6000 0530

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File - Hole No. RS-423
AUTHOR	C. Ballew, S. King, R. Vance; K Allen; G. Langstaff; M. Pentz; M. Jex; V. Reid
DATE OF DOC(S)	1997 - 1998
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Newmont Gold Co.; Newmont Exploration, Ltd
COMMODITY If not obvious	gold; silver
NOTES	drill logs; geology; assay; geochemistry photographs; total depth 1140'; invoices negatives 150p.

Keep docs at about 250 pages if no oversized maps attached (for every 1 oversized page (>11x17) with text reduce the amount of pages by ~25)

SS: DY 3/18/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

RS-423 (Dream Land)

60000530
4010

60000530

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048810

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

:

:

CLIENT REFERENCE No: RS-423 (1140-1574.8)

No. SAMPLES : 100

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 11 MAY 1998

REPORTED : 11 MAY 1998

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

60000530

ANALYSIS REPORT SP048810

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 11 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1140.0-1145.2	<5		<0.001		0.6	<0.02
RS-423 1145.2-1150.0	<5		<0.001		<0.5	<0.02
RS-423 1150.0-1154.8	<5		<0.001		<0.5	<0.02
RS-423 1154.8-1160.0	<5		<0.001		<0.5	<0.02
RS-423 1160.0-1164.5	<5		<0.001		<0.5	<0.02
RS-423 1164.5-1168.3	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1168.3-1171.4	<5		<0.001		<0.5	<0.02
RS-423 1171.4-1174.3	<5		<0.001		<0.5	<0.02
RS-423 1174.3-1177.8	<5		<0.001		<0.5	<0.02
RS-423 1177.8-1180.9	<5		<0.001		<0.5	<0.02
RS-423 1180.9-1185.6	<5		<0.001		<0.5	<0.02
RS-423 1185.6-1189.0	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1189.0-1191.2	<5		<0.001		<0.5	<0.02
RS-423 1191.2-1196.4	<5		<0.001		<0.5	<0.02
RS-423 1196.4-1201.5	<5		<0.001		<0.5	<0.02
RS-423 1201.5-1205.9	<5		<0.001		<0.5	<0.02
RS-423 1205.9-1210.8	<5		<0.001		<0.5	<0.02
RS-423 1210.8-1215.9	<5		<0.001		<0.5	<0.02
RS-423 1215.9-1220.5	<5		<0.001		<0.5	<0.02
RS-423 1220.5-1225.0	<5		<0.001		<0.5	<0.02
RS-423 1225.0-1228.5	<5		<0.001		<0.5	<0.02
RS-423 1228.5-1232.4	<5		<0.001		<0.5	<0.02
RS-423 1232.4-1236.4	<5		<0.001		<0.5	<0.02
RS-423 1236.4-1241.0	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1241.0-1246.2	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048810

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 11 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1246.2-1249.3	43		0.001		<0.5	<0.02
RS-423 1249.3-1253.5	<5		<0.001		<0.5	<0.02
RS-423 1253.5-1258.3	<5		<0.001		<0.5	<0.02
RS-423 1258.3-1262.6	<5		<0.001		<0.5	<0.02
RS-423 1262.6-1266.9	<5		<0.001		<0.5	<0.02
RS-423 1266.9-1271.6	<5		<0.001		<0.5	<0.02
RS-423 1271.6-1276.4	<5		<0.001		<0.5	<0.02
RS-423 1276.4-1281.6	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1281.6-1286.1	<5		<0.001		<0.5	<0.02
RS-423 1286.1-1291.2	<5		<0.001		<0.5	<0.02
RS-423 1291.2-1296.3	<5		<0.001		<0.5	<0.02
RS-423 1296.3-1299.3	<5		<0.001		<0.5	<0.02
RS-423 1299.3-1304.0	<5		<0.001		<0.5	<0.02
RS-423 1304-1309	<5		<0.001		<0.5	<0.02
RS-423 1309.0-1313.9	<5		<0.001		<0.5	<0.02
RS-423 1313.9-1319.0	<5		<0.001		<0.5	<0.02
RS-423 1319.0-1324.1	<5		<0.001		<0.5	<0.02
RS-423 1324.1-1329.0	<5		<0.001		<0.5	<0.02
RS-423 1329.0-1334.3	<5		<0.001		<0.5	<0.02
RS-423 1334.3-1339.5	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1339.5-1345.0	<5		<0.001		<0.5	<0.02
RS-423 1345.0-1350.5	<5		<0.001		<0.5	<0.02
RS-423 1350.5-1355.7	<5		<0.001		<0.5	<0.02
RS-423 1355.7-1357.6	<5		<0.001		<0.5	<0.02
RS-423 1357.6-1363.6	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048810

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 11 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1363.6-1367.8	<5		<0.001		<0.5	<0.02
RS-423 1367.8-1371.6	<5		<0.001		<0.5	<0.02
RS-423 1371.6-1376.4	<5		<0.001		<0.5	<0.02
RS-423 1376.4-1381.7	<5		<0.001		<0.5	<0.02
RS-423 1381.7-1386.7	<5		<0.001		<0.5	<0.02
RS-423 1386.7-1389.5	<5		<0.001		<0.5	<0.02
RS-423 1389.5-1393.5	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1393.5-1398.7	<5		<0.001		<0.5	<0.02
RS-423 1398.7-1403.8	<5		<0.001		<0.5	<0.02
RS-423 1403.8-1408.3	<5		<0.001		<0.5	<0.02
RS-423 1408.3-1414.2	<5		<0.001		<0.5	<0.02
RS-423 1414.6-1418.1	<5		<0.001		<0.5	<0.02
RS-423 1418.1-1420.3	<5		<0.001		<0.5	<0.02
RS-423 1420.3-1423.9	<5		<0.001		<0.5	<0.02
RS-423 1423.9-1426.0	<5		<0.001		<0.5	<0.02
RS-423 1426.0-1430.3	<5		<0.001		<0.5	<0.02
RS-423 1430.3-1432.0	14		<0.001		1.1	0.03
RS-423 1432-1440	<5		<0.001		<0.5	<0.02
RS-423 1440-1445	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1445-1450	<5		<0.001		<0.5	<0.02
RS-423 1450.0-1455.1	<5		<0.001		<0.5	<0.02
RS-423 1455.1-1460.0	<5		<0.001		<0.5	<0.02
RS-423 1460-1465	<5		<0.001		<0.5	<0.02
RS-423 1465-1470	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1470.0-1473.5	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048810

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 11 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1473.5-1478.6	<5		<0.001		<0.5	<0.02
RS-423 1478.6-1485.5	<5		<0.001		<0.5	<0.02
RS-423 1485.5-1491.2	<5		<0.001		<0.5	<0.02
RS-423 1491.2-1493.9	<5		<0.001		<0.5	<0.02
RS-423 1493.9-1497.7	<5		<0.001		<0.5	<0.02
RS-423 1497.7-1500.5	<5		<0.001		<0.5	<0.02
RS-423 1500.5-1508.0	<5		<0.001		<0.5	<0.02
RS-423 1508-1510	71		0.002		<0.5	<0.02
RS-423 1510-1514	<5		<0.001		<0.5	<0.02
RS-423 1514-1519	<5		<0.001		<0.5	<0.02
RS-423 1519-1524	<5		<0.001		<0.5	<0.02
RS-423 1524.0-1524.9	74		0.002		1.8	0.05
RS-423 1524.9-1529.5	20		<0.001		<0.5	<0.02
RS-423 1529.5-1534.9	18		<0.001		0.6	<0.02
RS-423 1534.9-1538.5	22		<0.001		2.4	0.07
RS-423 1538.5-1541.2	100		0.003		0.7	0.02
RS-423 1541.2-1546.6	<5		<0.001		<0.5	<0.02
RS-423 1546.6-1553.0	<5		<0.001		<0.5	<0.02
RS-423 1553.0-1554.9	<5	<5	<0.001	<0.001	1.0	0.03
RS-423 1554.9-1560.0	16		<0.001		<0.5	<0.02
RS-423 1560.0-1564.4	54		0.002		0.6	<0.02
RS-423 1564.4-1568.4	14		<0.001		0.7	0.02
RS-423 1568.4-1571.3	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1568.4-1571.3B	<5		<0.001		<0.5	<0.02
RS-423 1571.3-1574.8	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT:	*NEWMONT GOLD COMPANY*
CLIENT REF:	ROSEBUD EXPLORATION
AAL REF:	SP048921
METHOD:	AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-423 1945-1956	< .3	1.15	5	< 3	109	5	0.24	0.3	1	3	3	1.91	55	0.44	78	0.07	432	1	0.05	3	0.012	23	< 3	0.3	226	16	< .01	< 8	1	< 2	104
RS-423 1956-1962	< .3	0.61	5	< 3	78	< 3	0.95	0.2	< 1	2	3	1.04	20	0.42	69	0.04	692	1	0.04	2	0.01	23	< 3	1.1	352	13	< .01	< 8	< 1	< 2	65
RS-423 1962.0-1976.3	< .3	0.84	2	< 3	75	< 3	0.51	0.3	< 1	3	2	1.46	10	0.39	77	0.07	655	1	0.05	2	0.01	25	< 3	0.4	254	16	< .01	< 8	< 1	< 2	77
RS-423 1976.3-1996.9	< .3	0.79	< 2	< 3	90	< 3	1	0.2	1	2	< 1	1.55	10	0.42	76	0.06	1037	1	0.06	2	0.01	22	< 3	< .1	236	15	< .01	< 8	< 1	< 2	73
RS-423 1996.9-2009.7	0.3	0.76	3	< 3	74	< 3	2.15	0.2	1	1	2	1.38	10	0.38	73	0.07	1708	< 1	0.05	3	0.01	25	< 3	0.3	345	14	< .01	< 8	< 1	< 2	74
RS-423 2009.7-2016.8	0.3	0.67	2	< 3	92	< 3	2.26	< .2	< 1	1	4	1.05	15	0.41	77	0.06	1734	< 1	0.05	< 1	0.011	30	< 3	1.3	469	15	< .01	< 8	< 1	< 2	67
RS-423 2016.8-2028.7	< .3	0.65	< 2	< 3	97	< 3	1.72	0.2	< 1	1	2	1.01	10	0.39	72	0.05	1147	< 1	0.05	2	0.009	25	< 3	0.1	362	15	< .01	9	< 1	< 2	57
RS-423 2028.7-2046.3	< .3	0.72	2	< 3	90	< 3	0.98	0.3	< 1	1	4	1.28	10	0.39	75	0.05	793	< 1	0.04	2	0.009	34	< 3	0.5	298	15	< .01	< 8	< 1	< 2	67
RS-423 2046.3-2080.0	< .3	0.83	3	< 3	84	< 3	1.31	< .2	< 1	1	2	1.61	10	0.37	77	0.05	1072	1	0.05	2	0.009	28	< 3	0.1	282	15	< .01	< 8	< 1	< 2	77
RS-423 2080.0-2112.7	< .3	0.85	2	< 3	67	3	1.18	< .2	1	4	5	1.92	20	0.38	77	0.05	928	1	0.06	4	0.01	24	< 3	0.2	224	15	< .01	< 8	1	< 2	82
RS-423 2112.7-2115.7	0.3	0.79	< 2	< 3	55	< 3	0.29	< .2	1	2	3	1.52	10	0.35	87	0.05	275	1	0.07	2	0.011	22	< 3	< .1	158	17	< .01	< 8	1	< 2	73
RS-423 2115.7-2147.6	< .3	0.75	< 2	< 3	56	5	1.21	0.4	< 1	6	9	2.5	25	0.34	77	0.04	1168	1	0.07	4	0.01	24	< 3	< .1	178	16	< .01	< 8	1	< 2	75
RS-423 2147.6-2152.6	< .3	0.74	3	< 3	57	5	4.43	0.2	< 1	3	2	1.85	10	0.32	64	0.05	3293	1	0.07	2	0.007	24	< 3	< .1	398	13	< .01	< 8	< 1	< 2	62
RS-423 2152.6-2173.5	0.3	0.79	3	< 3	66	< 3	1.19	0.3	< 1	4	4	1.99	10	0.34	76	0.06	1075	1	0.06	3	0.009	22	< 3	< .1	233	16	< .01	< 8	1	< 2	74
RS-423 2173.5-2181.2	< .3	0.78	2	< 3	80	< 3	0.57	< .2	1	4	8	2.03	15	0.3	74	0.07	611	1	0.06	3	0.009	20	< 3	< .1	189	15	< .01	< 8	1	< 2	85
RS-423 2181.2-2197.5	< .3	0.87	2	< 3	77	3	0.53	0.2	1	5	6	2.29	20	0.28	74	0.1	585	1	0.06	4	0.009	26	< 3	0.3	195	16	< .01	< 8	1	< 2	83
RS-423 2197.5-2213.0	< .3	0.85	4	< 3	124	< 3	1.57	0.3	1	2	1	1.6	< 10	0.29	72	0.14	643	1	0.06	4	0.009	18	< 3	1.4	329	15	< .01	< 8	1	< 2	71
RS-423 2213.0-2214.5	< .3	1.81	2	< 3	189	< 3	0.91	0.2	11	19	40	2.83	30	0.46	16	0.52	236	< 1	0.09	62	0.112	21	< 3	0.3	652	2	< .01	< 8	20	< 2	87
RS-423 2214.5-2221.1	1.2	0.7	64	< 3	94	< 3	3.55	10.8	12	9	99	3.26	125	0.21	3	0.48	494	34	0.03	83	0.064	13	10	19.2	374	< 2	< .01	8	39	< 2	919
RS-423 2221.1-2226.3	< .3	2.23	17	< 3	54	6	3.67	0.5	17	14	14	6.21	10	0.11	5	1.85	982	2	0.08	6	0.115	6	< 3	0.5	189	< 2	< .01	< 8	61	< 2	77
RS-423 2226.3-2239.0	0.5	0.48	45	< 3	149	< 3	5.89	7.6	8	9	56	3.29	85	0.17	3	0.79	581	31	0.03	67	0.083	8	8	13.5	520	< 2	< .01	< 8	29	< 2	687
STANDARD C3	5	1.95	51	18	142	29	0.53	23.1	12	166	60	3.27	1060	0.17	18	0.58	755	25	0.04	35	0.084	35	13	1.5	31	20	0.08	12	76	14	165
STANDARD G-2	< .3	0.93	< 2	< 3	222	< 3	0.6	< .2	4	75	2	1.94	15	0.46	8	0.57	514	1	0.07	4	0.094	< 3	< 3	< .1	71	3	0.12	< 8	39	2	42

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431

(702) 356-0606

INVOICE NO: SP 0048921-IN
INVOICE DATE: 06/05/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-423	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
65	SAMPLES RECEIVED	.00	.00
64	JAW CRUSHING CHARGE	1.30	83.20
64	SPLITTING CHARGE	1.20	76.80
64	FINE MILLING CHARGE	2.00	128.00
65	Au (1 A.T. FIRE ASSAY)	8.00	520.00
65	HYDROCHLORIC/NITRIC DIGESTION	2.00	130.00
65	Ag ANALYSES	1.00	65.00
59	COMPOSITE CHARGE	1.00	59.00
21	MULTI-ELEMENT ICP PACKAGE	9.80	205.80
21	Se ANALYSES	7.15	150.15

$921.67

NET INVOICE:	1,417.95
LESS DISCOUNT:	496.28
FREIGHT:	.00
INVOICE TOTAL:	921.67

COPY

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048891

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

:

:

CLIENT REFERENCE No: RS-423 (1574.8-1945) RECEIVED : 18 MAY 1998

No. SAMPLES : 93 REPORTED : 18 MAY 1998

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048891

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 18 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1574.8-1578.9	68		0.002		2.3	0.07
RS-423 1578.9-1580.5	78	75	0.002	0.002	2.2	0.06
RS-423 1580.5-1584.2	<5		<0.001		<0.5	<0.02
RS-423 1584.2-1587.5	18		<0.001		0.6	<0.02
RS-423 1587.5-1588.9	40		0.001		1.0	0.03
RS-423 1588.9-1591.2	35		0.001		1.5	0.04
RS-423 1591.2-1596.6	48	54	0.001	0.002	1.3	0.04
RS-423 1596.6-1602.0	<5		<0.001		<0.5	<0.02
RS-423 1602-1607	12		<0.001		33.0	0.96
RS-423 1607.0-1609.2	<5		<0.001		<0.5	<0.02
RS-423 1609.2-1611.0	38		0.001		0.8	0.02
RS-423 1611-1615	24		<0.001		1.7	0.05
RS-423 1615.0-1618.1	14		<0.001		1.0	0.03
RS-423 1618.1-1619.6	55	76	0.002	0.002	3.0	0.09
RS-423 1619.6-1623.7	6		<0.001		0.8	0.02
RS-423 1623.7-1628.6	6		<0.001		<0.5	<0.02
RS-423 1628.6-1632.8	8		<0.001		<0.5	<0.02
RS-423 1632.8-1635.6	<5		<0.001		<0.5	<0.02
RS-423 1635.6-1639.0	<5		<0.001		<0.5	<0.02
RS-423 1639.0-1644.6	<5		<0.001		<0.5	<0.02
RS-423 1644.6-1649.9	<5		<0.001		<0.5	<0.02
RS-423 1649.9-1654.9	<5		<0.001		<0.5	<0.02
RS-423 1654.9-1658.8	6		<0.001		0.9	0.03
RS-423 1658.8-1662.1	<5		<0.001		<0.5	<0.02
RS-423 1662.1-1666.5	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048891

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 18 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1666.5-1671.5	<5		<0.001		<0.5	<0.02
RS-423 1671.5-1676.5	<5		<0.001		<0.5	<0.02
RS-423 1676.5-1681.5	<5		<0.001		<0.5	<0.02
RS-423 1681.5-1687.0	<5		<0.001		<0.5	<0.02
RS-423 1687.0-1691.5B	102		0.003		<0.5	<0.02
RS-423 1691.5-1694.9	<5		<0.001		<0.5	<0.02
RS-423 1694.9-1700.0	8		<0.001		<0.5	<0.02
RS-423 1700-1704	12		<0.001		<0.5	<0.02
RS-423 1704-1707	<5		<0.001		0.7	0.02
RS-423 1707.0-1710.5	<5		<0.001		<0.5	<0.02
RS-423 1710.5-1714.4	<5		<0.001		<0.5	<0.02
RS-423 1714.4-1718.9	<5		<0.001		<0.5	<0.02
RS-423 1718.9-1723.6	<5		<0.001		<0.5	<0.02
RS-423 1723.6-1725.0	<5		<0.001		<0.5	<0.02
RS-423 1725-1730	<5		<0.001		<0.5	<0.02
RS-423 1730-1735	<5		<0.001		<0.5	<0.02
RS-423 1735-1740	<5		<0.001		<0.5	<0.02
RS-423 1740.0-1744.9	10		<0.001		<0.5	<0.02
RS-423 1744.9-1750.0	<5		<0.001		<0.5	<0.02
RS-423 1744.9-1750.0A	18		<0.001		<0.5	<0.02
RS-423 1750.0-1754.3	56	46	0.002	0.001	<0.5	<0.02
RS-423 1754.3-1758.2	<5		<0.001		<0.5	<0.02
RS-423 1758.2-1763.2	<5		<0.001		<0.5	<0.02
RS-423 1763.2-1766.4	6		<0.001		<0.5	<0.02
RS-423 1766.4-1769.6	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048891

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 18 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1769.6-1774.2	<5		<0.001		<0.5	<0.02
RS-423 1774.2-1774.8	5		<0.001		0.8	0.02
RS-423 1774.8-1780.0	<5		<0.001		<0.5	<0.02
RS-423 1780-1785	<5		<0.001		<0.5	<0.02
RS-423 1785-1790	<5		<0.001		<0.5	<0.02
RS-423 1790.0-1794.7	<5		<0.001		<0.5	<0.02
RS-423 1794.7-1800.0	<5		<0.001		<0.5	<0.02
RS-423 1800-1804	<5		<0.001		<0.5	<0.02
RS-423 1804.0-1810.4	<5		<0.001		<0.5	<0.02
RS-423 1810.4-1816.0	6		<0.001		<0.5	<0.02
RS-423 1816.0-1818.3	<5		<0.001		<0.5	<0.02
RS-423 1818.3-1823.3	<5		<0.001		<0.5	<0.02
RS-423 1823.3-1828.8	<5		<0.001		<0.5	<0.02
RS-423 1828.8-1831.8	<5		<0.001		<0.5	<0.02
RS-423 1831.8-1833.4	<5		<0.001		<0.5	<0.02
RS-423 1833.4-1835.7	<5		<0.001		<0.5	<0.02
RS-423 1835.7-1839.8	56	68	0.002	0.002	<0.5	<0.02
RS-423 1839.8-1845.4	<5		<0.001		<0.5	<0.02
RS-423 1845.4-1851.0	<5		<0.001		<0.5	<0.02
RS-423 1851.0-1856.5	<5		<0.001		<0.5	<0.02
RS-423 1856.5-1861.2	<5		<0.001		<0.5	<0.02
RS-423 1861.2-1864.5	5		<0.001		<0.5	<0.02
RS-423 1864.5-1867.7	<5		<0.001		<0.5	<0.02
RS-423 1867.7-1871.0	8		<0.001		<0.5	<0.02
RS-423 1871.0-1873.7	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048891

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 18 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1873.7-1877.7	<5		<0.001		<0.5	<0.02
RS-423 1877.7-1880.0	6		<0.001		<0.5	<0.02
RS-423 1880.0-1883.4	<5		<0.001		<0.5	<0.02
RS-423 1883.4-1887.8	10		<0.001		<0.5	<0.02
RS-423 1887.8-1891.0	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1891.0-1894.2	<5		<0.001		<0.5	<0.02
RS-423 1894.2-1895.0	<5		<0.001		<0.5	<0.02
RS-423 1895.0-1898.3	<5		<0.001		<0.5	<0.02
RS-423 1898.3-1902.0	<5		<0.001		<0.5	<0.02
RS-423 1902.0-1904.9	<5		<0.001		<0.5	<0.02
RS-423 1904.9-1910.0	<5		<0.001		<0.5	<0.02
RS-423 1910-1915	<5		<0.001		0.6	<0.02
RS-423 1915-1920	<5		<0.001		<0.5	<0.02
RS-423 1920.0-1924.8	<5		<0.001		<0.5	<0.02
RS-423 1924.8-1930.0	<5		<0.001		<0.5	<0.02
RS-423 1930.0-1934.8	<5		<0.001		<0.5	<0.02
RS-423 1934.8-1940.0	<5		<0.001		<0.5	<0.02
RS-423 1940-1945	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT:	***NEWMONT GOLD COMPANY***
CLIENT REF:	**ROSEBUD EXPLORATION**
AAL REF:	**SP048891**
METHOD:	**AAL 01-2 + Se**

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-423 1574.8-1587.5	0.7	0.58	27	< 3	64	< 3	0.18	< .2	< 1	1	4	2.04	40	0.37	56	0.03	1572	5	0.04	< 1	0.01	32	3	5.8	274	13	< .01	< 8	1	< 2	74
RS-423 1587.5-1602.0	0.6	0.52	44	< 3	70	< 3	0.14	< .2	< 1	2	3	1.6	35	0.36	62	0.03	1380	4	0.03	1	0.008	29	< 3	4.9	225	15	< .01	< 8	1	< 2	78
RS-423 1602-1615	7.1	0.53	22	< 3	62	< 3	0.14	< .2	< 1	2	14	1.45	45	0.35	60	0.03	625	3	0.04	1	0.008	30	3	2.8	236	15	< .01	< 8	1	33	66
RS-423 1615.0-1628.6	0.8	0.58	26	< 3	62	< 3	0.14	< .2	< 1	1	4	2.35	25	0.37	58	0.04	1174	8	0.04	< 1	0.008	39	< 3	4	244	14	< .01	< 8	< 1	2	105
RS-423 1628.6-1644.6	0.3	0.63	17	< 3	814	< 3	0.66	< .2	1	3	5	1.25	30	0.36	64	0.04	556	2	0.04	1	0.008	27	< 3	0.7	251	16	< .01	< 8	1	< 2	61
RS-423 1644.6-1662.1	< .3	0.79	7	< 3	69	< 3	0.78	< .2	< 1	4	7	2.25	20	0.32	61	0.05	1279	8	0.04	2	0.008	30	< 3	0.6	179	15	< .01	< 8	1	< 2	114
RS-423 1662.1-1681.5	< .3	0.54	2	< 3	63	< 3	0.82	< .2	< 1	5	6	1.37	10	0.32	63	0.03	569	1	0.05	3	0.008	27	< 3	0.1	146	15	< .01	< 8	1	< 2	47
RS-423 1681.5-1704.0	0.3	0.68	15	< 3	124	< 3	0.64	< .2	< 1	2	5	1.42	20	0.38	63	0.04	657	3	0.05	2	0.008	32	< 3	1.8	180	16	< .01	< 8	< 1	< 2	66
RS-423 1704.0-1718.9	< .3	0.53	16	< 3	50	< 3	6.84	0.3	< 1	2	5	1.17	10	0.37	55	0.04	1811	6	0.04	1	0.006	67	< 3	1.7	339	11	< .01	< 8	< 1	< 2	56
RS-423 1718.9-1735.0	< .3	0.68	< 2	< 3	57	< 3	0.46	< .2	< 1	6	9	2.06	25	0.33	64	0.04	490	2	0.05	2	0.009	23	< 3	< .1	121	14	< .01	< 8	1	< 2	56
RS-423 1735.0-1754.3	< .3	0.69	< 2	< 3	57	< 3	0.6	< .2	< 1	5	7	1.91	10	0.35	71	0.03	743	2	0.05	2	0.01	28	< 3	< .1	126	16	< .01	< 8	1	< 2	64
RS-423 1754.3-1769.6	< .3	0.79	8	< 3	62	< 3	0.57	0.2	< 1	4	5	1.75	40	0.37	69	0.03	542	4	0.06	1	0.01	30	< 3	0.4	134	16	< .01	< 8	1	< 2	65
RS-423 1769.6-1785.0	< .3	0.79	8	< 3	62	< 3	0.74	< .2	< 1	4	6	1.7	15	0.37	69	0.04	798	8	0.05	2	0.01	28	< 3	0.8	173	16	< .01	< 8	< 1	< 2	66
RS-423 1785-1804	< .3	0.6	< 2	< 3	54	< 3	0.78	< .2	< 1	7	8	1.82	10	0.33	66	0.03	974	1	0.05	3	0.01	23	< 3	< .1	130	15	< .01	< 8	1	< 2	56
RS-423 1804.0-1823.3	< .3	0.78	4	< 3	86	< 3	0.34	0.4	1	2	5	1.48	35	0.39	75	0.06	999	1	0.04	2	0.011	30	< 3	0.1	256	18	< .01	< 8	1	< 2	102
RS-423 1823.3-1835.7	0.5	0.64	8	< 3	84	< 3	0.16	0.2	< 1	2	3	1.01	15	0.37	70	0.05	299	1	0.04	1	0.01	24	< 3	0.5	318	17	< .01	< 8	1	< 2	65
RS-423 1835.7-1856.5	< .3	0.7	3	< 3	73	< 3	0.53	< .2	< 1	2	4	1.41	35	0.36	67	0.05	671	1	0.04	2	0.009	27	< 3	0.3	216	15	< .01	< 8	< 1	< 2	59
RS-423 1856.5-1871.0	0.4	0.72	13	< 3	94	< 3	0.29	0.3	< 1	2	5	1.4	30	0.46	82	0.05	386	1	0.05	< 1	0.012	39	< 3	1.9	362	19	< .01	< 8	< 1	< 2	93
RS-423 1871.0-1883.4	< .3	0.71	6	< 3	60	< 3	5.96	< .2	< 1	1	2	1.42	15	0.38	54	0.06	4246	8	0.04	1	0.009	29	< 3	0.5	416	14	< .01	< 8	< 1	< 2	57
RS-423 1883.4-1895.0	< .3	0.63	6	< 3	52	< 3	6.15	0.2	< 1	1	3	1.24	25	0.33	54	0.04	3881	3	0.03	1	0.008	23	< 3	0.5	358	13	< .01	< 8	1	< 2	57
RS-423 1895-1910	< .3	0.87	6	< 3	291	< 3	1.02	0.2	< 1	2	3	1.46	15	0.42	68	0.05	881	1	0.04	1	0.011	27	< 3	0.5	188	17	< .01	< 8	1	< 2	77
RS-423 1910-1930	< .3	0.85	4	< 3	83	< 3	0.56	0.4	1	3	4	1.33	10	0.43	67	0.04	629	14	0.06	2	0.01	28	< 3	0.1	188	17	< .01	10	< 1	< 2	152
RS-423 1930-1945	< .3	0.9	< 2	< 3	79	< 3	0.83	0.3	< 1	2	3	1.43	< 10	0.42	68	0.06	880	1	0.06	1	0.01	34	< 3	0.2	207	16	< .01	< 8	< 1	< 2	62
STANDARD C3	5.2	1.85	57	20	151	23	0.55	23.3	11	165	61	3.3	890	0.16	19	0.6	777	24	0.04	36	0.091	34	18	1.1	30	20	0.08	18	76	18	154
STANDARD G-2	< .3	0.89	< 2	< 3	220	< 3	0.57	< .2	4	70	2	1.85	< 10	0.45	8	0.55	494	1	0.07	7	0.091	3	< 3	< .1	70	3	0.12	< 8	37	2	37

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431

(702) 356-0606

INVOICE NO: SP 0048891-IN
INVOICE DATE: 06/04/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-423	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
93	SAMPLES RECEIVED	.00	.00
91	JAW CRUSHING CHARGE	1.30	118.30
91	SPLITTING CHARGE	1.20	109.20
91	FINE MILLING CHARGE	2.00	182.00
93	Au (1 A.T. FIRE ASSAY)	8.00	744.00
93	HYDROCHLORIC/NITRIC DIGESTION	2.00	186.00
93	Ag ANALYSES	1.00	93.00
91	COMPOSITE CHARGE	1.00	91.00
23	MULTI-ELEMENT ICP PACKAGE	9.80	225.40
23	Se ANALYSES	7.15	164.45

$1243.68

COPY

NET INVOICE:	1,913.35
LESS DISCOUNT:	669.67
FREIGHT:	.00
INVOICE TOTAL:	1,243.68

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048921

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

:

:

CLIENT REFERENCE No: RS-423 RECEIVED : 20 MAY 1998

No. SAMPLES : 65 REPORTED : 20 MAY 1998

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048921

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 20 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1945-1950	<5		<0.001		<0.5	<0.02
RS-423 1950-1953	<5		<0.001		<0.5	<0.02
RS-423 1953-1956	<5		<0.001		<0.5	<0.02
RS-423 1956.0-1958.1	9		<0.001		<0.5	<0.02
RS-423 1958.1-1962.0	5		<0.001		<0.5	<0.02
RS-423 1962.0-1966.8	5		<0.001		<0.5	<0.02
RS-423 1966.8-1971.6	<5	6	<0.001	<0.001	<0.5	<0.02
RS-423 1971.6-1976.3	<5		<0.001		<0.5	<0.02
RS-423 1976.3-1981.0	<5		<0.001		<0.5	<0.02
RS-423 1981-1986	<5		<0.001		<0.5	<0.02
RS-423 1986.0-1991.3	<5		<0.001		<0.5	<0.02
RS-423 1991.3-1996.9	<5		<0.001		<0.5	<0.02
RS-423 1996.9-1999.4	<5		<0.001		<0.5	<0.02
RS-423 1999.4-2005.0	<5		<0.001		<0.5	<0.02
RS-423 2005.0-2009.7	<5		<0.001		<0.5	<0.02
RS-423 2009.7-2013.6	<5		<0.001		<0.5	<0.02
RS-423 2013.6-2016.8	<5		<0.001		<0.5	<0.02
RS-423 2016.8-2020.0	<5		<0.001		<0.5	<0.02
RS-423 2020.0-2023.8	8		<0.001		<0.5	<0.02
RS-423 2023.8-2028.7	<5		<0.001		<0.5	<0.02
RS-423 2028.7-2032.3	14		<0.001		<0.5	<0.02
RS-423 2032.3-2037.4	<5		<0.001		<0.5	<0.02
RS-423 2037.4-2042.2	5		<0.001		<0.5	<0.02
RS-423 2042.2-2046.3	7		<0.001		<0.5	<0.02
RS-423 2042.2-2046.3B	996		0.029		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048921

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 20 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 2046.3-2051.4	6		<0.001		<0.5	<0.02
RS-423 2051.4-2056.7	19		<0.001		<0.5	<0.02
RS-423 2056.7-2062.3	<5		<0.001		<0.5	<0.02
RS-423 2062.3-2067.4	<5		<0.001		<0.5	<0.02
RS-423 2067.4-2072.7	<5		<0.001		<0.5	<0.02
RS-423 2072.7-2076.0	<5		<0.001		<0.5	<0.02
RS-423 2076-2080	<5		<0.001		<0.5	<0.02
RS-423 2080.0-2085.2	<5		<0.001		<0.5	<0.02
RS-423 2085.2-2090.0	<5		<0.001		<0.5	<0.02
RS-423 2090.0-2095.2	5		<0.001		<0.5	<0.02
RS-423 2095.2-2100.9	<5		<0.001		<0.5	<0.02
RS-423 2100.9-2106.6	<5		<0.001		<0.5	<0.02
RS-423 2106.6-2112.7	<5		<0.001		<0.5	<0.02
RS-423 2112.7-2115.7	<5		<0.001		<0.5	<0.02
RS-423 2115.7-2119.7	<5		<0.001		<0.5	<0.02
RS-423 2119.7-2125.8	<5		<0.001		<0.5	<0.02
RS-423 2125.8-2131.9	<5		<0.001		<0.5	<0.02
RS-423 2131.9-2136.9	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 2136.9-2142.5	<5		<0.001		<0.5	<0.02
RS-423 2142.5-2147.6	<5		<0.001		<0.5	<0.02
RS-423 2147.6-2152.6	14		<0.001		<0.5	<0.02
RS-423 2152.6-2157.7	5		<0.001		<0.5	<0.02
RS-423 2157.7-2163.3	<5		<0.001		<0.5	<0.02
RS-423 2163.3-2168.1	<5		<0.001		<0.5	<0.02
RS-423 2168.1-2173.5	5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048921

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 20 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 2173.5-2178.5	<5		<0.001		<0.5	<0.02
RS-423 2178.5-2181.2	<5		<0.001		<0.5	<0.02
RS-423 2181.2-2186.1	<5		<0.001		<0.5	<0.02
RS-423 2186.1-2191.4	<5		<0.001		<0.5	<0.02
RS-423 2191.4-2197.5	<5		<0.001		<0.5	<0.02
RS-423 2197.5-2200.0	10		<0.001		<0.5	<0.02
RS-423 2200.0-2201.2	<5		<0.001		<0.5	<0.02
RS-423 2201.2-2206.9	<5		<0.001		<0.5	<0.02
RS-423 2206.9-2213.0	7		<0.001		<0.5	<0.02
RS-423 2213.0-2214.5	<5		<0.001		<0.5	<0.02
RS-423 2214.5-2221.1	7		<0.001		1.6	0.05
RS-423 2221.1-2226.3	<5		<0.001		<0.5	<0.02
RS-423 2226.3-2230.0	<5		<0.001		<0.5	<0.02
RS-423 2230.0-2234.7	7		<0.001		<0.5	<0.02
RS-423 2234.7-2239.0	7		<0.001		0.8	0.02

hole_id	y	x	z	max_depth
RS_423C	2206630.010	478374.780	5356.040	2239.000

Table: survey

hole_id	depth	dip	azimuth
RS_423C	0.00	-74.54	1.53
RS_423C	50.00	-74.61	358.69
RS_423C	100.00	-74.51	356.71
RS_423C	150.00	-74.41	355.61
RS_423C	200.00	-74.44	354.73
RS_423C	250.00	-74.33	356.79
RS_423C	300.00	-74.57	354.33
RS_423C	350.00	-74.35	353.69
RS_423C	400.00	-74.39	351.28
RS_423C	450.00	-74.71	349.09
RS_423C	500.00	-76.11	351.06
RS_423C	550.00	-75.54	352.65
RS_423C	600.00	-73.97	350.74
RS_423C	650.00	-71.48	348.76
RS_423C	700.00	-69.62	351.19
RS_423C	750.00	-68.00	354.17
RS_423C	800.00	-67.58	355.67
RS_423C	850.00	-65.47	359.34
RS_423C	900.00	-64.75	2.80
RS_423C	950.00	-63.52	5.84
RS_423C	1000.00	-62.81	7.38
RS_423C	1050.00	-62.61	10.09
RS_423C	1100.00	-62.22	13.35
RS_423C	1150.00	-62.23	14.70
RS_423C	1200.00	-61.94	14.36
RS_423C	1250.00	-62.03	14.17
RS_423C	1300.00	-62.05	14.13
RS_423C	1350.00	-62.18	13.05
RS_423C	1400.00	-62.57	12.00
RS_423C	1450.00	-62.97	11.87
RS_423C	1500.00	-63.52	11.25
RS_423C	1550.00	-63.90	11.11
RS_423C	1600.00	-63.93	10.04
RS_423C	1650.00	-63.91	9.58
RS_423C	1700.00	-64.45	8.68
RS_423C	1750.00	-64.59	8.35
RS_423C	1800.00	-64.91	7.60
RS_423C	1850.00	-64.60	7.06
RS_423C	1900.00	-65.07	7.14
RS_423C	1950.00	-65.55	6.51
RS_423C	2000.00	-66.00	5.36
RS_423C	2050.00	-66.18	4.36
RS_423C	2100.00	-66.75	3.53
RS_423C	2150.00	-67.17	2.73
RS_423C	2200.00	-67.26	2.72
RS_423C	2239.00	-67.52	1.26

