Aberfoyle Resources Limited

EXPLORATION DIVISION

DIAMOND DRILL LOG

HOLE No. MAC-43A

PAGE 1 OF

GEO. AMcN

DATE 14/10/97

DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION			STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION - OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE	WEATHERING				
1132																																	Lip-tip Mac-43 at 117m		
1134																																	1128.2 Continuous Partial Core recovered		
1136		1																															↓ 1132.5 full Core (New hole)		
1138		2																		2	6	Cosi			1135.3	3	25	Rh	Bdl	58			Use Liv-68 for orientation.		
1140		3																		1165 3 1158	6	Cosi			1138.0	1	45	Rh (fg)	1139.0 Bdl	09°			1132.7m RA. = 010°; DIP = 34° ∴ 59° to 056° Grid		
1142		3																		2	8	Cosi			1140.5	1	15	Rh+Rh	1139.4 Bdl	20°			1134m RA = 90°; Dip = 09° ∴ 83° to 146°		
1144		4	Sh	Sm Bk																									1139.8 Cl	20°			Cleavage at 1139.8: ∠So : Si = RA = 70°		
1146		4																											1143.8 Bdl	10°			1140.7m Sphalerite in Cosi Veins (Devonian)		
1148		4																							1145.2	0.5	30	Rh (fh)	1145.5 Bdl	40°			Bedding orientation Variable – Change across thin (<0.5cm) ?ductile shears.		
1150		5																							1146.2	0.1	20	Rh	1146.3 Bdl	10°			Rare, up to 0.6 cm dia, rounded Bk-Sh clasts		
1152		5																							1149.8	1.0	20	Rh	1148.3 Bdl	25°			fault at 1146.2 marks 'Damon' boundary in bedding orientation.		
1154		5																		2	8	Cosi			1149.3	1.0	80°	Rh	1149 Bdl	15°			1146.3m Coarse Sr in Co Va. (red-rims ; yellow Cotan)		
1156		6																		1135									1150.2 Bdl	0°			1149.9m Shale bcm clastic appearance ; clasts of Sy-Gn av to 1.5cm dia (most < 0.2cm)		
1158		6																							1155.4	0.6	20	Rh	1154.0 Bdl	05°			Below this start to get some f.g. Sst units (<1cm thick) ; shale clasts and thin av. units.		
1160																				3 1159	15	Cosi							1156.0 Bdl	05°			Bedding virtually parallel to core @ 1158m		
																				2	6	Cosi							1159.0				Minor kink style folding at 1159.7m		

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DIAMOND DRILL LOG

DRILLING: DEPTH | DRILLING RUNS | CORE LOSS | CORE TRAY NO.

LITHOLOGY: STRATIGRAPHY | ROCK TYPE | COLOUR | VOLCANICLASTICS: FRAGMENTS: COMPOSITION | MAX. SIZE (MM) | SORTING | SHAPE; MATRIX: COMPOSITION | VOLUME % | LOWER CONTACT: GRADATION | STYLE

VESIGLES: CONCENTRATION | MAX. SIZE (MM) | SHAPE

ALTERATION: TEXTURE | INTENSITY | MINERALOGY

VEINING: INTENSITY | MAX. WIDTH (MM) | MINERALOGY

MINERALISATION: TEXTURE | MINERALOGY & CONTENTS

FAULTS: POSITION - OF BASE | DOWNHOLE WIDTH (CM) | CORE AXIS ANGLE | GOUGE

FOLIATION: TYPE | CORE AXIS ANGLE

WEATHERING

STANDARD COLOUR LOG

REMARKS

SAMPLE NO.

DEPTH

DEPTH	RUNS	LOSS	TRAY	STRAT	ROCK TYPE	COLOUR	FRAG COMP	FRAG MAX SIZE (MM)	FRAG SORTING	FRAG SHAPE	MATRIX COMP	MATRIX VOL %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE
1166			7											
1164														
1166			8		Sh	Gy BK								
1168														
1170			9											
1172														
1174					1174.3								S	C
1176			10		YR-dh/av	Gn Gy	Fl Sh ?Pv	45	W	V	XV/ SeSi	95		
1178					1177.7								Gl	C
1180			11		YR-fly/mlv +Sh	Gn Gy Bk	Sh Fl Pv ?Dl Av	110	M	V	XV/ SeSi	80		
1182														
1184					1185.1								S	I
1186			12											
1188														
1190			13		Sh/av/xv	Gy Bk Gn								
1192														
1194														
1196			14											
1198														
1200														

DEPTH	CONCENTRATION	VESIGLE MAX. SIZE (MM)	VESIGLE SHAPE	TEXTURE	INTENSITY	MINERALOGY
				P	1	SeSi
				P	1	SeSi
				F	4	SeCl

