

1. Primary Co-ordinates - UTM
   - UTM zone (8 for Anvil District)
   - offset angle (UTM-North from True North for property) (used for correcting down-hole survey azimuths.)

2. Secondary Coordinate Systems
   - origin of secondary grid in UTM-Co-ordinates
   - horizontal scale-factor
   - vertical scale-factor
   - vertical offset
   - inclination (offset angle) (Grid-North from UTM-North)

CO-ORDINATE SYSTEMS (Continued)



NOTE - BACKGROUND GRID → REPRESENTS UTM-COORDINATE SYSTEM.

CO-ORDINATE SYSTEMS (Continued)

Equations for Transformation of Co-ordinates.

1. UTM → Secondary Grid.

$$N_S = ((N_{UTM} - N_0) \cdot \cos\alpha - (E_{UTM} - E_0) \cdot \sin\alpha) / S_H$$

$$E_S = ((N_{UTM} - N_0) \cdot \sin\alpha + (E_{UTM} - E_0) \cdot \cos\alpha) / S_H$$

$$Z_S = (Z_{UTM} - Z_0) / S_V$$

2. Secondary Grid → UTM

$$N_{UTM} = N_0 + S_H \cdot (N_S \cos\alpha + E_S \cdot \sin\alpha)$$

$$E_{UTM} = E_0 + S_H \cdot (-N_S \cdot \sin\alpha + E_S \cdot \cos\alpha)$$

$$Z_{UTM} = Z_0 + S_V \cdot Z_S$$

where $N_{UTM}, E_{UTM}, Z_{UTM}$ are UTM Northing, Easting and Elevation

N_0, E_0, Z_0 are (UTM-coordinates) of Secondary Grid Origin

N_S, E_S, Z_S are Secondary Grid Coordinates

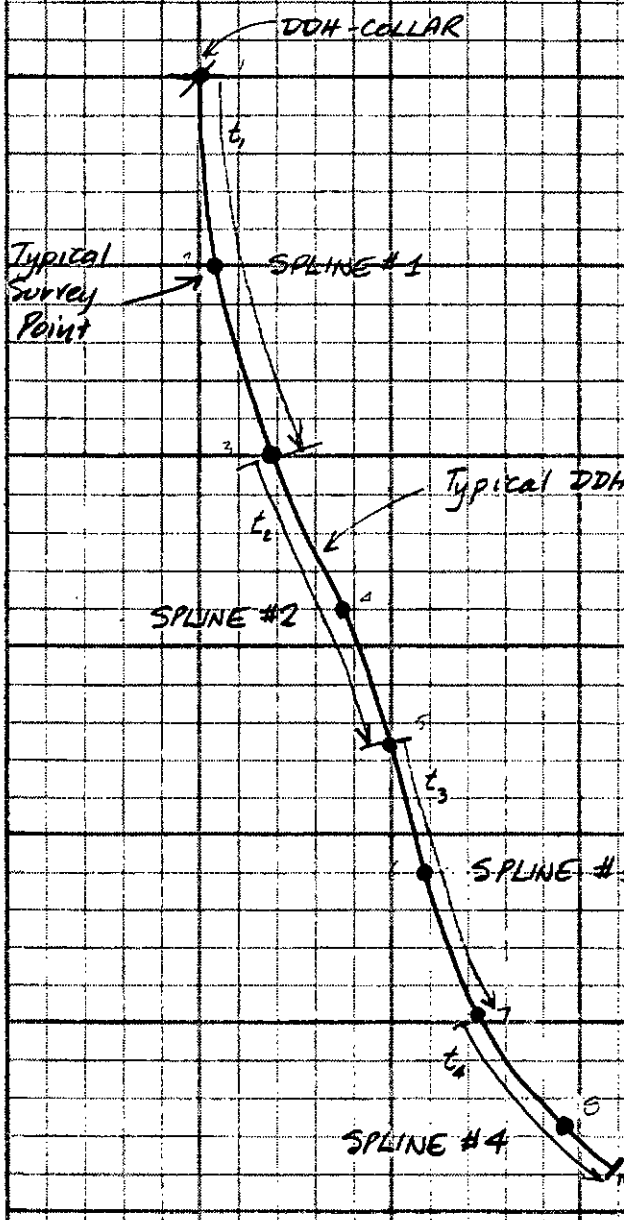
α = clockwise offset angle (secondary grid North to UTM-North)

S_H = horizontal scale factor
UTM-distance = S_H · grid-distance

S_V = vertical scale factor

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SPLINES	Date: 28.10.82
		By: J.M.-L.	Page: 1 of 5

CALCULATION OF DOWN-HOLE SPLINES

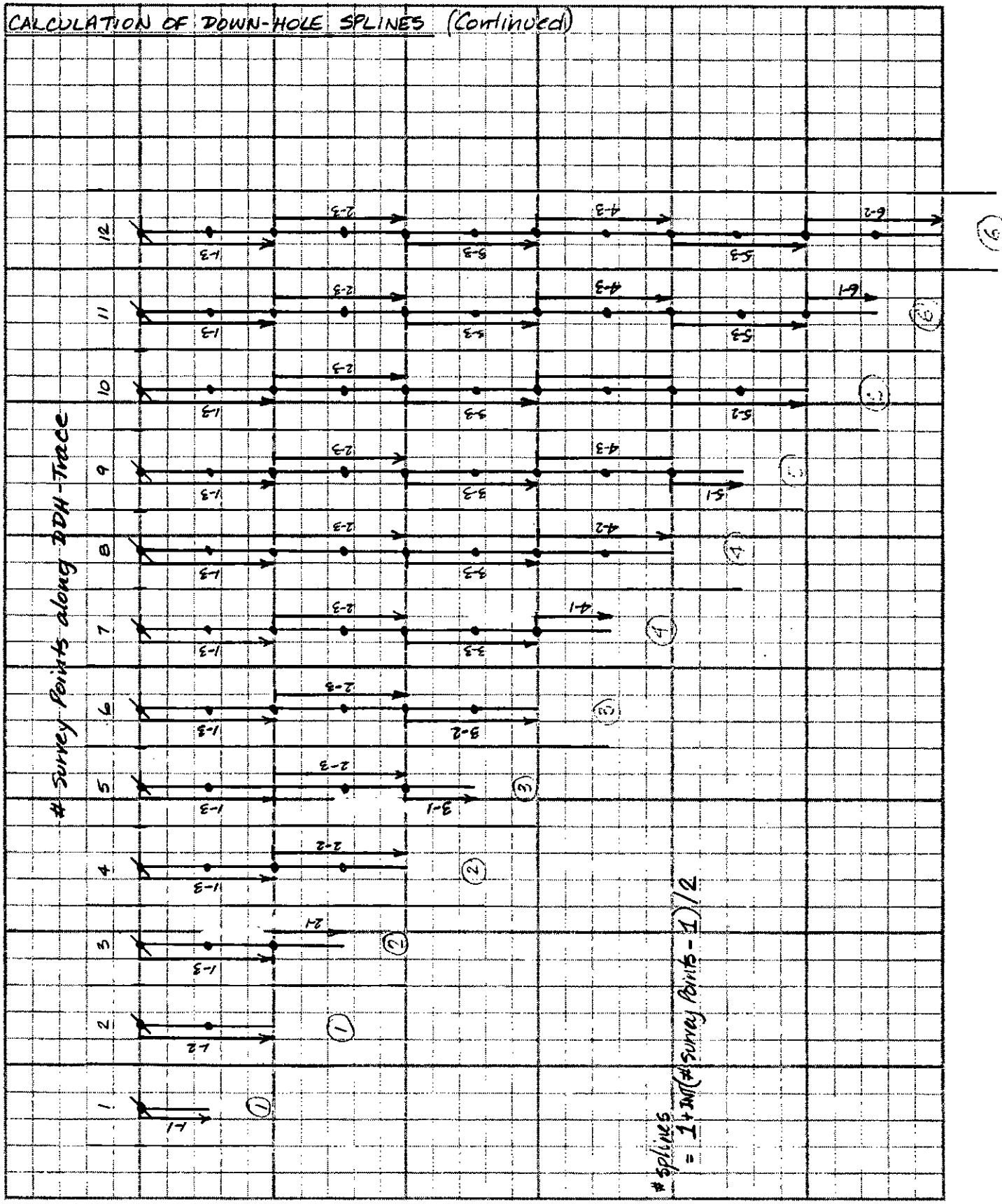


Form of individual parametric splines.