Table: assay

hole_id	samp_id	depth_from	depth_to	length	au_avg2	ag_avg
RS_423C	-1.0	0.00	5.00	5.00	0.001	0.01
RS_423C	-1.0	5.00	10.00	5.00	0.001	0.01

RS_423C	-1.0	10.00	15.00	5.00	0.001	0.01
RS_423C	-1.0	15.00	20.00	5.00	0.001	0.01
RS_423C	-1.0	20.00	25.00	5.00	0.001	0.01
RS_423C	-1.0	25.00	30.00	5.00	0.001	0.01
RS_423C	-1.0	30.00	35.00	5.00	0.001	0.01
RS_423C	-1.0	35.00	40.00	5.00	0.001	0.01

Table: assay

hole_id	samp_id	depth_from	depth_to	length	au_avg2	ag_avg
RS_423C	-1.0	40.00	45.00	5.00	0.001	0.01
RS_423C	-1.0	45.00	50.00	5.00	0.001	0.01
RS_423C	-1.0	50.00	55.00	5.00	0.001	0.01
RS_423C	-1.0	55.00	60.00	5.00	0.001	0.01
RS_423C	-1.0	60.00	65.00	5.00	0.001	0.01
RS_423C	-1.0	65.00	70.00	5.00	0.001	0.01
RS_423C	-1.0	70.00	75.00	5.00	0.001	0.01
RS_423C	-1.0	75.00	80.00	5.00	0.001	0.01
RS_423C	-1.0	80.00	85.00	5.00	0.001	0.01
RS_423C	-1.0	85.00	90.00	5.00	0.001	0.01
RS_423C	-1.0	90.00	95.00	5.00	0.001	0.01
RS_423C	-1.0	95.00	100.00	5.00	0.001	0.01
RS_423C	-1.0	100.00	105.00	5.00	0.001	0.01
RS_423C	-1.0	105.00	110.00	5.00	0.001	0.01
RS_423C	-1.0	110.00	115.00	5.00	0.001	0.01
RS_423C	-1.0	115.00	120.00	5.00	0.001	0.01
RS_423C	-1.0	120.00	125.00	5.00	0.001	0.01
RS_423C	-1.0	125.00	130.00	5.00	0.001	0.01
RS_423C	-1.0	130.00	135.00	5.00	0.001	0.01
RS_423C	-1.0	135.00	140.00	5.00	0.001	0.01
RS_423C	-1.0	140.00	145.00	5.00	0.001	0.01
RS_423C	-1.0	145.00	150.00	5.00	0.001	0.01
RS_423C	-1.0	150.00	155.00	5.00	0.001	0.01
RS_423C	-1.0	155.00	160.00	5.00	0.001	0.01
RS_423C	-1.0	160.00	165.00	5.00	0.001	0.01
RS_423C	-1.0	165.00	170.00	5.00	0.001	0.01
RS_423C	-1.0	170.00	175.00	5.00	0.001	0.01
RS_423C	-1.0	175.00	180.00	5.00	0.001	0.01
RS_423C	-1.0	180.00	185.00	5.00	0.001	0.01
RS_423C	-1.0	185.00	190.00	5.00	0.001	0.01
RS_423C	-1.0	190.00	195.00	5.00	0.001	0.01
RS_423C	-1.0	195.00	200.00	5.00	0.001	0.01
RS_423C	-1.0	200.00	205.00	5.00	0.001	0.01
RS_423C	-1.0	205.00	210.00	5.00	0.001	0.01
RS_423C	-1.0	210.00	215.00	5.00	0.001	0.01
RS_423C	-1.0	215.00	220.00	5.00	0.001	0.01
RS_423C	-1.0	220.00	225.00	5.00	0.001	0.01
RS_423C	-1.0	225.00	230.00	5.00	0.001	0.01
RS_423C	-1.0	230.00	235.00	5.00	0.001	0.01
RS_423C	-1.0	235.00	240.00	5.00	0.001	0.01
RS_423C	-1.0	240.00	245.00	5.00	0.001	0.01
RS_423C	-1.0	245.00	250.00	5.00	0.001	0.01
RS_423C	-1.0	250.00	255.00	5.00	0.001	0.01
RS_423C	-1.0	255.00	260.00	5.00	0.001	0.01
RS_423C	-1.0	260.00	265.00	5.00	0.001	0.01
RS_423C	-1.0	265.00	270.00	5.00	0.001	0.01
RS_423C	-1.0	270.00	275.00	5.00	0.001	0.01
RS_423C	-1.0	275.00	280.00	5.00	0.001	0.01
RS_423C	-1.0	280.00	285.00	5.00	0.001	0.01
RS_423C	-1.0	285.00	290.00	5.00	0.001	0.01
RS_423C	-1.0	290.00	295.00	5.00	0.001	0.01
RS_423C	-1.0	295.00	300.00	5.00	0.001	0.01
RS_423C	-1.0	300.00	305.00	5.00	0.001	0.01
RS_423C	-1.0	305.00	310.00	5.00	0.001	0.01
RS_423C	-1.0	310.00	315.00	5.00	0.001	0.01

RS_423C	-1.0	315.00	320.00	5.00	0.001	0.01
RS_423C	-1.0	320.00	325.00	5.00	0.001	0.01
RS_423C	-1.0	325.00	330.00	5.00	0.001	0.01
RS_423C	-1.0	330.00	335.00	5.00	0.001	0.01
RS_423C	-1.0	335.00	340.00	5.00	0.001	0.01
RS_423C	-1.0	340.00	345.00	5.00	0.001	0.01

Table: assay

hole_id	samp_id	depth_from	depth_to	length	au_avg2	ag_avg
RS_423C	-1.0	345.00	350.00	5.00	0.001	0.01
RS_423C	-1.0	350.00	355.00	5.00	0.001	0.01
RS_423C	-1.0	355.00	360.00	5.00	0.001	0.01
RS_423C	-1.0	360.00	365.00	5.00	0.001	0.01
RS_423C	-1.0	365.00	370.00	5.00	0.001	0.01
RS_423C	-1.0	370.00	375.00	5.00	0.001	0.01
RS_423C	-1.0	375.00	380.00	5.00	0.001	0.01
RS_423C	-1.0	380.00	385.00	5.00	0.001	0.01
RS_423C	-1.0	385.00	390.00	5.00	0.001	0.01
RS_423C	-1.0	390.00	395.00	5.00	0.001	0.01
RS_423C	-1.0	395.00	400.00	5.00	0.001	0.01
RS_423C	-1.0	400.00	405.00	5.00	0.001	0.01
RS_423C	-1.0	405.00	410.00	5.00	0.001	0.01
RS_423C	-1.0	410.00	415.00	5.00	0.001	0.01
RS_423C	-1.0	415.00	420.00	5.00	0.001	0.01
RS_423C	-1.0	420.00	425.00	5.00	0.001	0.01
RS_423C	-1.0	425.00	430.00	5.00	0.001	0.01
RS_423C	-1.0	430.00	435.00	5.00	0.001	0.01
RS_423C	-1.0	435.00	440.00	5.00	0.001	0.01
RS_423C	-1.0	440.00	445.00	5.00	0.001	0.01
RS_423C	-1.0	445.00	450.00	5.00	0.001	0.01
RS_423C	-1.0	450.00	455.00	5.00	0.001	0.01
RS_423C	-1.0	455.00	460.00	5.00	0.001	0.01
RS_423C	-1.0	460.00	465.00	5.00	0.001	0.01
RS_423C	-1.0	465.00	470.00	5.00	0.001	0.01
RS_423C	-1.0	470.00	475.00	5.00	0.001	0.01
RS_423C	-1.0	475.00	480.00	5.00	0.001	0.01
RS_423C	-1.0	480.00	485.00	5.00	0.001	0.01
RS_423C	-1.0	485.00	490.00	5.00	0.001	0.01
RS_423C	-1.0	490.00	495.00	5.00	0.001	0.01
RS_423C	-1.0	495.00	500.00	5.00	0.001	0.01
RS_423C	-1.0	500.00	505.00	5.00	0.001	0.01
RS_423C	-1.0	505.00	510.00	5.00	0.001	0.01
RS_423C	-1.0	510.00	515.00	5.00	0.001	0.01
RS_423C	-1.0	515.00	520.00	5.00	0.001	0.01
RS_423C	-1.0	520.00	525.00	5.00	0.001	0.01
RS_423C	-1.0	525.00	530.00	5.00	0.001	0.01
RS_423C	-1.0	530.00	535.00	5.00	0.001	0.01
RS_423C	-1.0	535.00	540.00	5.00	0.001	0.01
RS_423C	-1.0	540.00	545.00	5.00	0.001	0.01
RS_423C	-1.0	545.00	550.00	5.00	0.001	0.01
RS_423C	-1.0	550.00	555.00	5.00	0.001	0.01
RS_423C	-1.0	555.00	560.00	5.00	0.001	0.01
RS_423C	-1.0	560.00	565.00	5.00	0.001	0.01
RS_423C	-1.0	565.00	570.00	5.00	0.001	0.01
RS_423C	-1.0	570.00	575.00	5.00	0.001	0.01
RS_423C	-1.0	575.00	580.00	5.00	0.001	0.01
RS_423C	-1.0	580.00	585.00	5.00	0.001	0.01
RS_423C	-1.0	585.00	590.00	5.00	0.001	0.01
RS_423C	-1.0	590.00	595.00	5.00	0.001	0.01
RS_423C	-1.0	595.00	600.00	5.00	0.001	0.01
RS_423C	-1.0	600.00	605.00	5.00	0.001	0.01
RS_423C	-1.0	605.00	610.00	5.00	0.001	0.01
RS_423C	-1.0	610.00	615.00	5.00	0.001	0.01
RS_423C	-1.0	615.00	620.00	5.00	0.001	0.01

RS_423C	-1.0	620.00	625.00	5.00	0.001	0.01
RS_423C	-1.0	625.00	630.00	5.00	0.001	0.01
RS_423C	-1.0	630.00	635.00	5.00	0.001	0.01
RS_423C	-1.0	635.00	640.00	5.00	0.001	0.01
RS_423C	-1.0	640.00	645.00	5.00	0.001	0.01
RS_423C	-1.0	645.00	650.00	5.00	0.001	0.01

Table: assay

hole_id	samp_id	depth_from	depth_to	length	au_avg2	ag_avg
RS_423C	-1.0	650.00	655.00	5.00	0.001	0.01
RS_423C	-1.0	655.00	660.00	5.00	0.001	0.01
RS_423C	-1.0	660.00	665.00	5.00	0.001	0.01
RS_423C	-1.0	665.00	670.00	5.00	0.001	0.01
RS_423C	-1.0	670.00	675.00	5.00	0.001	0.01
RS_423C	-1.0	675.00	680.00	5.00	0.001	0.01
RS_423C	-1.0	680.00	685.00	5.00	0.001	0.01
RS_423C	-1.0	685.00	690.00	5.00	0.001	0.01
RS_423C	-1.0	690.00	695.00	5.00	0.001	0.01
RS_423C	-1.0	695.00	700.00	5.00	0.001	0.01
RS_423C	-1.0	700.00	705.00	5.00	0.001	0.01
RS_423C	-1.0	705.00	710.00	5.00	0.001	0.01
RS_423C	-1.0	710.00	715.00	5.00	0.001	0.01
RS_423C	-1.0	715.00	720.00	5.00	0.001	0.01
RS_423C	-1.0	720.00	725.00	5.00	0.001	0.01
RS_423C	-1.0	725.00	730.00	5.00	0.001	0.01
RS_423C	-1.0	730.00	735.00	5.00	0.001	0.01
RS_423C	-1.0	735.00	740.00	5.00	0.001	0.01
RS_423C	-1.0	740.00	745.00	5.00	0.001	0.01
RS_423C	-1.0	745.00	750.00	5.00	0.001	0.01
RS_423C	-1.0	750.00	755.00	5.00	0.001	0.01
RS_423C	-1.0	755.00	760.00	5.00	0.001	0.01
RS_423C	-1.0	760.00	765.00	5.00	0.001	0.01
RS_423C	-1.0	765.00	770.00	5.00	0.001	0.01
RS_423C	-1.0	770.00	775.00	5.00	0.001	0.01
RS_423C	-1.0	775.00	780.00	5.00	0.001	0.01
RS_423C	-1.0	780.00	785.00	5.00	0.001	0.01
RS_423C	-1.0	785.00	790.00	5.00	0.001	0.01
RS_423C	-1.0	790.00	795.00	5.00	0.001	0.01
RS_423C	-1.0	795.00	800.00	5.00	0.001	0.01
RS_423C	-1.0	800.00	805.00	5.00	0.001	0.01
RS_423C	-1.0	805.00	810.00	5.00	0.001	0.01
RS_423C	-1.0	810.00	815.00	5.00	0.001	0.01
RS_423C	-1.0	815.00	820.00	5.00	0.001	0.01
RS_423C	-1.0	820.00	825.00	5.00	0.001	0.01
RS_423C	-1.0	825.00	830.00	5.00	0.001	0.01
RS_423C	-1.0	830.00	835.00	5.00	0.001	0.01
RS_423C	-1.0	835.00	840.00	5.00	0.001	0.01
RS_423C	-1.0	840.00	845.00	5.00	0.001	0.01
RS_423C	-1.0	845.00	850.00	5.00	0.001	0.01
RS_423C	-1.0	850.00	855.00	5.00	0.001	0.01
RS_423C	-1.0	855.00	860.00	5.00	0.001	0.01
RS_423C	-1.0	860.00	865.00	5.00	0.001	0.01
RS_423C	-1.0	865.00	870.00	5.00	0.001	0.01
RS_423C	-1.0	870.00	875.00	5.00	0.001	0.01
RS_423C	-1.0	875.00	880.00	5.00	0.001	0.01
RS_423C	-1.0	880.00	885.00	5.00	0.001	0.01
RS_423C	-1.0	885.00	890.00	5.00	0.001	0.01
RS_423C	-1.0	890.00	895.00	5.00	0.001	0.01
RS_423C	-1.0	895.00	900.00	5.00	0.001	0.01
RS_423C	-1.0	900.00	905.00	5.00	0.001	0.01
RS_423C	-1.0	905.00	910.00	5.00	0.001	0.01
RS_423C	-1.0	910.00	915.00	5.00	0.001	0.01
RS_423C	-1.0	915.00	920.00	5.00	0.001	0.01
RS_423C	-1.0	920.00	925.00	5.00	0.001	0.01

RS_423C	-1.0	925.00	930.00	5.00	0.001	0.01
RS_423C	-1.0	930.00	935.00	5.00	0.001	0.01
RS_423C	-1.0	935.00	940.00	5.00	0.001	0.01
RS_423C	-1.0	940.00	945.00	5.00	0.001	0.01
RS_423C	-1.0	945.00	950.00	5.00	0.001	0.01
RS_423C	-1.0	950.00	955.00	5.00	0.001	0.01

Table: assay

hole_id	samp_id	depth_from	depth_to	length	au_avg2	ag_avg
RS_423C	-1.0	955.00	960.00	5.00	0.001	0.01
RS_423C	-1.0	960.00	965.00	5.00	0.001	0.01
RS_423C	-1.0	965.00	970.00	5.00	0.001	0.01
RS_423C	-1.0	970.00	975.00	5.00	0.001	0.01
RS_423C	-1.0	975.00	980.00	5.00	0.001	0.01
RS_423C	-1.0	980.00	985.00	5.00	0.001	0.01
RS_423C	-1.0	985.00	990.00	5.00	0.001	0.01
RS_423C	-1.0	990.00	995.00	5.00	0.001	0.01
RS_423C	-1.0	995.00	1000.00	5.00	0.001	0.01
RS_423C	-1.0	1000.00	1005.00	5.00	0.001	0.01
RS_423C	-1.0	1005.00	1010.00	5.00	0.001	0.01
RS_423C	-1.0	1010.00	1015.00	5.00	0.001	0.01
RS_423C	-1.0	1015.00	1020.00	5.00	0.001	0.01
RS_423C	-1.0	1020.00	1025.00	5.00	0.001	0.01
RS_423C	-1.0	1025.00	1030.00	5.00	0.001	0.01
RS_423C	-1.0	1030.00	1035.00	5.00	0.001	0.01
RS_423C	-1.0	1035.00	1040.00	5.00	0.001	0.01
RS_423C	-1.0	1040.00	1045.00	5.00	0.001	0.01
RS_423C	-1.0	1045.00	1050.00	5.00	0.001	0.01
RS_423C	-1.0	1050.00	1055.00	5.00	0.001	0.01
RS_423C	-1.0	1055.00	1060.00	5.00	0.001	0.01
RS_423C	-1.0	1060.00	1065.00	5.00	0.001	0.01
RS_423C	-1.0	1065.00	1070.00	5.00	0.001	0.01
RS_423C	-1.0	1070.00	1075.00	5.00	0.001	0.01
RS_423C	-1.0	1075.00	1080.00	5.00	0.001	0.01
RS_423C	-1.0	1080.00	1085.00	5.00	0.001	0.01
RS_423C	-1.0	1085.00	1090.00	5.00	0.001	0.01
RS_423C	-1.0	1090.00	1095.00	5.00	0.001	0.01
RS_423C	-1.0	1095.00	1100.00	5.00	0.001	0.01
RS_423C	-1.0	1100.00	1105.00	5.00	0.001	0.01
RS_423C	-1.0	1105.00	1110.00	5.00	0.001	0.01
RS_423C	-1.0	1110.00	1115.00	5.00	0.001	0.01
RS_423C	-1.0	1115.00	1120.00	5.00	0.001	0.01
RS_423C	-1.0	1120.00	1125.00	5.00	0.001	0.01
RS_423C	-1.0	1125.00	1130.00	5.00	0.001	0.01
RS_423C	-1.0	1130.00	1135.00	5.00	0.001	0.01
RS_423C	-1.0	1135.00	1140.00	5.00	0.001	0.01

Newmont Gold Core Form

Hole# RS-423
Logged by G. Langstaff
Date 4/22/98
Area Dreamland
Coords
Az/Incl N15E-N1E / -62° to -67° (1150 2239 1150 2239)
Total Depth 2239
Contractor

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay	Specular hematite?
1100																												
1110																												
1120														Alt: 1180.5 – 1191.5 abundant hem in breccia matrix, negligible arg except moderate arg at 1190-1191; rare veins of calcite or yellow clay																
1130																												
1140														Start core 1140'														
	9.7	9.7	Chocolate	monomict, clast- and matrix-supported breccia with black things	dark red and dark grey				jt w/ hem 60 calc/clay	0	0	0	0	Lith: 1140-1168.3 monomict(?), clast- and matrix (mineral)-supported breccia with <.1"-.73" subangular-subrounded clasts of aphanitic volcanic with rounded-irregular black things, rare pale spots <.1" which could be anhedral feldspar and rare black grains which could be subhedral hbl, rare laminations	0	0		0	0	0	2	2		0	0			0
	97%	97%					11 45.2		40 jts w/ hem calc/clay																			
1150	11 50						11 50.0		jt w/ hem 30 calc, clay, >20°? slicks																			
	9.8	8.9												Alt: 1140-1168.3 negligible, locally hematite-rich matrix; rare calcite veins; rare blobs of calcite or waxy cream clay in matrix-sup breccia															
	98%	89%					11 54.8		30 blebs clay																			
1160	11 60						11 60.0		15 jt w/ hem, calc																			
	9.8	9.6							55 hem bk					Lith: 1168.3 – 1185.5 mod to weakly brecciated volcanic similar to clasts in breccia above; rounded to irreg "black things" up to .3" altered to grey-green; possible anhedral feldspar more conspicuous in altered rock; altered grades into much less altered below															
	98%	96%					11 64.5		20 irreg jt w/ hem, pyr																			
									50 calc																			
							11 68.3		flt w/ hem 65 <10° slicks																			
1170	11 70			monomict, aphyric volcanic with black things					15 25 jt w/ clay, hem 20° slicks (py)		2			1168.3 to .3" altered to grey-green; possible anhedral feldspar more conspicuous in altered rock; altered grades into much less altered below	2						tr	1		tr				
	6.7	2.0					11 71.4								1													
	69%	27%			cream		11 74.3		10 jt w/ clay, sulfide					1174.5 - jt w/ white clay, chl?, (py), Ag sbs, v. thin laths/blades of shiny stibnite?														
shiny silver-grey mineral	11 77.5						11 77.8		45 jt w/ chl? clay ± py					Alt: 1168.3 – 1180.5														
									25 40 10 40 90 jt w/ white clay, chl? ± (py)					1178 mod to weak arg and only trace hem (late along fractures?); rare veins of waxy, dark grn clay ± white clay ± py, white clay ± chl(?) ± sulfide, sulfosalt														
1180	9.0	6.2		breccia, aphyric with black things					60 jt w/ clay, chl, (py)						tr-							2		0				
					mixed		11 80.9		75 jt w/ clay, hem, (py) 20° slicks					1180.5	0						2							
	90%	62%							30 jt w/ clay, hem 60° slicks					Alt: 1178-1180.5 transition from weak arg to negligible arg														
					mottled red and grey with pale mottles		11 85.6		50 jts w/ hem					1185.5 Lith: 1185.5 – 1191.5 mostly matrix-sup fault(?) breccia; aphanitic clasts, rarely with black things or possible phenocrysts														
	11 87.5								20 15 jts w/ hem													3						
	8.8	6.6		monomict, matrix sup bx			11 89.0		35 jts w/ hem		1																	
1190							11 91.2		60 jts/hem 20	(?)				1190 1191 Lith: 1191.5 – 1228.5 variably brecciated, aphyric rock without black things or phenocryst-like grains; apparent clastic texture may be largely due to alteration but may locally be matrix-supported breccia	2?						tr	1-					
	90%	67%	pale red & cream	brecciated aphyric w/ black things	dark grey w/ pale or cream mottles				40 jt 30 jt w/ clay, hem						0						1	2		tr				tr
							11 96.4														tr							
	11 97.3								45						(local trace)													
1200									20 calc 55																			

Newmont Gold Core Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 4/22/98

Area Dreamland **Coords**

Az/Incl 15°-1°/-62° to -67° **Total Depth** 2239 **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FeOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay	Spec Fe2O3?
1200	10.0	8.4	Chocolate	brecciated aphyric rock w/o black things	dark grey w/red or cream mottles	12	01.5		jt w/hem, calc	0	0	0	0	Alt: 1191.5-1228.5 mostly grey and presumed to be unaltered but relations with pale weak arg and pale red hematite alteration so it is difficult to tell which came first; some clast-like things have pale red cores, others cream cores and "matrix" is commonly grey; rare calcite veins	0	0 (local trace)		0	0	0	tr	3		tr	0			tr
	98%	82%							15 jt w/hem																			
	12	07.5				12	05.9	60 calc																				
1210	10.2	9.1						40 calc 20 white														2						
	99%	86%				12	10.8	65	35 jt w/calc																			
	12	17.8				12	15.9		60 jt w/hem					Alt: 1228.5-1138.5 moderate arg; pink matrix of breccia may be due to hematite but hardness may indicate minor quartz or adularia(?) matrix locally has rare small vugs; v. rare waxy green clay								3						
1220	10.0	8.2				12	20.5		65 jt w/hem																			
	98%	80%				12	25.0		60 jts 40					Alt: 1138.5-1257 weak arg; rare white clay veins but no calcite								2						
	12	28				12	28.5		75 jt w/hem 70 jts flt (40)	1												3						
1230	9.3	6.3		matrix-sup breccia	pale red	12	32.4		50 jt 65 jt w/clay 30°, 85° slicks		2?			1228.5 Lith: 1228.5-1235.7 polymict(?), generally matrix-sup, fault(?) breccia with angular to rounded clasts; most clasts aphyric but rarely with laminations or rarely with possibly altered "black things"		2														0
	92%	62%							65 jt w/green clay 50 pyr 90° slicks													2		<1%				
	12	38.1		aphyric, lam. w/black things		12	36.4		40 jts w/pyr green clay					1235.7 Lith: 1235.7-1243.0 variably brecciated, aphyric, aphanitic rock with common, altered brown to grey, irregular to rounded "black things" and common laminations; nothing that looks like feldspar phenos and small "black things" too anhedral to be confused with mafic phenos								1							
1240	10.2	6.5			v. pale grey				15 30 jts ± pyr green clay 40-50 jts w/pyr white clay veins 20-40°							1						0						
	99%	63%		v. pale grey-supported volcanic breccia		12	41.0		50 pyr tz+																			
	12	48.4				12	46.2		20-45 jts w/pyr, chl? pyr? 50 jts ± pyr green clay 55																			
1250	10.2	9.0				12	49.3		25° pyr																			
	99%	87%				12	53.5		55 55 hard red alteration 40 jt																			
	12	58.7				12	58.3		20 jt w/clay (pyr) silver-grey? 45 jts ± clay ? 40 jt w/white clay 50 jt w/																			
1260	9.6	7.1		monomict clast-supported volcanic breccia w/black things					50 clay 40° slicks		1					2												
	93%	69%			v. pale grey with minor reddish brown	12	62.6		40 flt? w/ grey clay, pyr 15° slicks 50 jts		0			1262-.5' clay gouge w/15°? slicks										52? tr				
	12	69.0				12	66.9		50 jts					Alt: 1271-1271.6 lots of hematite, rare calcite veins and pockets of calcite in breccia		1						1						
1270	10.2	9.7				12	71.6		jt w/chl, hem 35 ± 3 slicks 25 45 jt					1270.8 1271.6														
	102%	97%		variably brecciated, aphyric, laminated volcanic w/black things					60 jt w/hem 45 jt 75 jt w/hem					Alt: 1257-1299 patchy bleachy with sharp contact against hematitic rock, both with calcite; minor waxy grey clay in bleached zones		0					3	2		0				
	12	79				12	76.9		65 hem + calcite 25 20																			
1280	10.2	9.5				12	81.6		70 20 jts w/ hem					Lith: 1270.8-1355.7 variably brecciated, aphyric, commonly laminated volcanic with black things; local irregular zones of breccia with coarse sand to pebble size, subangular to subrounded clasts but also sections of coherent rock up to 5' thick; some black things are calcareous, others are not; some black things have rims or pressure-shadow-like tails of white calcite; rare patches of relict greyer rock cut by hematite stain ± slight bleaching															
	100%	93%			dark red	12	86.1																					
	12	89.3							60 jts 40 65																			
1290	10.0	7.8				12	91.2																					
	100%	78%			(calc patches at 1297-1299)	12	96.3																					
1300	12	99.3				12	99.3									tr 0												

RBCORFRM.DWG Revised 3/17/98

Newmont Gold Core Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 5/1/98

Area Dreamland **Coords**

Az/Incl 15°-1°/-62° to -67° **Total Depth** 2239 **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
1300	9.9	9.2	Chocolate ?	variably brecciated, aphyric laminated volcanic w/ black fragments	dark red				40 jtu/hem	0	0	0	0	Alt: 1299-1355.7 same as 1271.5-1297; lots of hematite, rare calcite veins and patches	0	0		0	0	0	3	2		0				
	102%	95%																									
	13 09					1304.0		35 20-25																			
1310	10.0	9.2						20-25	98 jtu/hem																		
	100%	92%				1309.0		20-35	5-20 jtsu/hem calc, gorn clay																		
	13 19					1313.9		95	40 35 50 jtu/hem																		
1320	9.9	9.3				1319.0																					
	99%	93%				1324.1																					
	13 29					1329.0																					
1330	10.0	8.8							60-70 jtsu/hem 50 jtu/hem																		
	100%	88%				1334.3																					
	13 39					1339.5			45 jtu/hem																		
1340	10.0	8.3																									
	97%	81%				1345.0								Alt: 1355.7 - 1356.5 moderate to strong green clay with pyrite; original rock texture destroyed													
	13 49.3					1350.5								Alt: 1356.5 - 1363.8 weak to mod arg and weak? green clay; rare calcite ± clay veins; vuggy vein with bladed calcite in sandstone														
1350	10.3	7.7																									
	100%					1355.7			50 jtu/hem 60 jtu/hem calc, 15° slikes	2?				1355.7 — fft dips 60° to core axis 15° slikes, fft/jts dip opposite at 50°, 22°, 40° with 0-15° slikes and also of calc, clay ± py						2									
	13 59.6			angular volc. breccia	green	1357.6			50 45 jt					Lith: 1355.7 - 1362.3 polymict(?), clast- to matrix-sup breccia with very angular to subrounded, altered volcanic (aphyric) clasts - dominantly angular, clasts up to 1" but rarely > .5"		1				1		0							
1360	9.7	8.3			tan & pale green				90 jtu/gouge calc, 5° slikes					1362.3 Lith: 1362.3 - 1364.														
	95%	81%		sdst		1363.6		30 bladed calcite 35	jtu/clay					1364.3 medium - very coarse, volcanic sandstone apparently with wpl planar bedding, grades down into coarse breccia						0	2-		0					
	13 69.8			volc. pebble arg sandy matrix	tan & red	1367.8			65 jtu jtu 70					Lith: 1364 - 1371.9						1	1							
1370	10.2	8.7			tan	1371.6								1367.7 monoppdymict? matrix- and clast- sup, volcanic conglomerate with very angular to subrounded clasts up to 7" (mostly < 1")						0	0			4%					
	100%	85%		volcanic pebble-cobble breccia	mottled pale red and pale grey	1376.4			50 40 jtsu/hem 50 jtu/hem					1371.7 in sandy matrix with black grains like sandstone above; clasts aphyric, rarely lam, none with black fragments						1 0	2							
1380	13 80													Lith: 1371.9 - 1385.3 monomict?, very poorly sorted, cobble to sand volcanic conglomerate with very angular to subrounded clasts generally clast-sup; clasts up to 6" or larger															
	10.0	9.2				1381.7		calc	40 fractu hem					Lith: 1385.3 - 1389.4 same as 1364 - 1371.9; volcanic pebble-cobble conglomerate with sandy matrix with sparse black grains															
	100%	92%				1386.7								1385.3 Alt: 1363.8 - 1389.4 weak arg, rare very limited green clay/chlorite in breccia matrix; variable moderate to absent hematite, dominantly in matrix very rare calcite veins															
	13 90			arg. sdst.	tan	1389.5								1387.2							0			2%			
1390	9.6	8.8		volc. pebble-cobble conglomerate	tan & v. pale grey									1389.4							tr			tr			
	96%	88%				1393.5															0						
1400	14 00					1398.7																					

Newmont Gold Core Form

Hole# RS-423 | **Logged by** G. Langstaff | **Date** 5/2/98 | **Area** Dreamland | **Coords** | **Az/Incl** 15°-1°/-62° to -67° | **Total Depth** 2239 | **Contractor** | **Page** 4 of 12

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FeOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
1400	5.6	4.7	Chocolate	very poorly sorted, volcanic pebble-conglomerate	flesh and very pale grey					0	0	0	0	Lith: 1389.4-1431 monomodal? mict, very poorly sorted, volcanic pebble-cobble conglomerate with angular to rounded clasts up to 6" (mostly <2") generally clast-sup but locally sup; in matrix of fine sand to granules; largest clasts commonly have concave surfaces but pebbles commonly subrounded rare soft, dark grains in matrix	0	1		0	0	0	0	2		tr				
	10.2	8.2					1403.8																				
	14	05.5																									
	9.6	8.0					1408.3	5-25 calc+clay; <5 calc+clay	30 jt w/clay + calc																		
1410	93%	78%																		tr							
							1414.2		<10 clay+calc ±py ±jt					Alt: 1389.4-1409 weak arg, rare traces hem, rare traces green clay; arg may increase with depth rare clay±calcite veins, mostly near bottom of interval							1						
py blobs	14	15.8																						1%			
	9.6	5.0					1418.1		~10 fracts + clay, calc, py																		
clay+ calc+ py vn														1418.6 Alt: 1409-1418.6 weak arg, pervasive rare green clay/chlorite in matrix; rare clay±py± calcite veins; blobs of pyrite up to 2" long; rare hematite (?) stain on some fractures	2										2%				
1420	94%	49%					1420.3																				
							1423.9		25 jt w/gray clay, white clay <15 at 1862, jt w/white clay (?)		1			1422.2						0		0					
	14	26					1426.0																				
	4.9	3.3									2?			Alt: 1418.6-1429.5 mod arg, v. rare green clay; grey clay (?) veins or ribs between polar wallrock; local white clay veinlets rare pyrite blobs														
	82%	55%					1430.3		30 jt w/gray-white clay dip sheets																		
pyrite+ clay 1430															3									1-5%			
	14	32																									
							1432.0							probably fault with strong clay alteration and pyrite													
	1.7	0												LOSS													
	21%	0%																									
1440	14	40		variably brecciated aphyric flow? or volcanic breccia	flesh and very pale grey		1440.0			2?	2?			Alt: 1429.5-1438 1440.5 v. poor recovery could be all strong clay alteration locally with 5% pyrite	2					0	0	0		<1%				
	9.8	8.7							35 jt w/clay		0				1					tr							
							1445.0							Alt: 1438-1440.5 mod arg, poor recovery, few veins, traces green clay/chlorite at bottom								2					
	98%	87%																									
														Lith: 1438-1496.2 variably brecciated flow or volcanic breccia; clast-supported, very little matrix, very rare clasts <.2"; subangular-subrounded; clasts aphyric, v. rarely with color banding; v. rarely with rough brain-like texture														
1450	14	50					1450.0																				
	9.9	8.6																									
	99%	86%					1455.1							Alt: 1440.5-1491.2 weak arg; v. rare traces green clay/chl in fractures, mostly below 1471.5; v. rare hematite (?) staining; rare pyrite blobs <.5" across; v. rare calcite veins; rare clay+calcite ± py? veins below 1478															
1460	14	60					1460.0		35 jts																		
	9.9	8.6							40 jts															tr			
	99%	86%					1465.0		50 jt; 85 jt					Alt: 1491.2-1500.5 weak arg; mod hematite 1491.2-1493 decreasing downward, weak to moderate (1494.5-1498.5) green clay/chl orange-red calc+hem? + py 1494-1496.2 calcite veinlets														
1470	14	70					1470.0		50 jt																		
	10.0	7.5					1473.5	<10 grn clay	60-70 jts w/ grn clay; <10 jt ± clay													rare traces					
chl? + hem + calc ±py veins	100%	75%																									
							1478.6		20 jt w/clay + calc, 60° slicks; 25 jt w/clay, calc; 15 jt w/pale grn clay																		
1480	14	80																									
	9.5	6.7						5-25 grn clay + calcite																			
	95%	67%					1485.5																				
									65 jt																		
1490	14	90																									
	9.8	8.8			red		1491.2	25 calcite	50 jt w/hem					1491.2							2						
							1493.9		65 jt w/hem + grn clay + calcite										1		+tr						
chl+calc + py & ±hf?	98%	88%			red & green				30-40 jt w/ grn clay + calcite	1?		?		1496.2					2?			3 2		<1%			
				aphyric flow?			1497.7					1?															
1500	15	00																	1								