DEPTH	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
	2	6	CoSi
1162.7			
	4	3	CoSi
1162.8			
	2	2	CoSi
1165.9			
	3	6	CoSi
1173			
	2	8	Co±Si
1176.6			
	3	15	Si±CoPy
1183.1			
	2	5	CoSi + Sp(Tr) Py(Tr)
1196.6			
	3	10	Co±Si
1195.8			
	2	6	Si±Co ±Py

DEPTH	TEXTURE	MINERALOGY & CONTENTS
	Ds,Fb	Py1-3
	Ds,Fb	Pytr-1
	Ds,Fb	Py 5-7
1132.9		
	Ds,Fb	Py 1-2
1177.7		
	Dc	Pytr
1144.2		
	Ds,Vn	Pytr-1
1145.1		
	Ds,Fb	Po 5-7
1146.5		
	Ds	Pytr-1
	Ds,Fb Vn	Py 1-3

DEPTH	POSITION - OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
	1162.3	0.8	10°	Rk(Gc)
	1165.9	1.5	15°	Rk
	1167.5	1.5	15°	Rk
	1170.9	0.1	15°	Rk
	1172.8	1.0	10°	Rk
	1188.2	190	0°	Sh
	1193.5	0.1	65°	Rk
	1195.0	2.0	60°	Rk
	1199.5	0.1	55°	Rk
	1199.1	0.1	55°	Rk

DEPTH	FOLIATION TYPE	FOLIATION CORE AXIS ANGLE
	Bd	10°
1162.0		
	Bd	15°
1165.0		
	Bd	15°
1166.0		
	Bd	10°
1170		
	Bd	10°
1173.0		
	Bd	15°
1174.5		
	Bd	10°
1177.5		
	Bd	25°
	Bd	<5°
1186.0		
	Bd	05°
1189.0		
	Bd	10°
1195.0		
	Bd	12°
1198.0		
	Bd	25°
12000		

REMARKS

On some core pieces can see a weakly developed cleavage - difficult to measure
Fault at 1162.3 associated with minor kink style folding.

1166.5 small fault associated c kink style folding

from 1170.8 - 1172.8 core of strong shearing. with minor kink style folds & contorted bedding

1178.3m 15cm Core in.

in less clast-rich intervals may be strongly leucoxene flecked
Note also LGn alteration halos around large clasts in the unit.

Some thin Veld units have 'balls' of black flak, to 0.8 cm dia.
Dominantly shale c thin 2-10cm thick (true width) Rxv+ av interbeds at:
1186.1 - 1188.4; R-xv/flt (So virtually // to LCA).
1193.5 - 1193.8; R-av (So 085°-010°)
1193.5 minor kink style folds
This unit quite strongly sheared
* Jds measured from 1193.5 - 1200m are small scale structure c spacing of < 2 cm.

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS: FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS: MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION - OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE					
1202		15																																
1204		16		Sh/qv/Ks	Gy Bk															2	6	Si Py	Ds Vn	Py 1-3					Bd	15°				
1206																													1205					
1208																																		
1210		17																											Bd	20°				
1212																													1210					
1214				1214.2								S	20°				1214.2			1214.2														
1216		18		R-L/qv	Gy Cm												P 2 Vn 2		Si Se Cl Cl	3	300	Si Co ± Py												
1218																																		
1220		19															1223.2																	
1222																																		
1224																	P 3 Vn 2 L 4 L 3		Fe Ox Si Cl Si Co															
1226		20																											1226.5					
1228				1229								Gl	C																						
1230																																		
1232		21		R-xv?	Pk Rd	Q Fd Pc	10	W	V	Si Se Fe Ox	60									2	10	Co Si												
1234																																		
1236		22																																
1238																																		

Lava or fine ashy top to xo beneath.

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DRILLING			LITHOLOGY										VESIGLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE BASE	CORE TRAY NO.	STRATIGRAPHY	BASE TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION - OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE				
1242		23																	1242.0									CL	10				
1244																												1243				local weak fabric defied by Sc wisps ≈10-20°A		
1246																P	3	FeOx Si	3	60	SiG ±Cl	Ds	Py tr										
1248		24														Vn	2	Cl	2	5	Q												
1250																L	4	Si	1250.0														
1252				R-Y		Qtz Fd Pc	10	3	V	Si & FeOx	60					L	3	Go	2	10	Si													
1254		25			Pk Rd														2	5	Cl													
1256																																	
1258		26																															
1260																																	
1262																			1262														
1264		27																	3	100	SiG ±Cl												
1266																			2	15	Cl												
1268		28																															
1270																			1270.6														
1272																			4	100	SiG												
1274		29																	1274.5														
1276																			3	10	SiG												
1278		30																															