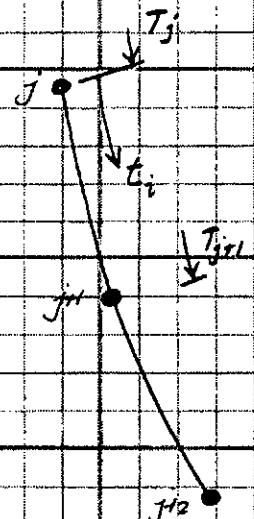
$$\Delta E = A + t(B + t(C + t \cdot D))$$
$$\Delta N = E + t(F + t(G + t \cdot H))$$
$$\Delta El. = P + t(Q + t(R + t \cdot S))$$

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: SPLINES	Date: 28.10.82
		By: J.M.L.	Page: 2 of 5

CALCULATION OF DOWN-HOLE SPLINES (Continued)



CALCULATION OF DOWN-HOLE SPLINES (Continued)



t_i = local arc length for spline i

$j = (i-1)/2$ (j^{th} survey point)

for each survey point j calculate

$L_j = -\sin(\text{ZENITH}_j) * \sin(\text{AZIMUTH}_j - TN)$

$M_j = -\sin(\text{ZENITH}_j) * \cos(\text{AZIMUTH}_j - TN)$

$N_j = \cos(\text{ZENITH}_j)$

where ZENITH_j, AZIMUTH_j } are surveyed angles at point j

and TN is the angular difference (measured clockwise from true-North to UTM-North)

$$\Delta E_i = A_i + t_i(B_i + t_i(C_i + t_i \cdot D_i))$$
$$\Delta N_i = E_i + t_i(F_i + t_i(G_i + t_i \cdot H_i))$$
$$\Delta El_i = P_i + t_i(Q_i + t_i(R_i + t_i \cdot S_i))$$

} for $0.0 \le t_i - T_j \le T_{j+2} - T_j$ (where T is down-hole depth)

now $A_i = \Delta E_j$
$E_i = \Delta N_j$
$P_i = \Delta El_j$

} so for $i = 1$ $A_i = E_i = P_i = 0.0$ (i.e. displacements at the collar are zero)

In general, $t_{i1} = 0.0$

$t_{i2} = T_{j+1} - T_j$

$t_{i3} = T_{j+1} - T_j$

Note - if surveys at points $j+2$ or $j+2$ and $j+1$ are not available this is a special case (see a following page)

CALCULATION OF DOWN-HOLE SPLINES (Continued)

Coefficients B_i, C_i, D_i; F_i, G_i, H_i, and Q_i, R_i, S_i are calculated as shown below

$$B_i = L_j$$

$$C_i = d_{21} \cdot L_j + d_{22} \cdot L_{j+1} + d_{23} \cdot L_{j+2}$$

$$D_i = d_{31} \cdot L_j + d_{32} \cdot L_{j+1} + d_{33} \cdot L_{j+2}$$

$$F_i = M_j$$

$$G_i = d_{21} \cdot M_j + d_{22} \cdot M_{j+1} + d_{23} \cdot M_{j+2}$$

$$H_i = d_{31} \cdot M_j + d_{32} \cdot M_{j+1} + d_{33} \cdot M_{j+2}$$

$$Q_i = N_j$$

$$R_i = d_{21} \cdot N_j + d_{22} \cdot N_{j+1} + d_{23} \cdot N_{j+2}$$

$$S_i = d_{31} \cdot N_j + d_{32} \cdot N_{j+1} + d_{23} \cdot N_{j+2}$$

where

$$d_{21} = (b_2 - b_3) / (a_2 b_3 - a_3 b_2)$$

$$d_{22} = b_3 / (a_2 b_3 - a_3 b_2)$$

$$d_{23} = -b_2 / (a_2 b_3 - a_3 b_2)$$

$$d_{31} = (a_3 - a_2) / (a_2 b_3 - a_3 b_2)$$

$$d_{32} = -a_3 / (a_2 b_3 - a_3 b_2)$$

$$d_{33} = a_2 / (a_2 b_3 - a_3 b_2)$$

and

$$a_2 = 2 t_{i2} \qquad b_2 = 3 t_{i2}^2$$

$$a_3 = 2 t_{i3} \qquad b_3 = 3 t_{i3}^2$$

CALCULATION OF DOWN-HOLE SPLINES (Continued)

Special Cases

(A) if survey point j+2 not available (i.e only 2 points on spline)

then $0.0 \leq t_i - T_j \leq T_{EOH} - T_j$

$D_i = H_i = S_i = 0.0$

and $B_i = L_j$

$C_i = f_{21} \cdot L_j + f_{22} \cdot L_{j+1}$

$F_i = M_j$

$G_i = f_{21} \cdot M_j + f_{22} \cdot M_{j+1}$

$Q_i = N_j$

$R_i = f_{21} \cdot N_j + f_{22} \cdot N_{j+1}$

where $f_{21} = 2t_{i2} \qquad f_{22} = -2t_{i2}$

(B) if survey points j+1 and j+2 not available (i.e only 1 point on spline)

then $0.0 \leq t_i - T_j \leq T_{EOH} - T_j$

$C_i = D_i = G_i = H_i = R_i = S_i = 0$

and $B_i = L_j$

$F_i = M_j$

$Q_i = N_j$

ICAS Software Services

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (BY)
DH000	DDHDB Data Base Status Report (Display)	Modify EX000	COBOL (ISS)
DH001	SELECT Data Base for a 'PROPERTY'	Modify EX007	COBOL (ISS)
DH002	General DDH-Logging Data Input	NEW Mainline + Modify EX004 + Modify EX005 + Modify EX006 + Modify EX009	COBOL (ISS)
DH003	(ADD or) UPDATE Property Data	New	FORTRAN (ICAS/CAMC)
DH004	ADD or DELETE or UPDATE Section Data	New	FORTRAN (ICAS/CAMC)
DH005	UPDATE (Correction) of DDH-Master	Modify EX005	COBOL (ISS)
DH006	Correction of Down-Hole Survey Data	Modify EX006	COBOL (ISS)
DH007	Correction of Lithology Data	Modify EX009	COBOL (ISS)
DH008	Correction of Structure Data	New	COBOL (ISS)
DH009	Correction of Fault/Features Data	New	COBOL (ISS)
DH010	Correction of Sample/Assays Data	Modify EX008	COBOL (ISS)
DH011	Reserved (Corr. of Geotechnical Data)		
DH012	Reserved (Input/Corr. Horizon Data)		

Systems: DDHDB
Routine: System Programs
By: J.M.-L.
Project: PB2001
Date: 26-10-82
Page: 1 of

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: System Programs	Date: 26.10.82
		By: J.M.-L.	Page: 2 of 9

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS		LANGUAGE (By)
DH013	ASSAY Data Posting	Modify	EX001	COBOL (ISS)
DH014	ASSAY REPORT by SAMPLE No.	Modify	EX010	COBOL (ISS)
DH015	ASSAY REPORT by DRILL-HOLE	Modify	EX011	COBOL (ISS)
DH016	Weighted Average DDH Report	Modify	EX013	COBOL (ISS)
DH017	Weighted Average / Interval DDH Report	Modify	EX014	COBOL (ISS)
DH018	Calculate COMPOSITES	Modify	EX014	COBOL (ISS)
DH019	Not assigned			
DH020	General Input DDH-Data Report	Enhance + Modify	EX019	COBOL (ISS)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: System Programs	Date: 26.10.82
		By: J.M.-L.	Page: 3 of 9

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH030	Calculate Collar & Down-Hole Coordinates	Modify CSC DH010 Extensively	FORTRAN (Tetrad) + ICAS
DH031	Calculate Structure Data Solutions	Modify CSC 'DH700' series routines	FORTRAN (Tetrad) + ICAS
DH038	General Individual DDH Data Report	New	FORTRAN (Tetrad)
DH039	DDH-Collar Coordinates Report	New	FORTRAN (Tetrad)

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH040	INDIVIDUAL DDH BASE PLOT	Modify CSC 'DH030'	FORTRAN (Tetrad)
DH041	INDIVIDUAL DDH STRUCTURE PLOT	Modify CSC 'DH030'	FORTRAN (Tetrad)
DH042	INDIVIDUAL DDH SAMPLE PLOT	Modify CSC 'DH030'	FORTRAN (Tetrad)

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH050	GENERAL DDH PLAN VIEW PLOT	Modify EPOD1 + use "LOCATE"	FORTRAN (Tektronix) + ICAS

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: System Programs	Date: 26.10.82
		By: J.M-L.	Page: 6 of 9