Newmont Gold Core Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 5/2/98

Area Dreamland **Coords**

Az/Incl 15°-1°/-62° to -67° **Total Depth** 2239 **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
1500	9.6	7.0	Chocolate?	Flow?	greenish grey	15 00.5			30 jt w/calc; 30 jt w/py + white clay	0	0	0	0	Lith: 1496.2 — 1540.8 brecciated aphyric volcanic, mostly angular clasts; clast-supported with very little matrix (usually green clay); some "clasts" have greyer interiors and tiny black specks (no clearly acicular hbl though)	0	1		0	0	1	0	2		<1%	0			
	96%	70%				15 09.0					1			1507.5								1						
1510	15	10				15 10.0			25± pyr + clay							2								1-3%				
pyritic clay	18	0																										
	45%	0%												LOSS														
	15	14		variably brecciated aphyric	very pale grey with rare green tints	15 14.0			50 jt w/clay; 15-20 jt w/blebs pale to clay irreg jts	0	1	0		Alt: 1500.5 — 1508.5 weak arg; rare to trace green clay in matrix; rare white clay or calcite veins subparallel to core axis	2					1	0	2		<1%	0			
	10.0	7.9									0				1					tr								
	100%	79%				15 19.0			30 jt w/calc; 65 jt w/clay ± marc					Alt: 1508.5 — 1514 mod arg, probably some green clay/chl?; 1-3% pyrite, minor white clay in fractures														
1520																												
	15	24				15 24.0		1" py vn	30 jt w/py?					Alt: 1514 — 1537.8 weak arg; local green clay in matrix; moderate green clay/chl along fractures at 1526.7 to 1529; by pyrite vein at 1524.5; rare white clay or calcite veins subparallel to core axis; local blobs of pyrite; local disseminated marc(?)								1-2%						
pyr veins chl + py	5.9	4.1				15 24.9			30 jt w/py + green clay; 25 jt w/grn clay		0									2				<1%				
	98%	68%																		0								
																				1%								
1530	15	30				15 29.5														tr								
	10.0	7.6							40-45 jt w/py white clay, calcite, dip slicks					Alt: 1537.8-1540.8 mod arg in more strongly brecciated zone; minor green clay														
	100%	76%				15 34.9			40 jt w/white clay																			
pyt + marc bx minor py						15 38.5		40-80 grn clay + py ± bleb sulfide			1			1537.5 Alt: 1540.8 — 1564.4 weak arg, negligible green clay except perhaps rarely in fractures; locally abundant pyrite (1-5%) associated with fractures; local disseminated flaky marcasite (?) and rare wispy marc (?) fractures at moderate-high angles to core axis	2								1-2%		<1%			
1540	15	40				15 41.2																						
	9.8	7.8		fractured aphyric flow?	variable pale and very pale grey (breccia matrix locally orange brown)			70 calc; 40 calc	75 jt w/grey clay + py; 25 jt w/calc + white clay		0			1540.8	1					0				tr	0			
	98%	78%				15 46.6			55 jt w/grey clay + py; 25 slicks; irreg jt w/grn clay ± py					Lith: 1540.8 — 1596.6 fractured and locally brecciated, aphyric volcanic; rare hints of banding; lower part too altered to identify								2							
1550	15	50																						<1%				
	9.9	8.8				15 53.0			30 jt w/calc, clay marc													1			tr			
pyr veins disseminated marc						15 54.9			70 jt w/clay, py, marc													2		33% <1%				
	99%	88%																										
1560	15	60				15 60.0			55-70 jt w/sul, marc, calc + white clay													1						
	9.6	8.8																										
	96%	88%				15 64.4			60 jt w/grey clay (?)			1 sulfide veinlets		1564.4 Alt: 1564.4-1596.6 mostly moderate arg with fault(?) contacts against weak arg; trace green clay in weak arg in upper part; sulfide veinlets, more pyrite and local marc associated with mod arg; arg includes grey clay as well as paler alteration	2					tr							
						15 68.4			55 jts w/grn marc, grey clay, py; 75° slicks				0	1568.5	1													
1570	15	70																										
	10.2	8.3				15 71.3			45 jts w/white clay, grn clay; jt w/py																			
	102%	83%				15 74.8		40 fract w/py, grn clay				1		1574.8	2					0				1-5%				
high py	15	80				15 78.9		35 py + clay	50 65 jts w/py ± clay			sulfide veinlets													<1%			
1580						15 80.5			80 jt w/py/clay; 25° slicks; jt w/py, clay, fract clay ± py															<5%			
	97	6.9																										
	97%	69%				15 84.2			jt w/grey clay, py; 10° slicks				0									0						
						15 87.5			40 jt w/calc clay; 70 jt w/clay; 60 flt? w/py, clay, 35° slicks					1587.5										<1%	tr			
less altered	15	90				15 88.9		35 py vein fract	50 jt w/calc; 35 jt w/py, clay		1?			1588.9	1													
1590	9.8	5.4				15 91.2			80 jt w/py, clay; 20 jt w/white clay; 60 jt w/grey clay ± py		0	1 sulfide veinlets		A1t: 1596.6-1602 v. weak arg with minor bleaching and disseminated pyrite; v. rare white clay + py veinlets	2							1			<1%			
	98%	54%				15 96.6			45 jts w/grey clay ± py; 40 jts clay; 40 jts py, white clay		1?		0	1596.6 Lith: 1596.6-1602 massive, apparently aphyric rock, no banding or phenocrysts	1										tr			
1600	16	00		massive aphyric	pale grey																							

Newmont Gold Core Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 5/7/98

Area Dreamland **Coords** _____

Az/Incl 15°-1°/-62°to-67° **Total Depth** 2239 **Contractor** _____

Footage	% Rec	RQD	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Alteration:	Met.: FeOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay	
1600	2.8	.8		aphyric	pale grey				80 jts ± py 55° slide	0	0	0	0		0	1		0	0	0		0	1		<1%	0?			
	40%	11%	very small sample			1602.0								5' core dropped out of tube and was ground up by drill? LOSS															
	16	07				1607.0																							
less altered	6.7	3.8							40 jts ± py	0	0	0	0	1602-1607 - probably same as rock at 1596-1602 but some chunks have sulfide veinlets like higher in hole; one chunk has variably altered, subhedral feldspar phenos .05-.2" and <.05" square pelor, quartz(?) phenocrysts in aphanitic weakly altered matrix (from pre-collar?)	0	1		0	0	tr?		0	0?		<1%	0?			
1610						1609.2			pyrite, clay																				
	84%	48%	Chocolate?			1611.0			90° slide, 50° slide, 10 silica, 60 jts ± py/pyr											0					1- 5%	<1%			
	16	15				1615.0			jts/grey clay ± py																				
	9.4	5.1		pale and very pale grey		1618.1			grey clay ± py, grey clay ± py, jts/clay ± py		1	local silicification ± kaolinite clay		Lith: 1607-1710.5 variably fractured, generally aphyric, aphanitic rock; local slightly darker, less altered rock at 1632 and 1636-1643 and sporadically below 1662 has tiny black specks which are very rarely acicular like hbl microphenos; pyrite is also present so black specks could be secondary; alteration color banding below 1693.5 (minor)												1- 5%				
high py																													
1620	94%	51%				1619.6			jts ± white clay											tr					<1%				
	16	25				1623.7																			tr	tr			
	9.7	5.4		aphyric flow?																									
						1628.6			jts/white clay ± py, calc, white clay																				
1630	97%	54%																											
						1632.8			jts w/clay ± calc ± py																				
	16	35				1635.6						clay ± calcite ± py											2		+1%	+1%			
	9.7	8.7												Alt: 1607-1609.3 weak arg possibly with weak green clay									1		tr	tr			
						1639.0																							
1640	97%	89%							30 jts/calcite ± py, 70 slicks					Alt: 1609.3-1619.7 weak arg but stronger than above and no apparent green clay; locally common sulfide veinlets or spotches of pyrite; local marcasite												0			
						1644.6			jts/calcite, jts/calcite, clay 85° slicks, jts/calcite, jts/calcite, clay 90° slicks, 30 slicks																				
	16	45																											
	9.7	9.5												Alt: 1619.7-1662 weak arg, variable fracturing with white clay ± green clay; locally common calcite veinlets or sulfide + clay ± calc veinlets (subparallel or moderate-high angle to core axis, respectively); local relict darker color of less altered rock bleached along hairline fractures 1657.2 1658.4 but not along sulfide + clay veinlets																
1650	94%	44%				1649.9			jts/calcite, clay ± py														2						
																							1						
	16	54.3				1654.9			jts/calc, all 3 ± py, jts/clay, more pale																				
	10.2	8.0																			1- black clay?				<1%	tr			
						1658.9			10-30 jts ± rusty clay ± py																tr	0			
1660	100%	78%							10-50 jts/gran clay/salt, 45 jt, 45° slide														2						
						1662.1								1662.0		tr							1						
														Alt: 1662-1691.5 (1687) v. weak arg with common patches of relict darker color; rare color banding due to variable alteration?; rare calcite and v. rare white clay veins															
	16	65.5																											
	10.0	9.3				1666.5																							
									65 jt																				
1670	100%	93%				1671.5																							
									<10 jt																				
	16	75.5																											
	9.7	6.9				1676.5																							
1680																													
	97%	69%				1681.5			10 jts w/clay ± py, 40, 70 ± jt																				
	16	85.5																											
	1.1	1.1				1687.0								1687-1691.5 LOSS															
1690	18%	18%				no sample																							
	16	91.5				1691.5																							
	8.8	7.7													0	tr		0	0	tr		0	1		tr				
						1694.9			30 jts ± py, 5 clay ± calc																	tr			
	104%	91%																								<1%			
1700	17	00				1700.0																							

Newmont Gold Core Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 5/5/98

Area Dreamland **Coords**

Az/Incl 150-1°/-62° to -67° **Total Depth** 2239 **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	fault	breccia	vein	gouge	Comments	Alteration: Silic	argillic	clay	prop	Sericite	Chlorite	Met.: FEOX	CO3	Sulfide	Mineralogy: Pyrite	Marcasite	Calc/Dolo	Clay
1700	96	84	Chocolate?	aphyric flow?	pale green and very pale gray	1704.0				0	0	0	0	Alt: 1691.5–1717 v.weak arg, weak grn clay mostly as veinlets; rare calc±white clay veins tapering off above and below (all above calcite vein); very coarse calcite vein contains wall rock frags <.5" and is nearly parallel to core axis; veins with green clay or white clay also commonly at 40° angles to core axis	0	tr		0	0	tr	0	1		tr	<1%			
	96%	84%																				2					
1710	17	10				1707.0								1710.5											0?		
	99	71				1710.5								Lith: 1710.5–1758 apparently aphyric, aphanitic rock, commonly with color/alteration banding; no unaltered sections to check for abl															
	99%	71%				1714.4								1717.0 microphenocryst; banding rarely has contorted appearance or boudin-like structures; probably same unit as above		0?				1								
1720	17	20				1718.9								Alt: 1717–1767. weak grn clay, no(?) arg; locally speckled with green clay, locally darker green clay or chlorite in some fractures; rare black pyrite(?) blobs up to 2" long parallel to color banding; very rare white clay veinlets; marc±white clay±calcite veinlets below 1756 – very rad and nearly parallel to core axis											tr			
	98	87				1723.6																			0		
	98%	87%				1725.0																variable 1-2 @ <2'					
1730	17	30				1730.0																					
	10.0	8.6																									
	100%	86%				1735.0																					
1740	17	40				1740.0																					
	9.8	8.1																									
	98%	81%				1744.9																(mostly 2)					
1750	17	50				1750.0																					
	9.9	8.7																									
	99%	87%				1754.3																					
						1758.2								1758								1					
1760	17	60												Lith: 1758–1816 apparently aphyric, aphanitic rock with very rare or absent color banding; very fine speckled texture due to alteration (?) is common; probably same unit as above														
	9.9	7.5				1763.2																			<1%		
	99%	75%				1766.4								1767 Alt: 1767–1778.7 weak arg and trace grn clay with arg decreasing and grn clay increasing away from breccia at 1774.4; marc±calc±white clay veins above breccia but grn clay or white clay±calc veins below	tr					tr								
1770	17	70				1769.6																					
	9.2	8.4																									
	92%	84%				1774.2								1774.4–1" thick breccia with rounded wall rock clasts up to .4" in sulfide+clay matrix, greenish black possibly with trace qtz, cuts grn clay veins in wall rock													0		
1780	17	60				1780.0								1778.7		0?				1							
	9.2	8.0												Alt: 1778.7–1816 weak green clay and negligible(?) arg; commonly speckled with green clay/chl and also in fractures, very rare py blobs up to 1.5", rare calcite veins generally at low angle to core axis								1							
	92%	80%				1785.0																(local 2)					
1790	17	90				1790.0																					
	9.5	8.6																									
	95%	86%				1794.7																					
1800	18	00				1800.0																					

Lithology: marc vnlts; calcite vein; marc+clay+calc vnlt; marc+clay+calc vnlt; breccia

Hole# RS-423	**Newmont Gold Core Form**	**Az/Incl** 15°-1°/-62° to -67°	**Page**
Logged by G. Langstaff	**Area** Dreamland	**Total Depth** 2239	8 of 12
Date 5/5/98	**Coords**	**Contractor**	

Column headings: Footage | % Rec | RQD | Litho: Formation, Rock type, Color | Au oz/st | Ag oz/st | Graphic | Structure: Attitudes, fault, breccia, vein, gouge | Comments | Alteration: Silic, argillic, clay, prop, Sericite, Chlorite | Met.: FEOX, CO3, Sulfide | Mineralogy: Pyrite, Marcasite, Calc/Dolo, Clay

Core runs

Footage (run from)	Recovery / RQD (ft)	% Rec	RQD
1800	6.5 / 4.5	65%	45%
1810	1.4 / 0	23%	0%
1816	4.9 / 1.4	89%	25%
1821.5	8.0 / 4.5	94%	53%
1830	7.2 / 1.9	96%	25%
1837.5	5.3 / 2.7	88%	45%
1843.5	9.9 / 8.7	99%	87%
1853.5	10.1 / 9.3	96%	86%
1864	6.7 / 4.0	84%	50%
1872	8.3 / 5.2	104%	65%
1880	8.0 / 4.9	94%	58%
1886.5	3.6 / 1.0	55%	15%
1895.0	5.3 / 1.6	76%	23%

Depth marks: 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900

Sample intervals (Au column)

1804.0, 1810.4, 1816.0, 1818.3, 1823.3, 1828.8, 1831.8, 1833.4, 1835.7, 1839.8, 1845.4, 1851.0, 1856.5, 1861.2, 1864.5, 1867.7, 1871.0, 1873.7, 1877.7, 1880.0, 1883.4, 1887.8, 1891, 1891-1893 LOSS, 1894.2, 1895.0, 1898.3

Litho

- Formation: Chocolate?
- Rock type: no banding (1800–1810); aphyric flow? w/rare banding (1816–1868); aphyric flow? w/o banding; aphyric flow? w/banding; aphyric breccia texture
- Color: pale and very pale greenish grey; very pale with rare green tint; mostly pale grey green; pale and v. pale grey green; v. pale gr-green; mostly pale grey green

Structure / Graphic notes

calc; jts w/white clay; jts w/gn clay; jts w/calc, white clay, 70° slicks; jts ± white clay; jts ± white or gn clay; jts ± gn or white clay; sulfide; sulfide gn clay; clay, gn clay ± py; jts w/gn clay, 40° slicks; jts w/calc; jts w/py, calc; jts w/grey clay; gn clay ± py; py; jts w/white clay; jts w/gn clay; calc; jts w/calc, gn clay; jts w/calc, white clay; LOSS; bladed calcite; lots of fractures; calc. matrix; clay matrix

Margin notes: sil.? bx; breccia/py veins; stronger arg + py veins; sil.? bx w/ white clay; stronger arg; calcite bx; bladed calcite vein

Comments

1804-1807.5
LOSS

1810.4-1819.9
LOSS

[1816]
Lith: 1816 - 1868
apparently aphyric, aphanitic rock with rare banding - commonly at low angle to core axis to 1854.5, contorted at 1854.5 to 1857.5 and then at moderate angles below; grey rock with black specks (no acicular hbl) associated with more arg alteration at 1818.5-1823.5 has pyrite and may not be relict; probably same unit as above

[1832] [1832.5] Alt: 1816-1823.5
weak green clay; weak arg locally with pale veins cutting grey, not green rock; green clay/chl veins and very rare white clay, both ± pyrite; or is bleaching also related to green clay

[1839.2] Alt: 1823.5-1832.5
weak green clay; very rare arg or just bleaching; green clay in fractures; v. rare white clay + py veinlets; fractured zone with white clay, possibly silicification at 1830

Alt: 1832.5-1840
weak green clay, negligible(?) arg, local weak silicification (?) in breccia forming harder grey fragments at 1832.5 & 1835.5; sulfide veins with dark clay(?), common green clay veins, v. rare white clay in upper part

Alt: 1840-1860.6
weak green clay, negligible(?) arg; green clay veins; v. rare calcite veins; very minor, rare breccia with green clay matrix

[1860.6]
Alt: 1860.6-1873.5
moderate arg(?) (softer) and weak green clay (not very green), possibly some weak silicification between 1868 and 1871; alternating harder and softer rock [1867.5] parallel to color banding; pyrite [1868] veins, green clay veins, very rare white clay

[1873.5] Alt: 1873.5-1899.5
[1873.7] gradation from soft and pale above to soft and green below, within breccia; pervasive green color interpreted as moderate green clay w/o arg; breccia [1877.4] matrix also changes from clay to calcite. coarse calcite in breccia matrix and veins; rare green clay veins, v. rare white clay veins but also rare white clay in breccia matrix; v. rare pyrite w/calcite below breccia

Lith: 1868 - 1883
apparently aphyric, aphanitic rock with no or inconspicuous banding; too altered to be sure of texture but probably same unit as above; common breccia probably hydrothermal or fault

Lith: 1883 - 1895
contorted banding, probably same unit as above
[1883] - calcite vein cut by bx with green clay
1894.5-1895: >2" calcite vein w/4" calcite vein & breccia above, vuggy zone of bladed calcite in vein in breccia 60° to core axis; suggests calcite-filled breccia above 1877.4 is hydrothermal

Alteration / Met. / Mineralogy entries

- 1800: Silic 0; argillic 0?; prop 0; Sericite 0; Chlorite 1; FEOX 0; CO3 1, 2; Pyrite tr
- 1808: argillic 0?; Chlorite 1; CO3 2, 1; Pyrite tr
- 1816: Silic 0; argillic tr; Chlorite 1; CO3 0; Pyrite tr
- 1825: argillic 0?
- 1831–1838: Silic 1?, 1, 0, 1?, 0
- 1840: CO3 1, 0
- 1845: CO3 1
- 1861: argillic 2
- 1864: CO3 0
- 1868: Silic 1?
- 1872: Silic 0; CO3 1, 2, 3
- 1874: argillic 0?; Chlorite 2?
- 1880: Chlorite 1; CO3 2
- 1890: Marcasite tr

Newmont Gold Core Form

Hole# RS-423 | **Logged by** G. Langstaff | **Date** 5/7/98

Area Dreamland | **Coords**

Az/Incl 15°-1°/-62° to -67° | **Total Depth** 2239 | **Contractor**

Footage	% Rec	RQD	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	fault	breccia	vein	gouge	Comments	Alteration: Silic	argillic	clay	prop	Sericite	Chlorite	Met.: FEOX	CO3	Sulfide	Mineralogy: Pyrite	Marcasite	Calc/Dolo	Clay
1900	19	02	Chocolate?	aphyric flow? w/ local banding & brk texture	mostly pale grey green	19 02.0		80 calcite veins + more/py 20 40	jt w/ white clay jts	0	0	0	0	Alt: 1879.5 - 1945 weak green clay, negligible(?) arg but locally paler color; rare fractures with wispy green clay or darker chlorite(?); rare calcite veins up to 2+" thick locally with bladed textures (1894, 1897)	0	0		0	0	1	0	2		tr	0		
	7.7	5.0							60 jt w/ calc																		
	96%	63%				19 04.9			25 jts + calc ± green clay																		
1910	19	10				19 10.0			jts w/ calc & dk clay jt																		
	9.6	7.0							60 jt w/ grn clay calc, ss slicks																		
	96%	70%				19 15.0			jts w/ calc grn clay																		
				aphyric flow? w/ local banding and brk texture	mostly v. pale grey green				jts ± calc																		
1920	19	20				19 20.0			jts																		
	9.6	5.9							55-45 jts																		
	96%	59%				19 24.8			jts w/ calc ± grn clay																		
				aphyric flow? with rare faint banding and brain texture	pale and very pale grey green				10 jts w/ calc ± white clay																		
1930	19	30				19 30.0		20 bladed: calcite + py																			
	9.3	7.1							35 jt w/ calcite, white clay					Alt: 1945 - 1956 weak green clay as above but no calcite veins and has fractures/veins with white clay; fractures with green clay common; dark specks could be chlorite													
	93%	71%				19 34.8			60 jt w/ py grn clay ± grn clay																		
				aphyric flow? banding and brain texture	mostly v. pale grey green				25 jt w/ calc					Alt: 1956 - 1962 softer, moderate green clay and clayey breccia matrix clasts of calcite and pyrite, in breccia clay-rich breccia has contacts with more intact rock parallel or <30° to core axis														
1940	19	40				19 40.0			20 jt																		
	3.8	1.4							60																		
	69%	25%							40 jts																		
	19	45.5				19 45.0								1943.6 - 1945.1 2055													
	2.8	1.7		spotted					45																		
	62%	38%							60					1948.2													
	19	50		aphyric flow? w/ bandings					jts w/ white clay ±					1948.5 - 1950 2055													
1950	.7	0				19 50.0			30 60° slicks																		
	23%	0%																									
	19	53				19 53.0								1951.7 - 1953 2055													
	3.2	.6							45 jts ± py grn clay					1954													
	80%	15%		speckled					70																		
	19	57				19 56.0			60					1956													
	4.9	2.4		aphyric breccia	mostly pale grey green	19 58.1			25 fault? or hydro? w/ py of box w/ py		1			Lith: 1956 - 1962 fault or hydrothermal breccia with clasts of massive aphyric rock, banded aphyric rock						2?		3			12			
1960	98%	48%							35 fit: at bottom? at intersection																		
	19	62				19 62.0			15 jt w/ py					1962								2					
	2.8	1.5							jt		0									1		1					
	80%	43%							35-40 jt w/ white clay 50					Lith: 1962 - 2067 apparently aphyric rock with local banding; banding generally planar, parallel and rarely contorted													
	19	65.5																									
	9.3	5.1				19 66.8			40 jt w/ white clay 50															tr			
									35 jt w/ calc & sulfides																		
									15 jt w/ py																		
1970	103%	57%				19 71.6			10 jt w/ white clay + py					Alt: 1962 - 1975 weak green clay; rare veins of white clay, of calcite with green selvedges or of green clay; some spots of green clay, too													
									30 jts ± py, ± grn clay																		
									25																		
	19	74.5																									
	9.6	8.0		aphyric flow?	pale and v. pale grey-green (banded)	19 76.3		35 calc	5 jt w/ py, grn clay, calc													0					
								60	70 jts w/ grn clay ± calc																		
									55 jts w/ grn clay ± calc																		
									45 jts w/ py, grn clay																		
1980	96%	80%				19 81.0		35 calc	80 jts w/ py grn clay ± calc 35° slicks																		
								75	65																		
	19	84.5																				1					
	10.0	6.5				19 86.0			45-55 jt w/ py grn clay																		
									60 jt w/ calc grn clay 35° slicks																		
									50																		
1990	95%	62%				19 91.3			55 jt w/ grn clay ± calc																		
								60	55 jts w/ grn clay ± calc ± py																		
								35	25																		
	19	95						35	45 fract w/ grn clay jt													0					
	9.9	7.7				19 96.9		210 calc + more w/ white clay calcite more	70 jts w/ py, grn clay, ss slicks																		
	99%	77%						55	55 grn clay + 80° on clay													1					
2000						19 99.4		65	65	17	1			1999.3													
										0	0																

Newmont Gold Core Form

Hole# RS-423 **Az/Incl** 15°-1°/-62°to-67°

Logged by G. Langstaff **Area** Dreamland **Total Depth** 2239

Date 5/12/98 **Coords** **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FeOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
2000																											
	20	05	Chocolate?	aphyric flow?	pale and v. pale grey green	20	05.0																				
	4.5	1.8																									
	90%	36%																									
2010	20	10				20	09.7							2009.7													
	9.9	6.7			v. pale sm-gray											2?											
	99%	67%				20	13.6			1?	1?										1		tr				
											0										2						
						20	16.8			1?	1?								2								
											0			2016.6		0			1		1						
2020	20	20			pale grey, green and yellow-green																						
	2.2	1.2				20	20.0																				
	110%	60%												2021.9 - slicks on wavy green clay in irreg joint suggest reverse slip; jt below apparently has dextral slip														
	20	22								1?	1	1															
	7.2	4.3				20	23.8			0	0	0		2023.3							2						
	90%	54%																									
						20	28.7														1						
2030	20	30			pale and very pale grey green																						
	9.9	8.4				20	32.3														2						
	99%	84%																									
						20	37.4														1						
2040	20	40																									
	9.5	6.9				20	42.2			1?	1			2042.2									tr				
	95%	69%												2043.2		2											
						20	46.3							2046.3													
														Alt: 2042.2 - 2046.3 weak green clay but softer than above so possibly with moderate arg - still pale grey-green; gradational boundaries; possibly related to fault in upper part; rare veins of white clay ± py, green clay ± py, calcite ± green clay		0												
2050	20	50																									
	9.0	5.5				20	51.4																				
	90%	55%																									
						20	56.7							2056.3													
					v. pale grey-grn																0						
														2058.6													
2060	20	60																			1						
	10.0	5.2				20	62.3							Alt: 2046.3 - 2069.5 weak green clay; minor veins of green clay or calcite or both, rare white clay veins													
	100%	52%																									
						20	67.4							Alt: 2069.5 - 2072.8 more green clay in breccia matrix but still weak overall; slightly softer so may include weak arg; more calcite ± ; rare white clay or calcite veins													
														2067													
2070	20	70												2069.3													
	9.7	4.4								1?						1					2						
	97%	44%				20	72.7							2072.8													
														Lith: 2067 - 2213 more commonly banded, apparently aphyric rock; banding generally parallel but commonly not planar due to irregular alteration (?) contacts; convolutions (open "folds") cause local dip reversals; very rare (1/50') equant, subhedral, altered (soft) feldspar (?) phenocrysts or xenocrysts .05"		0												
						20	76.0														1						
2080	20	80																									
	9.8	8.4				20	80.0																				
	98%	84%																									
						20	85.2																				
														Alt: 2072.8 - 2197.5 weak green clay, negligible arg?; locally darker or more abundant green clay in banding or locally more abundant fractures; some green clay veins have grey selvedges <.2" thick; rare calcite, white clay, white clay + calcite or calcite + green clay veins; bladed calc in white clay at 2171; veins very rarely have pyrite													
2090	20	90		aphyric flow?	pale and very pale grey green																						
	10.2	5.5				20	90.0																				
	102%	55%																									
						20	95.2																				
2100	21	00												2099-2100: small breccia veinlet <10° to core axis, matrix of chlorite? + calcite							2						

RECORFIELD.DWG Revised 2/17/98

Newmont Gold Core Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 5/14/98

Area Dreamland **Coords**

Az/Incl 15°-1°/-62° to -67° **Total Depth** 2239 **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
2100	9.4	6.0	Chocolate?	sphyrite flow?	pale and very pale grey green	2100.9			15 jts w/grn clay ± calc 70 ± 60° slicks	0	0	0	0		0	0		0	0	1	0	2 1		tr				
	94%	60%																									
						2106.6		40																			
2110	21	10							35 grn clay + calc 80 + white clay grn clay																		
	8.8	3.3							55 jts w/white clay 35 60° slick																		
white clay veinlets	100%	38%				2112.7			70 grn clay white clay ± jts					2112.9 - calcite younger but in same fractures as white clay													
						2115.7			65 jts w/grn clay																		
	21	18.8							20 white grn clay																		
2120	10.1	8.1				2119.7			45 jts w/calc grn clay 60° slick																		
									65 jt																		
	99%	92%							70 jt																		
						2125.8																					
	21	29																									
2130	10.1	8.0							45 jt																		
						2131.9			65 jt w/calc 30° slicks																		
	101%	80%							85 jt					2132.5 - calcite vein with slicks cuts green clay + calcite vein at lower angle to core axis													
						2136.9		30	45 jts ± grn clay 45																		
	21	39							20 jts/grn clay + calc																		
2140	9.8	7.2							25 60 jts w/ grn clay																		
						2142.5																					
	98%	72%							60-70 jts w/ grn clay																		
						2147.6		40	20 grn clay 25																		
	21	49						calc	calc w/ 40° slicks 25																		
2150	8.9	7.5							20 jts w/ grn clay																		
						2152.6																					
	89%	75%																									
						2157.7		40	65 jts w/ grn clay 40 25 jts w/ grn clay 55																		
	21	59							10																		
2160	5.8	2.7							45 calc 60 grn clay 25 jts w/ grn clay 25																		
	83%	39%																									
						2163.3																					
	21	66						white clay	white clay 45																		
	7.0	3.3							25 jts/calc + white clay																		
						2168.1		40	45-50 jts																		
2170	93%	44%						blade? clay + white clay	50 jts/grn clay 60 grn clay																		
	21	73.5				2173.5		70																			
	9.9	6.0						20	70 jts ± grn clay																		
									60																		
	99%	60%				2178.5		<10	60 jts ± grn clay																		
2180									25 jts/calc white clay 50° slicks													2					
						2181.2			70 jts/grn clay + py 70 jts w/calc																		
	21	83.5							25 jts ± grn clay																		
	6.2	5.5																				1					
	95%	85%				2186.1			65 jts/ white clay 65 jts/ grn clay 0° slicks																		
2190	21	90							22 jt																		
	10.0					2191.4			45 jts/calc 70 ± grn clay 40					Alt: 2197.5-2198.8 paler but not softer, presumably still weak green clay; veins of calcite ± white clay ± marcasite ± pyrite													
									30 40																		
	100%								22 jts/calc 70																		
						2197.5		60	40 jts w/grn clay 30° slicks					2197.5								2					
white clay + veinlets					v. pale green			calc 50	60 jts w/ white clay					2198.8								1					
2200	22	00				2200.0			45																		

grn clay <10 calcite + white clay

Newmont Gold Core Form

Hole# RS-423 **Az/Incl** 15°-1°/62° to -67°
Logged by G. Langstaff **Area** Dreamland **Total Depth** 2239
Date 5/14/98 **Coords** **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	decalcify	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
2200 (blended calcite + white clay)	9.8	5.7	Chocolate?	aphyric flow?	pale and very pale grey green	22 01.2		>25 white clay + bladed calc	30-35 jts w/ calc; 60 jts; 40 jts + calc; 40 jts ± calc; 65 jts w/ calc; 40 jts; 10 shears; 80 white clay; 50-70 jts; 55 glass-like jt plane					AlT: 2198.8-2213.0 weak green clay; paler toward bottom; rare veins of green clay or calcite or white clay	0	0		0	0	1		0	1		tr				
	98%	57%				22 06.9								AlT: 2213-2214.5 very crumbly, moderate green clay with more pyrite and calcite could be mostly fault gouge														
2210		22 10												Lith: 2213-2214.5 clayey fault breccia or conglomeratic sandstone with sand-size phyllite(?) grains and white feldspar(?) supported in aphanitic											0?				
	94	2.2				22 13.0								2213.0 matrix; certainly fault breccia in						2			2		1%			
	94%	22%	ALS	carbonaceous calcareous phyllite	black	22 14.5		250°	35-50 jts	3	3?	2?	0	2214.5 part but doesn't look at all like overlying volcanic	0	0				0	2		N/A		2-5%			
2220		22 20				22 21.1		40; 50	65 jts					Lith: 2214.5-2221.1 black, carbonaceous, calcareous phyllite, folded, fractured, and locally brecciated														
	9.6	5.9	JK?	granitoid? dike	pale brownish grey			2 qtz vn; qtz + fold? vn	45 jts w/ grey clay + talc; 35					2221.1 Lith: 2221.1-2226.3 dike with intrusive upper contact; fractured and locally brecciated; seems to have fine granular rather than aphanitic texture; no phenocrysts; irregular qtz +	1					1			N/A		1-2		<1%		
	96%	57%				22 26.3		60	70 jt w/ c	2				2226.3 chlorite(?) vein could be folded; possibly JK granitoid rather than volcanic; faulted lower contact														
			ALS	carbonaceous, calc. phyllite	black				65 jt	0					0					0	2		N/A		x-5%			
2230		22 30				22 30.0			60; 70 jts					Lith: 2226.3-2239 black, carbonaceous, calcareous phyllite with minor, paler, laminated, interbedded metasiltstone(?)														
	7.0	1.0						qtz vn	35 jts; 70												0							
	78%	11%				22 34.7		calc + talc; qtz vn																				
		22 35				22 39.0		40-50																				
2240														T.D. 2239														
														AlT: 2214.5-2221.1 & 2226.3-2239 minor decalcification below volcanics and dike; some older quartz veins, abundant calcite veins (commonly as ladder veins, also in small stockworks, breccia); vuggy calcite vein 3" thick may be Tertiary																
2250														AlT: 2221.1-2226.3 weak arg and green clay; pale but not as pale as bleached volcanics; some stronger bleaching along fractures and calcite veinlets; abundant wisps, veinlets, and fracture-filling green clay; significant pyrite and calcite; quartz vein with green clay/chlorite may be pre-Tertiary and is cut by calcite																

Hole# RS-423 **Newmont Gold Rotary Form** **Az/Incl** _____ **Page** 1 of 12

Logged by G. Langstaff **Area** _____ **Total Depth** _____

Date 6/10/98 **Coords** _____ **Contractor** _____

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Alteration	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
		mixed colluvium/alluvium?	brown, yellow, and v. pale grey																1	1					
10																				0					
20											pebble-size chips mostly of underlying rock, some clay in samples; some chips have clastic textures - breccias														
30			brownish grey								30-65: very similar to unit at 105-225; crystal vitric-ash tuff with rare feldspar up to 3mm, black things up to 4mm; commonly welded to foliated texture; local clastic textures could be due to brecciation	0	0		0	0	0				0				
											foliated and clastic textures														
40											dominately clastic textures														
																			2						
50			reddish-brown								foliated chips														
											black things, foliated chips														
60											3mm black thing														
			medium grey																t						
70											subhedral-anhedral feldspar with white core, thin clear rim														
			brown								foliated shards, black things, vitreous feldspar 3mm anhedral, ate removed sample from 70-75 for reference								1						
			grey-brown								foliated shards, irregular, 4mm black things, blocky, euhedral vitreous feldspar 2mm and smaller anhedral white and vitreous feldspar fragments														
80																			0						
											some clastic textures														
	Fp-gf (mnb) not tuff - welded appearance due to devit. and alteration; crystal-vitric ash tuff		medium grey																						
			v. pale grey								85-105: locally clayey (base), matrix- and clast-supported conglomeratic sandstone with subangular to subrounded coarse sand to granules in finer sandy matrix, probably has pebbles or larger clasts of unit below		1									1			
90	Scn	conglomeratic sandstone?																							
			brown										0						t			0			
100																									

Newmont Gold Rotary Form

Hole# RS-423
Logged by G. Langstaff
Date 6/10/98
Area
Coords
Az/Incl
Total Depth
Contractor

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
	Sen											0	0		0	0	0	t	0		0			
	Fpa-f (lmb)	locally brecciated crystal-vitric ash tuff with rare feldspar-qtz (glass shards generally not evident). black things could be breccia or conglomerate	dark brownish grey								removed chip with relict shard texture from 105-110 for reference chip with relict shards													
110											sparse, altered phenos; weak foliation													
			v. pale grey										1					0			t			
120			brownish grey								clay altered phenocrysts ~1mm in foliated chip		0								0			
130			dark grey								105–225: could be same as unit at 240-270; crystal-vitric ash tuff with <5% crystal fragments of feldspar and qtz; also has <1% black things (xenoliths); glass shards visible on one chip at 105-110 and suspected on several others; parallel foliation of many chips suggests much of unit has been at least weakly welded; local clastic textures could be interbedded units or local brecciation.													
140											some foliated chips qtz pheno?													
150			reddish grey								irregular black things, white feldspar, foliated chips well foliated chip with broken (?) crystal lapilli ≤.05mm and black thing 3mm								1					
160											round qtz ~1mm irregular black thing 4mm clear, vitreous feldspar 3mm common foliation													
170			pale to v. pale grey								some clastic textures mostly clastic textures		1						0		1			
180											blocky, clear vitreous feldspar 2mm, in white chip some clastic textures													
190	Fp-f (lmb)	heavily welded	dk grey w/red								euhedral white feldspar? ~1mm		0							1	0			
			v. pale grey										1								1			
			dk grey w/red								black things 1-2mm, white feldspar up to 2mm some foliated chips		0								0			
200																								

Newmont Gold Rotary Form

Hole# RS-423
Logged by G. Langstaff
Date 6/10/98
Area
Coords
Az/Incl
Total Depth
Contractor

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	breccia	vein	gouge	Comments	Alteration: Silic	argillic	clay	prop	Sericite	Chlorite	Met.: FeOX	CO3	Sulfide	Mineralogy: Pyrite	Marcasite	Calc/Dolo	Clay
	Fp-f (mb)	crystal-vitric ash tuff	dark grey with red								<1mm rounded? qtz black thing, vitreous feldspar chip with euhedral white and clear vitreous feldspar 1-2mm, and black thing	0	0		0	0	0	1	0	0				
	c?Sen	breccia?	very pale grey								225-240: clast- and matrix-supported breccia or conglomeratic sandstone with angular to subrounded clasts; could be polymict as clasts vary from white to grey but maybe not, local foliated textures dominately clastic textures		1					0		t				
	Fp-g (mb)	crystal-vitric ash tuff of feldspar, qtz	dark grey with red								clear vitreous feldspar 2mm, rounded? 240-270: may be brecciated, aphanitic with black things (xenoliths?) up to 7mm, subhedral clear or white feldspar 1-3mm, rare round qtz? up to 1.5mm; could be tuff like unit at 105-225. round qtz 1.5mm common clastic textures		0					1	1	0				
			v. pale grey								subhedral white feldspar 1mm black thing 2mm clear vitreous and white feldspar 1 and 2mm		1					0	2	1				
			dark grey with red								white feldspar pheno 3mm irregular black thing 7mm		0					1		0				
	c?Sen	conglomeratic sandstone	v. pale grey								270-345: clast- and matrix-supported conglomeratic sandstone with angular to subrounded volcanic clasts; could be polymict but most clasts have about same degree of alteration (color = pale grey)		1					0	3	t				
			mottled grey										0					t	2	0				
			pale v. pale grey									1	1					0		1				

Footage: 210, 220, 230, 240, 250, 260, 270, 280, 290, 300

Newmont Gold Rotary Form

Hole# RS-423 | Logged by G. Langstaff | Date 6/10/98 | Area | Coords | Az/Incl | Total Depth | Contractor

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FeOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
	Ssp (fewer pebbles than above)	Conglomeratic sandstone									more massive chips and fewer with clastic textures	1/2	1		0	0	0	0	0					
310			pale and very pale grey																					
320											recognizable clastic textures								1					
330			mottled dark reddish grey and pale grey									0	t					1						
340											definitely clastic								2					
350			grey								lots of vein calcite to 365 rare clastic texture	1?	1					0	1					
											clastic texture (minor?)								2					
360			mottled pale dk grey								345-423: locally brecciated aphanitic rock, commonly aphyric? but locally with 2-3% euhedal-anhedral feldspar 1-2mm		t						1					
370		Feldspar-phyric (Fp-g?; f (mafic?))	pale and very pale grey										1											
380											clear, vitreous, anhedral and subhedral feldspar? up to 2mm	0							2					
390			dark greyish red															1						
400											euhedral-subhedral white feldspar 1-2mm, qtz?													