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DRILLING

DEPTH	DRILLING RUNS / CORE LOSS	CORE TRAY NO.
1282		
1284		31
1286		
1288		
1290		32
1292		
1294		
1296		33
1298		
1300		
1302		34
1304		
1306		35
1308		
1310		
1312		36
1314		
1316		37
1318		

LITHOLOGY

STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE
	R-xV	Pk Rd			W	V			S	C
	1307.2									
	YR-Lv/bv	Dk Gy Gn	R Pc	100	P	A	Sise Cl	25		
		1319								

VESICLES CONCENTRATION | MAX. SIZE (MM) | SHAPE

ALTERATION

TEXTURE	INTENSITY	MINERALOGY
P	3	FeoxSi
Vn	2	Cl
L	4	Si
L	3	Co
1307.2		
P	3	SiseCl
LFr	4	~~Se~~
1319		

VEINING

INTENSITY	MAX. WIDTH (MM)	MINERALOGY
1290.0		
2	10	CoSi
1370.2		
1	5	Co
1316.5		

MINERALISATION

TEXTURE	MINERALOGY & CONTENTS
Ds	Py tr

FAULTS

POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
13070	100	20	ScRu

FOLIATION TYPE | CORE AXIS ANGLE

WEATHERING | STANDARD COLOUR LOG | REMARKS | SAMPLE NO. | DEPTH

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS	CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS: FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS: MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE				
1322			38		YR-LW/bv	Pk Gn											P	3	Sise															
1324																	Vn	2	CL															
																	LFr	4	Se															
					1325.5								S	C			1325.5			2	10	G												
1326					R-L	Pk							E				P	4	Si						1326.4	10	20	Ru						
			39		1328.4												P	4	Si															
1328																	Vn	2	CL															
1330																								Ds	Py Er									
1332			40		YR-LW/bv	Gy Gn	R Pc	100	P	V	Sise Cl	20					LFr	4	Se															
1334																																		
1336																																		
			41		1338.4								S				1338.4																	
1338					R-L	Pk							S				P	4	Si															
					1339.0												1339.0																	
1340																	P	4	Sise Cl															
1342			42		YR-LW/bv	Lay Gn	R Pc	200	P	A	Sise Cl	20					LFr	4	Se						1342.2									
1344																	Ds	2	Co						1342.4	10	Si Co							
1346																																		
1348			43																	1	10	Si Co											
1350																																		
1352			44																															
1354																																		
1356																									1357.5 0.5 cm. Qz Py Cpy vn 60° to CA.									
1358			45																															

Probably large clast

Probably large clast.

Pink si aphyric R-L frags to 200mm + fd+qtz R-L frags + fd phyric Se pumice? frags.

1357.5m 2cm Fe altd clast.

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DRILLING — DEPTH; DRILLING RUNS; CORE LOSS; CORE TRAY NO.

LITHOLOGY — STRATIGRAPHY; ROCK TYPE; COLOUR; VOLCANICLASTICS: FRAGMENTS (COMPOSITION; MAX. SIZE (MM); SORTING; SHAPE); MATRIX (COMPOSITION; VOLUME %); LOWER CONTACT (GRADATION; STYLE)

VESICLES — CONCENTRATION; MAX. SIZE (MM); SHAPE

ALTERATION — TEXTURE; INTENSITY; MINERALOGY

VEINING — INTENSITY; MAX. WIDTH (MM); MINERALOGY

MINERALISATION — TEXTURE; MINERALOGY & CONTENTS

FAULTS — POSITION OF BASE; DOWNHOLE WIDTH (CM); CORE AXIS ANGLE; GOUGE

FOLIATION — TYPE; CORE AXIS ANGLE

WEATHERING

STANDARD COLOUR LOG

REMARKS

SAMPLE NO.

DEPTH

DEPTH	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	COMPOSITION	MAX. SIZE (MM)	SORTING	SHAPE	MATRIX COMPOSITION	MATRIX VOLUME %	GRADATION	STYLE
1362				LGy Gn								
1364	46											
1366			YR-Lv/bv	Pk								
1368												
1370	47			LGy Gn								
1372												
1374	48											
1376												
1378												
1380	49											
1382												
1384	50											
886												
1388												
1390	51											
1392												
1394												
1396	52										F	30°
1397.7			YR-Lv	Pk								
1398												

DEPTH	TEXTURE	INTENSITY	MINERALOGY
	P	3	SiSeCl
	D	2	Co
	LV	2	CL
1365.1			
	P	4	Si
	LFr	3	Se
1368.2			
	P	3	SiSeCl
	D	2	Co
	LV	2	CL
	LFr	4	Se
	LFr	4	Si

DEPTH	INTENSITY	MAX. WIDTH (MM)	MINERALOGY
1361.3			
	3	60	SiCo
1362.4			
	1	5	Co
1364.0			
	2	10	CoSi
1380.8			
	1	10	Co
1389.7			
	2	60	Co.