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH0660	Individual DDH Base Plot on SECTION	New	FORTRAN (Tetrad)
DH0661	Individual DDH Structure Plot on SECTION	New	FORTRAN (Tetrad)
DH0662	Individual DDH Sample Plot on SECTION	New	FORTRAN (Tetrad)
DH0663	Individual DDH Composite Plot on SECTION	New	FORTRAN (Tetrad)

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH070	SECTION BASE PLOT	New	FORTRAN (Tetrad + IDMS)
DH071	SECTION STRUCTURE PLOT	New	FORTRAN (Tetrad)
DH072	SECTION SAMPLE PLOT	New	FORTRAN (Tetrad)
DH073	SECTION COMPOSITE PLOT	New	FORTRAN (Tetrad)

ICAS Software Services		Systems: DDHDB	Project: PB2001
		Routine: Systems Programs	Date: 26.10.82
		By: J.M.-L.	Page: 8 of 9

DIAMOND DRILL HOLE DATA BASE SYSTEM - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH080	SAMPLES/ASSAYS SUMMARY STATISTICS BY SAMPLE ROCK-CODE	New	FORTRAN (CAMC +IMS)
DH081	COMPOSITE (weighted Average Assays) STATISTICS BY COMPOSITE ROCK-CODE	New	FORTRAN (CAMC +IMS)

ICAS Software Services

Systems: DDHDB
Routine: Systems Programs
By: J.M.-L.

Project: PB2001
Date: 26.10.82

DIAMOND DRILL HOLE DATA BASE - LIST OF PROGRAMS (Continued)

DDHDB PROGRAM	PURPOSE	DEVELOPMENT PROCESS	LANGUAGE (By)
DH9900	offload ASSAY Data Base to Tape File	New	COBOL (ISS)
DH9901	Load DDHDB Data Base from ASSAY Tape File	New	COBOL (ISS)
DH9902	Load DDHDB Data Base from '80 Anvil .FD file	New	COBOL (CAMC/ISS)
DH9903	Load DDHDB Data Base from '80 Gatzga .FD file	New	COBOL (CAMC/ISS)
DH9904	Load DDHDB Data Base from '81 + Pominat .FD file	New	COBOL (CAMC/ISS)

DDH: ********

----DEPTHS--- FROM	TO	SAMPLE NO.	INT.	REC.	ROCK UNIT	S.G. PULP	ASSAYS CU %	PB %	ZN %	AG(AA) G/MT	AG(FA) G/MT	AU(FA) G/MT	PO %	PY %	TOT FE	BAO %	HG %	MN %	AS %	BA %	S.G. W.R.
.0	.0	14461	.0	.0	****		.23	.97	.83	19.00											
.0	.0	14462	.0	.0	****		.32	1.28	1.09	26.00											
.0	.0	14463	.0	.0	****		.24	1.34	1.32	26.00											
.0	.0	14464	.0	.0	****		.23	.84	.34	20.00											
.0	.0	14465	.0	.0	****		.21	.95	.61	27.00											
.0	.0	14466	.0	.0	****		.22	.99	.88	21.00											
.0	.0	14467	.0	.0	****		.28	1.26	1.38	23.00											
.0	.0	14468	.0	.0	****		.27	1.99	1.13	32.00											
.0	.0	14469	.0	.0	****		.10	.36	.35	7.00											
.0	.0	14470	.0	.0	****		.21	.89	.80	17.00											
.0	.0	14471	.0	.0	****		.30	1.59	1.72	28.00											
.0	.0	14472	.0	.0	****		.26	1.51	1.12	26.00											
.0	.0	14473	.0	.0	****		.33	1.42	1.20	26.00											
.0	.0	14474	.0	.0	****		.50	.84	.60	23.00											
.0	.0	14475	.0	.0	****		.37	.86	.60	23.00											
.0	.0	14476	.0	.0	****		.34	.92	.51	23.00											
.0	.0	14477	.0	.0	****		.19	1.19	.76	24.00											
.0	.0	14478	.0	.0	****		.21	2.46	2.58	42.00											
.0	.0	14479	.0	.0	****		.19	2.77	3.32	44.00											
.0	.0	14480	.0	.0	****		.11	.54	.38	11.00											
.0	.0	14481	.0	.0	****		.07	3.49	3.67	43.00											
.0	.0	14482	.0	.0	****		.27	.70	1.35	21.00											
.0	.0	14483	.0	.0	****		.15	2.01	2.79	41.00											
.0	.0	14484	.0	.0	****		.23	1.26	1.42	25.00											
.0	.0	14485	.0	.0	****		.31	1.10	.75	25.00											
.0	.0	14595	.0	.0	****		.20	.75	.83	14.00											
.0	.0	14596	.0	.0	****		.18	1.60	1.20	26.00											
.0	.0	14597	.0	.0	****		.19	2.09	2.13	32.00											
.0	.0	14598	.0	.0	****		.13	2.21	2.09	35.00											
.0	.0	14599	.0	.0	****		.41	2.44	2.19	53.00											
.0	.0	14600	.0	.0	****		.14	.15	.14	8.00											
.0	.0	14601	.0	.0	****		.20	.30	.40	17.00											
.0	.0	14602	.0	.0	****		.21	.26	.41	15.00											
.0	.0	14603	.0	.0	****		.26	.27	.64	11.00											
.0	.0	14604	.0	.0	****		.02	3.82	7.40	46.00											
.0	.0	14605	.0	.0	****		.10	3.88	7.40	58.00											
.0	.0	14606	.0	.0	****		.03	2.47	2.20	45.00											
.0	.0	14607	.0	.0	****		.07	4.01	8.00	53.00											
.0	.0	14608	.0	.0	****		.14	4.96	7.80	77.00											
.0	.0	14609	.0	.0	****		.04	1.13	1.68	18.00											
.0	.0	14610	.0	.0	****		.19	2.89	2.96	41.00											
.0	.0	14611	.0	.0	****		.16	1.00	1.75	21.00											
.0	.0	14612	.0	.0	****		.24	.65	.50	18.00											
.0	.0	14613	.0	.0	****		.01	.10	.05	9.00											
.0	.0	~~15332~~ 14332	.0	.0	****		.03	1.49	2.20	23.00											
.0	.0	~~29075~~	.0	.0	****			2.21	3.78												
.0	.0	~~41407~~ 91407	.0	.0	****			4.65	7.12	81.60											
.0	.0	~~55230~~	.0	.0	****		.15	9.20	15.21	149.00											
.0	.0	~~55465~~	.0	.0	****																
.0	.0	~~58033~~	.0	.0	****																
.0	.0	~~65987~~	.0	.0	****																