Hole# RS-423 **Newmont Gold Rotary Form** **Az/Incl** _____ **Page**

Logged by G Langstaff **Area** _____ **Total Depth** _____

Date 6/10/98 **Coords** _____ **Contractor** _____ 5 of 12

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
	Fp-2; f (hnb?)	feldspar-phyric					?				big, more altered chips suggest fault	1/2 ?	1					0	1		1	0		
			v. pale grey																0					
410											clastic textures and vitreous & white feldspar													
			dark grey								dominantly clastic texture but some vitreous and white feldspar? possible hnb	0	0					2			0			
420											dark grey chips with euhedral-subhedral, white feldspar ~1mm													
											423 ~812; aphanitic with 2±1% euhedral-subhedral mafic phenocrysts of biotite (usually ~.05mm) and hornblende (usually ~1mm) and very rare euhedral 1-3 mm feldspar; hornblende seems to be > biotite in most samples but maybe bi > hbl locally		1					0			1			
430											calcite veins								1					
																			3					
440											clay-altered hbl & bi ± pyrite cores								0					
450			pale grey								clay-altered hbl & bi													
460	Fp-4, 6	(feldspar)-hornblende-biotite-phyric																				t		
																						0		
470											clay-altered hbl & bi													
																						t		
											conspicuous clay-altered phenos ± pyrite													
480			medium grey								brecciated, rare hbl and bi phenos - not altered							t	2		0	0		
																		0	0		1			
490			pale grey								hbl & bi mostly replaced by pyrite								1					
																			0					
500																								

RSCROTFEN.DWC Revised 3/17/98

Newmont Gold Rotary Form

Hole# RS-423
Logged by G. Langstaff
Date 6/10/98
Area
Coords
Az/Incl
Total Depth
Contractor

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	fault	breccia	vein	gouge	Comments	silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
												0	1		0	0	0	0	0		1			
510																								
520																			1					
530		Fp-hbl (w/rare f?)																	0					
			pale grey																					
											v. rare clay altered phenos	1?												
540							7														2			
											LCM													
											545-550 removed chips with hbl+bi in altered rock for reference	0									1			
											some hbl & bi still black in white rock													
550											LCM													
											euhedral white feldspar phenos 3mm long													
		(feldspar)-hornblende-biotite-phyric											0						1		0			
			medium grey								hbl & bio sparse and ≤.05mm								1					
560																			2					
											hbl & bi phenos generally unaltered													
570											LCM		1						1		1			
																			0					
580																								
			pale grey																1					
											hbl & bi replaced by clay ± py													
590																								
											rare phenos													
600																								

Newmont Gold Rotary Form

Hole# G. Langstaff
Logged by G. Langstaff
Date 6/10/98
Area
Coords
Az/Incl
Total Depth
Contractor

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
	Fp-h,b (w/rare feldspar)	(feldspar) - biotite - hornblende dyke	pale grey								hbl with pale green cores and white rims Fp-h,f (numb) chips from above? biotite replaced by pyrite?	0	1		0	0	0	0	2		1				
610			medium grey										0									0				
620											LCM								t							
630											removed chip with feldspar, hbl, bi phenos for reference tabular 2mm feldspar relatively unaltered with ~ 1% biotite and possibly hornblende phenos ≤ 1mm															
640											more biotite than hornblende															
650											euhedral, 1.5mm, vitreous white feldspar mafic phenos almost 2mm															
660											chunky, 1mm, white feldspar?								3							
670			medium grey with trace red																							
680											hbl & bio phenos sparse and <1mm LCM								2							
690			pale grey										1						0			1				
700																			1							

Newmont Gold Rotary Form

Hole# RS-423
Logged by G. Langstaff
Date 6/10/98
Area
Coords
Az/Incl
Total Depth
Contractor

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
	Fp-h,b (rare feldspar)	(feldspar) - biotite - hornblende - phyric	grey and pale grey								v. rare phenos	0	1		0	0	0	0	1		1			
											hbl & bi replaced by white clay													
710																								
																			2					
720											spare hbl & bi replaced by white clay													
											v. rare phenos													
730											calcite + pyrite vein													
											rare phenos													
											hbl & bi phenos replaced by white clay													
740											v. rare phenos								0					
											few chips with recognizable phenos													
750											hbl and bi replaced by white clay													
											hbl and bi generally replaced by white clay								2		t			
760													0								0			
																			3					
770																								
											euhedral 1.5mm grey-white feldspar													
780											vein calcite													
			median grey								785-790 - removed chips with variably altered hbl+bi for reference													
790											variably altered hbl, bi phenos; 1.5 mm chunky feldspar?													
																			2					
800																								

Newmont Gold Rotary Form

Hole# RS-423 **Az/Incl** _____ **Page** 9 of 12

Logged by G. Langstaff **Area** _____ **Total Depth** _____

Date 6/10/98 **Coords** _____ **Contractor** _____

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
	Fp-hyb	(feld)-bi-hbl-phyric	medium grey									0	0		0	0	0	0	2		0			
											biotite .05-1 mm, hbl 1-1.5 mm, variably altered													
											.05-1.5mm hbl, some weakly clay-altered							1						
810			greydred								hbl 1.5mm													
											812-858: porphyritic-aphanitic with generally euhedral 2-3mm feldspar, rarely anhedral; round and irregular black things (xenoliths?) up to 1cm; apparently no mafic phenos; common granular texture may be due to devitrification - probably weakly welded shards possible quartz							2	3					
820		crystal-vitric tuff of black things	brownish-red								7mm xenolith with abundant, random, plag? microlites							3	2					
											825-830 - removed chips for reference													
											black thing, 3mm vitreous feldspar, subhedral / round qtz <1mm													
830											black things, white and vitreous feldspar													
											blocky, clear, vitreous feldspar 2mm													
840											irregular black thing ~1cm, with .05mm feldspar phenos?													
																			3					
850											small-scale breccia texture; round black thing 3mm euhedral, clear, vitreous feldspar 2-3mm anhedral, clear, vitreous, feldspar or qtz ~1mm zoned tabular feldspar; carlsbad-twinned elongate feldspar													
											858-864: porphyritic-aphanitic with euhedral 1-2mm, 2-3%? tabular white and clear vitreous (in some chips) feldspar, a few multiple grains (intergrown); rare or no matrix, possibly trace tiny hornblende; brecciated; shapes of feldspars are distinct from units above and below								2					
860			dark grey								calcite vein but grey chips also have mab							1						
											blocky, clear, vitreous feldspar, 2mm across black xenoliths 2mm with 1mm white feldspar looks like tuff above							3	3					
870		tuff?	brownish-red								biotite <1mm, white feldspar ~1mm, clastic textures													
											white feldspar 2-2½mm long							2	2					
880		bi-feldspar-phyric									864-892: monomict breccia or brecciated aphanite rock with sparse white and vitreous feldspars 1-2mm, rare black things <4mm and possibly other xenoliths; locally matrix-supported textures with subrounded or subangular clasts in red matrix more granular (or altered?) matrix toward top; could be tuff like unit at 812-858 but textures not as well preserved													
																			1					
890		brecciated bi-feldspar-phyric with less feldspar than above									white feldspar, vitreous feldspar and black things chip with contact between mudstone and sandstone								0					
			sandstone?								892-894: thin interalation of sandstone and mudstone or exotic chips; fine to v. coarse sand in sandstone mostly subrounded													
	bx feldspar-phyric?		dark grey and red															1						
900																								

Newmont Gold Rotary Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 6/10/98

Area _____ **Coords** _____

Az/Incl _____ **Total Depth** _____ **Contractor** _____

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FeOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
	bFp-f (mnb)	brecciated feldsparphyric	mottled dark grey, smeared								some clastic textures both white and vitreous feldspar	0	0		0	0	0	t	0					
											rare clastic textures													
910											euhedral white feldspar prisms ~2mm; rare laminations								1					
											894-920: breccia or brecciated volcanic with local matrix- and clast-supported textures and sandy matrix; angular to subrounded clasts; rare feldspar and possibly hornblende phenocrysts							1						
			mottled pink grey								920-927: monomict?, clast- and matrix-supported breccia with angular-subrounded grey clasts in vf red matrix; probably brecciated version of rock below	t?	t?					t						
920		volcanic breccia	grey								927-1009: probably same as 1027-1140; sparsely brecciated aphanitic rock with black things (xenoliths) ≤4mm, and rare phenos of euhedral-subhedral, 1-2mm feldspar, biotite, tiny hbl needles, and v. rare qtz	0	0					2						
930											black things, tiny hbl needles? qtz? 935-940 removed chips w/ 2? feldspars, bi, hbl for reference													
											round, clear, vitreous qtz with thin rind, conchoidal fracture, 1mm; clear, vitreous 2.5mm feldspar w/ cleavage, euhedral; biotite; tiny hbl needles?; white, altered feldspar													
940																			2					
																			3					
950	Fp-b,f (mnb)										white & vitreous feldspar 1-2mm; biotite; black things tiny hbl needles? fibers, vein calcite													
960											fibers and other LCMs clear, vitreous, blocky feldspar 1mm; tiny hbl needles?								2					
970			reddish-grey								black things, 2mm feldspar, biotite?													
																			3					
980		sparsely brecciated qtz-hbl-bi-feldspar phyric									fibers, vein calcite							3	2					
											clear, vitreous, prismatic feldspar 3mm and white altered feldspar, .05mm & 1mm biotite, irreg black things, tiny hbl needles?													
990			greyish-red								white altered feldspar 2mm													
																			3					
1000											LCM													

Newmont Gold Rotary Form

Hole# RS-423 **Logged by** G. Langstaff **Date** 6/10/98

Area _____ **Coords** _____

Az/Incl _____ **Total Depth** _____ **Contractor** _____

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Mineralogy: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
												0	0		0	0	0	2/3	1/3		0	0		
											vein calcite dark xenoliths with trachytic microplag chip with hbl, bi, clear vitreous feld, white feld													
1010	1 Bmxs?	conglomeratic sandstone									1009–1027: matrix supported conglomeratic sandstone with angular to subrounded grey clasts in vf red matrix, some chips all finer than coarse sand; probably few pebbles as few chips without clastic texture													
1020	6 Fp-bf (mafic)										1027–1140: variably brecciated aphanitic rock with rounded to irregular black things (xenoliths?) ≤5mm, and rare phenocrysts – most common is biotite .05-1mm blocky, clear vitreous feldspar 1-2½ mm, round or locally embayed quartz ~1mm (mostly above 1050') possibly hbl as 1mm prisms or tiny needles; could be units with different phenocryst assemblages, but phenos too rare to define contacts; rarely laminated													
1030											equant, clear vitreous qtz (?) ~1mm embayed, equant, clear vitreous qtz ~1mm lozenge-shaped, clear, vitreous feldspar 2.5 mm black things, tiny prismatic hornblende? chunky 1.5 mm clear vitreous qtz?													
1040											anhedral 1mm qtz? black things laminations similar to those in taff at 105-225, perhaps dense aphanitic, homogeneous rock is densely welded													
1050			greyish red								tiny dark hbl needles? biotite, black things, qtz? biotite and black things, rarely laminated													
1060		orthoff?									more common biotite .05-1mm irregular black thing 4mm													
1070		brecciated qtz-hbl-feldspar-biotite phyric									blocky 1mm dull grey feldspar biotite <.05 mm													
1080											some chips with red & white laminations clear, vitreous, 2mm square feldspar dark xenolith 7mm with trachytic plag?													
1090											anhedral, chunky, clear vitreous feldspar 1.5mm 4mm rounded black thing, black biotite <.05mm in same chip													
1100											2mm clear, vitreous feldspar (cleavage)													

Hole# RS-423 **Newmont Gold Rotary Form** **Az/Incl** _____ **Page**

Logged by G. Langstaff **Area** _____ **Total Depth** _____

Date 6/10/98 **Coords** _____ **Contractor** _____ 12 of 12

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
1110	6 Fp-a, b, f (mmb)	variably brecciated qtz-hbl-feldspar-biotite-phyric	greyish red								rare laminated chip irregular dark green mineral ~1mm chip of vein calcite rounded 2mm black thing (xenolith?); dual dark hbl? prisms 1mm long, anhedral vitreous crystals <1mm	0	0		0	0	0	2/3	2/3		0	0		
1120											possible hbl pheno <1mm, other dark, vitreous anhedral crystals a f? ≤1mm equant, anhedral? quartz (?) crystal ~1mm													
1130																								
1140											start core													
1150																								
1160																								
1170																								
1180																								
1190																								
1200																								

Project: ROSEBUD JV	State: Nevada	Northing: 2,206,630	Inclination: -75	Total Depth: 1140	Hole No. RS-423	Page 1 of 6
Log'd by: RLL Date: 11/28/97	County: Pershing	Easting: 478,375	Azimuth: 360	Elevation: 5,356	Core/Chips(Intervals): RC 0-1140	

Orlamland

Depth (ft.)	GRAPHIC Rock	GRAPHIC Alt/Vn	ROCK Color	ROCK Rock Type	ROCK Grain Size	ROCK Structure (Sed.,Vol.)	PHENOS/LAPILLI/CLASTS %	Size	Shape	Color	Mineral/ Type	ALTERATION Int.	Distrib.	Type	Minerals	VEINS Thick.	Abund.	Selvedge	Minerals	INTERPRETATION Rock Name/ Composition	Formation	Comments	Recovery	Assay
			Brn hm	GVL																alluvium	QAL	weathered clay + gvl		
			Pink yell																					
20																								
						flow banded																		
			Pink Brn	Vol	aph															Latite (?)	Choc.	Flowbanded, alt. red + brn layers		
40																								
60																								
			Dk Gy																					
			Pink brn																					
80																								
	△		Dk Gy	Brx	f.g.																	-Part. brecciated		
	△△		Lt Gy									m		Blch	Py							Breccia w/Py, arg, bleached-out		
	△△		white									s			Py									
100			Gray	clay	aph							m		arg								Gy clay + brx volc - flowband volc rk		
			Dk Gy	Vol																		Crude Layering / banding as above		
																						Layering almost Lineation when viewed on-end		
120			Lt Gy									m		Blch										
			Dk Gy																					
140																								
160																								
			White	Brx	f.g.									Blch, Py, Si								white pyritic breccia w/silica (chalced)		
					1mm																			
180																								
			Dk Gy	Vol	aph																			
			White	Brx										Blch	Py Si									
200			Dk Gy	Vol																				

Project: ROSEBUD JV	State: Nevada	Northing:	Inclination:	Total Depth:	Hole No. RS-423	Page 2 of 6
Log'd by: RAL Date: 11/28/97	County: Pershing	Easting:	Azimuth:	Elevation:	Core/Chips(Intervals):	

Depth (ft.)	GRAPHIC Rock	GRAPHIC Alt/Vn	ROCK Color	ROCK Rock Type	ROCK Grain Size	ROCK Structure (Sed.,Vol.)	PHENOS/LAPILLI/CLASTS %	Size	Shape	Color	Mineral/ Type	ALTERATION Int.	Distrib.	Type	Minerals	VEINS Thick.	Abund.	Selvedge	Minerals	INTERPRETATION Rock Name/ Composition	Formation	Comments	Recovery	Assay
220			DK GY	Vol	aph	banded														Latite	chac	Banded volc. rk as above		
240			white									str		Blch	Py							-banding vis. thru blch		
260			DK GY																					
280			white DK GY white									S m		Blch Blch	Py Py							-v. fine py disseminated		
300			DK GY Lt Gy									S m	disseminated	Blch	Py, Si									
320				Silica		Brecciated						str								Breccia		silic matrix breccia Less silicif		
340			DK GY											silic		.1-.5			Py			-unbleached silicif rk, breccia		
360			white											Blch	Si, Py							Bleached brx as above		
380																								
400			DK GY		aph									Si								Dark silicif volc. rk		

Project: ROSEBUD JV	State: Nevada	Northing:	Inclination:	Total Depth:	Hole No. RS-423	Page 3 of 6
Log'd by: RAL Date: 11/28/97	County: Pershing	Easting:	Azimuth:	Elevation:	Core/Chips(Intervals):	

Depth (ft.)	GRAPHIC Rock	GRAPHIC Alt/Vn	ROCK Color	ROCK Rock Type	ROCK Grain Size	ROCK Structure (Sed.,Vol.)	PHENOS/LAPILLI/CLASTS %	PHENOS/LAPILLI/CLASTS Size	PHENOS/LAPILLI/CLASTS Shape	PHENOS/LAPILLI/CLASTS Color	PHENOS/LAPILLI/CLASTS Mineral/ Type	ALTERATION Int.	ALTERATION Distrib.	ALTERATION Type	ALTERATION Minerals	VEINS Thick.	VEINS Abund.	VEINS Selvedge	VEINS Minerals	INTERPRETATION Rock Name/ Composition	INTERPRETATION Formation	Comments	Recovery	Assay
			Lt Gy	Silica								Str	Pervasive	Blch	Py, Si, Arg					Silica clay.	Chocolate	Lt Gy silic Large chips		
																				Mass.		and arg. rk w/ py "		
			Dk Rd/brn	Volc											Si							Dk Rd silic volc "		
420																								
			Gray											Blch	Py, Si, Arg							Sil, clay, py		
440															Si, py					Gray. Silic		Gray granular Silica w/diss py		
																						Sort of looks like quartzite		
460				?																				
				?																				
480																								
			Dk Pink Gy	Volc																Latite		Salt+pepper aphanitic microporphyritic		
			Lt Gy	?								Str	Perv.	Bl(?)	Si, py					Silica, gran.		Granular silic. rk as above		
500				?																				
520																								
540																								
560			Dk Pink Gy	Volc																Latite		Salt+pepper latite as above, occ 1 mm phenos of biotite		
580			Lt Gy									Str	diss. Perv.	Blch	Si, py					Gran. Qtz		Lt Gy Qz py granular rock		
600																								

Project: ROSEBUD JV	State: Nevada	Northing:	Inclination:	Total Depth:	Hole No. RS-423	Page 4 of 6
Log'd by: RJK Date: 11/28/97	County: Pershing	Easting:	Azimuth:	Elevation:	Core/Chips(Intervals):	

Depth (ft.)	GRAPHIC: Rock	GRAPHIC: Alt/Vn	ROCK: Color	ROCK: Rock Type	ROCK: Grain Size	ROCK: Structure (Sed.,Vol.)	PHENOS/LAPILLI/CLASTS: %	PHENOS/LAPILLI/CLASTS: Size	PHENOS/LAPILLI/CLASTS: Shape	PHENOS/LAPILLI/CLASTS: Color	PHENOS/LAPILLI/CLASTS: Mineral/ Type	ALTERATION: Int.	ALTERATION: Distrib.	ALTERATION: Type	ALTERATION: Minerals	VEINS: Thick.	VEINS: Abund.	VEINS: Selvedge	VEINS: Minerals	INTERPRETATION: Rock Name/ Composition	INTERPRETATION: Formation	Comments	Recovery	Assay
			Lt Gy									Sil	diss, perv	Blch	Si, Py					Gran. Silica	Chac	Granular Qz as above		
620			Dk Gy	Volc	tiny		1-2	0.5mm	rounded	blk	biot									Latite		Salt & pepper microporphyritic Vol. w/ tiny black specks along w/ occ'l 0.5mm biot phenos		
640			Dk pink Gy																					
660																								
680																								
700			Lt Gy white										disseminated	Blch	Si, Py, arg							Granular Si, diss Py, wtc lay		
720																								
740																								
760			Lt Grn Gy																			Some arg phenos, sparse		
780			Med Gy	volc	v.f.g. aph.															Latite		v.f.G. Salt & pepper volc. as above occ'l biot phenos 0.5mm		
800																								

Project: ROSEBUD JV	State: Nevada	Northing:	Inclination:	Total Depth:	Hole No. RS-423	Page 5 of 6
Log'd by: RLK Date: 11/28/97	County: Pershing	Easting:	Azimuth:	Elevation:	Core/Chips(Intervals):	

Depth (ft.)	GRAPHIC Rock	GRAPHIC Alt/Vn	ROCK Color	ROCK Rock Type	ROCK Grain Size	ROCK Structure (Sed.,Vol.)	PHENOS/LAPILLI/CLASTS %	Size	Shape	Color	Mineral/ Type	ALTERATION Int.	Distrib.	Type	Minerals	VEINS Thick.	Abund.	Selvedge	Minerals	INTERPRETATION Rock Name/ Composition	Formation	Comments	Recovery	Assay
			Gray	Vol	VFG															Latite	chac	Gray salt&pepper texture as above		
820			DKred		aph	flowbanded																Crudely flow banded aphanitic rK, v.		
			orange																			compact, hard (glassy?)		
840																								
860																								
880			Gray																			flow banding less pronounced with less oxidation		
900																						Lots of brecciation, prob. from lava flow.		
920																								
940			Red+Gy																			oxid. prefers matrix Salt&pepper texture as way above.		
960																								
980																								
1000																								

Project: ROSEBUD JV	State: Nevada	Northing:	Inclination:	Total Depth:	Hole No. RS-423	Page 6 of 6
Log'd by: RJK Date: 11/28/97	County: Pershing	Easting:	Azimuth:	Elevation:	Core/Chips(Intervals):	

Depth (ft.)	GRAPHIC Rock	GRAPHIC Alt/Vn	ROCK Color	ROCK Rock Type	ROCK Grain Size	ROCK Structure (Sed.,Vol.)	PHENOS/LAPILLI/CLASTS %	PHENOS/LAPILLI/CLASTS Size	PHENOS/LAPILLI/CLASTS Shape	PHENOS/LAPILLI/CLASTS Color	PHENOS/LAPILLI/CLASTS Mineral/ Type	ALTERATION Int.	ALTERATION Distrib.	ALTERATION Type	ALTERATION Minerals	VEINS Thick.	VEINS Abund.	VEINS Selvedge	VEINS Minerals	INTERPRETATION Rock Name/ Composition	INTERPRETATION Formation	Comments	Recovery	Assay
1020			Dk Red	Vol	aph	massive														Latite	Choc	hard aphanitic rk, may be glassy traces tiny black specks		
1040																								
1060																								
1080																								
1100																								
1120																								
1140																								
																						TD 1140 PRE-COLLAR		

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : RANDY VANCE

: KURT ALLEN

:

:

CLIENT REFERENCE No: RS-423

No. SAMPLES : 233

MAIN SAMPLE TYPE : DRILL CUTTINGS

RECEIVED : 3 DEC 1997

REPORTED : 3 DEC 1997

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS#423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 000-005	14		<0.001		<0.5	<0.02
RS-423 005-010	16		<0.001		<0.5	<0.02
RS-423 010-015	27		<0.001		<0.5	<0.02
RS-423 015-020	23		<0.001		<0.5	<0.02
RS-423 020-025	25		<0.001		<0.5	<0.02
RS-423 025-030	<5		<0.001		<0.5	<0.02
RS-423 030-035	<5		<0.001		<0.5	<0.02
RS-423 035-040	<5		<0.001		<0.5	<0.02
RS-423 040-045	<5		<0.001		<0.5	<0.02
RS-423 045-050	<5		<0.001		<0.5	<0.02
RS-423 050-055	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 055-060	<5		<0.001		<0.5	<0.02
RS-423 060-065	<5		<0.001		<0.5	<0.02
RS-423 065-070	<5		<0.001		<0.5	<0.02
RS-423 070-075	<5		<0.001		<0.5	<0.02
RS-423 075-080	<5		<0.001		<0.5	<0.02
RS-423 080-085	<5		<0.001		<0.5	<0.02
RS-423 085-090	<5		<0.001		<0.5	<0.02
RS-423 090-095	8		<0.001		<0.5	<0.02
RS-423 095-100	<5		<0.001		<0.5	<0.02
RS-423 100-105	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 105-110	<5		<0.001		<0.5	<0.02
RS-423 110-115	<5		<0.001		<0.5	<0.02
RS-423 115-120	<5		<0.001		<0.5	<0.02
RS-423 120-125	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 125-130	<5		<0.001		<0.5	<0.02
RS-423 130-135	<5		<0.001		<0.5	<0.02
RS-423 135-140	<5		<0.001		<0.5	<0.02
RS-423 140-145	<5		<0.001		<0.5	<0.02
RS-423 145-150	<5		<0.001		<0.5	<0.02
RS-423 150-155	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 155-160	<5		<0.001		<0.5	<0.02
RS-423 160-165	<5		<0.001		<0.5	<0.02
RS-423 165-170	<5		<0.001		<0.5	<0.02
RS-423 170-175	12		<0.001		<0.5	<0.02
RS-423 175-180	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 180-185	<5		<0.001		<0.5	<0.02
RS-423 185-190	<5		<0.001		<0.5	<0.02
RS-423 190-195	<5		<0.001		<0.5	<0.02
RS-423 195-200	<5		<0.001		<0.5	<0.02
RS-423 200-205	<5		<0.001		<0.5	<0.02
RS-423 205-210	<5		<0.001		<0.5	<0.02
RS-423 210-215	<5		<0.001		<0.5	<0.02
RS-423 215-220	<5		<0.001		<0.5	<0.02
RS-423 220-225	<5		<0.001		<0.5	<0.02
RS-423 225-230	<5		<0.001		<0.5	<0.02
RS-423 230-235	7		<0.001		<0.5	<0.02
RS-423 235-240	<5		<0.001		<0.5	<0.02
RS-423 240-245	<5		<0.001		<0.5	<0.02
RS-423 245-250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 250-255	<5		<0.001		<0.5	<0.02
RS-423 255-260	<5		<0.001		<0.5	<0.02
RS-423 260-265	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 265-270	<5		<0.001		<0.5	<0.02
RS-423 270-275	<5		<0.001		<0.5	<0.02
RS-423 275-280	<5		<0.001		<0.5	<0.02
RS-423 280-285	41		0.001		<0.5	<0.02
RS-423 285-290	<5		<0.001		<0.5	<0.02
RS-423 290-295	<5		<0.001		<0.5	<0.02
RS-423 295-300	<5		<0.001		<0.5	<0.02
RS-423 300-305	44		0.001		<0.5	<0.02
RS-423 305-310	41		0.001		<0.5	<0.02
RS-423 310-315	19		<0.001		<0.5	<0.02
RS-423 315-320	8		<0.001		<0.5	<0.02
RS-423 320-325A	<5		<0.001		<0.5	<0.02
RS-423 320-325B	10830		0.316		<0.5	<0.02
RS-423 325-330	48		0.001		<0.5	<0.02
RS-423 330-335	<5		<0.001		<0.5	<0.02
RS-423 335-340	<5		<0.001		<0.5	<0.02
RS-423 340-345	<5		<0.001		<0.5	<0.02
RS-423 345-350	37		0.001		<0.5	<0.02
RS-423 350-355	38		0.001		<0.5	<0.02
RS-423 355-360	27		<0.001		<0.5	<0.02
RS-423 360-365	24		<0.001		<0.5	<0.02
RS-423 365-370	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 370-375	10	8	<0.001	<0.001	<0.5	<0.02
RS-423 375-380	31		<0.001		<0.5	<0.02
RS-423 380-385	15		<0.001		<0.5	<0.02
RS-423 385-390	22		<0.001		<0.5	<0.02
RS-423 390-395	<5		<0.001		<0.5	<0.02
RS-423 395-400	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 400-405	34		<0.001		<0.5	<0.02
RS-423 405-410	39		0.001		<0.5	<0.02
RS-423 410-415	11		<0.001		<0.5	<0.02
RS-423 415-420	<5		<0.001		<0.5	<0.02
RS-423 420-425	10		<0.001		<0.5	<0.02
RS-423 425-430	26		<0.001		<0.5	<0.02
RS-423 430-435	32		<0.001		<0.5	<0.02
RS-423 435-440	<5		<0.001		<0.5	<0.02
RS-423 440-445	<5		<0.001		<0.5	<0.02
RS-423 445-450	<5		<0.001		<0.5	<0.02
RS-423 450-455	14		<0.001		<0.5	<0.02
RS-423 455-460	14		<0.001		<0.5	<0.02
RS-423 460-465	30		<0.001		<0.5	<0.02
RS-423 465-470A	<5		<0.001		<0.5	<0.02
RS-423 465-470B	82		0.002		<0.5	<0.02
RS-423 470-475	<5		<0.001		<0.5	<0.02
RS-423 475-480	<5		<0.001		<0.5	<0.02
RS-423 480-485	<5		<0.001		<0.5	<0.02
RS-423 485-490	29	36	<0.001	0.001	<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 490-495	16		<0.001		<0.5	<0.02
RS-423 495-500	26		<0.001		<0.5	<0.02
RS-423 500-505	12		<0.001		<0.5	<0.02
RS-423 505-510	17		<0.001		<0.5	<0.02
RS-423 510-515	26		<0.001		<0.5	<0.02
RS-423 515-520	11		<0.001		<0.5	<0.02
RS-423 520-525	17		<0.001		<0.5	<0.02
RS-423 525-530	27		<0.001		<0.5	<0.02
RS-423 530-535	19		<0.001		<0.5	<0.02
RS-423 535-540	35		0.001		<0.5	<0.02
RS-423 540-545	26		<0.001		<0.5	<0.02
RS-423 545-550	8		<0.001		<0.5	<0.02
RS-423 550-555	<5		<0.001		<0.5	<0.02
RS-423 555-560	<5		<0.001		<0.5	<0.02
RS-423 560-565	<5		<0.001		<0.5	<0.02
RS-423 565-570	<5		<0.001		<0.5	<0.02
RS-423 570-575	21		<0.001		<0.5	<0.02
RS-423 575-580	34		<0.001		<0.5	<0.02
RS-423 580-585	27		<0.001		<0.5	<0.02
RS-423 585-590	46		0.001		<0.5	<0.02
RS-423 590-595	<5		<0.001		<0.5	<0.02
RS-423 595-600	24		<0.001		<0.5	<0.02
RS-423 600-605	8		<0.001		<0.5	<0.02
RS-423 605-610	28		<0.001		<0.5	<0.02
RS-423 610-615	<5	<5	<0.001	<0.001	<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 615-620	<5		<0.001		<0.5	<0.02
RS-423 620-625	<5		<0.001		<0.5	<0.02
RS-423 625-630	<5		<0.001		<0.5	<0.02
RS-423 630-635	<5		<0.001		<0.5	<0.02
RS-423 635-640	<5		<0.001		<0.5	<0.02
RS-423 640-645	<5		<0.001		<0.5	<0.02
RS-423 645-650	<5		<0.001		<0.5	<0.02
RS-423 650-655A	<5		<0.001		<0.5	<0.02
RS-423 650-655B	14150		0.413		ISF	ISF
RS-423 655-660	<5		<0.001		<0.5	<0.02
RS-423 660-665	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 665-670	<5		<0.001		<0.5	<0.02
RS-423 670-675	<5		<0.001		<0.5	<0.02
RS-423 675-680	<5		<0.001		<0.5	<0.02
RS-423 680-685	<5		<0.001		<0.5	<0.02
RS-423 685-690	<5		<0.001		<0.5	<0.02
RS-423 690-695	<5		<0.001		<0.5	<0.02
RS-423 695-700	16		<0.001		<0.5	<0.02
RS-423 700-705	18		<0.001		<0.5	<0.02
RS-423 705-710	15		<0.001		<0.5	<0.02
RS-423 710-715	14		<0.001		<0.5	<0.02
RS-423 715-720	7		<0.001		<0.5	<0.02
RS-423 720-725	<5		<0.001		<0.5	<0.02
RS-423 725-730	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 730-735	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 735-740	<5		<0.001		<0.5	<0.02
RS-423 740-745	19		<0.001		<0.5	<0.02
RS-423 745-750	<5		<0.001		<0.5	<0.02
RS-423 750-755	27		<0.001		<0.5	<0.02
RS-423 755-760	<5		<0.001		<0.5	<0.02
RS-423 760-765	<5		<0.001		<0.5	<0.02
RS-423 765-770	<5		<0.001		<0.5	<0.02
RS-423 770-775	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 775-780	<5		<0.001		<0.5	<0.02
RS-423 780-785	<5		<0.001		<0.5	<0.02
RS-423 785-790	<5		<0.001		<0.5	<0.02
RS-423 790-795	<5		<0.001		<0.5	<0.02
RS-423 795-800	<5		<0.001		<0.5	<0.02
RS-423 800-805	<5		<0.001		<0.5	<0.02
RS-423 805-810	<5		<0.001		<0.5	<0.02
RS-423 810-815	<5		<0.001		<0.5	<0.02
RS-423 815-820	<5		<0.001		<0.5	<0.02
RS-423 820-825	<5		<0.001		<0.5	<0.02
RS-423 825-830	<5		<0.001		<0.5	<0.02
RS-423 830-835	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 835-840	<5		<0.001		<0.5	<0.02
RS-423 840-845	<5		<0.001		<0.5	<0.02
RS-423 845-850	<5		<0.001		<0.5	<0.02
RS-423 850-855	<5		<0.001		<0.5	<0.02
RS-423 855-860	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 860-865	<5		<0.001		<0.5	<0.02
RS-423 865-870	<5		<0.001		<0.5	<0.02
RS-423 870-875	<5		<0.001		<0.5	<0.02
RS-423 875-880	<5		<0.001		<0.5	<0.02
RS-423 880-885	<5		<0.001		<0.5	<0.02
RS-423 885-890	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 890-895	<5		<0.001		<0.5	<0.02
RS-423 895-900	<5		<0.001		<0.5	<0.02
RS-423 900-905	<5		<0.001		<0.5	<0.02
RS-423 905-910A	<5		<0.001		<0.5	<0.02
RS-423 905-910B	789		0.023		<0.5	<0.02
RS-423 910-915	<5		<0.001		<0.5	<0.02
RS-423 915-920	<5		<0.001		<0.5	<0.02
RS-423 920-925	<5		<0.001		<0.5	<0.02
RS-423 925-930	<5		<0.001		<0.5	<0.02
RS-423 930-935	<5		<0.001		<0.5	<0.02
RS-423 935-940	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 940-945	<5		<0.001		<0.5	<0.02
RS-423 945-950	<5		<0.001		<0.5	<0.02
RS-423 950-955	<5		<0.001		<0.5	<0.02
RS-423 955-960	<5		<0.001		<0.5	<0.02
RS-423 960-965	<5		<0.001		<0.5	<0.02
RS-423 965-970	<5		<0.001		<0.5	<0.02
RS-423 970-975	<5		<0.001		<0.5	<0.02
RS-423 975-980	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 980-985	<5		<0.001		<0.5	<0.02
RS-423 985-990	<5		<0.001		<0.5	<0.02
RS-423 990-995A	<5		<0.001		<0.5	<0.02
RS-423 990-995B	804		0.023		<0.5	<0.02
RS-423 995-1000	<5		<0.001		<0.5	<0.02
RS-423 1000-1005	<5		<0.001		<0.5	<0.02
RS-423 1005-1010	<5		<0.001		<0.5	<0.02
RS-423 1010-1015	<5		<0.001		<0.5	<0.02
RS-423 1015-1020	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1020-1025	<5		<0.001		<0.5	<0.02
RS-423 1025-1030	<5		<0.001		<0.5	<0.02
RS-423 1030-1035	<5		<0.001		<0.5	<0.02
RS-423 1035-1040	<5		<0.001		<0.5	<0.02
RS-423 1040-1045	<5		<0.001		<0.5	<0.02
RS-423 1045-1050	<5		<0.001		<0.5	<0.02
RS-423 1050-1055	<5		<0.001		<0.5	<0.02
RS-423 1055-1060	<5		<0.001		<0.5	<0.02
RS-423 1060-1065	<5		<0.001		<0.5	<0.02
RS-423 1065-1070	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1070-1075	<5		<0.001		<0.5	<0.02
RS-423 1075-1080	<5		<0.001		<0.5	<0.02
RS-423 1080-1085	<5		<0.001		<0.5	<0.02
RS-423 1085-1090	<5		<0.001		<0.5	<0.02
RS-423 1090-1095	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-423 1095-1100	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP047504

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-423

REPORTED : 3 DEC 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-423 1100-1105	<5		<0.001		<0.5	<0.02
RS-423 1105-1110	<5		<0.001		<0.5	<0.02
RS-423 1110-1115	<5		<0.001		<0.5	<0.02
RS-423 1115-1120	<5		<0.001		<0.5	<0.02
RS-423 1120-1125	<5		<0.001		<0.5	<0.02
RS-423 1125-1130	<5		<0.001		<0.5	<0.02
RS-423 1130-1135	<5		<0.001		<0.5	<0.02
RS-423 1135-1140	<5		<0.001		<0.5	<0.02

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431

(702) 356-0606

INVOICE NO: SP 0047504-IN
INVOICE DATE: 12/17/97

INVOICE TO:
NEWMONT EXPLORATION LTD.

861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.