DEPTH	TEXTURE	MINERALOGY & CONTENTS
	Ds	PyFT

DEPTH	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE
1365.7	0.5	10	SLCu	
1378.0	20.	30.	RuSL	

DEPTH	TYPE	CORE AXIS ANGLE
	CL	25
1397.5		

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DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	VOLCANICLASTICS MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION - OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE					
1402		53															P	3	Si Se Co	140	4.2														
1404				YR-Lv	Pk	R Pc	40	P	V	Si Se Co	60									1	5	G													
1406		54																					DS	Py Ep	1408.3	0.5	20	S Pu						
1408					1409.3 Cy Gn												1409.3																	
1410				1410.4								GL	C																					
1412		55		YR-Lv/Dac	Cy Gn	R Pc	100	P	A	Si Se Co							P	3	Si Se Cl															
1414																	L	3	Co															
1416																	LFr	4	Se															
1418		56																																
1420																																		
1422																	1421.4																	
1424		57															P	3	Si Cl Co															
1426																	LFr	4	Se															
1428		58															LFr	4	Si															
1430																																		
1432																																		
1434		59																																
1436																																		
1438		60																																

Incoming of Frags >64mm is only difference to above.

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DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS: FRAGMENTS: COMPOSITION	FRAGMENTS: MAX. SIZE (MM)	FRAGMENTS: SORTING	FRAGMENTS: SHAPE	MATRIX: COMPOSITION	MATRIX: VOLUME %	LOWER CONTACT: GRADATION	LOWER CONTACT: STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION OF BASE	DOWNHOLE WIDTH (CM)	CORE AXIS ANGLE	COLOUR	TYPE	CORE AXIS ANGLE	WEATHERING				
1442		60			Dgy Gn																													
1444																1448.5			1443.2														
1446		61		YR-Cy/bv	Pu Rd											P	3	Si Fe Ox Co	3	10	G	Ds	Py Sr											
1448																L	3	Cl															
1450		62																															
1452																																	
1454		63																															
1456																																	
1458																			1458.6														
1460		64																	2	5	G												
1462																								1463.3	10	?	Pu						
1464																																	
1466		65																	1469.3														
1468																			3	10	G												
1470																																	
1472		66																															
1474																																	
1476		67														1477.1								1477.1	10	40	Pu Sl						
1478					1477.1 Pk											P Lfr	3 2	Si Se Co Fe															

1453.8 ORIENTATION

CL 30° 1457.5

1448.8 ORIENTATION

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DIAMOND DRILL LOG

DRILLING			LITHOLOGY											VESICLES			ALTERATION			VEINING			MINERALISATION		FAULTS				FOLIATION		WEATHERING	STANDARD COLOUR LOG	REMARKS	SAMPLE NO.	DEPTH
DEPTH	DRILLING RUNS CORE LOSS	CORE TRAY NO.	STRATIGRAPHY	ROCK TYPE	COLOUR	VOLCANICLASTICS FRAGMENTS COMPOSITION	FRAGMENTS MAX. SIZE (MM)	FRAGMENTS SORTING	FRAGMENTS SHAPE	VOLCANICLASTICS MATRIX COMPOSITION	MATRIX VOLUME %	LOWER CONTACT GRADATION	LOWER CONTACT STYLE	CONCENTRATION	MAX. SIZE (MM)	SHAPE	TEXTURE	INTENSITY	MINERALOGY	INTENSITY	MAX. WIDTH (MM)	MINERALOGY	TEXTURE	MINERALOGY & CONTENTS	POSITION - DOWNHOLE OR - BASE	WIDTH (CM)	CORE AXIS ANGLE	GOUGE	TYPE	CORE AXIS ANGLE				
1482		68																														locally variable alteration		1482
1484																	1483.8																		1484
1486		69															P	3	siSaCoCl	148	6.2		Ds	Pyt											1486
1488				YR-Lv/W													L	4	Co										CL	10°					1488
1490																	LF	4	Se	1.	5	6							1490						1490
1492		70															L	3	ClCo																1492
1494																													CL	20					1494
1496																				1495.6									1495						1496
1498		71																		2	30	Co													1498
1500																													CL	30°					1500
1502		72		1502.9 D?-L	Gy Gn							S	C 30°	1	2	E	1502.9 P	2	SeCl										1500				EOH 1504.8m		1502
1504																																			1504
1506																																			1506
1508																																			1508
1510																																			1510
1512																																			1512
1514																																			1514
1516																																			1516
1518																																			1518

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