23.30

22.00 4 16 20

Fagal14

Fagal10

91407

942825

Mascott

Gift Receivers

669825

910

DDH: ********

----DEPTHS--- FROM	TO	SAMPLE NO.	INT.	REC.	ROCK UNIT	S.G. PULP	ASSAYS CU %	PB %	ZN %	AG(AA) G/MT	AG(FA) G/MT	AU(FA) G/MT	PO %	PY %	TOT FE	BAO %	HG %	MN %	AS %	BA %	S.G. W.R.
.0	.0	90456	.0	.0	****		.70	.52	19.20												
.0	.0	90587	.0	.0	****		8.17	10.82	133.00												
.0	.0	90588	.0	.0	****		2.15	5.07	32.20												
.0	.0	90589	.0	.0	****		2.10	4.98	49.40												
.0	.0	90590	.0	.0	****		2.60	5.68	47.30												
.0	.0	90591	.0	.0	****		4.70	13.68	97.70												
.0	.0	90592	.0	.0	****		4.93	12.76	80.60												
.0	.0	90593	.0	.0	****		4.80	10.26	86.70												
.0	.0	90594	.0	.0	****		6.51	13.37	98.70												
.0	.0	90595	.0	.0	****		6.36	13.12	99.80												
.0	.0	90596	.0	.0	****		4.65	6.77	80.60												
.0	.0	90597	.0	.0	****		1.43	1.68	24.30												
.0	.0	90598	.0	.0	****		1.18	1.75	24.30												
.0	.0	90605	.0	.0	****		2.95	4.60	33.30												
.0	.0	90606	.0	.0	****		4.50	8.70	75.80												
.0	.0	90705	.0	.0	****		2.20	1.15	39.40												
.0	.0	90706	.0	.0	****		2.88	1.85	42.50												
.0	.0	90707	.0	.0	****		5.76	8.04	101.80												
.0	.0	90708	.0	.0	****		6.65	9.70	123.10												
.0	.0	90709	.0	.0	****		5.44	9.70	91.90												
.0	.0	90710	.0	.0	****		2.88	2.85	36.30												
.0	.0	90711	.0	.0	****		.88	.88	13.00												
.0	.0	90712	.0	.0	****		.08	.10	4.10												
.0	.0	90713	.0	.0	****		1.28	1.50	20.20												
.0	.0	90714	.0	.0	****		.18	.70	7.20												
.0	.0	90715	.0	.0	****		1.18	1.33	23.30												
.0	.0	90903	.0	.0	****		5.04	2.33	55.50												
.0	.0	90937	.0	.0	****		2.35	5.52	33.30												
.0	.0	90938	.0	.0	****		1.70	4.13	31.20												
.0	.0	90939	.0	.0	****		4.63	11.80	76.80												
.0	.0	90940	.0	.0	****		5.63	15.13	85.70												
.0	.0	90941	.0	.0	****		2.48	6.28	46.30												
.0	.0	90942	.0	.0	****		3.73	10.77	62.40												
.0	.0	90943	.0	.0	****		3.45	7.99	60.30												
.0	.0	90944	.0	.0	****		4.03	9.46	93.90												
.0	.0	90945	.0	.0	****		6.20	12.50	104.90												
.0	.0	90946	.0	.0	****		5.42	10.15	75.80												
.0	.0	90947	.0	.0	****		4.25	6.02	71.70												
.0	.0	90948	.0	.0	****		.65	1.18	13.00												
.0	.0	90949	.0	.0	****		3.90	5.00	50.40												
.0	.0	90950	.0	.0	****		5.15	7.05	83.70												
.0	.0	90951	.0	.0	****		4.60	5.85	73.70												
.0	.0	90952	.0	.0	****		6.92	10.21	86.70												
.0	.0	90953	.0	.0	****		4.30	5.10	57.60												
.0	.0	90954	.0	.0	****		12.04	12.77	183.40												
.0	.0	90955	.0	.0	****		2.70	1.60	40.50												
.0	.0	90956	.0	.0	****		1.95	1.15	32.20												
.0	.0	90957	.0	.0	****		1.20	.25	20.20												
356.7	357.5	90999	.8	.8	4L2																
242.1	246.2	91103	4.1	.0	4L0																
.0	>	0111111	.0	.0	****																

FAGA089
FAGU036
Fagu 037
Faga 131
Fagu 198
Fagu 026
Fagu 038
Fagu 026
delete Faga 128

DDH: ********

DEPTHS FROM	DEPTHS TO	SAMPLE NO.	INT.	REC.	ROCK UNIT	S.G. PULP	CU %	PB %	ZN %	AG(AA) G/MT	AG(FA) G/MT	AU(FA) G/MT	PO %	PY %	TOT FE	BAC %	HG %	MN %	AS %	BA %	S.G. W.R.
.0	.0	00046	.0	.0	****																
.0	.0	00699	.0	.0	****																
.0	.0	00907	.0	.0	****	3.12															
.0	.0	00987	.0	.0	****	3.38						1.51	1	17	18						
.0	.0	01106	.0	.0	****	4.50						1.44	1	29	30						
.0	.0	01112	.0	.0	****	3.83					70.00	1.30	2	15	18						
.0	.0	01213	.0	.0	****							.69	1	2	4						
.0	.0	01219	.0	.0	****							1.17	1	9	11						
.0	.0	01251	.0	.0	****	2.89						.07		3	4						
.0	.0	01647	.0	.0	****								1	22	24						
.0	.0	01648	.0	.0	****								1	31	32						
.0	.0	01649	.0	.0	****									21	22						
.0	.0	01650	.0	.0	****								1	8	9						
.0	.0	02293	.0	.0	****							.14	2	1	3						
.0	.0	03508	.0	.0	****	3.35					149.00	1.10	2	5	7						
.0	.0	03538	.0	.0	****	2.95															
.0	.0	11691	.0	.0	****		.02	.08	.22	3.00											
.0	.0	11882	.0	.0	****																
.0	.0	12401	.0	.0	****		.03	2.34	6.50	44.00											
.0	.0	12402	.0	.0	****		.01	2.25	6.30	43.00											
.0	.0	12403	.0	.0	****		.01	2.09	5.70	37.00											
.0	.0	12404	.0	.0	****		.29	1.25	1.64	25.00											
31.2	33.3	13001	2.1	2.1	4A0																
33.3	34.9	13002	1.6	1.6	4C5																
34.9	36.5	13003	1.6	1.5	4C5																
36.5	38.4	13004	1.9	1.7	5D4*																
38.4	40.4	13005	2.0	1.8	4C0																
40.4	42.4	13006	2.0	1.9	4C0																
42.4	44.4	13007	2.0	1.9	4C0																
44.4	45.2	13008	.8	.6	4C0																
45.2	47.2	13009	2.0	2.0	4A0																
47.2	48.7	13010	1.5	1.5	4A0																
48.7	50.7	13011	2.0	2.0	4A30																
50.7	52.7	13012	2.0	1.8	4A30																
52.7	54.7	13013	2.0	1.9	4A30																
54.7	55.6	13014	.9	.9	4A30																
55.6	57.8	13015	2.2	2.1	4E4																
57.8	59.1	13016	1.3	1.3	4G4																
59.1	60.1	13017	1.0	1.0	4E46																
60.1	61.5	13018	1.4	1.4	4C3																
61.5	63.7	13019	2.2	2.1	4E46																
63.7	64.4	13020	.7	.7	4E0																
64.4	66.0	13021	1.6	1.5	4E0																
66.0	67.1	13022	1.1	1.1	4G4																
67.1	69.1	13023	2.0	1.6	4E4																
69.1	71.1	13024	2.0	1.8	4E4																
71.1	72.9	13025	1.8	1.7	4E4																
72.9	74.1	13026	1.2	1.2	4E46																
74.1	76.1	13027	2.0	1.9	4G4																
.0	.0	14459	.0	.0	****		.27	.49	.24	20.00											
.0	.0	14460	.0	.0	****		.26	1.33	.86	27.00											

- #55-28 (00046), circled 2.45 (PB) and 2.47 (AG(AA)); FAGU106
- K5257-699 (00699) Del; FAGA215
- K4753-910 (00907); FAGU179
- K4781-754 (00987); FAGU133
- K4816-375 (01106) 11106; FAGU146
- 4814-#43 (01112) 11112; FAGA208
- 4753-1371 (01213); FAGU208
- 4753-1377 (01219); FAGU214
- 01251: Should be 12510
- 01647–01650: Should be 91074, 91075, 91076, 91077 — FAGA023
- K4782-113; 4753-1432 (02293)
- 03508: 8508; 3.35 (4782-113)
- K4753 837 (03538)
- FAGA023
- 11691: K4565-#17
- 11882: K4753-1168
- 12401–12404: Faga 119
- 13001–13027: Delete

ICAS Software Services

GRUM ASSAY-DB

SURFACE HOLES

LOADING STATUS

Systems:

Routine:

By:

Project: Bonus (906080)

Date:

Page:

SURFACE HOLE SECTION OK

AGA	001		76W			KA Assay 90000		✓	
	002								
	003								
AGA	004	KA	76W?			KA Assays 90308, 90309 & 90001 → 90005		✓	
AGA	005		76W			KA Assays 90310 & 90006 → 90019		✓	
AGA	006		76W			← NO ASSAYS!		✓	
	007								
	008	KA							
AGA	009		76W			KA Assays 90020 → 90032		✓	
FAGA	010		78W			CAMC-81 Assays 11606 - 11668		✓	
74A	011		74W			KA ASSAYS 90343 - 90347	**** Rock codes	✓	
	012	KA							
74A	013		68W			KA Assays 90117-90124	**** Rock codes	✓	
FAGA	014		76W			KA Assays 90033 - 90040			✓
	015	KA							
	016	KA							
74A	017		68W			KA Assays 90125-90127 (MISSING 90126-131)	**** Rock codes	✓	
	018	KA							
AGA	019		72W			KA Assays			✓
	020	KA							
AGA	021		72W			KA Assays CAMC-81 Assays			✓
	022	KA							
74A	023		68W			KA 90132, 90134, 90135 maybe CAMC 5021-5082, 5085, 5087-5093	**** Rock codes	✓	
74-A	024		80W			KA 90269 - 90307	**** Rock codes	✓	
	025	KA							
74A	026		64W			KA 91081 - 92009			
74-A	027		80W			KA 91000 - 91021			
74A	028		64W			KA 92016 - 92012			
	029	KA							
FAGA	030		76W						✓

****	Rock codes	✓	
****	Rock codes	✓	
****	Rock codes		✓

ICAS Software Services Inc.