861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-423	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
233	SAMPLES RECEIVED	.00	.00
5	NO PREPARATION REQUIRED	.00	.00
228	DRYING	2.00	456.00
228	JAW CRUSHING CHARGE	2.60	592.80
228	SPLITTING CHARGE	1.80	410.40
228	FINE MILLING CHARGE	2.00	456.00
233	Au (1 A.T. FIRE ASSAY)	8.00	1,864.00
232	HYDROCHLORIC/NITRIC DIGESTION	2.00	464.00
232	Ag ANALYSES	1.00	232.00
228	COMPOSITE CHARGE	1.00	228.00
62	MULTI-ELEMENT ICP PACKAGE	9.80	607.60

COPY

NET INVOICE:	5,310.80
LESS DISCOUNT:	1,062.16
FREIGHT:	.00
INVOICE TOTAL:	4,248.64

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD MINE
AAL REF: SP047504
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
RS-423 000-020	< .3	0.79	16	9	119	< 3	0.2	< .2	2	5	11	2.35	110	0.39	18	0.14	203	2	0.08	4	0.024	30	8	47	9	0.02	< 8	9	2	43
RS-423 020-040	< .3	0.7	8	4	66	< 3	0.17	< .2	1	4	7	2.06	60	0.23	19	0.08	323	1	0.08	3	0.017	37	4	27	12	0.02	9	6	< 2	76
RS-423 040-060	0.3	0.47	3	< 3	38	< 3	0.14	< .2	1	3	9	2.05	45	0.16	17	0.02	338	1	0.06	2	0.013	36	4	15	11	0.02	15	4	2	108
RS-423 060-080	0.3	0.49	3	3	23	3	0.18	0.2	1	3	9	2.12	35	0.16	16	0.02	373	1	0.06	3	0.022	23	3	15	13	0.02	12	3	< 2	130
RS-423 080-100	0.3	0.42	9	< 3	38	< 3	0.17	1.7	1	2	7	2.06	80	0.16	18	0.02	535	1	0.03	2	0.016	23	6	20	11	0.01	10	2	< 2	126
RS-423 100-120	< .3	0.47	2	< 3	28	< 3	0.21	0.8	1	2	7	1.85	40	0.13	18	0.02	397	1	0.05	2	0.018	15	< 3	15	11	0.02	< 8	3	3	110
RS-423 120-140	< .3	0.45	3	< 3	21	< 3	0.23	0.4	1	3	9	1.82	20	0.12	18	0.02	879	1	0.05	2	0.018	37	3	17	13	0.02	< 8	3	< 2	146
RS-423 140-160	< .3	0.49	4	< 3	39	< 3	0.24	0.5	1	2	5	1.63	20	0.12	17	0.02	306	1	0.05	1	0.017	15	< 3	18	11	0.02	< 8	4	2	83
RS-423 160-180	< .3	0.36	15	< 3	28	< 3	0.2	0.3	1	2	6	1.9	120	0.11	17	0.02	805	1	0.03	2	0.018	22	5	14	12	0.01	9	1	< 2	115
RS-423 180-200	< .3	0.43	12	3	35	< 3	0.58	0.3	1	2	6	1.83	85	0.11	18	0.03	697	1	0.04	2	0.017	20	5	26	10	0.02	14	1	2	94
RS-423 200-220	< .3	0.47	9	3	20	< 3	0.4	0.2	1	2	6	1.84	45	0.12	18	0.03	901	1	0.05	1	0.016	17	4	24	11	0.02	< 8	2	2	100
RS-423 220-240	< .3	0.42	12	< 3	59	< 3	0.22	0.3	1	2	5	2.04	190	0.12	17	0.02	1028	1	0.03	1	0.019	21	8	15	11	0.01	8	1	< 2	115
RS-423 240-260	< .3	0.53	3	< 3	38	< 3	0.53	0.3	1	3	6	1.89	40	0.13	20	0.03	757	1	0.03	1	0.014	16	4	25	10	0.02	15	3	2	78
RS-423 260-280	< .3	0.43	7	< 3	27	< 3	0.46	0.3	1	2	5	1.93	115	0.13	20	0.02	358	1	0.03	2	0.015	12	4	21	12	0.02	9	2	2	88
RS-423 280-300	< .3	0.31	9	< 3	41	< 3	0.99	0.2	1	1	5	1.87	150	0.11	19	0.02	522	1	0.02	1	0.014	18	8	42	9	0.01	8	1	< 2	87
RS-423 300-320	< .3	0.3	13	< 3	35	< 3	0.85	0.3	1	1	5	2.3	255	0.11	19	0.01	455	1	0.02	2	0.015	25	10	29	13	< .01	8	1	< 2	85
RS-423 320-325B	< .3	0.35	1541	8	1338	< 3	0.09	21.2	3	48	56	2.31	530	0.12	2	0.03	12	4	0.01	9	0.045	168	140	213	2	< .01	< 8	119	7	84
RS-423 320-340	< .3	0.44	9	< 3	42	< 3	0.77	0.2	1	2	6	2.24	175	0.14	20	0.03	517	1	0.02	2	0.016	18	4	31	11	0.01	9	3	2	80
RS-423 340-360	< .3	0.32	9	< 3	30	< 3	1.53	0.2	2	2	7	2.53	280	0.13	18	0.02	658	1	0.02	2	0.015	27	7	42	7	< .01	15	2	< 2	86
RS-423 360-380	< .3	0.37	8	< 3	37	< 3	1.4	0.3	1	2	8	2.45	385	0.12	19	0.02	582	1	0.02	2	0.012	20	11	44	9	< .01	< 8	2	< 2	70
RS-423 380-400	< .3	0.38	10	< 3	42	3	0.78	0.2	1	3	8	2.44	365	0.12	19	0.02	503	2	0.02	3	0.013	20	8	30	10	0.01	< 8	2	< 2	77
RS-423 400-420	< .3	0.41	7	< 3	29	< 3	0.27	0.2	2	5	11	2.75	195	0.12	21	0.02	902	2	0.02	4	0.015	13	8	14	11	0.01	12	3	< 2	103
RS-423 420-440	< .3	0.42	12	3	50	< 3	0.73	< .2	3	3	9	2.67	320	0.11	18	0.03	1165	2	0.03	3	0.026	15	9	24	8	0.01	< 8	2	< 2	108
RS-423 440-460	< .3	0.39	10	3	41	< 3	0.3	0.2	3	2	5	2.5	490	0.09	18	0.02	691	1	0.03	1	0.032	15	12	16	9	< .01	< 8	2	< 2	94
RS-423 465-470B	< .3	1.47	731	9	571	< 3	1.1	1.2	8	52	90	2.93	7210	0.31	16	0.28	282	9	0.02	37	0.113	18	40	77	< 2	0.01	< 8	156	4	84
RS-423 460-480	< .3	0.43	13	< 3	47	< 3	0.19	0.2	4	1	5	2.5	335	0.1	17	0.01	1388	1	0.01	1	0.031	21	14	10	8	0.01	< 8	2	< 2	119
RS-423 480-500	< .3	0.37	7	< 3	57	< 3	0.57	0.2	2	1	5	2.4	235	0.09	16	0.02	1176	1	0.02	1	0.031	13	10	18	8	0.01	< 8	4	< 2	101
RS-423 500-520	< .3	0.41	18	< 3	36	< 3	0.26	0.2	3	2	6	2.98	640	0.1	15	0.02	469	1	0.02	2	0.031	16	15	12	9	< .01	< 8	3	< 2	110
RS-423 520-540	< .3	0.44	37	< 3	28	< 3	0.23	< .2	3	1	7	3.59	825	0.08	16	0.01	255	1	0.01	2	0.03	23	33	11	8	< .01	< 8	2	< 2	90
RS-423 540-560	< .3	0.45	23	< 3	34	< 3	0.42	0.2	3	2	6	3.21	960	0.09	14	0.03	520	2	0.01	2	0.034	32	23	14	7	0.01	< 8	3	< 2	106
RS-423 560-580	< .3	0.56	6	< 3	44	< 3	0.85	< .2	2	3	5	2.45	285	0.15	16	0.06	500	1	0.02	1	0.036	18	22	27	5	0.02	< 8	5	< 2	94
RS-423 580-600	< .3	0.55	10	< 3	36	< 3	0.72	< .2	4	2	5	2.95	380	0.14	16	0.07	323	1	0.02	1	0.036	20	19	29	6	< .01	< 8	3	< 2	81
RS-423 600-620	< .3	0.53	8	< 3	57	< 3	1.55	0.2	3	2	6	2.71	235	0.15	18	0.07	603	1	0.02	2	0.036	16	7	66	7	0.01	10	7	< 2	93
STANDARD C3	5.7	1.92	57	19	156	23	0.6	26.4	12	161	66	3.38	950	0.16	18	0.66	775	25	0.04	37	0.091	32	17	31	20	0.1	23	81	24	175
STANDARD G-1	< .3	1.03	< 2	3	251	< 3	0.62	< .2	5	103	4	2.06	15	0.51	7	0.67	566	2	0.07	9	0.078	< 3	< 3	74	3	0.15	< 8	41	< 2	48

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD MINE
AAL REF: SP047504
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
RS-423 620-640	< .3	0.53	2	< 3	34	< 3	1.41	< .2	2	2	3	2.31	50	0.11	17	0.06	575	1	0.02	1	0.033	13	4	75	7	0.03	< 8	8	< 2	64
RS-423 650-655B	< .3	0.41	1656	9	1373	3	0.1	20.7	3	53	61	2.49	600	0.16	2	0.03	12	5	0.01	10	0.053	134	137	234	< 2	< .01	< 8	132	7	93
RS-423 640-660	< .3	0.56	3	< 3	72	< 3	2.04	< .2	1	2	4	2.34	80	0.14	16	0.06	703	1	0.02	1	0.031	8	4	100	4	0.03	< 8	8	3	62
RS-423 660-680	< .3	0.53	4	< 3	32	< 3	2.02	< .2	1	1	11	2.47	60	0.12	17	0.06	600	1	0.02	1	0.033	9	3	110	4	0.03	< 8	8	3	82
RS-423 680-700	< .3	0.49	12	< 3	52	4	1.32	< .2	3	1	5	2.5	125	0.12	15	0.06	519	1	0.02	1	0.034	19	7	74	4	0.01	< 8	4	2	79
RS-423 700-720	< .3	0.44	14	< 3	30	3	0.81	0.2	3	2	5	3.07	205	0.11	16	0.03	429	1	0.01	1	0.033	17	11	65	5	< .01	< 8	2	< 2	88
RS-423 720-740	0.4	0.57	10	< 3	32	< 3	0.93	0.2	2	3	4	2.49	140	0.12	18	0.05	623	1	0.02	1	0.032	13	6	56	4	< .01	< 8	4	< 2	86
RS-423 740-760	< .3	0.57	19	< 3	35	< 3	0.43	0.2	3	1	4	3.04	155	0.12	16	0.05	365	1	0.01	1	0.033	17	10	45	4	< .01	< 8	3	< 2	81
RS-423 760-780	< .3	0.47	6	< 3	52	< 3	2.35	< .2	2	2	3	2.31	105	0.13	19	0.05	592	1	0.02	1	0.034	12	4	132	4	0.03	< 8	10	< 2	70
RS-423 780-800	< .3	0.51	4	< 3	40	3	1.9	< .2	2	2	3	2.21	50	0.13	20	0.05	494	1	0.03	1	0.033	12	4	139	3	0.02	< 8	11	2	64
RS-423 800-820	< .3	0.52	6	< 3	33	< 3	1.57	0.2	2	2	3	2.12	30	0.14	20	0.05	453	1	0.04	1	0.027	10	6	146	6	0.02	< 8	6	< 2	72
RS-423 820-840	< .3	0.61	8	< 3	33	4	0.74	< .2	1	5	6	2.09	30	0.15	21	0.07	297	1	0.06	2	0.016	23	4	155	10	0.01	< 8	3	< 2	79
RS-423 840-860	< .3	0.63	5	< 3	31	5	0.75	0.3	1	4	8	2.11	55	0.17	19	0.06	314	1	0.07	2	0.016	11	< 3	146	7	0.01	< 8	3	< 2	74
RS-423 860-880	< .3	0.56	6	< 3	35	3	0.64	0.2	1	2	5	2	180	0.19	22	0.04	260	1	0.06	2	0.016	21	4	118	10	0.01	< 8	2	3	71
RS-423 880-900	< .3	0.58	4	< 3	35	4	0.26	0.2	1	2	4	1.9	180	0.22	25	0.03	103	1	0.05	2	0.017	12	4	94	12	0.02	< 8	4	< 2	71
RS-423 905-910B	1.3	1.56	1043	13	303	9	0.81	3.6	8	59	84	2.9	5375	0.38	11	0.16	217	14	0.02	46	0.151	125	138	115	2	0.01	< 8	369	14	228
RS-423 900-920	< .3	0.64	7	< 3	41	< 3	0.21	0.5	1	3	4	1.99	180	0.23	25	0.02	109	1	0.03	2	0.014	15	6	81	9	0.02	< 8	2	2	76
RS-423 920-940	< .3	0.6	4	< 3	54	3	0.58	0.5	1	2	4	1.81	205	0.22	29	0.02	250	1	0.03	2	0.018	13	4	104	9	0.01	< 8	2	< 2	78
RS-423 940-960	< .3	0.49	4	< 3	30	< 3	0.96	< .2	1	2	4	1.64	45	0.22	26	0.02	333	1	0.04	2	0.017	13	4	115	9	0.01	< 8	2	2	36
RS-423 960-980	< .3	0.64	4	< 3	47	6	1.15	< .2	1	6	7	1.69	35	0.24	24	0.05	370	1	0.05	2	0.016	27	4	125	10	0.01	< 8	2	< 2	39
RS-423 990-995B	0.9	1.62	1076	14	229	4	0.85	3.7	8	61	85	2.95	5490	0.41	11	0.17	225	14	0.02	47	0.156	125	141	120	2	0.01	< 8	382	14	233
RS-423 980-1000	< .3	0.65	4	< 3	39	4	0.97	0.2	1	5	6	1.5	85	0.26	23	0.04	253	1	0.05	3	0.018	20	5	129	7	0.01	< 8	2	< 2	32
RS-423 1000-1020	< .3	0.61	5	< 3	42	3	1.27	0.2	1	5	6	1.75	35	0.26	29	0.04	338	1	0.06	2	0.019	17	6	144	12	0.01	< 8	2	< 2	40
RS-423 1020-1040	< .3	0.58	7	< 3	37	6	0.92	0.2	1	6	7	1.87	30	0.25	25	0.04	369	1	0.06	2	0.017	32	6	124	10	0.01	< 8	2	2	80
RS-423 1040-1060	< .3	0.55	8	< 3	36	< 3	0.98	< .2	1	5	6	1.87	30	0.25	25	0.04	476	1	0.06	2	0.019	16	4	120	10	0.01	< 8	2	< 2	49
RS-423 1060-1080	< .3	0.55	9	< 3	35	4	1.02	< .2	1	4	8	2.12	40	0.26	25	0.03	461	1	0.07	3	0.018	15	< 3	117	7	0.01	< 8	2	< 2	42
RS-423 1080-1100	0.3	0.64	7	< 3	41	4	1.33	0.3	1	5	8	2.03	20	0.31	26	0.04	502	1	0.07	2	0.018	16	3	123	7	0.01	< 8	1	< 2	41
RS-423 1100-1120	< .3	0.65	5	< 3	44	4	1.02	< .2	1	4	9	2.25	20	0.32	26	0.03	545	1	0.07	3	0.016	21	< 3	124	8	0.01	10	2	< 2	37
RS-423 1120-1140	< .3	0.58	5	< 3	40	< 3	0.98	0.3	1	4	9	1.91	25	0.29	26	0.02	574	1	0.05	2	0.016	13	3	125	9	0.01	< 8	3	2	28
STANDARD C3	5.7	1.92	58	20	152	26	0.6	24.9	12	160	65	3.45	945	0.18	18	0.66	765	25	0.04	37	0.09	37	19	31	19	0.1	27	82	23	173
STANDARD G-1	< .3	1.14	< 2	< 3	272	5	0.68	< .2	5	114	4	2.26	25	0.58	7	0.72	608	2	0.08	10	0.085	< 3	4	80	4	0.16	< 8	45	< 2	53

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 11530
Reno, NV 89510
Telephone
(702) 356-0606
Fax
(702) 356-1413

Tucson Office
2775 E. Ganley
Tucson, AZ 85706
Telephone
(520) 294-8078
Fax
(520) 294-6352

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Exploration

Address: 861 W. 6th Street

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 623-1052

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 12/2/97 Number of Samples: 233

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [ ]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-423	RC	Au/Ag FA/AA each sample (5')
0-1140' T.D. (228 @ 5')		and
+325B, 470B, 655B, 910B, 995B		TCP package on 4-sample composites (20')
		and
		Hg by AA on 4-sample composites (20')
		exclude "B" samples from composites but do TCP and Hg analyses on each "B" sample separately if there is enough pulp

325B
G01-214

470B
MS-1
(RMG1)

PEEL HERE

910 B
MS-3
MS-3

PEEL HERE

655B
G 0 1 - 166
G 0 1 - 166

PEEL HERE

MS-3
MS-3
995B

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Bellew
Newmont Exploration
Winnemucca

Results to:

Randy Vance
Newmont Exploration
861 W. 6th Street
Winnemucca, NV 89445

Comments:

Newmont standard prep

CLIENT FILE COPY

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 11530
Reno, NV 89510
Telephone
(702) 356-0606
Fax
(702) 356-1413

Tucson Office
2775 E. Ganley
Tucson, AZ 85706
Telephone
(520) 294-8078
Fax
(520) 294-6352

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Company

Address: 861 W. 6th Street

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) ~~623-1052~~ 625-5655

Project Name: Rosebud Exploration Purchase Order Number: _____

Date Submitted: _____ Number of Samples: 100

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [ ]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-423: 1140-1574.8'	Core	Au FA30 & Ag D210 each sample
		AAL 1/2 + Se on 4-sample composites
		exclude 1568.4-1571.3B from composites
		RS-423 1568.4-1571.3B MS-1 (RMG1)

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Ballew
Newmont Gold
Winnemucca

Results to:

Randy Vance
Newmont Gold
861 W. 6th Street
Winnemucca, NV 89445

Comments:

Newmont Rosebud Standard Prep

CLIENT FILE COPY

1140	1145.2
1145.2	1150
1150	1154.8
1154.8	1160
1160	1164.5
1164.5	1168.3
1168.3	1171.4
1171.4	1174.3
1174.3	1177.8
1177.8	1180.9
1180.9	1185.6
1185.6	1189
1189	1191.2
1191.2	1196.4
1196.4	1201.5
1201.5	1205.9
1205.9	1210.8
1210.8	1215.9
1215.9	1220.5
1220.5	1225
1225	1228.5
1228.5	1232.4
1232.4	1236.4
1236.4	1241
1241	1246.2
1246.2	1249.3
1249.3	1253.5
1253.5	1258.3
1258.3	1262.6
1262.6	1266.9
1266.9	1271.6
1271.6	1276.4
1276.4	1281.6
1281.6	1286.1
1286.1	1291.2
1291.2	1296.3
1296.3	1299.3
1299.3	1304
1304	1309
1309	1313.9
1313.9	1319
1319	1324.1
1324.1	1329
1329	1334.3
1334.3	1339.5
1339.5	1345
1345	1350.5
1350.5	1355.7
1355.7	1357.6
1357.6	1363.6

1363.6	1367.8
1367.8	1371.6
1371.6	1376.4
1376.4	1381.7
1381.7	1386.7
1386.7	1389.5
1389.5	1393.5
1393.5	1398.7
1398.7	1403.8
1403.8	1408.3
1408.3	1414.2
1414.2	1418.1
1418.1	1420.3
1420.3	1423.9
1423.9	1426
1426	1430.3
1430.3	1432
1432	1440
1440	1445
1445	1450
1450	1455.1
1455.1	1460
1460	1465
1465	1470
1470	1473.5
1473.5	1478.6
1478.6	1485.5
1485.5	1491.2
1491.2	1493.9
1493.9	1497.7
1497.7	1500.5
1500.5	1508
1508	1510
1510	1514
1514	1519
1519	1524
1524	1524.9
1524.9	1529.5
1529.5	1534.9
1534.9	1538.5
1538.5	1541.2
1541.2	1546.6
1546.6	1553
1553	1554.9
1554.9	1560
1560	1564.4
1564.4	1568.4
1568.4	1571.3
1568.4	1571.3B
1571.3	1574.8

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 11530
Reno, NV 89510
Telephone
(702) 356-0606
Fax
(702) 356-1413

Tucson Office
2775 E. Ganley
Tucson, AZ 85706
Telephone
(520) 294-8078
Fax
(520) 294-6352

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Company

Address: 561 W. 6th Street

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 625-5655

Project Name: Rosebud Exploration Purchase Order Number: _____

Date Submitted: _____ Number of Samples: 92

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [ ]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-423: 1574.8–1945'	Core	Au FA30 & Ag D210 each sample
		AAL 1/2+Se on 4-sample composites

RS-423
1687-1691.5
MS-2
MS-2

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Ballew
Newmont Gold
Winnemucca

Results to:

Randy Vance
Newmont Gold
Winnemucca

Comments:

Newmont Rosebud Standard Prep

CLIENT FILE COPY

1574.8	1578.9
1578.9	1580.5
1580.5	1584.2
1584.2	1587.5
1587.5	1588.9
1588.9	1591.2
1591.2	1596.6
1596.6	1602
1602	1607
1607	1609.2
1609.2	1611
1611	1615
1615	1618.1
1618.1	1619.6
1619.6	1623.7
1623.7	1628.6
1628.6	1632.8
1632.8	1635.6
1635.6	1639
1639	1644.6
1644.6	1649.9
1649.9	1654.9
1654.9	1658.8
1658.8	1662.1
1662.1	1666.5
1666.5	1671.5
1671.5	1676.5
1676.5	1681.5
1681.5	1687
1687	1691.5B
1691.5	1694.9
1694.9	1700
1700	1704
1704	1707
1707	1710.5
1710.5	1714.4
1714.4	1718.9
1718.9	1723.6
1723.6	1725
1725	1730
1730	1735
1735	1740
1740	1744.9
1744.9	1750
1750	1754.3
1754.3	1758.2
1758.2	1763.2
1763.2	1766.4
1766.4	1769.6
1769.6	1774.2

1774.2	1774.8
1774.8	1780
1780	1785
1785	1790
1790	1794.7
1794.7	1800
1800	1804
1804	1810.4
1810.4	1816
1816	1818.3
1818.3	1823.3
1823.3	1828.8
1828.8	1831.8
1831.8	1833.4
1833.4	1835.7
1835.7	1839.8
1839.8	1845.4
1845.4	1851
1851	1856.5
1856.5	1861.2
1861.2	1864.5
1864.5	1867.7
1867.7	1871
1871	1873.7
1873.7	1877.7
1877.7	1880
1880	1883.4
1883.4	1887.8
1887.8	1891
1891	1894.2
1894.2	1895
1895	1898.3
1898.3	1902
1902	1904.9
1904.9	1910
1910	1915
1915	1920
1920	1924.8
1924.8	1930
1930	1934.8
1934.8	1940
1940	1945

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 11530
Reno, NV 89510
Telephone
(702) 356-0606
Fax
(702) 356-1413

Tucson Office
2775 E. Ganley
Tucson, AZ 85706
Telephone
(520) 294-8078
Fax
(520) 294-6352

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Company

Address: 861 W. 6th Street

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 625-5655

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 5/18/98 Number of Samples: 65

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [ ]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-423: 1945-2239'	Core	Au FA30 & Ag OA10 each sample
See attached list		
		AAL 1/2 +5e on composites or
		individual samples as shown on
		attached list

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Ballew
Newmont Gold
Winnemucca

Results to:

Randy Vance
Newmont Gold
Winnemucca

Comments:

Newmont Rosebud Standard Prep

PEEL HERE

MS-3
MS-3
RS-423
2042.2-2046.3

CLIENT FILE COPY

1945	1950	* composite
1950	1953	
1953	1956	
1956	1958.1	* composite
1958.1	1962	
1962	1966.8	* composite
1966.8	1971.6	
1971.6	1976.3	
1976.3	1981	* composite
1981	1986	
1986	1991.3	
1991.3	1996.9	
1996.9	1999.4	* composite
1999.4	2005	
2005	2009.7	
2009.7	2013.6	*composite
2013.6	2016.8	
2016.8	2020	* composite
2020	2023.8	
2023.8	2028.7	
2028.7	2032.3	* composite
2032.3	2037.4	
2037.4	2042.2	
2042.2	2046.3	
2042.2	2046.3B	- no ICP analyses
2046.3	2051.4	* composite
2051.4	2056.7	
2056.7	2062.3	
2062.3	2067.4	
2067.4	2072.7	
2072.7	2076	
2076	2080	
2080	2085.2	* composite
2085.2	2090	
2090	2095.2	
2095.2	2100.9	
2100.9	2106.6	
2106.6	2112.7	
2112.7	2115.7	- individual
2115.7	2119.7	* composite
2119.7	2125.8	
2125.8	2131.9	
2131.9	2136.9	
2136.9	2142.5	
2142.5	2147.6	
2147.6	2152.6	- individual
2152.6	2157.7	* composite
2157.7	2163.3	
2163.3	2168.1	
2168.1	2173.5	

2173.5	2178.5	* composite
2178.5	2181.2	
2181.2	2186.1	* composite
2186.1	2191.4	
2191.4	2197.5	
2197.5	2200	* composite
2200	2201.2	
2201.2	2206.9	
2206.9	2213	
2213	2214.5	– individual
2214.5	2221.1	– individual
2221.1	2226.3	– individual
2226.3	2230	* composite
2230	2234.7	
2234.7	2239	

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT EXPLORATION LTD. *
****

JOB NUMBER: 29-0521-311

WELL NAME: RS-423 / VS 035.00

LOCATION: ROSEBUD MINE

SURVEY DATE: 12/10/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: COLLAR

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 125.00

****
****** DEPTH MEASURED IN FEET *******
****

COMMENTS: ** BOART LONGYEAR **
**** MIKE PENTZ ****
***** MIKE JEX *****

****
****
*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
**
**
**
****
****

****
COMPANY REPRESENTATIVE

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-423 / VS 035.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-74.54	001.53	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	48.20	-7.60	-10.906	-74.61	358.69	13.29 N	0.03 E	1.52	0.76	13.29	AT 000.11
100.0	96.40	-15.67	-21.493	-74.51	356.71	26.59 N	0.51 W	1.07	0.54	26.60	AT 358.91
150.0	144.57	-24.07	-31.926	-74.41	355.61	39.96 N	1.41 W	0.63	0.31	39.98	AT 357.99
200.0	192.73	-32.67	-42.236	-74.44	354.73	53.34 N	2.54 W	0.48	0.24	53.40	AT 357.28
250.0	240.89	-41.18	-52.658	-74.33	356.79	66.76 N	3.53 W	1.13	0.56	66.85	AT 356.97
300.0	289.06	-49.69	-63.008	-74.57	354.33	80.12 N	4.57 W	1.40	0.70	80.25	AT 356.74
350.0	337.23	-58.48	-73.119	-74.35	353.69	93.44 N	5.96 W	0.56	0.28	93.63	AT 356.35
400.0	385.38	-67.58	-83.048	-74.39	351.28	106.79 N	7.72 W	1.30	0.65	107.07	AT 355.86
450.0	433.57	-76.96	-92.497	-74.71	349.09	119.91 N	9.99 W	1.33	0.67	120.33	AT 355.24
500.0	481.96	-85.86	-101.407	-76.11	351.06	132.32 N	12.17 W	2.97	1.48	132.88	AT 354.74
550.0	530.44	-94.23	-110.343	-75.54	352.65	144.44 N	13.90 W	1.38	0.69	145.10	AT 354.50
600.0	578.68	-103.26	-119.901	-73.97	350.74	157.44 N	15.81 W	3.30	1.65	158.24	AT 354.27
650.0	626.42	-113.81	-130.340	-71.48	348.76	172.05 N	18.47 W	5.12	2.56	173.04	AT 353.87
700.0	673.56	-125.57	-142.117	-69.62	351.19	188.44 N	21.35 W	4.05	2.03	189.65	AT 353.54
750.0	720.18	-137.73	-155.487	-68.00	354.17	206.36 N	23.64 W	3.89	1.95	207.71	AT 353.47
800.0	766.47	-149.89	-169.948	-67.58	355.67	225.19 N	25.31 W	1.41	0.71	226.61	AT 353.59
850.0	812.34	-161.99	-185.759	-65.47	359.34	245.08 N	26.15 W	5.13	2.57	246.47	AT 353.91
900.0	857.69	-173.72	-203.217	-64.75	002.80	266.11 N	25.74 W	3.24	1.62	267.35	AT 354.47
950.0	902.69	-184.84	-221.976	-63.52	005.84	287.85 N	24.09 W	3.62	1.81	288.86	AT 355.22
1000.0	947.30	-195.57	-241.832	-62.81	007.38	310.27 N	21.49 W	1.99	0.99	311.01	AT 356.04
1050.0	991.74	-205.71	-262.386	-62.61	010.09	332.92 N	18.01 W	2.52	1.26	333.41	AT 356.90
1100.0	1036.06	-214.85	-283.649	-62.22	013.35	355.59 N	13.30 W	3.12	1.56	355.83	AT 357.86
1150.0	1080.30	-223.19	-305.403	-62.23	014.70	378.19 N	7.66 W	1.25	0.63	378.27	AT 358.84
1200.0	1124.48	-231.38	-327.333	-61.94	014.36	400.85 N	1.78 W	0.66	0.33	400.85	AT 359.74
1250.0	1168.62	-239.69	-349.297	-62.03	014.17	423.61 N	4.00 E	0.26	0.13	423.63	AT 000.54
1300.0	1212.78	-248.04	-371.204	-62.05	014.13	446.34 N	9.73 E	0.06	0.03	446.45	AT 001.25
1350.0	1256.98	-256.58	-392.974	-62.18	013.05	469.07 N	15.23 E	1.04	0.52	469.32	AT 001.86
1400.0	1301.28	-265.44	-414.397	-62.57	012.00	491.70 N	20.26 E	1.25	0.62	492.12	AT 002.36
1450.0	1345.74	-274.40	-435.446	-62.97	011.87	514.09 N	24.99 E	0.81	0.40	514.69	AT 002.78
1500.0	1390.38	-283.35	-456.098	-63.52	011.25	536.14 N	29.50 E	1.23	0.62	536.95	AT 003.15
1550.0	1435.21	-292.30	-476.357	-63.90	011.11	557.86 N	33.79 E	0.77	0.39	558.89	AT 003.47
1600.0	1480.12	-301.39	-496.374	-63.93	010.04	579.47 N	37.83 E	0.95	0.47	580.71	AT 003.73
1650.0	1525.03	-310.74	-516.264	-63.91	009.58	601.13 N	41.57 E	0.40	0.20	602.57	AT 003.96
1700.0	1570.04	-320.24	-535.859	-64.45	008.68	622.63 N	45.03 E	1.34	0.67	624.26	AT 004.14
1750.0	1615.17	-329.84	-555.112	-64.59	008.35	643.91 N	48.21 E	0.39	0.20	645.71	AT 004.28
1800.0	1660.40	-339.52	-574.112	-64.91	007.60	665.03 N	51.17 E	0.91	0.45	666.99	AT 004.40

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-423 / VS 035.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
1850.0	1705.62	-349.43	-592.997	-64.60	007.06	686.18 N	53.90 E	0.78	0.39	688.29	AT 004.49
1900.0	1750.88	-359.38	-611.787	-65.07	007.14	707.28 N	56.52 E	0.94	0.47	709.53	AT 004.57
1950.0	1796.30	-369.24	-630.198	-65.55	006.51	728.01 N	59.00 E	1.10	.0.55	730.40	AT 004.63
2000.0	1841.90	-379.20	-648.130	-66.00	005.36	748.42 N	61.13 E	1.30	0.65	750.91	AT 004.67
2050.0	1887.61	-389.38	-665.654	-66.18	004.36	768.61 N	62.84 E	0.89	0.44	771.18	AT 004.67
2100.0	1933.45	-399.68	-682.759	-66.75	003.53	788.53 N	64.22 E	1.32	0.66	791.14	AT 004.66
2150.0	1979.46	-410.01	-699.379	-67.17	002.73	808.07 N	65.29 E	1.05	0.52	810.70	AT 004.62
2200.0	2025.56	-420.34	-715.751	-67.26	002.72	827.41 N	66.21 E	0.18	0.09	830.05	AT 004.58
2239.0	2061.56	-428.51	-728.324	-67.52	001.26	842.39 N	66.73 E	1.58	0.62	845.03	AT 004.53

```
*************************************************************
*                         ********                          *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                         ********                          *
*  2239.0 FEET EQUALS   845.03   FEET AT   004.53           *
*                         ********                          *
*************************************************************
```

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT EXPLORATION LTD. *
****

JOB NUMBER: 29-0521-311

WELL NAME: RS-423

LOCATION: ROSEBUD MINE

SURVEY DATE: 12/10/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: COLLAR

WELNAV

****
****** DEPTH MEASURED IN FEET *******
****

COMMENTS: ** BOART LONGYEAR **
**** MIKE PENTZ ****
***** MIKE JEX *****

****
****
*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
**
**
**
****
****

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-423

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-74.54	001.53	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	48.20	13.26	-1.024	-74.61	358.69	13.29 N	0.03 E	1.52	0.76	13.29	AT 000.11
100.0	96.40	26.47	-2.607	-74.51	356.71	26.59 N	0.51 W	1.07	0.54	26.60	AT 358.91
150.0	144.57	39.72	-4.557	-74.41	355.61	39.96 N	1.41 W	0.63	0.31	39.98	AT 357.99
200.0	192.73	52.97	-6.740	-74.44	354.73	53.34 N	2.54 W	0.48	0.24	53.40	AT 357.28
250.0	240.89	66.27	-8.791	-74.33	356.79	66.76 N	3.53 W	1.13	0.56	66.85	AT 356.97
300.0	289.06	79.51	-10.879	-74.57	354.33	80.12 N	4.57 W	1.40	0.70	80.25	AT 356.74
350.0	337.23	92.68	-13.326	-74.35	353.69	93.44 N	5.96 W	0.56	0.28	93.63	AT 356.35
400.0	385.38	105.85	-16.135	-74.39	351.28	106.79 N	7.72 W	1.30	0.65	107.07	AT 355.86
450.0	433.57	118.75	-19.431	-74.71	349.09	119.91 N	9.99 W	1.33	0.67	120,33	AT 355.24
500.0	481.96	130.94	-22.584	-76.11	351.06	132.32 N	12.17 W	2.97	1.48	132.88	AT 354.74
550.0	530.44	142.89	-25.266	-75.54	352.65	144.44 N	13.90 W	1.38	0.69	145.10	AT 354.50
600.0	578.68	155.70	-28.196	-73.97	350.74	157.44 N	15.81 W	3.30	1.65	158.24	AT 354.27
650.0	626.42	170.05	-32.000	-71.48	348.76	172.05 N	18.47 W	5.12	2.56	173.04	AT 353.87
700.0	673.56	186.17	-36.166	-69.62	351.19	188.44 N	21.35 W	4.05	2.03	189.65	AT 353.54
750.0	720.18	203.85	-39.860	-68.00	354.17	206.36 N	23.64 W	3.89	1.95	207.71	AT 353.47
800.0	766.47	222.49	-43.013	-67.58	355.67	225.19 N	25.31 W	1.41	0.71	226.61	AT 353.59
850.0	812.34	242.25	-45.420	-65.47	359.34	245.08 N	26.15 W	5.13	2.57	246.47	AT 353.91
900.0	857.69	263.24	-46.682	-64.75	002.80	266.11 N	25.74 W	3.24	1.62	267.35	AT 354.47
950.0	902.69	285.05	-46.750	-63.52	005.84	287.85 N	24.09 W	3.62	1.81	288.86	AT 355.22
1000.0	947.30	307.60	-45.929	-62.81	007.38	310.27 N	21.49 W	1.99	0.99	311.01	AT 356.04
1050.0	991.74	330.46	-44.247	-62.61	010.09	332.92 N	18.01 W	2.52	1.26	333.41	AT 356.90
1100.0	1036.06	353.42	-41.345	-62.22	013.35	355.59 N	13.30 W	3.12	1.56	355.83	AT 357.86
1150.0	1080.30	376.40	-37.502	-62.23	014.70	378.19 N	7.66 W	1.25	0.63	378.27	AT 358.84
1200.0	1124.48	399.46	-33.439	-61.94	014.36	400.85 N	1.78 W	0.66	0.33	400.85	AT 359.74
1250.0	1168.62	422.60	-29.467	-62.03	014.17	423.61 N	4.00 E	0.26	0.13	423.63	AT 000.54
1300.0	1212.78	445.72	-25.551	-62.05	014.13	446.34 N	9.73 E	0.06	0.03	446.45	AT 001.25
1350.0	1256.98	468.81	-21.869	-62.18	013.05	469.07 N	15.23 E	1.04	0.52	469.32	AT 001.86
1400.0	1301.28	491.77	-18.643	-62.57	012.00	491.70 N	20.26 E	1.25	0.62	492.12	AT 002.36
1450.0	1345.74	514.45	-15.695	-62.97	011.87	514.09 N	24.99 E	0.81	0.40	514.69	AT 002.78
1500.0	1390.38	536.79	-12.939	-63.52	011.25	536.14 N	29.50 E	1.23	0.62	536.95	AT 003.15
1550.0	1435.21	558.79	-10.373	-63.90	011.11	557.86 N	33.79 E	0.77	0.39	558.89	AT 003.47
1600.0	1480.12	580.65	-8.059	-63.93	010.04	579.47 N	37.83 E	0.95	0.47	580.71	AT 003.73
1650.0	1525.03	602.54	-6.037	-63.91	009.58	601.13 N	41.57 E	0.40	0.20	602.57	AT 003.96
1700.0	1570.04	624.25	-4.289	-64.45	008.68	622.63 N	45.03 E	1.34	0.67	624.26	AT 004.14
1750.0	1615.17	645.70	-2.794	-64.59	008.35	643.91 N	48.21 E	0.39	0.20	645.71	AT 004.28
1800.0	1660.40	666.99	-1.510	-64.91	007.60	665.03 N	51.17 E	0.91	0.45	666.99	AT 004.40