SURFACE HOLE SECTION OK

	031 KA							
74-A	032	BOW				***** ROCK CODES	✓	
	033 KA							
	034 KA							
74-A	035	BOW		KA 90260-261		**** ROCK CODES	✓	
	036							
	037 KA							
74-A	038	BOW				**** ROCK CODES	✓	
	039 KA							
	040							
74A	041	BOW				**** ROCK CODES	✓	
	042 KA							
	043							
	044							
74A	045	68W					✓	
	046 KA							
	047							
	048							
	049							
	050 KA							
	051 KA							
74A	052	68W		KA Assays	← 90169 not on 90164-90166 & 91072-91073	**** ROCK UNITS	✓	
FAGA	053	76W		CAMC-81 Assays	7866 → 7868			✓
	054 KA							
74A	055	64W		SAMPLE# 8933 ?	also on 76-U041	**** ROCK CODES		✓
AGA	056	72W		2 KA-Assays				✓
	057 KA							
74A	058	64W						✓
	059 KA							
AGA	060	72W		2 KA-Assays				✓

HP3000

PM6015

PM6016

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

SURFACE HOLE SECTION OK

	061 KA							
FAGA	062	70W			1 KA Assay 90227			
	063 KA							
	064 KA							
75A	065	74W			KA ASSAY 92017-023	**** Rock Codes		
75A	066	66W						
FAGA	067	78W			CAMC-81 Assays 11492-11557			
AGA	068	76W			KA Assays 90043-90050			
75-A	069	80W			KA 91022-91028, 91066, 90266-268	Check Cu @7954 **** Rock Codes		
AGA	070	70W						
75A	071	74W			KA 91078, 91079	**** Rock Codes		
FAGA	072	78W			CAMC-81 Assays 11669-11699 (some gaps)			
AGA	073	76W			KA Assays 90052 → 90071			
75A	074	68W			CAMC-80 Assays 5025-5032 KA 90170 (Missing) 5103 **** Rock Codes			
FAGA	075	78W						
75-A	076	80W			KA 91029-91045	**** Rock Code		
AGA	077	64W						
FAGA	078	78W			CAMC-81 Assays 12000-12019			
75A	079	80W			KA 91046-51; 91053-91063	**** Rock Codes		
FAGA	080	78W						
AGA	081	62W						
FAGA	082	78W			*** Units CAMC-81 Assays 12020-12034			
AGA	083	72W			3 KA, Assays			
FAGA	084	78W			CAMC-81 Assays 11707-11708, 11710-11711			
	085							
	086							
	087							
75A	088	74W			9250-9256 & 9265) May be KA Assays needed	**** Rock Codes		
	089							
75A	090	74W				*** Rock Codes		

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

SURFACE HOLE	SECTION	OK				
091						
75A 092	74W		☑			
093						
094						
AGA 095	72W	☑	☑			✓
FAGA 096	70W		☑	3 CAMC-81 Assays 9895-9897		✓
097						
098						
75A 099	66W		☑	KA 90357	✓	
FAGA 100	70W		☑	CAMC-81 Assays 11453-11473		✓
101						
AGA 102	62W	☑	☑			✓
AGA 103	62W	☑	☑			✓
104						
AGA 105	62W	☑	☑			✓
75A 106	68W		☑		✓	
FAGA 107	62W		☑	Samples 9952-9962 - may be KA#s		✓
108						
75A 109	66W				✓	
110						
111						
AGA 112	64W	☑	☑			✓
113						
114						
115						
75A 116	66W		☑		✓	
75A 117	66W		☑		✓	
118						
119						
120						

ICAS Software Services Inc.

ICAS Software Services

Systems:

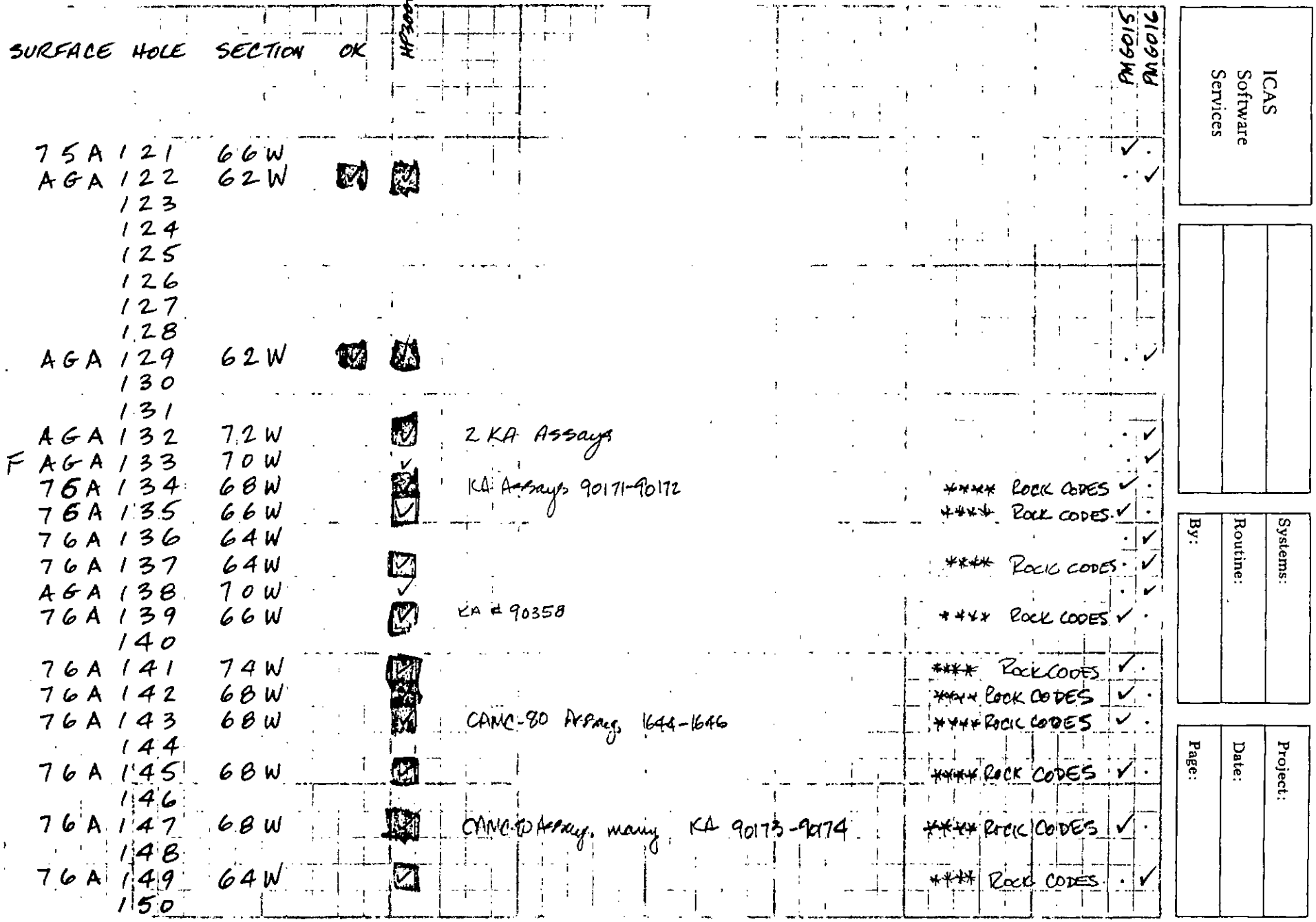
Routine:

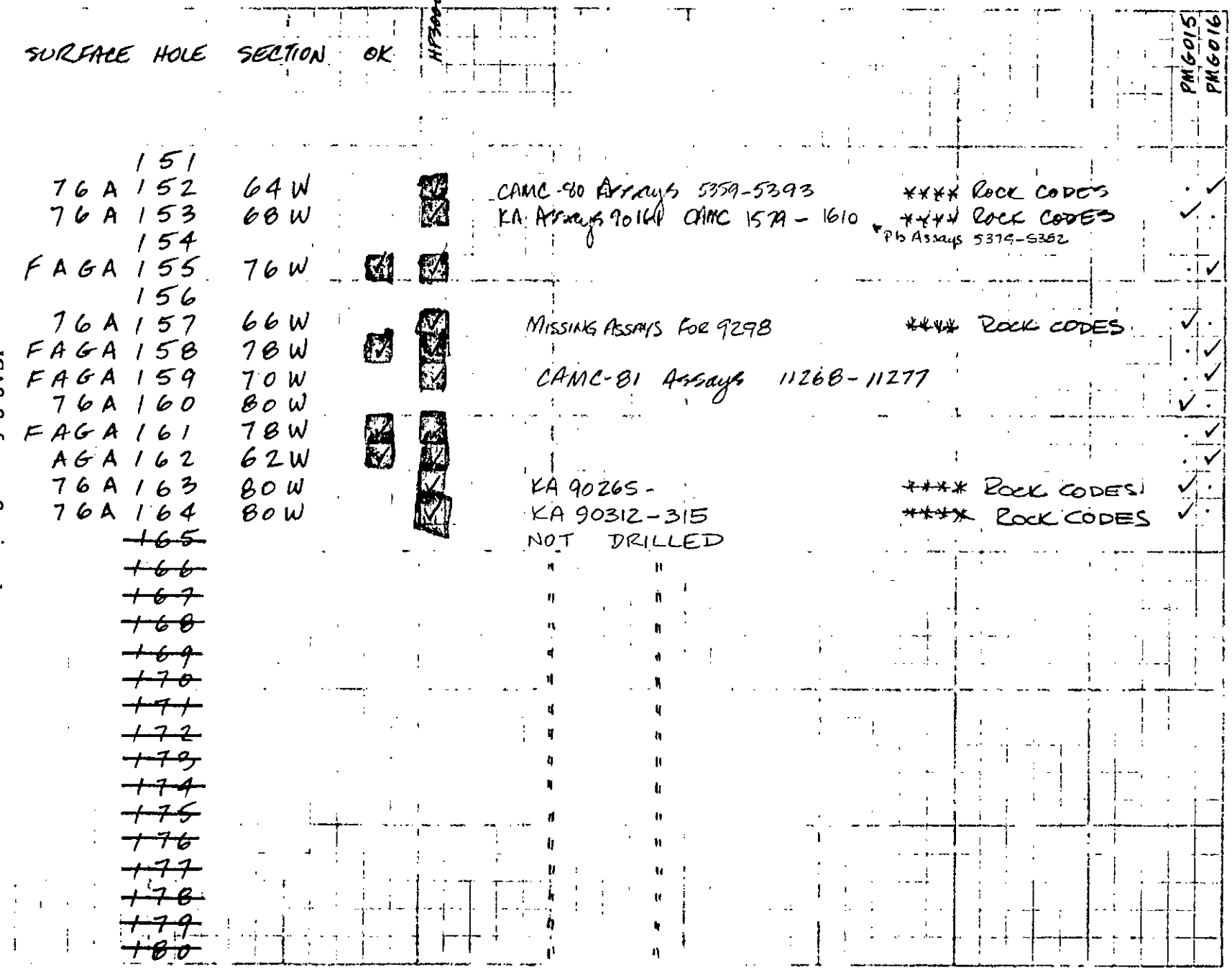
By:

Project:

Date:

Page:





ICAS Software Services

Systems:

Routine:

By:

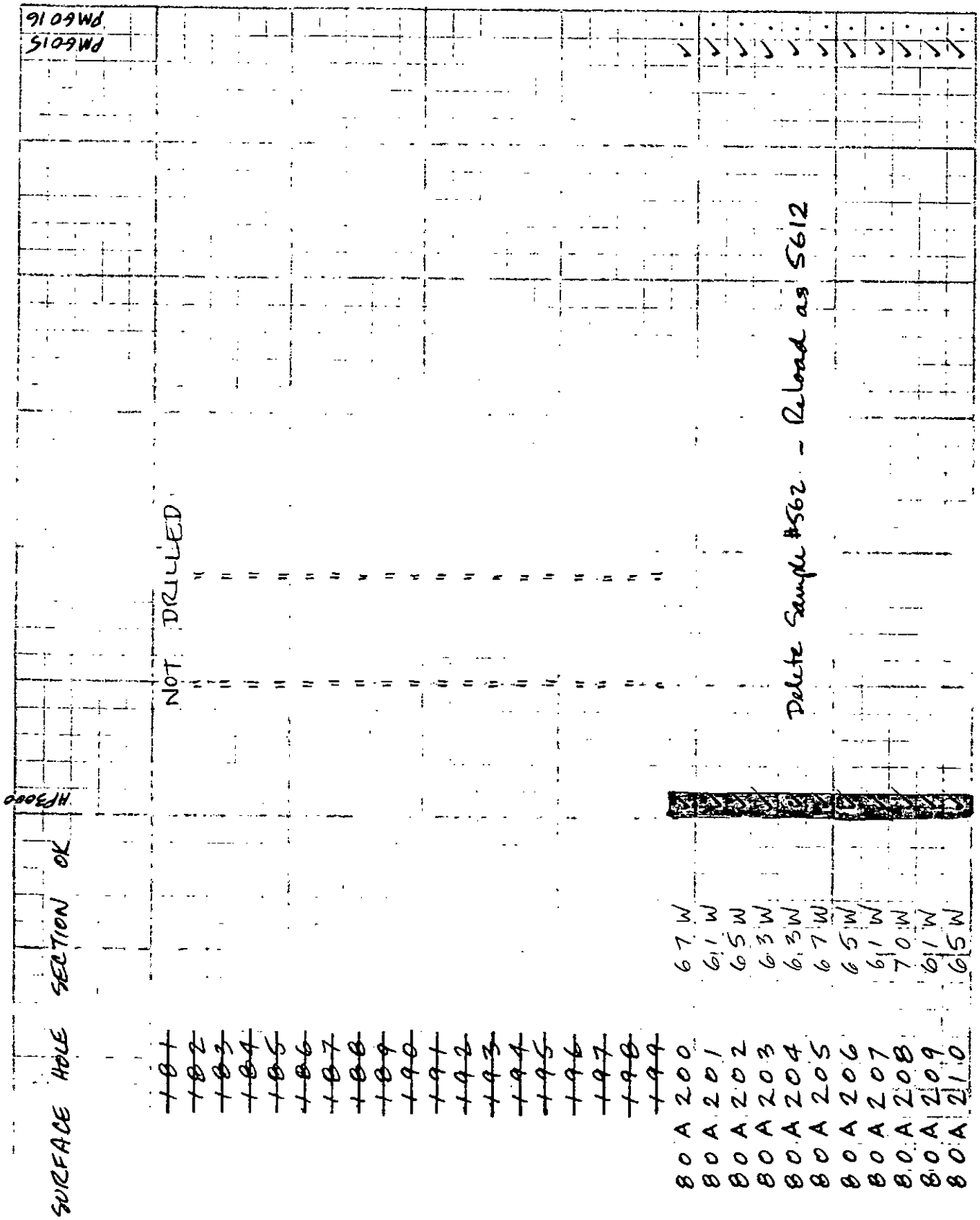
Project:

Date:

Page:

ICAS Software Services Inc.

ICAS Software Services		Systems:	Project:
		Routine:	Date:
		By:	Page:



SURFACE HOLE	SECTION	OK	HP3000	PM6015	PM6016
80A211	63W		✓	✓	
80A212	65W (65...)		✓	✓	
80A213	67W		✓	✓	
F AGA214	80W / 78W ?		✓		✓
F AGA215	74W	✓	✓		✓
F AGA216	68W	✓	✓		✓

CAMC - Assays 11558 – 11586

ICAS Software Services

Systems:

Routine:

By:

Project:

Date:

Page:

ICAS Software Services Inc.

129, 29 → (152)

UNDERGROUND HOLE SECTION OK

	001 KA	
AGU	002	72W
AGU	003	72W
AGU	004	72W
AGU	005	72W
AGU	006	72W
AGU	007	72W
AGU	008	72W
AGU	009	72W
AGU	010	72W
AGU	011	72W
AGU	012	72W
AGU	013	72W
AGU	014	72W
76U	015	74W
AGU	016	72W
AGU	017	72W
AGU	018	72W
AGU	019	72W
AGU	020	72W
AGU	021 KA	74W
AGU	022	72W
AGU	023	72W
76U	024	72W
AGU	025	72W
AGU	026	72W
AGU	027	72W
76U	028	74W
76U	029	74W
76U	030	74W

2 CAMC-21 Assays 2468 & 2469
4 KA Assays 90086 - 90089
3 KA Assays 90074 - 90076
2 KA Assays 90077 - 90078
**** Rock CODES
1 KA Assay 90080
1 KA Assay 90218
4 KA Assays 90219 - 90222
3 KA Assays 90223 - 90225
← NO ASSAYS
1 KA Assay 90081
4 KA Assays 90082 - 90085
**** Rock CODES

ICAS Software Services

Systems:
Routine:
By:
Project:
Date:
Page:

ICAS Software Services Inc.