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-423

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
1850.0	1705.62	688.29	-0.468	-64.60	007.06	686.18 N	53.90 E	0.78	0.39	688.29	AT 004.49
1900.0	1750.88	709.53	0.484	-65.07	007.14	707.28 N	56.52 E	0.94	0.47	709.53	AT 004.57
1950.0	1796.30	730.40	1.321	-65.55	006.51	728.01 N	59.00 E	1.10	0.55	730.40	AT 004.63
2000.0	1841.90	750.91	1.824	-66.00	005.36	748.42 N	61.13 E	1.30	0.65	750.91	AT 004.67
2050.0	1887.61	771.17	1.941	-66.18	004.36	768.61 N	62.84 E	0.89	0.44	771.18	AT 004.67
2100.0	1933.45	791.14	1.740	-66.75	003.53	788.53 N	64.22 E	1.32	0.66	791.14	AT 004.66
2150.0	1979.46	810.70	1.264	-67.17	002.73	808.07 N	65.29 E	1.05	0.52	810.70	AT 004.62
2200.0	2025.56	830.05	0.655	-67.26	002.72	827.41 N	66.21 E	0.18	0.09	830.05	AT 004.58
2239.0	2061.56	845.03	-0.008	-67.52	001.26	842.39 N	66.73 E	1.58	0.62	845.03	AT 004.53

```
*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  2239.0 FEET EQUALS   845.03   FEET AT   004.53           *
*                          ********                         *
*************************************************************
```

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT EXPLORATION LTD. *
****

JOB NUMBER: 29-0521-311

WELL NAME: RS-423 / VS 305.00

LOCATION: ROSEBUD MINE

SURVEY DATE: 12/10/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: COLLAR

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 035.00

****
****** DEPTH MEASURED IN FEET *******
****

COMMENTS: ** BOART LONGYEAR **
**** MIKE PENTZ ****
***** MIKE JEX *****

****
****
*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
**
**
**
****
****

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-423 / VS 305.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-74.54	001.53	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	48.20	10.91	-7.604	-74.61	358.69	13.29 N	0.03 E	1.52	0.76	13.29	AT 000.11
100.0	96.40	21.49	-15.670	-74.51	356.71	26.59 N	0.51 W	1.07	0.54	26.60	AT 358.91
150.0	144.57	31.93	-24.070	-74.41	355.61	39.96 N	1.41 W	0.63	0.31	39.98	AT 357.99
200.0	192.73	42.24	-32.669	-74.44	354.73	53.34 N	2.54 W	0.48	0.24	53.40	AT 357.28
250.0	240.89	52.66	-41.181	-74.33	356.79	66.76 N	3.53 W	1.13	0.56	66.85	AT 356.97
300.0	289.06	63.01	-49.693	-74.57	354.33	80.12 N	4.57 W	1.40	0.70	80.25	AT 356.74
350.0	337.23	73.12	-58.480	-74.35	353.69	93.44 N	5.96 W	0.56	0.28	93.63	AT 356.35
400.0	385.38	83.05	-67.581	-74.39	351.28	106.79 N	7.72 W	1.30	0.65	107.07	AT 355.86
450.0	433.57	92.50	-76.964	-74.71	349.09	119.91 N	9.99 W	1.33	0.67	120.33	AT 355.24
500.0	481.96	101.41	-85.864	-76.11	351.06	132.32 N	12.17 W	2.97	1.48	132.88	AT 354.74
550.0	530.44	110.34	-94.233	-75.54	352.65	144.44 N	13.90 W	1.38	0.69	145.10	AT 354.50
600.0	578.68	119.90	-103.257	-73.97	350.74	157.44 N	15.81 W	3.30	1.65	158.24	AT 354.27
650.0	626.42	130.34	-113.811	-71.48	348.76	172.05 N	18.47 W	5.12	2.56	173.04	AT 353.87
700.0	673.56	142.12	-125.575	-69.62	351.19	188.44 N	21.35 W	4.05	2.03	189.65	AT 353.54
750.0	720.18	155.49	-137.726	-68.00	354.17	206.36 N	23.64 W	3.89	1.95	207.71	AT 353.47
800.0	766.47	169.95	-149.892	-67.58	355.67	225.19 N	25.31 W	1.41	0.71	226.61	AT 353.59
850.0	812.34	185.76	-161.988	-65.47	359.34	245.08 N	26.15 W	5.13	2.57	246.47	AT 353.91
900.0	857.69	203.22	-173.723	-64.75	002.80	266.11 N	25.74 W	3.24	1.62	267.35	AT 354.47
950.0	902.69	221.98	-184.839	-63.52	005.84	287.85 N	24.09 W	3.62	1.81	288.86	AT 355.22
1000.0	947.30	241.83	-195.568	-62.81	007.38	310.27 N	21.49 W	1.99	0.99	311.01	AT 356.04
1050.0	991.74	262.39	-205.709	-62.61	010.09	332.92 N	18.01 W	2.52	1.26	333.41	AT 356.90
1100.0	1036.06	283.65	-214.852	-62.22	013.35	355.59 N	13.30 W	3.12	1.56	355.83	AT 357.86
1150.0	1080.30	305.40	-223.193	-62.23	014.70	378.19 N	7.66 W	1.25	0.63	378.27	AT 358.84
1200.0	1124.48	327.33	-231.379	-61.94	014.36	400.85 N	1.78 W	0.66	0.33	400.85	AT 359.74
1250.0	1168.62	349.30	-239.694	-62.03	014.17	423.61 N	4.00 E	0.26	0.13	423.63	AT 000.54
1300.0	1212.78	371.20	-248.039	-62.05	014.13	446.34 N	9.73 E	0.06	0.03	446.45	AT 001.25
1350.0	1256.98	392.97	-256.575	-62.18	013.05	469.07 N	15.23 E	1.04	0.52	469.32	AT 001.86
1400.0	1301.28	414.40	-265.437	-62.57	012.00	491.70 N	20.26 E	1.25	0.62	492.12	AT 002.36
1450.0	1345.74	435.45	-274.400	-62.97	011.87	514.09 N	24.99 E	0.81	0.40	514.69	AT 002.78
1500.0	1390.38	456.10	-283.353	-63.52	011.25	536.14 N	29.50 E	1.23	0.62	536.95	AT 003.15
1550.0	1435.21	476.36	-292.296	-63.90	011.11	557.86 N	33.79 E	0.77	0.39	558.89	AT 003.47
1600.0	1480.12	496.37	-301.387	-63.93	010.04	579.47 N	37.83 E	0.95	0.47	580.71	AT 003.73
1650.0	1525.03	516.26	-310.743	-63.91	009.58	601.13 N	41.57 E	0.40	0.20	602.57	AT 003.96
1700.0	1570.04	535.86	-320.244	-64.45	008.68	622.63 N	45.03 E	1.34	0.67	624.26	AT 004.14
1750.0	1615.17	555.11	-329.836	-64.59	008.35	643.91 N	48.21 E	0.39	0.20	645.71	AT 004.28
1800.0	1660.40	574.11	-339.525	-64.91	007.60	665.03 N	51.17 E	0.91	0.45	666.99	AT 004.40

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

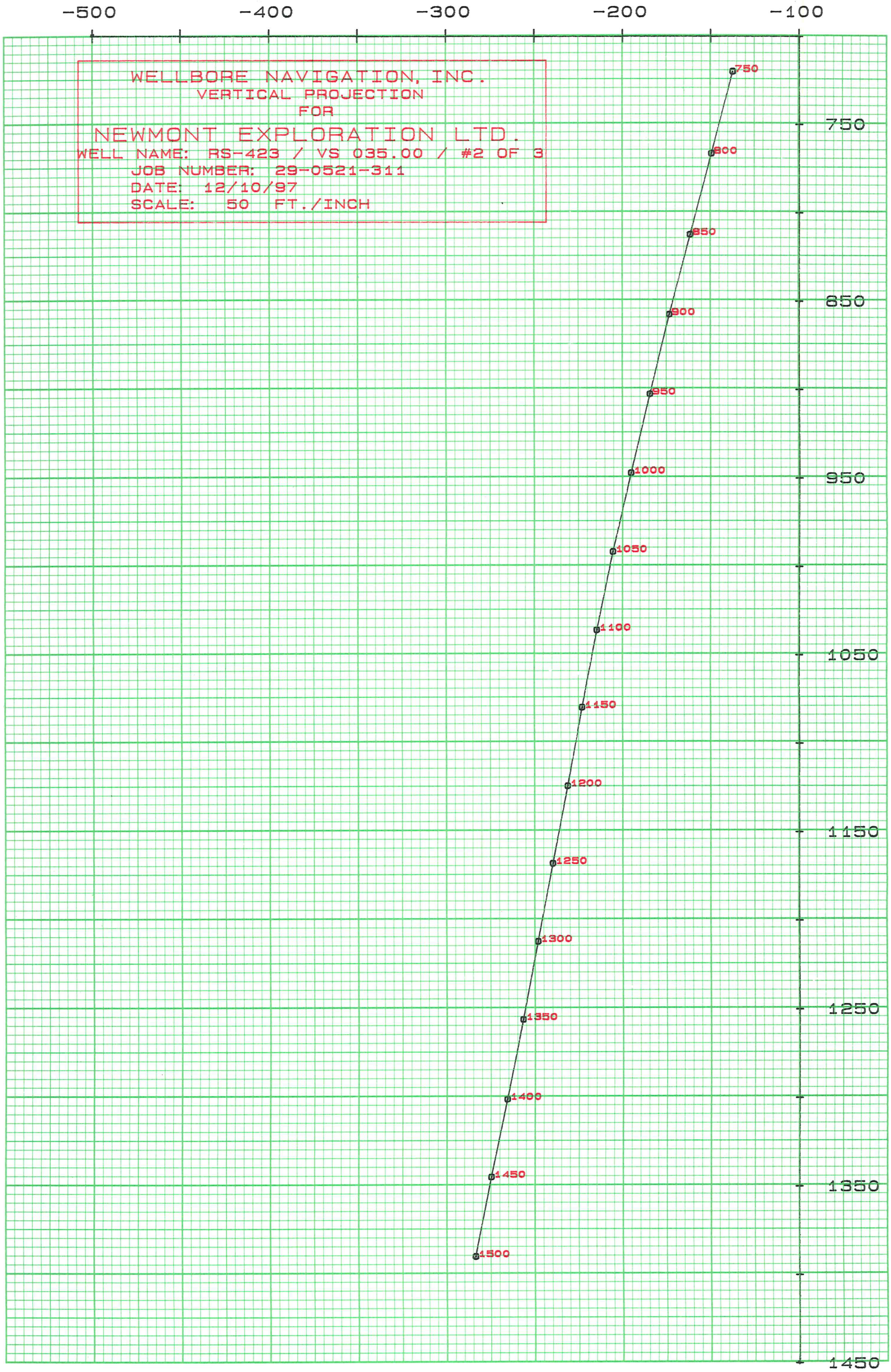
JOB NUMBER: 29-0521-311 WELL NAME: RS-423 / VS 305.00

INRUN SURVEY
BY MINIMUM CURVATURE

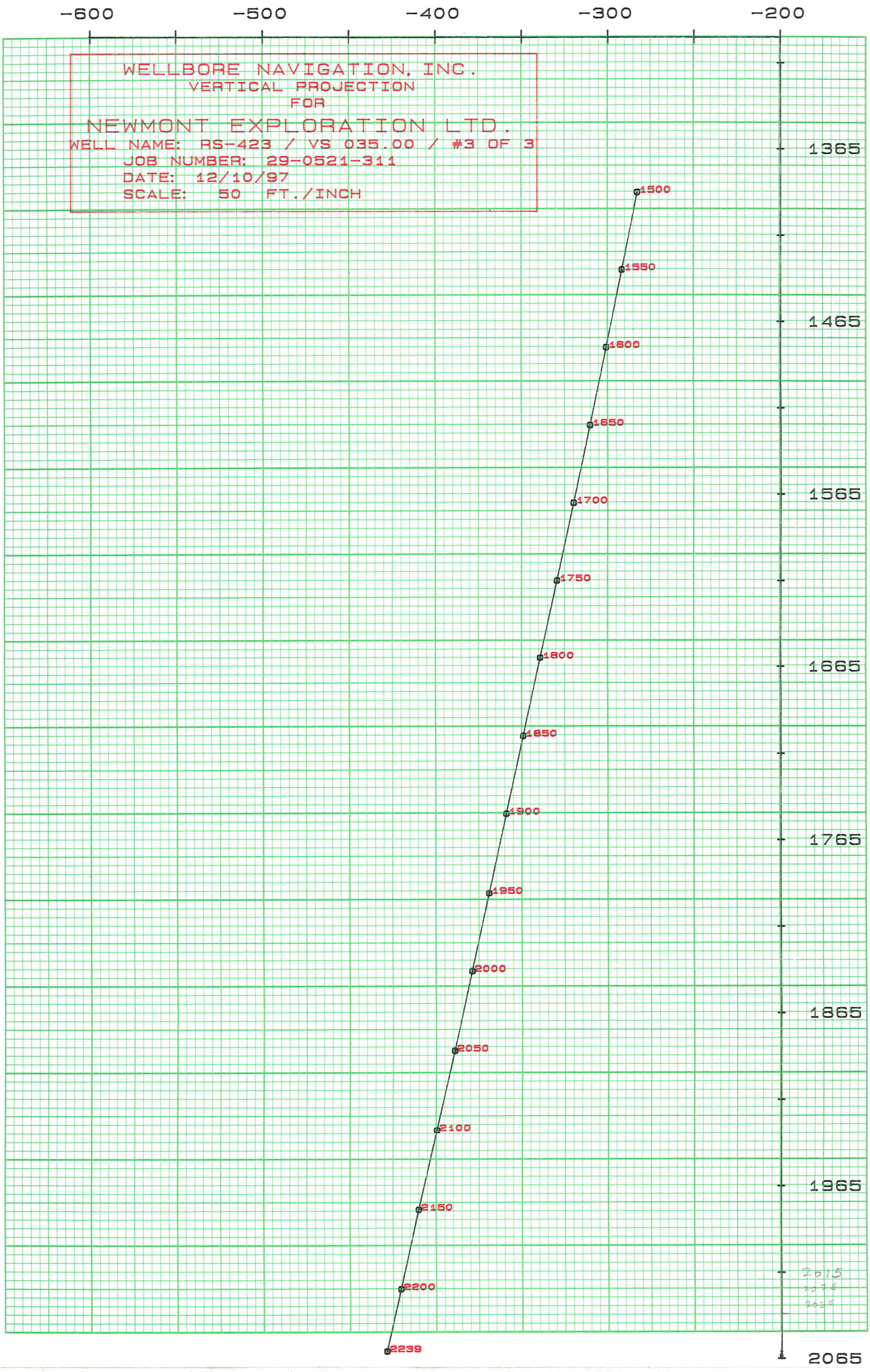
MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
1850.0	1705.62	593.00	-349.428	-64.60	007.06	686.18 N	53.90 E	0.78	0.39	688.29	AT 004.49
1900.0	1750.88	611.79	-359.377	-65.07	007.14	707.28 N	56.52 E	0.94	0.47	709.53	AT 004.57
1950.0	1796.30	630.20	-369.238	-65.55	006.51	728.01 N	59.00 E	1.10	0.55	730.40	AT 004.63
2000.0	1841.90	648.13	-379.204	-66.00	005.36	748.42 N	61.13 E	1.30	0.65	750.91	AT 004.67
2050.0	1887.61	665.65	-389.379	-66.18	004.36	768.61 N	62.84 E	0.89	0.44	771.18	AT 004.67
2100.0	1933.45	682.76	-399.676	-66.75	003.53	788.53 N	64.22 E	1.32	0.66	791.14	AT 004.66
2150.0	1979.46	699.38	-410.005	-67.17	002.73	808.07 N	65.29 E	1.05	0.52	810.70	AT 004.62
2200.0	2025.56	715.75	-420.345	-67.26	002.72	827.41 N	66.21 E	0.18	0.09	830.05	AT 004.58
2239.0	2061.56	728.32	-428.512	-67.52	001.26	842.39 N	66.73 E	1.58	0.62	845.03	AT 004.53

```
*************************************************************
*                          ********                         *
*       THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF         *
*                          ********                         *
*  2239.0 FEET EQUALS      845.03   FEET AT   004.53        *
*                          ********                         *
*************************************************************
```

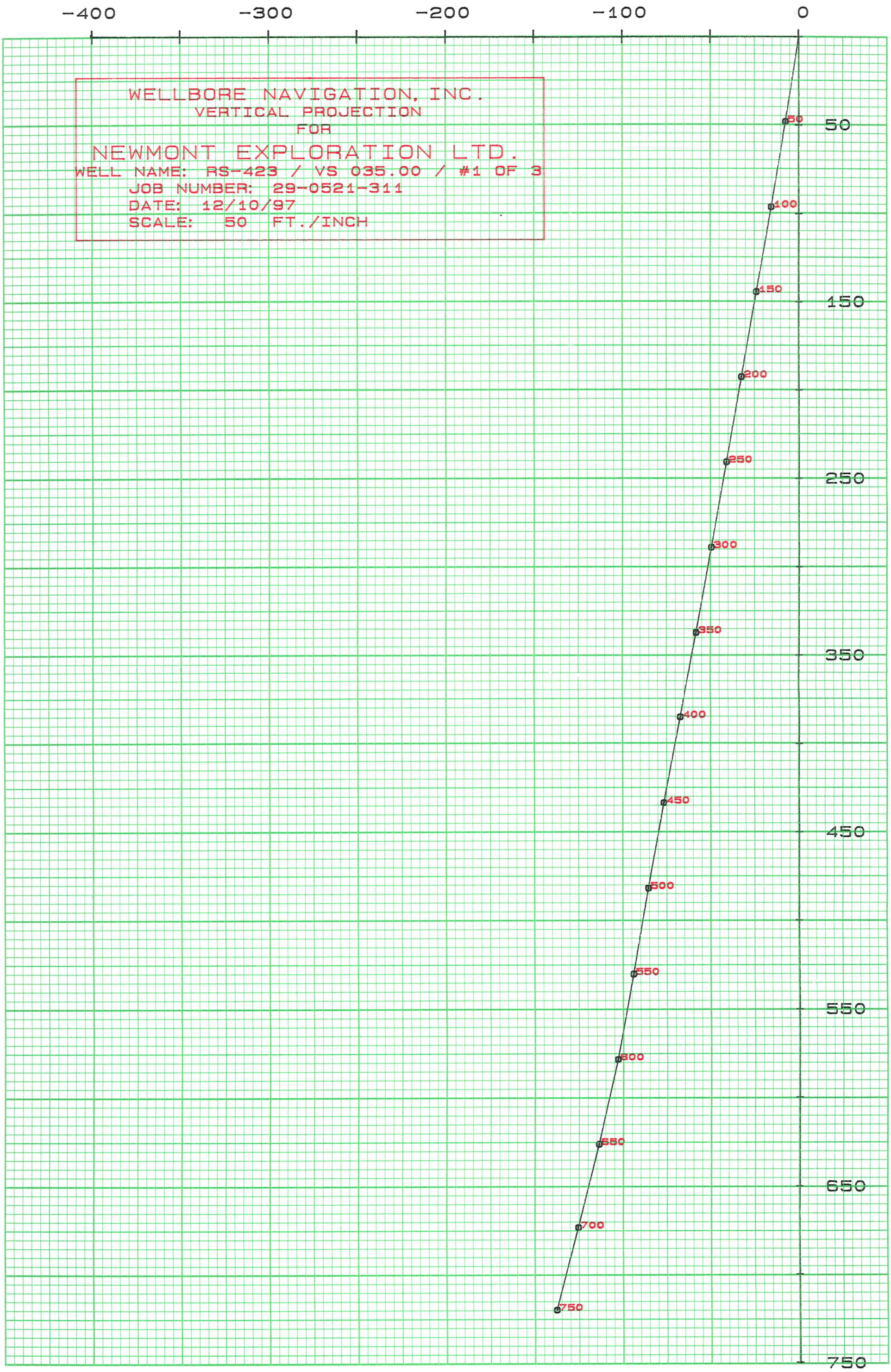
STARLIGHT PRINTING (801) 467-2841



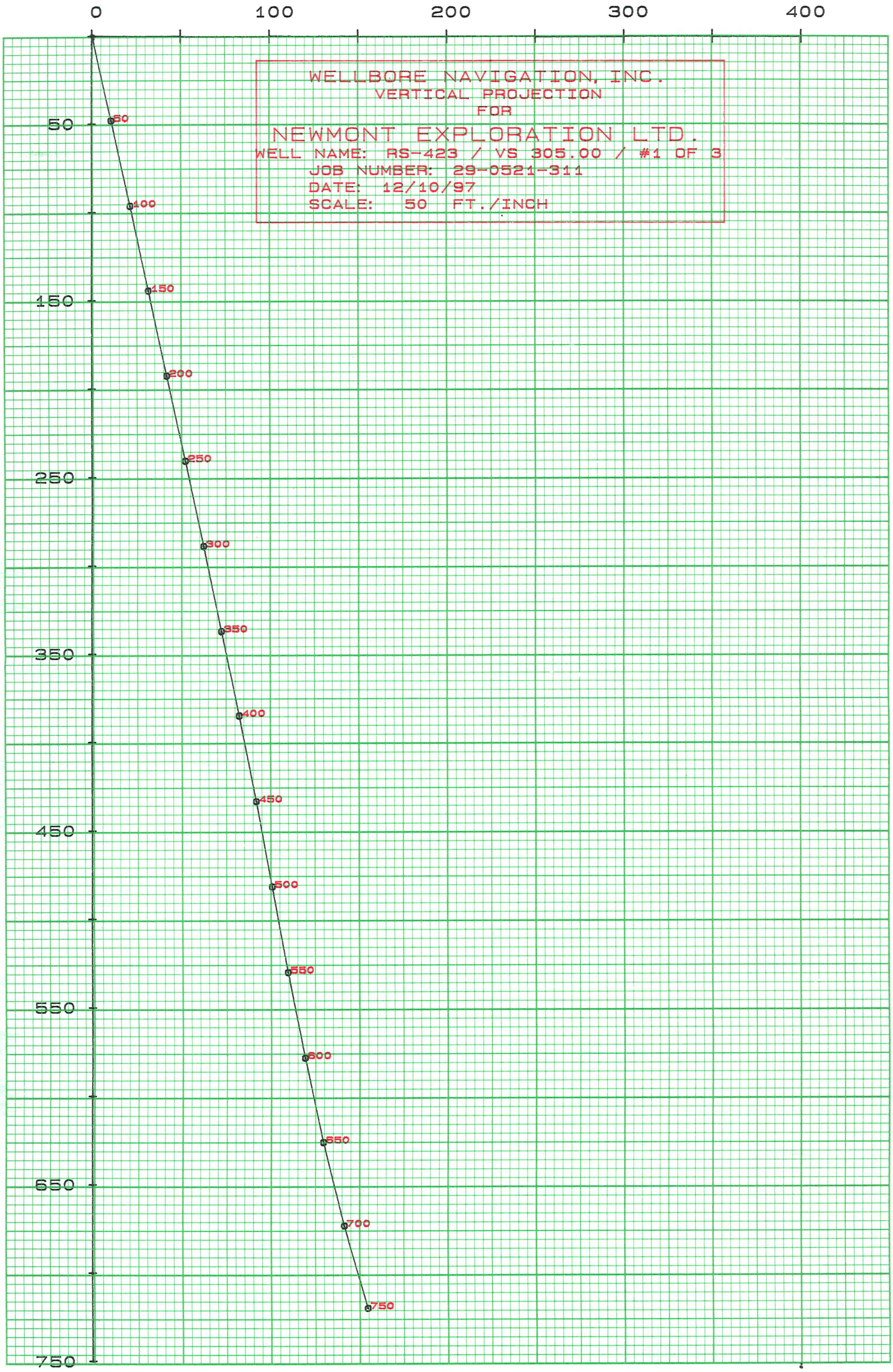
STARLIGHT PRINTING (801) 467-2841



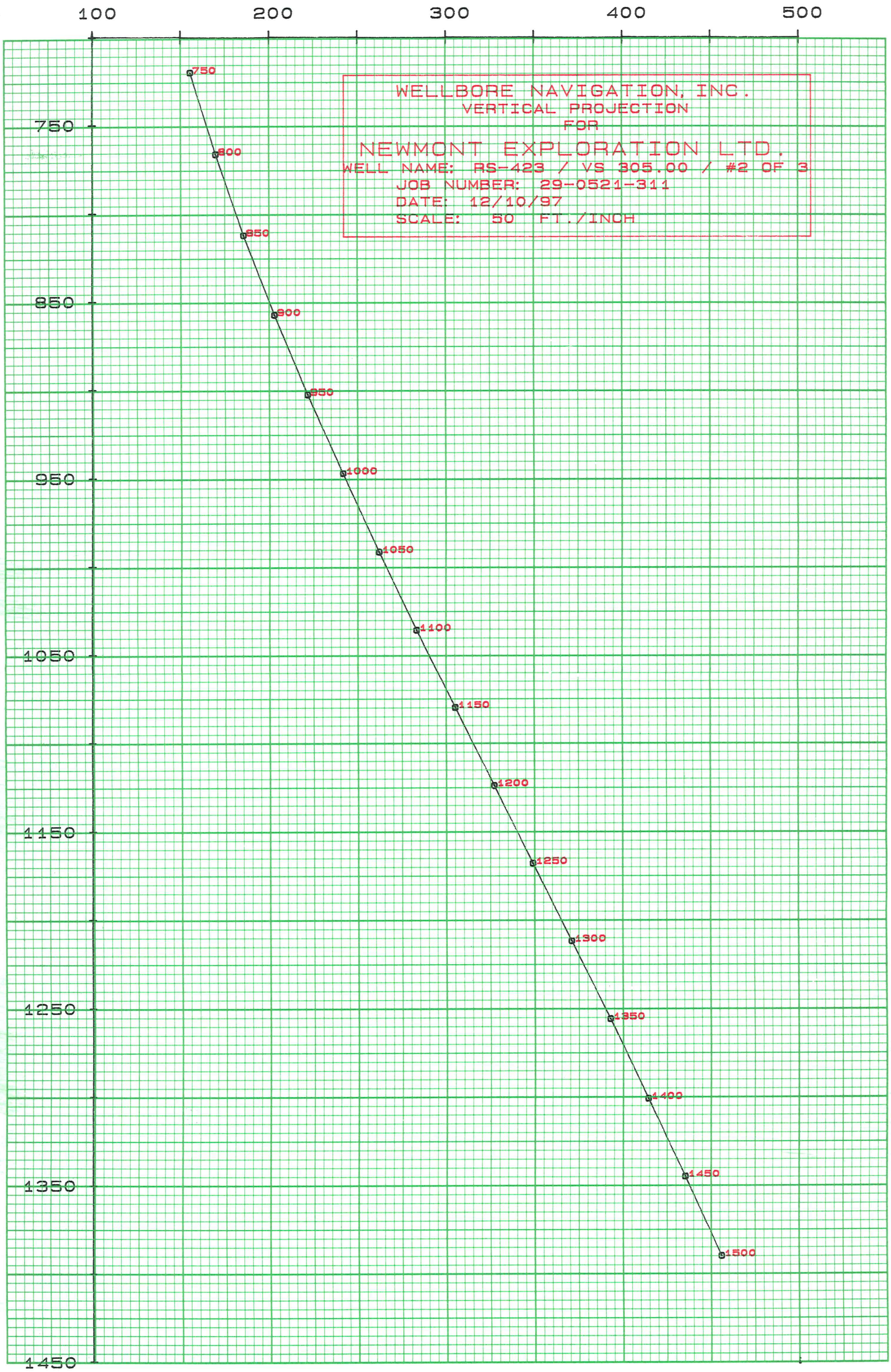
STARLIGHT PRINTING (801) 467-2841



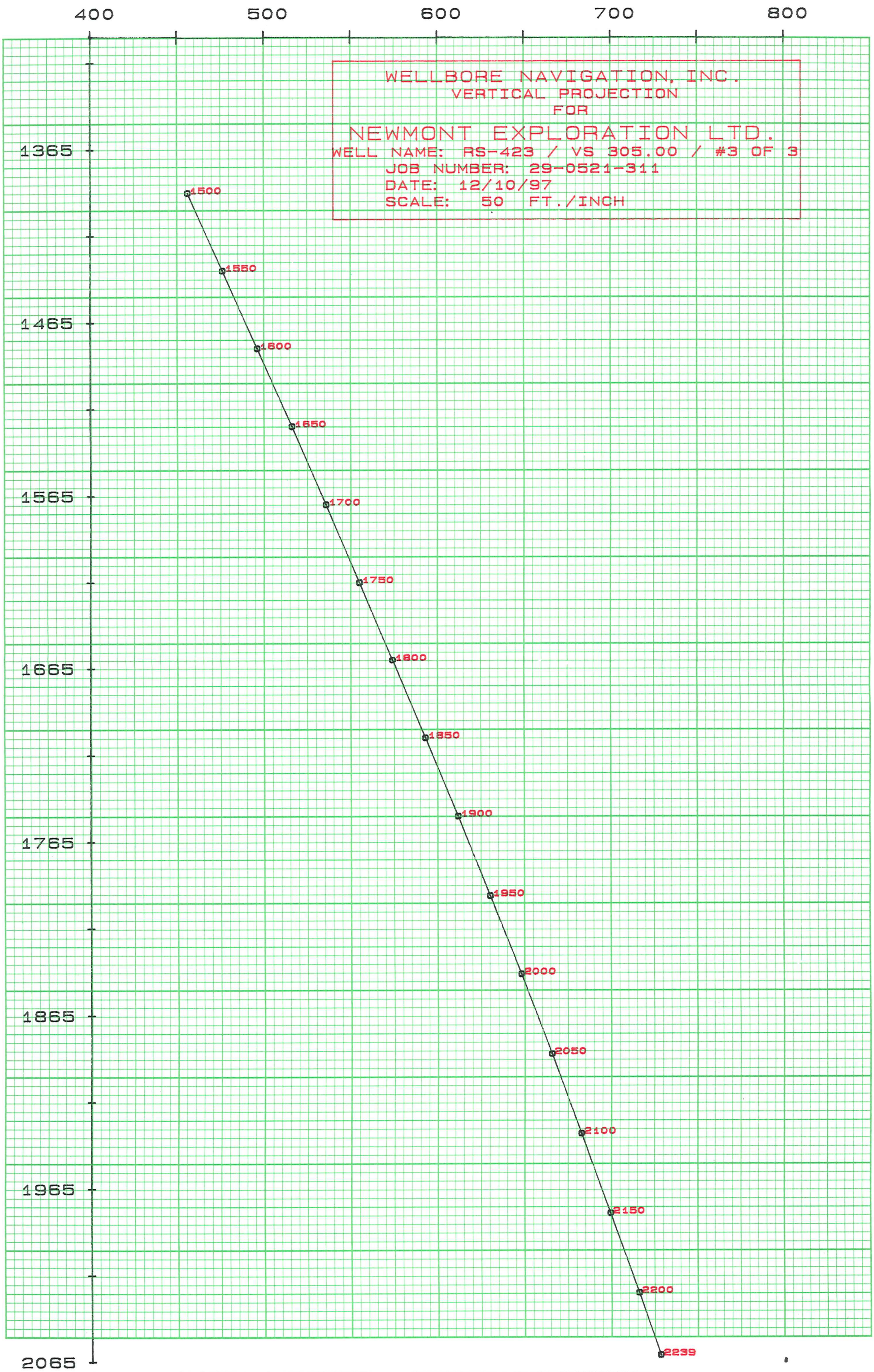
STARLIGHT PRINTING (801) 467-2841



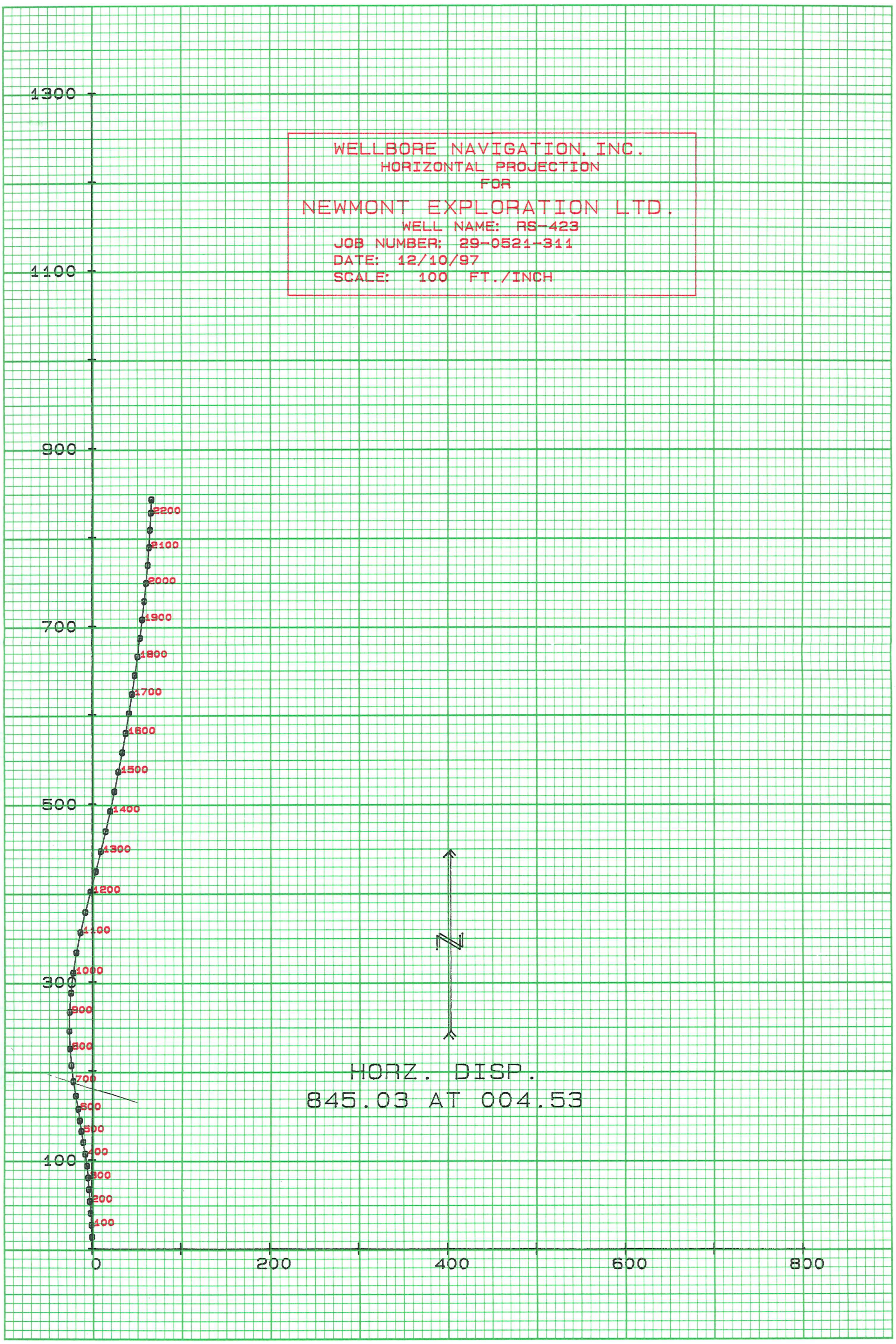
STARLIGHT PRINTING (801) 467-2841



STARLIGHT PRINTING (801) 467-2841



STARLIGHT PRINTING (801) 467-2841



Hi Steve –

1700	1704
1704	1707
1707	1710.5
1710.5	1714.4
1714.4	1718.9
1718.9	1723.6
1723.6	1725
1725	1730
1730	1735
1735	1740
1740	1744.9
1744.9	1750
1750	1754.3
1754.3	1758.2
1758.2	1763.2
1763.2	1766.4
1766.4	1769.6
1769.6	1774.2
1774.2	1774.8
1774.8	1780
1780	1785
1785	1790
1790	1794.7
1794.7	1800
1800	1804
1804	1810.4
1810.4	1816
1816	1818.3
1818.3	1823.3
1823.3	1828.8
1828.8	1831.8
1831.8	1833.4
1833.4	1835.7
1835.7	1839.8
1839.8	1845.4
1845.4	1851
1851	1856.5
1856.5	1861.2
1861.2	1864.5
1864.5	1867.7
1867.7	1871
1871	1873.7
1873.7	1877.7
1877.7	1880
1880	1883.4
1883.4	1887.8
1887.8	1891
1891	1894.2
1894.2	1895
1895	1898.3

1898.3	1902
1902	1904.9
1904.9	1910
1910	1915
1915	1920
1920	1924.8
1924.8	1930
1930	1934.8
1934.8	1940
1940	1945
1945	1950
1950	1953
1953	1956
1956	1958.1

RS -423

	1363.6	1367.8	4.2
	1367.8	1371.6	3.8
	1371.6	1376.4	4.8
	1376.4	1381.7	5.3
	1381.7	1386.7	5
	1386.7	1389.5	2.8
	1389.5	1393.5	4
	1393.5	1398.7	5.2
	1398.7	1403.8	5.1
	1403.8	1408.3	4.5
	1408.3	1414.2	5.9
	1414.2	1418.1	3.9
	1418.1	1420.3	2.2
	1420.3	1423.9	3.6
	1423.9	1426	2.1
	1426	1430.3	4.3
	1430.3	1432	1.7
	1432	1440	.8
	1440	1445	5
	1445	1450	5
	1450	1455.1	5.1
	1455.1	1460	4.9
	1460	1465	.5
	1465	1470	.5
	1470	1473.5	3.5
	1473.5	1478.6	5.1
	1478.6	1485.5	6.9
	1485.5	1491.2	5.7
	1491.2	1493.9	2.7
	1493.9	1497.7	3.8
	1497.7	1500.5	2.8
	1500.5	1508	7.5
	1508	1510	.2
	1510	1514	.4
	1514	1519	.5
	1519	1524	.5
	1524	1524.9	0.9
	1524.9	1529.5	4.6
	1529.5	1534.9	5.4
	1534.9	1538.5	3.6
	1538.5	1541.2	2.7
	1541.2	1546.6	5.4
	1546.6	1553	6.4
	1553	1554.9	1.9
	1554.9	1560	5.1
	1560	1564.4	4.4
	1564.4	1568.4	.4
	1568.4	1571.3	2.9
	1568.4	1571.3B	
	1571.3	1574.8	3.5

5/9

5/10

2 samples

Sent 5/10

	1140	1145.2	5.2
	1145.2	1150	4.8
	1150	1154.8	4.8
	1154.8	1160	5.2
	1160	1164.5	4.5
	1164.5	1168.3	3.8
	1168.3	1171.4	3.1
	1171.4	1174.3	2.9
	1174.3	1177.8	3.5
	1177.8	1180.9	3.1
	1180.9	1185.6	4.7
	1185.6	1189	3.4
	1189	1191.2	2.2
	1191.2	1196.4	5.2
	1196.4	1201.5	5.1
	1201.5	1205.9	4.4
	1205.9	1210.8	4.9
	1210.8	1215.9	5.1
	1215.9	1220.5	4.6
	1220.5	1225	4.5
	1225	1228.5	3.5
	1228.5	1232.4	3.9
	1232.4	1236.4	4
	1236.4	1241	4.6
	1241	1246.2	5.2
	1246.2	1249.3	3.1
	1249.3	1253.5	4.2
	1253.5	1258.3	4.8
	1258.3	1262.6	4.3
	1262.6	1266.9	4.3
	1266.9	1271.6	4.7
	1271.6	1276.4	4.8
	1276.4	1281.6	5.2
	1281.6	1286.1	4.5
	1286.1	1291.2	5.1
	1291.2	1296.3	5.1
	1296.3	1299.3	3
	1299.3	1304	4.7
	1304	1309	5
	1309	1313.9	4.9
	1313.9	1319	5.1
	1319	1324.1	5.1
	1324.1	1329	4.9
	1329	1334.3	5.3
	1334.3	1339.5	5.2
	1339.5	1345	5.5
	1345	1350.5	5.5
	1350.5	1355.7	5.2
	1355.7	1357.6	1.9
	1357.6	1363.6	6

1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Se ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
1	3	3	1.91	55	0.44	78	0.07	432	1	0.05	3	0.012	23	< 3	0.3	226	16	< .01	< 8	1	< 2	104
< 1	2	3	1.04	20	0.42	69	0.04	692	1	0.04	2	0.01	23	< 3	1.1	352	13	< .01	< 8	< 1	< 2	65
< 1	3	2	1.46	10	0.39	77	0.07	655	1	0.05	2	0.01	25	< 3	0.4	254	16	< .01	< 8	< 1	< 2	77
1	2	< 1	1.55	10	0.42	76	0.06	1037	1	0.06	2	0.01	22	< 3	< .1	236	15	< .01	< 8	< 1	< 2	73
1	1	2	1.38	10	0.38	73	0.07	1708	< 1	0.05	3	0.01	25	< 3	0.3	345	14	< .01	< 8	< 1	< 2	74
< 1	1	4	1.05	15	0.41	77	0.06	1734	< 1	0.05	< 1	0.011	30	< 3	1.3	469	15	< .01	< 8	< 1	< 2	67
< 1	1	2	1.01	10	0.39	72	0.05	1147	< 1	0.05	2	0.009	25	< 3	0.1	362	15	< .01	9	< 1	< 2	57
< 1	1	4	1.28	10	0.39	75	0.05	793	< 1	0.04	2	0.009	34	< 3	0.5	298	15	< .01	< 8	< 1	< 2	67
< 1	1	2	1.61	10	0.37	77	0.05	1072	1	0.05	2	0.009	28	< 3	0.1	282	15	< .01	< 8	< 1	< 2	77
1	4	5	1.92	20	0.38	77	0.05	928	1	0.06	4	0.01	24	< 3	0.2	224	15	< .01	< 8	1	< 2	82
1	2	3	1.52	10	0.35	87	0.05	275	1	0.07	2	0.011	22	< 3	< .1	158	17	< .01	< 8	1	< 2	73
< 1	6	9	2.5	25	0.34	77	0.04	1168	1	0.07	4	0.01	24	< 3	< .1	178	16	< .01	< 8	1	< 2	75
< 1	3	2	1.85	10	0.32	64	0.05	3293	1	0.07	2	0.007	24	< 3	< .1	398	13	< .01	< 8	< 1	< 2	62
< 1	4	4	1.99	10	0.34	76	0.06	1075	1	0.06	3	0.009	22	< 3	< .1	233	16	< .01	< 8	1	< 2	74
1	4	8	2.03	15	0.3	74	0.07	611	1	0.06	3	0.009	20	< 3	< .1	189	15	< .01	< 8	1	< 2	85
1	5	6	2.29	20	0.28	74	0.1	585	1	0.06	4	0.009	26	< 3	0.3	195	16	< .01	< 8	1	< 2	83
1	2	1	1.6	< 10	0.29	72	0.14	643	1	0.06	4	0.009	18	< 3	1.4	329	15	< .01	< 8	1	< 2	71
11	19	40	2.83	30	0.46	16	0.52	236	< 1	0.09	62	0.112	21	< 3	0.3	652	2	< .01	< 8	20	< 2	87
12	9	99	3.26	125	0.21	3	0.48	494	34	0.03	83	0.064	13	10	19.2	374	< 2	< .01	8	39	< 2	919
17	14	14	6.21	10	0.11	5	1.85	982	2	0.08	6	0.115	6	< 3	0.5	189	< 2	< .01	< 8	61	< 2	77
8	9	56	3.29	85	0.17	3	0.79	581	31	0.03	67	0.083	8	8	13.5	520	< 2	< .01	< 8	29	< 2	687
12	166	60	3.27	1060	0.17	18	0.58	755	25	0.04	35	0.084	35	13	1.5	31	20	0.08	12	76	14	165
4	75	2	1.94	15	0.46	8	0.57	514	1	0.07	4	0.094	< 3	< 3	< .1	71	3	0.12	< 8	39	2	42

influence of ALS ?

2214.5' Contact of ALS

CLIENT: NEWMONT GOLD COMPANY
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP048921
METHOD: AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm
RS-423 1945-1956	< .3	1.15	5	< 3	109	5	0.24	0.3
RS-423 1956-1962	< .3	0.61	5	< 3	78	< 3	0.95	0.2
RS-423 1962.0-1976.3	< .3	0.84	2	< 3	75	< 3	0.51	0.3
RS-423 1976.3-1996.9	< .3	0.79	< 2	< 3	90	< 3	1	0.2
RS-423 1996.9-2009.7	0.3	0.76	3	< 3	74	< 3	2.15	0.2
RS-423 2009.7-2016.8	0.3	0.67	2	< 3	92	< 3	2.26	< .2
RS-423 2016.8-2028.7	< .3	0.65	< 2	< 3	97	< 3	1.72	0.2
RS-423 2028.7-2046.3	< .3	0.72	2	< 3	90	< 3	0.98	0.3
RS-423 2046.3-2080.0	< .3	0.83	3	< 3	84	< 3	1.31	< .2
RS-423 2080.0-2112.7	< .3	0.85	2	< 3	67	3	1.18	< .2
RS-423 2112.7-2115.7	0.3	0.79	< 2	< 3	55	< 3	0.29	< .2
RS-423 2115.7-2147.6	< .3	0.75	< 2	< 3	56	5	1.21	0.4
RS-423 2147.6-2152.6	< .3	0.74	3	< 3	57	5	4.43	0.2
RS-423 2152.6-2173.5	0.3	0.79	3	< 3	66	< 3	1.19	0.3
RS-423 2173.5-2181.2	< .3	0.78	2	< 3	80	< 3	0.57	< .2
RS-423 2181.2-2197.5	< .3	0.87	2	< 3	77	3	0.53	0.2
RS-423 2197.5-2213.0	< .3	0.85	4	< 3	124	< 3	1.57	0.3
RS-423 2213.0-2214.5	< .3	1.81	2	< 3	189	< 3	0.91	0.2
RS-423 2214.5-2221.1	1.2	0.7	64	< 3	94	< 3	3.55	10.8
RS-423 2221.1-2226.3	< .3	2.23	17	< 3	54	6	3.67	0.5
RS-423 2226.3-2239.0	0.5	0.48	45	< 3	149	< 3	5.89	7.6
STANDARD C3	5	1.95	51	18	142	29	0.53	23.1
STANDARD G-2	< .3	0.93	< 2	< 3	222	< 3	0.6	< .2

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP048810
METHOD: AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-423 1140-1160	< .3	0.53	3	3	41	< 3	0.75	< .2	1	2	3	1.85	40	0.26	21	0.02	404	< 1	0.06	2	0.015	17	< 3	0.3	196	10	0.01	< 8	2	< 2	19
RS-423 1160.0-1174.3	< .3	0.79	7	< 3	455	< 3	0.47	0.2	1	1	3	1.62	40	0.33	18	0.02	357	< 1	0.06	1	0.014	25	4	0.4	219	10	< .01	< 8	1	< 2	26
RS-423 1174.3-1189.0	< .3	0.69	5	< 3	47	< 3	0.7	< .2	1	1	3	1.36	15	0.33	17	0.02	330	< 1	0.05	1	0.017	18	< 3	0.2	204	9	< .01	< 8	1	< 2	17
RS-423 1189.0-1205.9	< .3	0.73	11	< 3	128	< 3	0.95	0.2	1	1	3	1.49	15	0.35	21	0.03	462	< 1	0.06	1	0.025	20	< 3	0.2	201	8	0.01	< 8	1	< 2	24
RS-423 1205.9-1225.0	< .3	0.59	6	3	61	< 3	1.44	< .2	1	1	3	1.89	< 10	0.3	23	0.03	630	< 1	0.08	1	0.024	23	< 3	0.2	176	9	0.02	< 8	< 1	< 2	27
RS-423 1225-1241	0.4	0.99	9	< 3	40	< 3	0.87	0.3	1	1	4	1.95	95	0.42	33	0.03	622	< 1	0.06	1	0.073	21	3	1.5	217	7	< .01	< 8	2	< 2	31
RS-423 1241.0-1258.3	< .3	0.94	7	< 3	60	< 3	0.21	0.7	2	3	6	1.99	170	0.43	53	0.04	866	< 1	0.08	1	0.029	24	3	2.5	187	5	< .01	< 8	7	< 2	29
RS-423 1258.3-1276.4	< .3	0.95	10	< 3	264	< 3	0.58	0.6	2	4	5	2.25	200	0.36	54	0.05	652	< 1	0.08	1	0.026	21	5	0.4	190	5	0.01	< 8	12	< 2	31
RS-423 1276.4-1296.3	< .3	0.57	9	< 3	70	< 3	1.08	1.4	2	5	5	2.09	45	0.33	58	0.04	849	< 1	0.11	1	0.027	22	< 3	0.1	134	4	0.04	< 8	16	< 2	31
RS-423 1296.3-1313.9	< .3	0.51	9	< 3	109	< 3	0.92	1	2	7	5	2.15	45	0.29	58	0.04	617	< 1	0.1	2	0.029	19	< 3	0.2	139	5	0.04	< 8	16	< 2	47
RS-423 1313.9-1334.3	< .3	0.53	11	< 3	66	< 3	1	0.6	2	6	6	1.96	10	0.31	56	0.04	830	< 1	0.1	4	0.028	17	< 3	0.2	134	4	0.03	11	12	< 2	37
RS-423 1334.3-1355.7	< .3	0.57	5	< 3	61	< 3	0.77	0.5	3	6	6	2.06	20	0.34	56	0.05	682	< 1	0.1	7	0.027	17	< 3	0.3	139	5	0.04	< 8	12	< 2	46
RS-423 1355.7-1371.6	< .3	0.63	6	< 3	37	< 3	0.51	0.7	1	2	4	1.18	40	0.32	46	0.02	435	< 1	0.06	1	0.007	22	< 3	0.2	129	9	< .01	< 8	1	< 2	39
RS-423 1371.6-1389.5	< .3	0.54	< 2	< 3	40	< 3	0.82	0.6	1	3	4	1.05	< 10	0.38	65	0.02	847	1	0.08	2	0.01	38	< 3	0.2	115	12	0.01	12	1	< 2	31
RS-423 1389.5-1408.3	< .3	0.57	3	< 3	38	< 3	0.85	0.2	1	2	4	0.87	95	0.35	55	0.01	522	< 1	0.07	1	0.026	33	< 3	< .1	128	10	< .01	< 8	1	< 2	20
RS-423 1408.3-1423.9	< .3	0.68	2	< 3	86	< 3	0.36	0.3	1	1	4	1.5	85	0.41	36	0.02	610	< 1	0.03	1	0.005	30	< 3	0.4	253	8	< .01	< 8	< 1	< 2	26
RS-423 1423.9-1440.0	0.3	0.67	8	< 3	36	< 3	0.15	< .2	1	1	3	2.18	105	0.34	28	0.02	50	< 1	0.03	2	0.003	23	5	0.8	250	8	< .01	< 8	< 1	< 2	23
RS-423 1440-1460	< .3	0.61	3	< 3	41	< 3	0.69	< .2	< 1	1	3	0.93	40	0.3	64	0.02	518	< 1	0.04	< 1	0.009	18	< 3	0.2	144	9	< .01	9	< 1	< 2	21
RS-423 1460.0-1478.6	< .3	0.72	< 2	< 3	42	< 3	1.14	< .2	< 1	1	3	1.14	< 10	0.34	64	0.02	704	< 1	0.05	1	0.01	18	< 3	0.1	137	11	< .01	10	< 1	< 2	22
RS-423 1478.6-1497.7	< .3	0.91	2	< 3	52	< 3	1.23	< .2	1	1	3	2.04	85	0.46	61	0.02	547	< 1	0.04	1	0.009	23	< 3	0.5	195	9	< .01	< 8	1	< 2	22
RS-423 1497.7-1514.0	< .3	0.76	< 2	< 3	49	< 3	0.41	< .2	1	1	4	1.64	35	0.4	52	0.03	393	1	0.03	1	0.007	23	< 3	1.2	152	10	< .01	< 8	< 1	< 2	53
RS-423 1514.0-1529.5	0.3	0.57	25	< 3	46	< 3	0.52	0.5	1	1	4	3.71	45	0.42	36	0.02	430	1	0.02	1	0.005	24	4	3.2	169	8	< .01	< 8	< 1	< 2	29
RS-423 1529.5-1546.6	0.5	0.54	17	< 3	54	< 3	0.68	< .2	1	2	4	1.23	40	0.39	53	0.02	382	8	0.03	1	0.007	24	4	2.5	200	9	< .01	< 8	< 1	< 2	45
RS-423 1546.6-1564.4	0.4	0.64	11	< 3	58	< 3	0.46	0.2	1	2	5	1.74	20	0.41	53	0.02	494	4	0.04	2	0.006	28	5	1.8	163	10	< .01	12	< 1	< 2	46
RS-423 1564.4-1574.8	< .3	0.61	4	< 3	56	< 3	0.47	< .2	1	2	3	0.96	15	0.38	59	0.02	490	3	0.03	1	0.008	26	3	1.7	227	10	< .01	< 8	< 1	< 2	50
STANDARD C3	6	1.82	55	20	145	21	0.5	23.7	12	158	61	3.2	920	0.15	17	0.56	739	25	0.04	35	0.084	35	18	1.3	28	22	0.08	22	76	18	160
STANDARD G-2	< .3	0.89	< 2	< 3	216	< 3	0.56	< .2	4	67	3	1.88	< 10	0.45	6	0.54	487	2	0.07	7	0.091	4	< 3	< .1	68	4	0.12	< 8	37	2	41

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431

(702) 356-0606

INVOICE NO: SP 0048810-IN
INVOICE DATE: 05/31/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-423	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
100	SAMPLES RECEIVED	.00	.00
99	JAW CRUSHING CHARGE	1.30	128.70
99	SPLITTING CHARGE	1.20	118.80
99	FINE MILLING CHARGE	2.00	198.00
100	Au (1 A.T. FIRE ASSAY)	8.00	800.00
100	HYDROCHLORIC/NITRIC DIGESTION	2.00	200.00
100	Ag ANALYSES	1.00	100.00
99	COMPOSITE CHARGE	1.00	99.00
25	MULTI-ELEMENT ICP PACKAGE	9.80	245.00
25	Se ANALYSES	7.15	178.75

$1344.36

NET INVOICE:	2,068.25
LESS DISCOUNT:	723.89
FREIGHT:	.00
INVOICE TOTAL:	1,344.36

COPY

Nick -
Check off the samples as you bag them.

1140	1145.2	✓
1145.2	1150	✓
1150	1154.8	✓
1154.8	1160	✓
1160	1164.5	✓
1164.5	1168.3	✓
1168.3	1171.4	✓
1171.4	1174.3	✓
1174.3	1177.8	✓
1177.8	1180.9	✓
1180.9	1185.6	✓
1185.6	1189	✓
1189	1191.2	✓
1191.2	1196.4	✓
1196.4	1201.5	✓
1201.5	1205.9	✓
1205.9	1210.8	✓
1210.8	1215.9	✓
1215.9	1220.5	✓
1220.5	1225	✓
1225	1228.5	✓
1228.5	1232.4	✓
1232.4	1236.4	✓
1236.4	1241	✓
1241	1246.2	✓
1246.2	1249.3	✓
1249.3	1253.5	✓
1253.5	1258.3	✓
1258.3	1262.6	✓
1262.6	1266.9	✓
1266.9	1271.6	✓
1271.6	1276.4	✓
1276.4	1281.6	✓
1281.6	1286.1	✓
1286.1	1291.2	✓
1291.2	1296.3	✓
1296.3	1299.3	✓
1299.3	1304	✓
1304	1309	✓
1309	1313.9	✓
1313.9	1319	✓
1319	1324.1	✓
1324.1	1329	✓
1329	1334.3	✓
1334.3	1339.5	✓
1339.5	1345	✓
1345	1350.5	✓
1350.5	1355.7	✓
1355.7	1357.6	✓
1357.6	1363.6	✓

1363.6	1367.8	✓
1367.8	1371.6	✓
1371.6	1376.4	✓
1376.4	1381.7	✓
1381.7	1386.7	✓
1386.7	1389.5	✓
1389.5	1393.5	✓
1393.5	1398.7	✓
1398.7	1403.8	✓
1403.8	1408.3	✓
1408.3	1414.2	✓
1414.2	1418.1	✓
1418.1	1420.3	✓ 5/8
1420.3	1423.9	
1423.9	1426	
1426	1430.3	
1430.3	1432	
1432	1440	
1440	1445	
1445	1450	
1450	1455.1	
1455.1	1460	
1460	1465	
1465	1470	
1470	1473.5	
1473.5	1478.6	
1478.6	1485.5	
1485.5	1491.2	
1491.2	1493.9	
1493.9	1497.7	
1497.7	1500.5	
1500.5	1508	
1508	1510	
1510	1514	
1514	1519	
1519	1524	
1524	1524.9	
1524.9	1529.5	
1529.5	1534.9	
1534.9	1538.5	
1538.5	1541.2	
1541.2	1546.6	
1546.6	1553	
1553	1554.9	
1554.9	1560	
1560	1564.4	
1564.4	1568.4	
1568.4	1571.3	
1571.3	1574.8	
1574.8	1578.9	

1578.9	1580.5
1580.5	1584.2
1584.2	1587.5
1587.5	1588.9
1588.9	1591.2
1591.2	1596.6
1596.6	1602
1602	1607
1607	1609.2
1609.2	1611
1611	1615
1615	1618.1
1618.1	1619.6
1619.6	1623.7
1623.7	1628.6
1628.6	1632.8
1632.8	1635.6
1635.6	1639
1639	1644.6
1644.6	1649.9
1649.9	1654.9
1654.9	1658.8
1658.8	1662.1
1662.1	1666.5
1666.5	1671.5
1671.5	1676.5
1676.5	1681.5
1681.5	1687
1691.5	1694.9
1694.9	1700

NEWMONT GOLD COMPANY
ROSEBUD J.V.

To: Whomever Date: November 23, 1998

From: George Langstaff

Subject: **GL's Descriptive Rock Nomenclature for Rosebud Logging**

Rocks are identified as felsic volcanic rock (F), mafic volcanic rock (M), tuff (T), breccia (B), or sedimentary rock (S) as follows:

A. **Volcanic Rocks** (dominantly aphanitic)

1. Root Name – Composition
   - **F** – felsic, few mafic minerals (e.g., trachyte, dacite)
   - **M** – mafic, more mafic minerals (e.g., andesite, trachyte)
2. Prefix - Structure
   - **b** – brecciated (includes flow breccia as well as strongly fractured rock)
   - **s** – pseudobreccia (formed by alteration along fractures)
3. 1st Suffix – Texture
   - **a** – aphyric (no phenocrysts >=1 mm)
   - **p** – porphyritic
     - distinctive varieties:
     - **sp** – sparsely porphyritic (=<1% phenocrysts)
     - **cp** – coarsely porphyritic (some phenocrysts >4 mm)
   - a. 2nd Suffix – Minerals (precede with dash; if more than one, list from least to most abundant, left to right, e.g., Fp-q,p,k)
     - **q** – quartz
     - **f** – feldspar
     - **p** – plagioclase
     - **k** - K-feldspar
     - **b** - biotite
     - **h** - hornblende
     - **y** - pyroxene
     - **o** - olivine
4. Parentheses – Descriptive Features
   - **am** – amygdaloidal
   - **bd** – banded
   - **gl** - glassy
   - **lm** – laminated (planar features =<2 mm)
   - **mmb** – contains mafic magma blobs
   - **sp** - spherulitic
   - **ve** - vesicular

Examples: Mcp-y,p – coarsely porphyritic pyroxene < plagioclase-phyric basalt
bFa – brecciated, aphyric rhyolite
Fsp-f(mmb) – sparsely porphyritic, feldspar(can't be identified)-phyric latite with mafic magma blobs

Note: Alteration can eliminate mafic phenocrysts, can make K-feldspar and plagioclase indistinguishable, and can make porphyritic rocks appear to be aphyric.

The abundance of phenocrysts can vary within the same unit and some types of phenocrysts (e.g., quartz) may not be present everywhere.

B. **Pyroclastic Rocks**

1. Root Name
   T - Tuff
2. 1st Suffix – Fragment Type (if more than one, list from least to most abundant left to right and separate by slashes, e.g., Tv/c)
   a – ash (=<2 mm by definition but more useful to identify pyroclasts >=1 mm as lithic, vitric, or crystal)
   b - blocks ± lapilli ± ash (>6.4 cm)
   l - lithic lapilli ± ash
   v - vitric lapilli ± ash (icludes shards and pumice)
   c - crystal lapilli ± ash
   a. 2nd Suffix – Minerals
   see A.3.a. above
3. Parentheses – Descriptive Features
   lp - lithophysal
   sw - strongly welded
   ww - weakly welded
   and see A.4. above

Examples: Ta – ash tuff
Tl/c-q,k – lithic < crystal lapilli-ash tuff with quartz < sanidine phenocrysts

C. **Breccias** – if extrusive, pyroclastic, or sedimentary origin is uncertain; otherwise use protolith root name; can include fault breccias if protolith is uncertain

1. Root Name
   B - Breccia
2. 1st Suffix – Number of Clast Types
   m – monomict
   p - polymict
3. 2nd Suffix – Support
   c – clast-supported
   x – matrix-supported
4. 3rd Suffix – Rounding of Clasts
   r – rounded
   s – subrounded to subangular
   a – angular

Examples: Bmca – monomict, clast-supported breccia with dominantly angular clasts
Bpxa/s – polymict, matrix-supported breccia with subrounded clasts more abundant than angular clasts

D. Sedimentary Rocks

1. Root Name

   S – clastic sedimentary rock

2. 1st Suffix – Dominant Clast Size

   c – conglomerate (>2 mm)

   a. Prefix – Support

      c – clast-supported

      x – matrix-supported

   s – sandstone (.0625 to 2 mm)

   m – mudstone (<.0625 mm, includes silt and clay)

3. 2nd Suffix – Secondary Clast Size (if more than one, list from least to most abundant and separate by slashes, e.g., Sst/p)

   p – pebbly, conglomeratic

   n - sandy

   d - muddy

   t - tuffaceous

4. 3rd Suffix – Structure

   1 - massive (beds >10 m thick)

   2 - thick-bedded (.05-10 m thick)

   3 - medium-bedded (.01-.05 m thick)

   4 - thin-bedded (1-10 cm thick)

   5 - laminated (<1 cm thick)

5. Parentheses – Descriptive Features

   bt - bioturbated

   cs - cross stratification

   fs - fossils

   gn - normally graded bedding

   gr - reversely graded bedding

   sf - syn-sedimentary folds

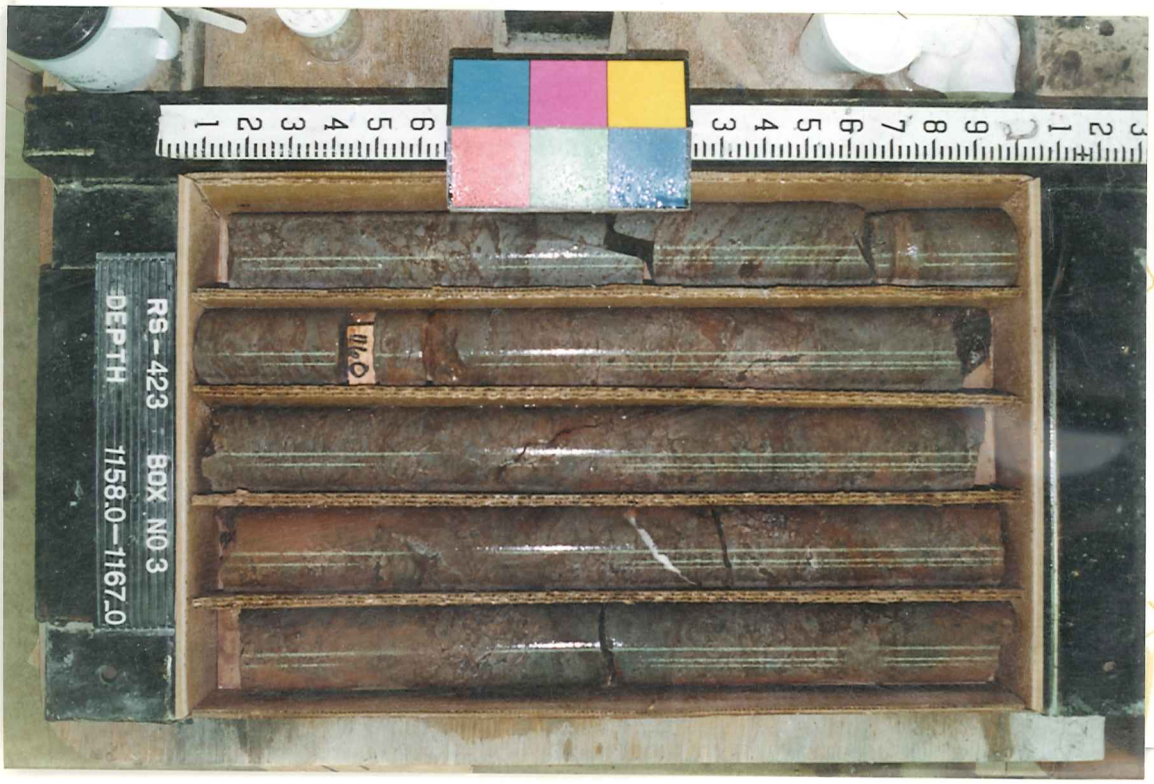
Examples: xSct1 – tuffaceous, matrix-supported conglomerate without apparent bedding