UNDERGROUND HOLE SECTION OK

	031 KA					
76U	032	74W				
76U	033	74W				
76U	034	74W				
76U	035	74W	☑	KA 90348	**** Rock Codes	
	036 KA					
	037 KA					
	038 KA					
76U	039	74W		KA 90349	**** Rock Codes	
76U	040	74W			**** Rock Codes	
76U	041	74W			**** Rock Code	
76U	042	74W				
76U	043	74W		7811-7813, 7815-7816 Missing Assays	**** Rock Codes	
76U	044	74W			**** Rock Codes	
76U	045	74W			**** Rock Codes	
76U	046	74W			**** Rock Codes	
76U	047	74W			**** Rock Codes	
76U	048	74W			**** Rock Codes	
76U	049	74W				
	050 KA					
76U	051	74W				
76U	052	74W			**** Rock Codes	
76U	053	74W		9031 - need Assays.	**** Rock Codes	
76U	054	74W		9590 - Check Cu Assay.	**** Rock Codes	
76U	055	74W				
76U	056	74W				
76U	057	74W			**** Rock Codes	
FAGU	058	76W				
FAGU	059	76W				
FAGU	060	76W		Check sample depth 0.0→1.1 OK		

ICAS Software Services

Systems:
Routine:
By:
Project:
Date:
Page:

ICAS Software Services Inc.

UNDERGROUND HOLE SECTION OK

FAGU061	76W	
FAGU062	76W	
FAGU063	76W	
FAGU064	76W	
FAGU065	76W	
FAGU066	78W	
FAGU067	78W	
FAGU068	78W	
FAGU069	78W	
FAGU070	78W	
FAGU071	78W	
FAGU072	78W	
FAGU073	78W	
074 KA		
FAGU075	78W	
076 KA		
FAGU077	78W	
078 KA		
FAGU079	~~78W~~	80W
080	W	
FAGU081	76W	
082 KA		
FAGU083	76W	
AGU084 KA	74W	
FAGU085	76W	
AGU086	72W	
FAGU087	76W	
FAGU088	70W	
FAGU089	76W	
AGU090	70W	

Check Sample Depth 0.0 → 1.2 OK

2 CANC-81 Assays 11490-11491

CANC-81 Assays 11587-11605

1 KA-Assay 90226

2 KA-Assays 90228-90229

PM0916 S10915PM

ICAS Software Services

Project:

Date:

Page:

Systems:

Routine:

By:

ICAS Software Services Inc.

ICAS Software Services Inc.

#	UNDERGROUND HOLE	SECTION	OK	HP3000		PM6015	PM6016
1	FAGU091	78W	✓	✓		.	✓
2	FAGU092	70W		✓	1 CAMC-81 Assay 11141	.	✓
3	FAGU093	78W	✓	✓		.	✓
	094 KA						
4	FAGU095	78W	✓	✓			✓
5	FAGU096	70W		✓	CAMC-81 Assays 11401-11443	.	✓
6	FAGU097	78W	✓	✓		.	✓
7	FAGU098	70W		✓	KA Assays 90232-90245 (All)	.	✓
8	FAGU099	78W	✓	✓		.	✓
9	FAGU100	70W		✓	CAMC-81 Assays 11358-11388 (All)	.	✓
10	FAGU101	78W	✓	✓			✓
11	FAGU102	70W		✓	KA Assays 90246-90248 CAMC-81 Assays 11389-11400, 11251-11254 (All)		
12	FAGU103	78W	✓	✓		.	✓
13	FAGU104	70W		✓	CAMC-81 Assays 11278-11283	.	✓
14	FAGU105	78W	✓	✓		.	✓
15	FAGU106	70W		✓	4 KA Assays 90249-90252		✓
16	FAGU107	78W	✓	✓		.	✓
17	FAGU108	70W		✓	CAMC-81 Assays 11445-11450, 11255-11267 (All)	.	✓
18	FAGU109	78W	✓	✓		.	✓
19	FAGU110	76W	✓	✓		.	✓
20	FAGU111	70W		✓	CAMC-81 Assays 11195-11214, KA Assays 90253-90256		
21	AGU112	76W	☒		← NO ASSAYS	.	✓
22	FAGU113	70W		✓	CAMC-81 Assays 11284-11300, 11451, 11452 KA Assay 90257		
23	AGU114	76W		✓	KA Assay 90072	.	✓
24	AGU115	70W				.	✓
25	AGU116 KA	76W		✓	KA Assay 90311	.	✓
26	76U117 KA					✓	.
27	AGU118	76W	✓	✓		.	✓
28	FAGU119	70W		✓	CAMC-81 Assays 11020-11033	.	✓
29	AGU120	76W	☒		← NO ASSAYS	.	✓

PAM 107 8: 13

ICAS Software Services

Systems:

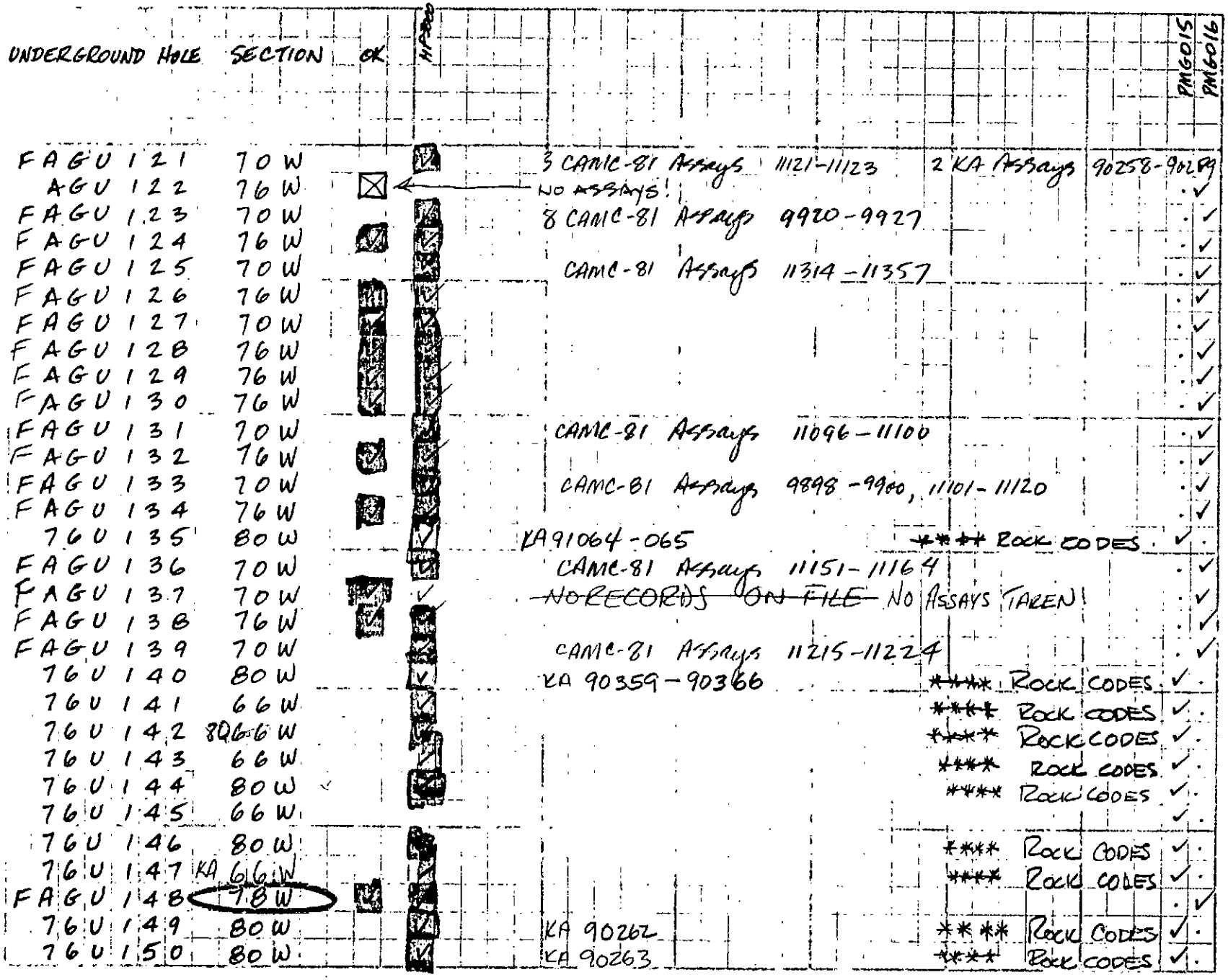
Routine:

By:

Project:

Date:

Page:



ICAS Software Services

Systems:

Routine:

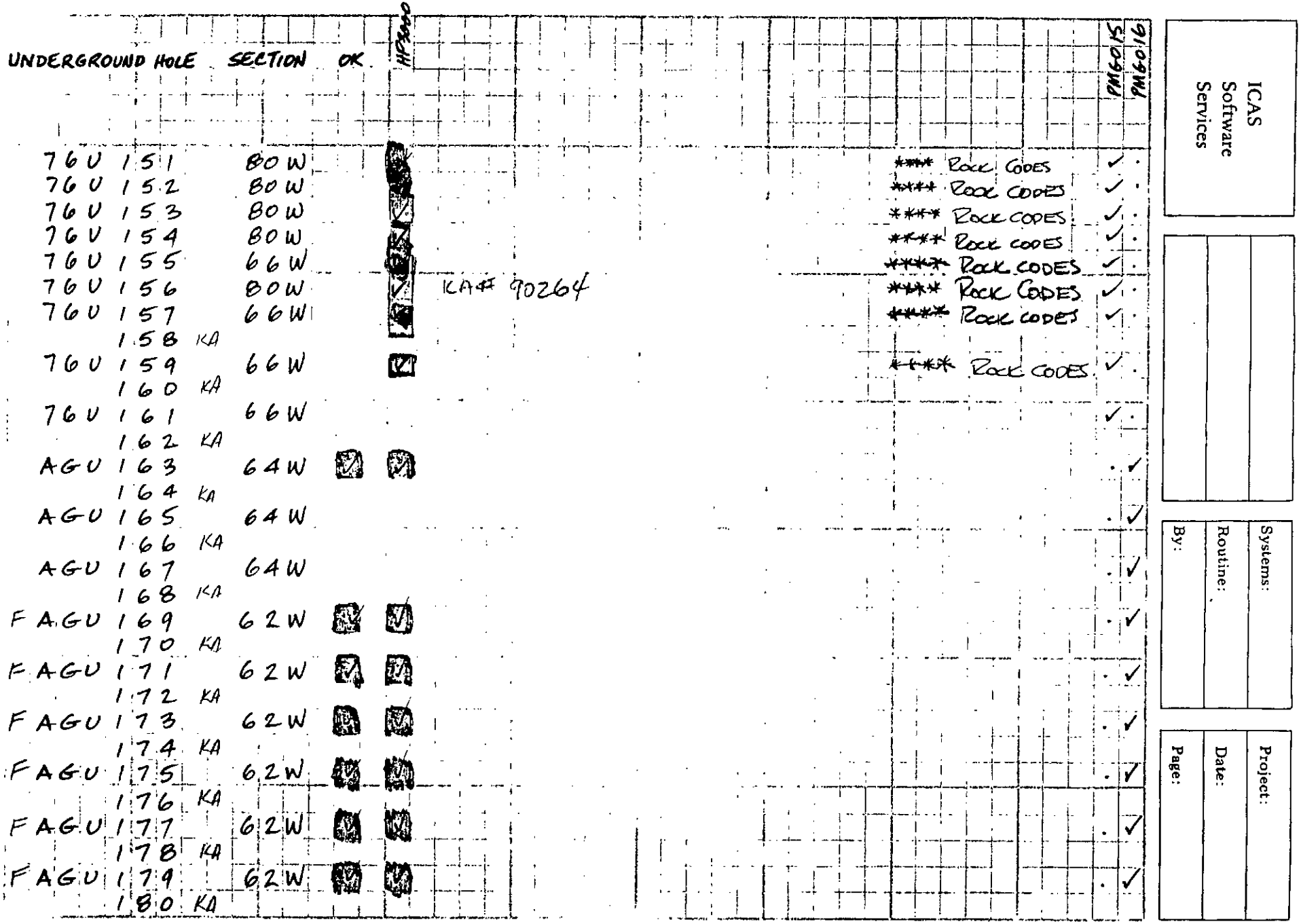
By:

Project:

Date:

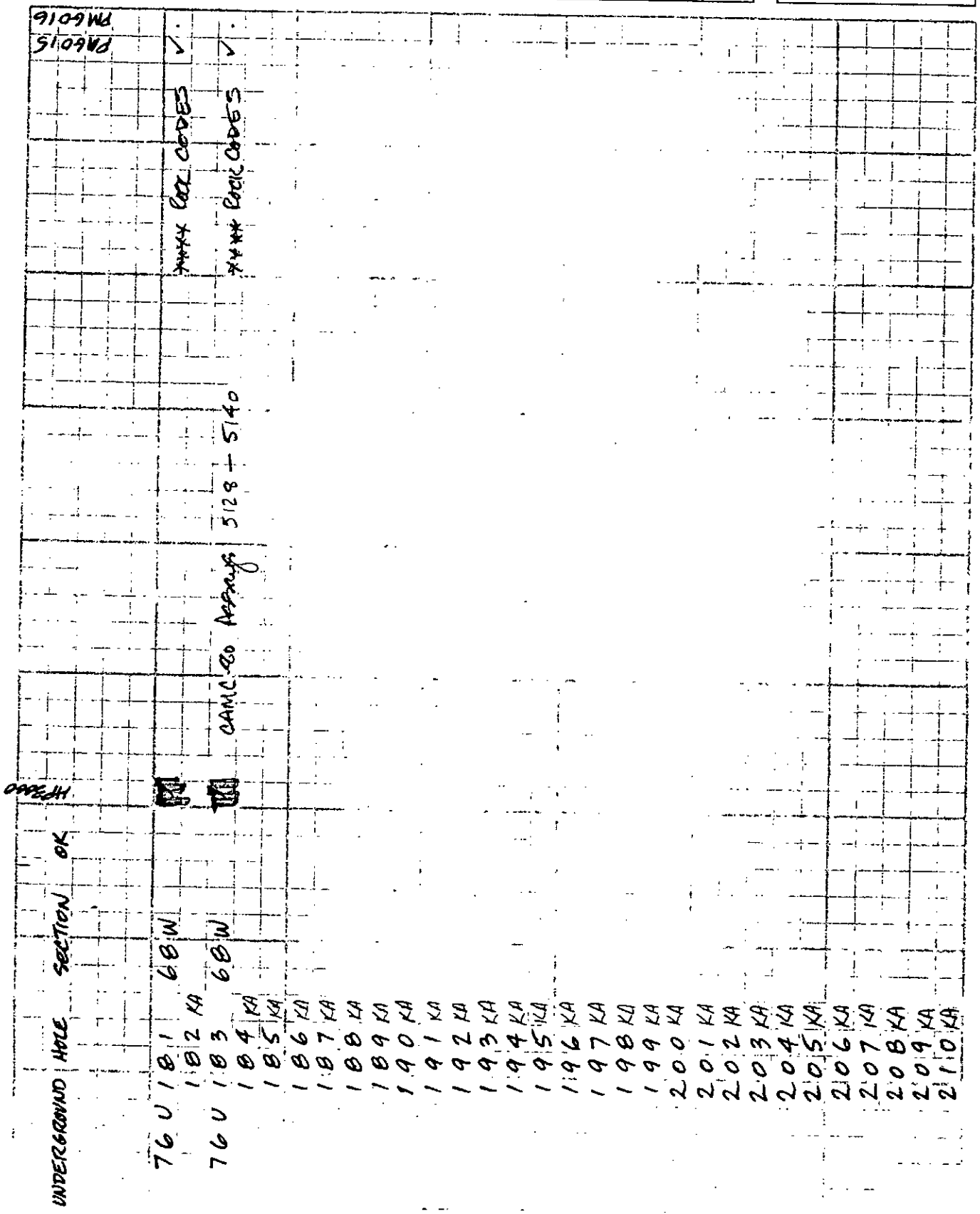
Page:

ICAS Software Services Inc.



ICAS Software Services Inc.

ICAS Software Services		Systems:	Project:
		Routine:	Date:
		By:	Page:



ICAS Software Services		Systems:	Project:
		Routine:	Date:
		By:	Page:

9109WD
5109WD

HP3000

OK

UNDERGROUND HOLE SECTION

21 KA
212 KA
213 KA
214 KA
215 KA
216 KA
217 KA
218 KA.