Ssd4(gn) – thin-bedded, muddy sandstone with normally graded bedding

Sm – massive mudstone

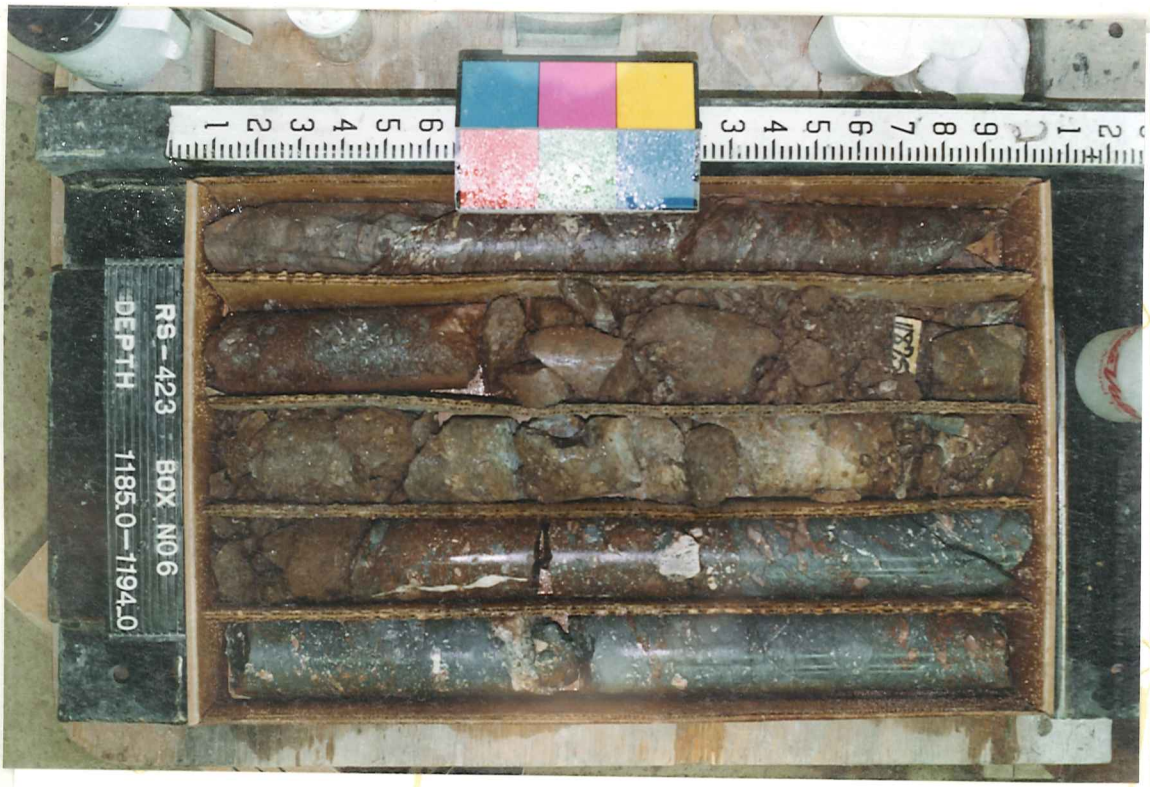
RS-423 BOX NO 1
DEPTH 1140.0-1149.0

1150
RS-423 BOX NO 2
DEPTH 1149.0-1158.0


1160
RS-423 BOX NO 3
DEPTH 1158.0-1167.0

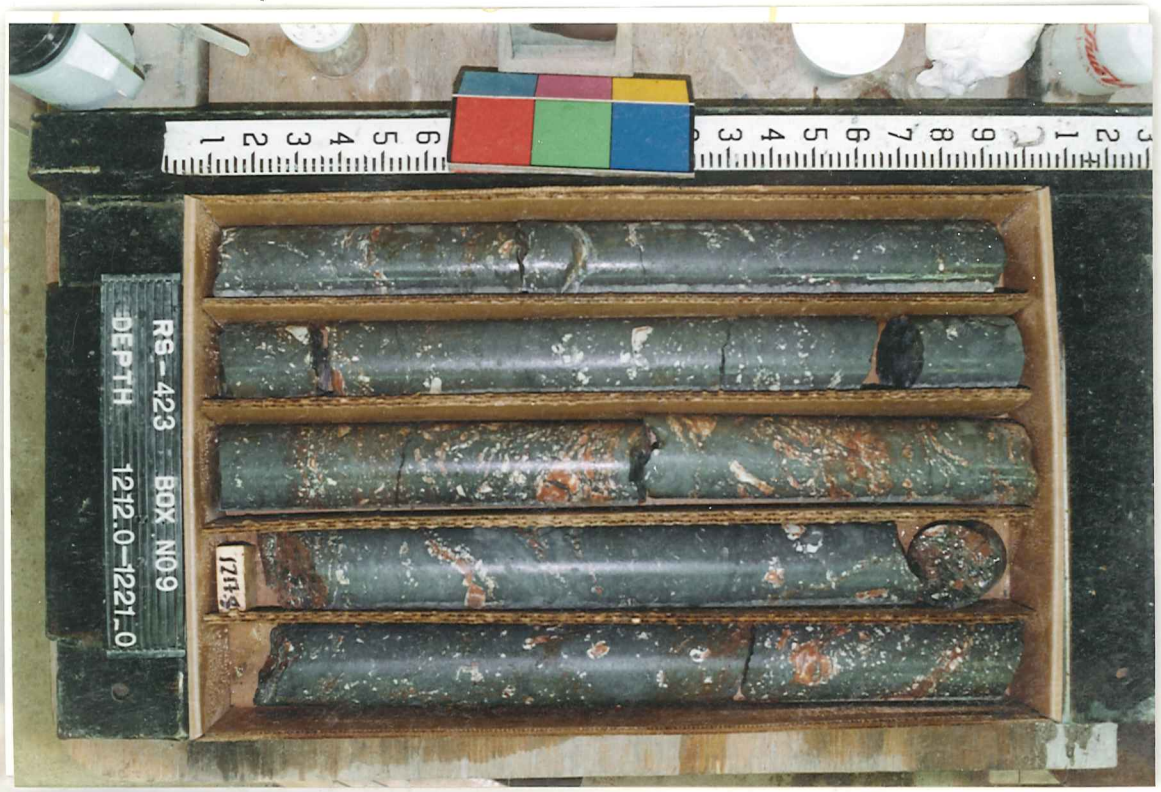
1170
RS-423 BOX N04
DEPTH 1167.0-1176.0

1177.5
RS-423 BOX N05
DEPTH 1176.0-1185.0

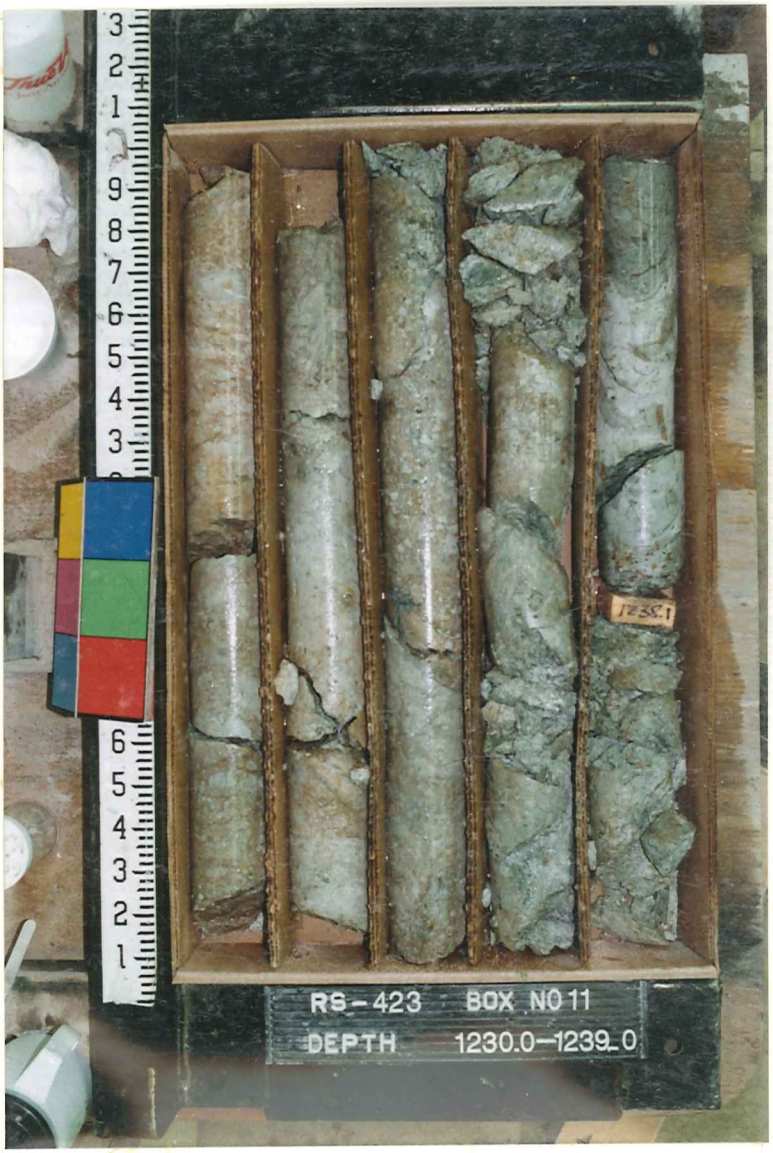

1185
RS-423 BOX N06
DEPTH 1185.0-1194.0

1197.3
RS-423 BOX N07
DEPTH 1194.0-1203.0

1207.5
RS-423 BOX N08
DEPTH 1203.0-1212.0


RS-423 BOX N09
DEPTH 1212.0-1221.0
1214.5

1228
RS-423 BOX NO 10
DEPTH 1221.0-1230.0


1238.1
RS-423 BOX NO 11
DEPTH 1230.0-1239.0

RS-423 BOX NO 12
DEPTH 1239.0-1249.0

RS-423 BOX NO 13
DEPTH 1249.0–1257.0

1258
RS-423 BOX NO 14
DEPTH 1257.0–1266.0

1274
RS-423 BOX NO 15
DEPTH 1266.0–1275.0

1279
RS-423 BOX NO 16
DEPTH 1275.0-1284.0

10893
RS-423 BOX NO 17
DEPTH 1284.0-1293.0

RS-423 BOX NO 18
DEPTH 1293.0-1302.0

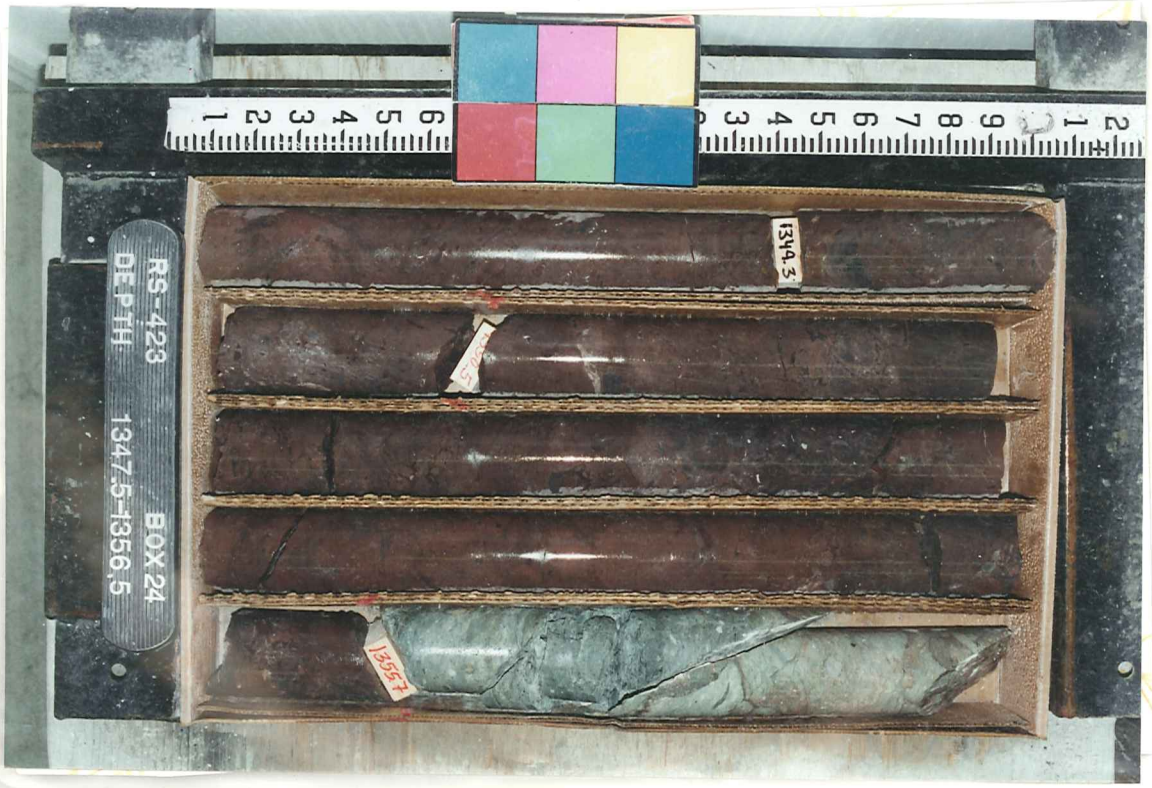
309
RS-423 BOX NO19
DEPTH 1302.0-1311.0

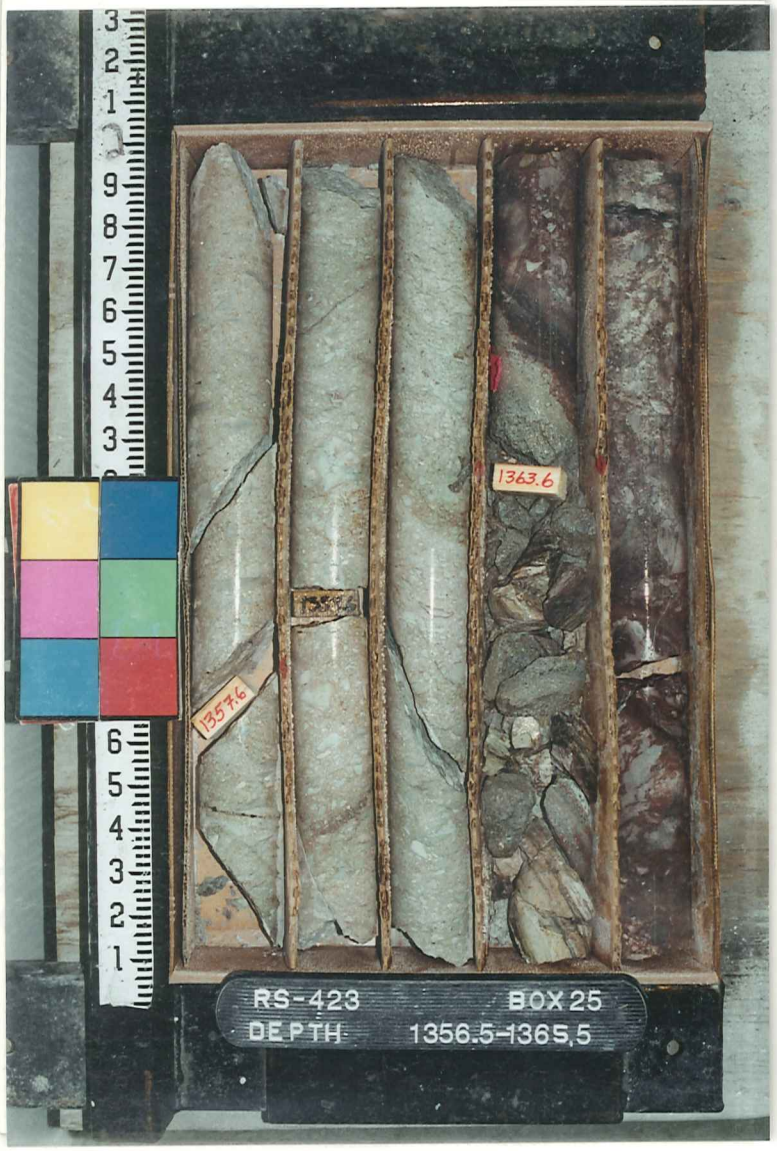
314
RS-423 BOX NO20
DEPTH 1311.0-1320.0

RS-423 BOX NO21
DEPTH 1320.0-1329.4

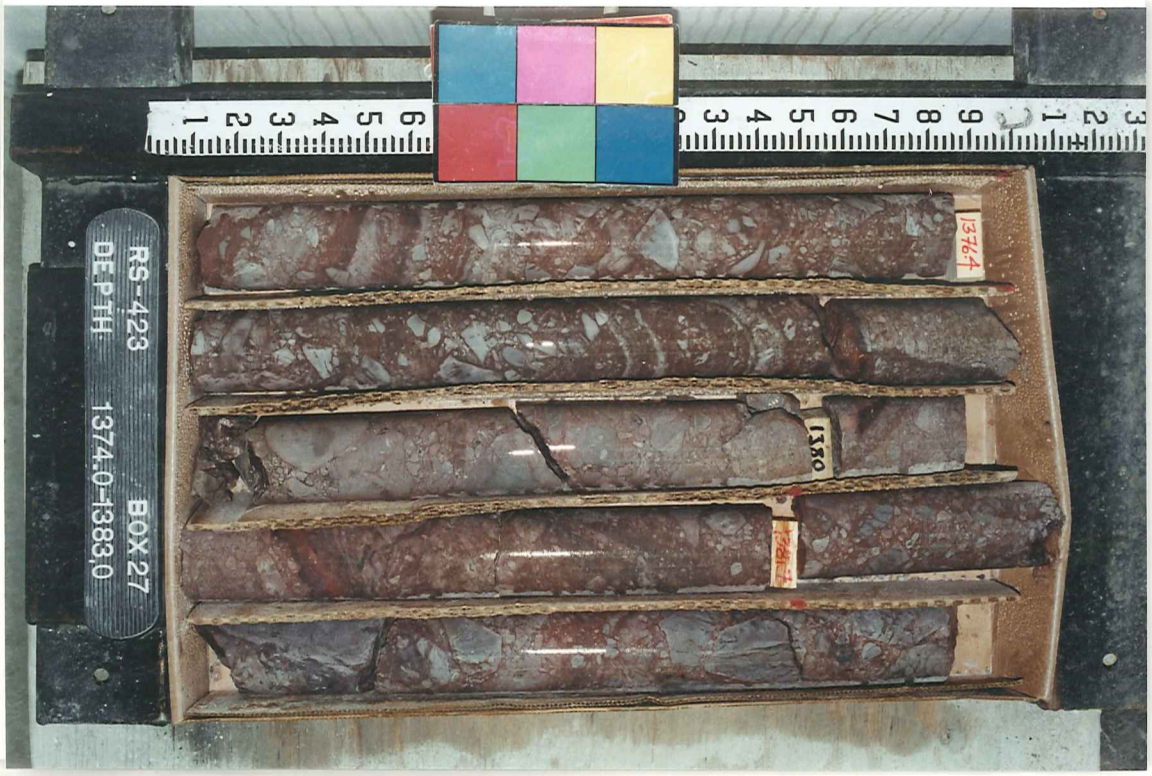
RS-423 BOX NO 22
DEPTH 1329.4-1338.5

1339
RS-423 BOX NO 23
DEPTH 1338.5-1347.5


RS-423 BOX 24
DEPTH 1347.5-1356.5
1344.3
1355.7


1363.6
1357.6
RS-423
BOX 25
DEPTH
1356.5-1365.5

1367.8
1371.6
1369.8
RS-423
BOX 26
DEPTH
1365.5-1374.0

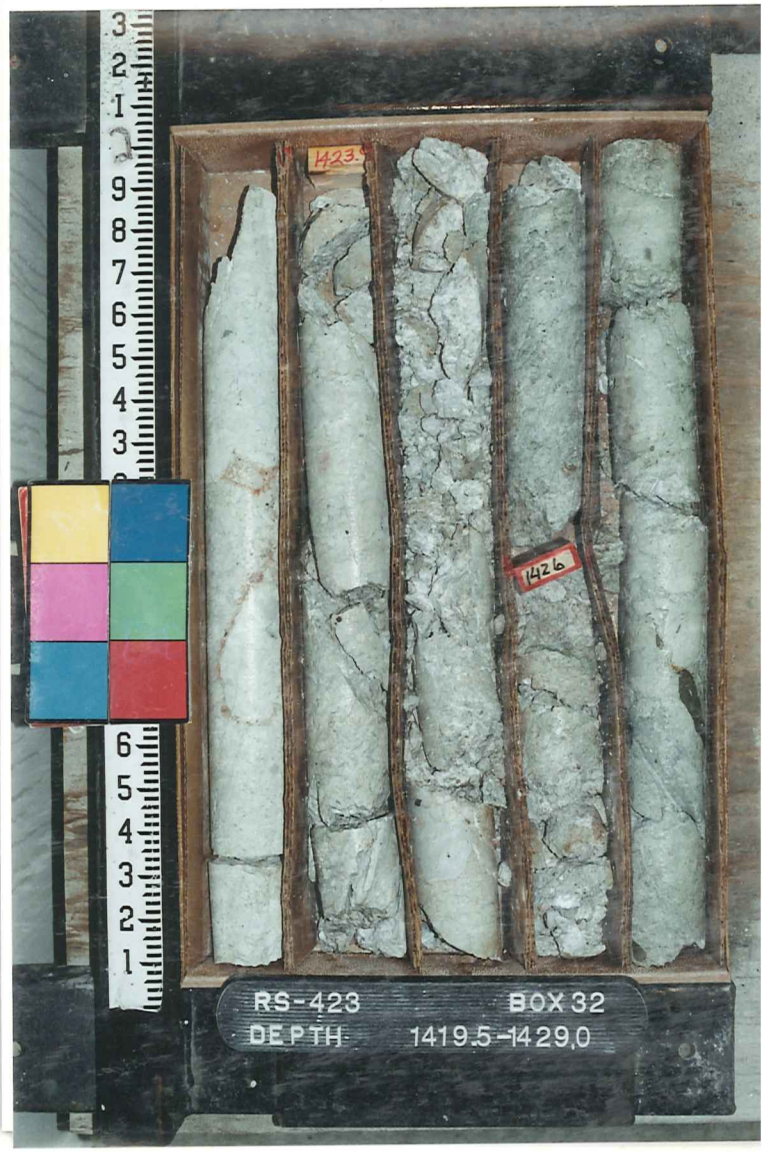

1376.4
1380
1381.7
RS-423
BOX 27
DEPTH
1374.0-1383.0

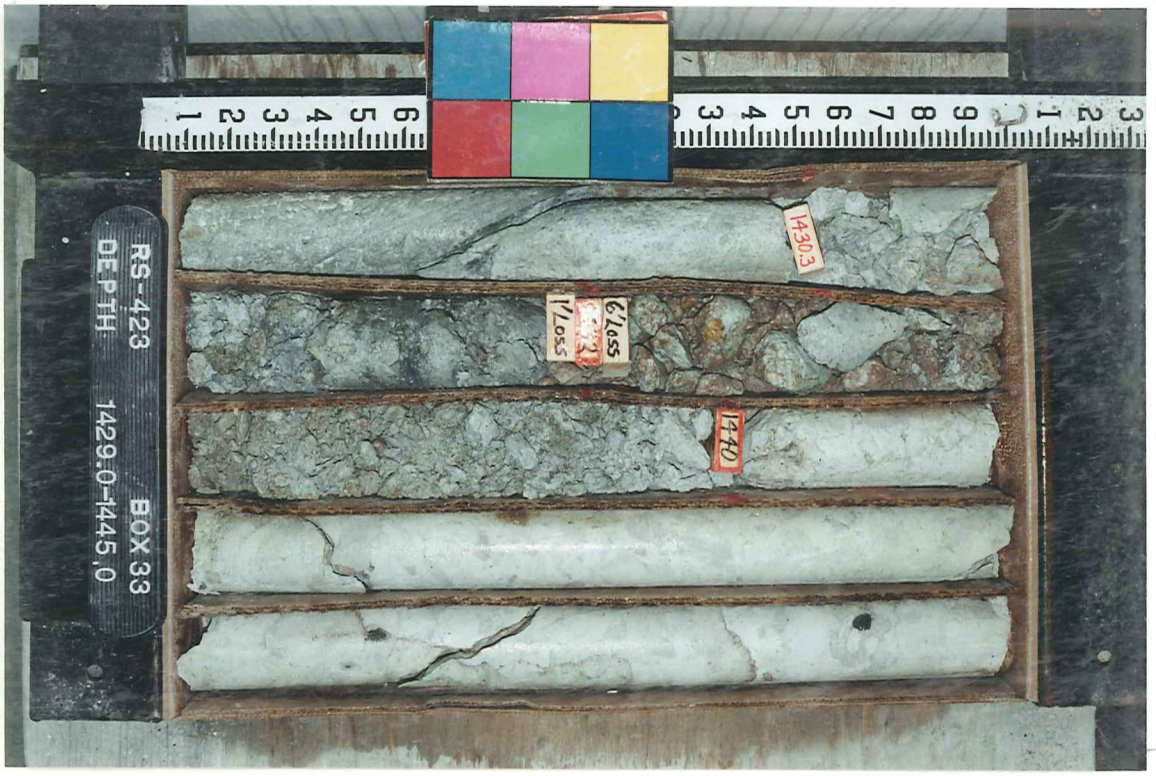
1386.7
1390
1388.5
RS-423
BOX 28
DEPTH 1383.0-1392.0

1393.5
1398.7
RS-423
BOX 29
DEPTH 1392.0-1401.5

1403.8
1408.3
RS-423
BOX 30
DEPTH 1401.5-1410.5

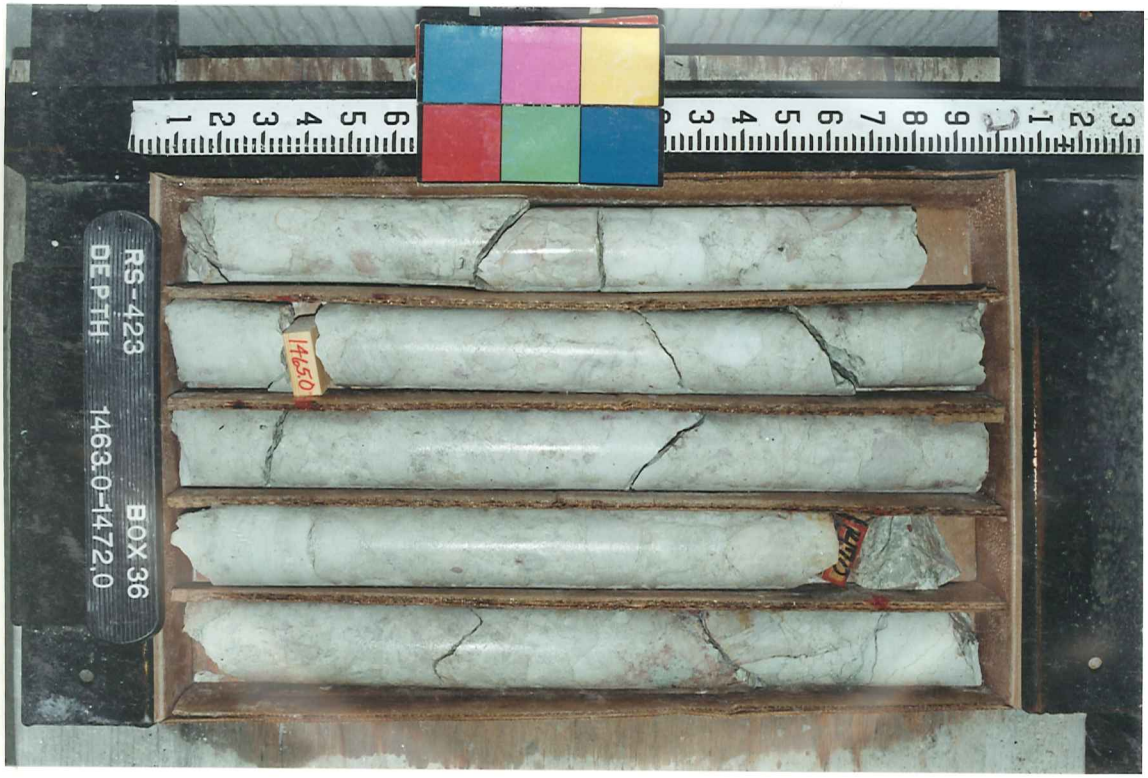
1420.3
1418.1
1414.2
1415.8
RS-423
BOX 31
DEPTH 1410.5-1419.5


1423.5
1426
RS-423
BOX 32
DEPTH 1419.5-1429.0


1430.3
6' loss
1' loss
1440
RS-423
BOX 33
DEPTH 1429.0-1445.0

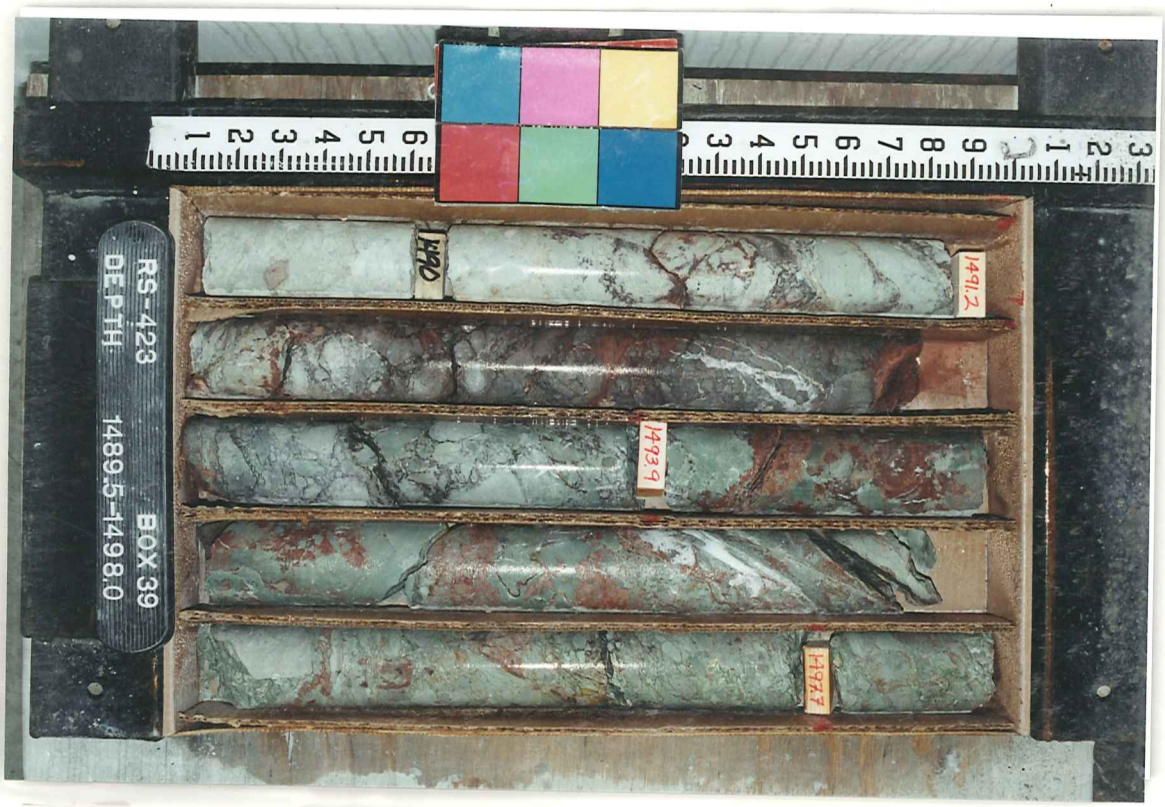
1450
1445.0
RS-423
BOX 34
DEPTH
1445.0-1454.0

1455.1
1460
RS-423
BOX 35
DEPTH
1454.0-1463.0


1465.0
RS-423
BOX 36
DEPTH
1463.0-1472.0

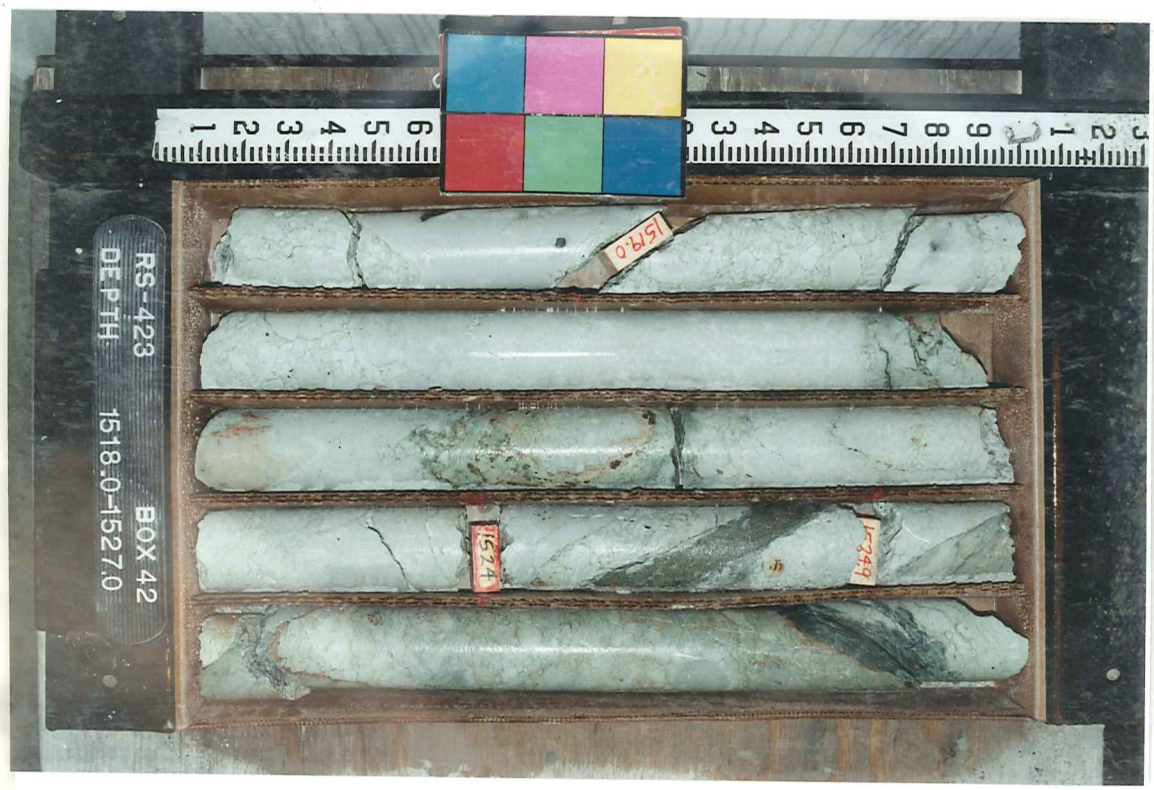
1472.5
1480
1478.6
RS-423
BOX 37
DEPTH
1472.0-1480.0

1485.5
RS-423
BOX 38
DEPTH
1480.0-1489.5


1490
1491.2
1493.9
1497.7
RS-423
BOX 39
DEPTH
1489.5-1498.0

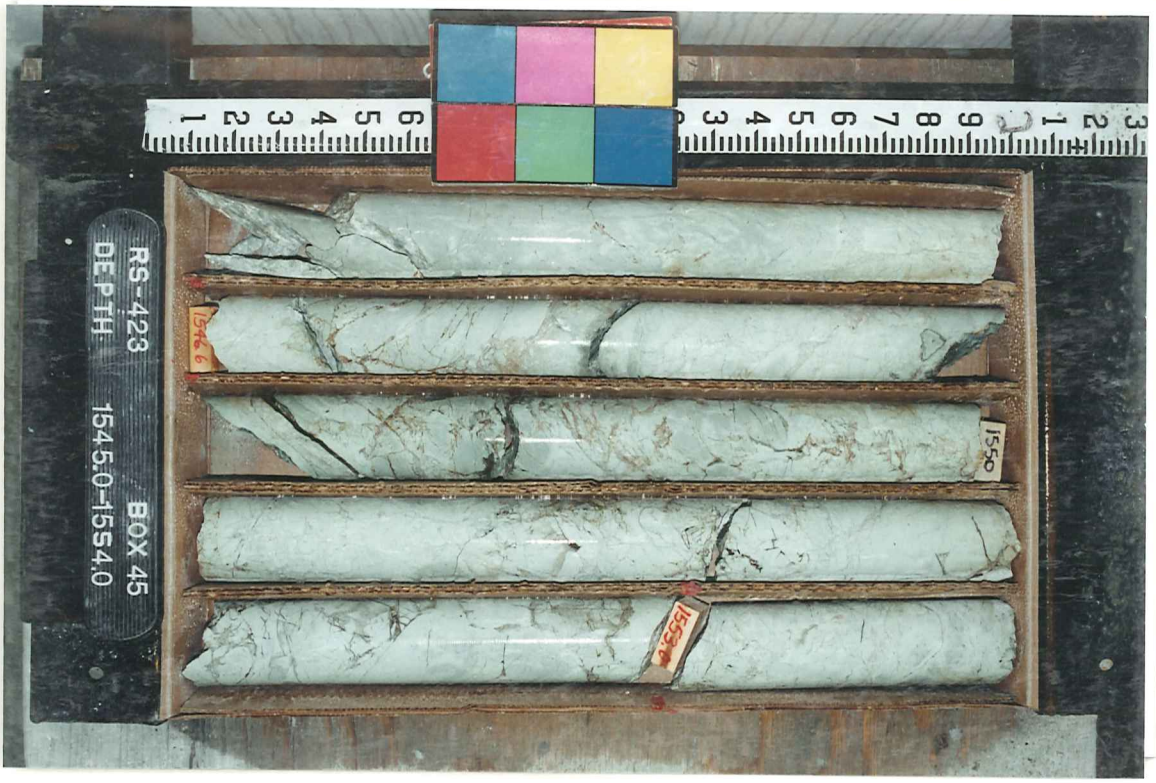
1500.5
1500
RS-423
BOX 40
DEPTH
1498.0-1507.0

1514
1510
1508.0
RS-423
BOX 41
DEPTH
1507.0-1518.0


1519.0
1524
1524
RS-423
BOX 42
DEPTH
1518.0-1527.0

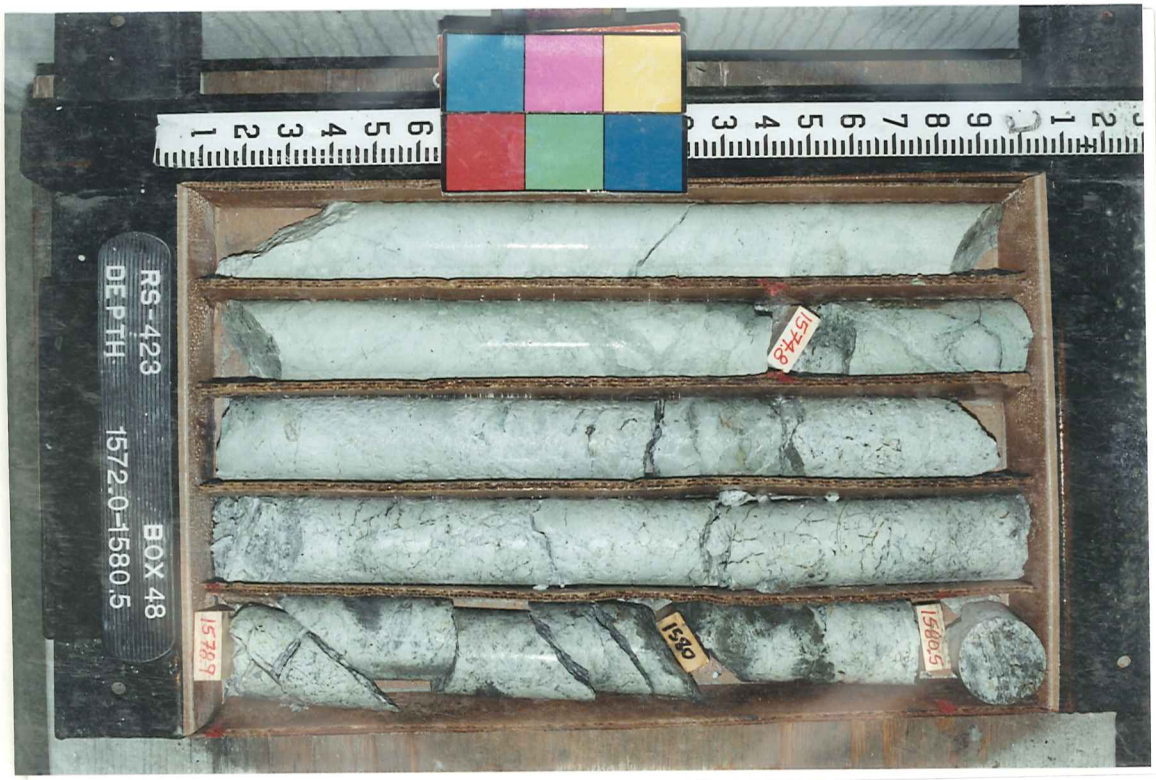
1530
1529.5
1534.9
RS-423
BOX 43
DEPTH
1527.0-1536.0

1538.3
1540
1541.2
RS-423
BOX 44
DEPTH
1536.0-1545.0


1546.6
1550
1553.4
RS-423
BOX 45
DEPTH
1545.0-1554.0

1554.9
1560
RS-423
BOX 46
DEPTH
1554.0-1563.0

1568.4
1570
1564.4
1571.3
RS-423
BOX 47
DEPTH
1563.0-1572.0


1578.9
1580
1580.5
RS-423
BOX 48
DEPTH
1572.0-1580.5

1584.2
1587.5
1588.9
RS-423
BOX 49
DEPTH
1580.5-1590.0

1591.2
1596.6
1590
RS-423
BOX50
DEPTH
1590.0-1599.0

1605
1607
1609.2
RS-423
BOX51
DEPTH
1599.0-1609.0

1618.1
1611.0
1615
RS-423
BOX52
DEPTH
1609.0-1619.0

1623.7
1619.6
1625
RS-423
BOX53
DEPTH
1619.0-1627.5

1628.6
1632.8
1635
1635.6
RS-423
BOX54
DEPTH
1627.5-1636.0

1639.0
1644.6
1645
RS-423
DEPTH
BOX55
1636.0-1645.5

1649.9
RS-423
DEPTH
BOX56
1645.5-1654.5

1654.9
1658.8
1662.1
RS-423
DEPTH
BOX57
1654.5-1663.0

1666.5
1665.5
1671.5
RS-423
BOX58
DEPTH
1663.0-1672.0

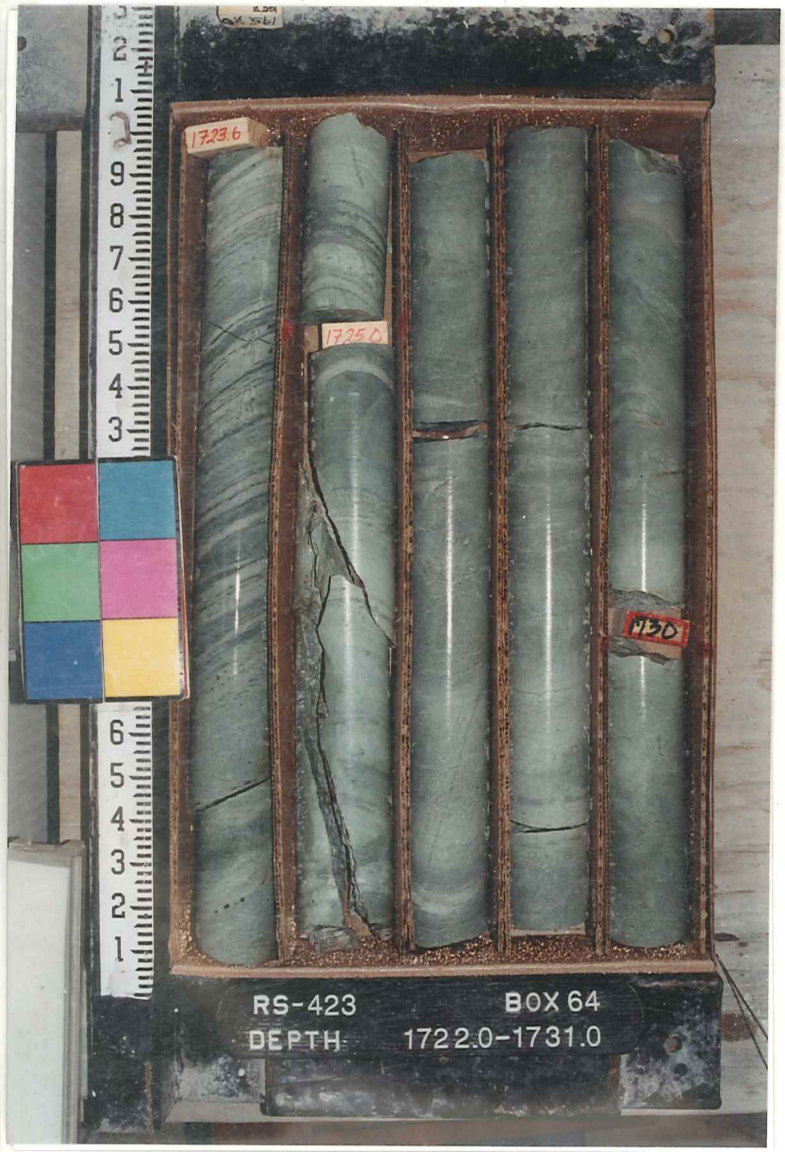
1675.5
1676.5
RS-423
BOX59
DEPTH
1672.0-1681.0

1681.5
1691.5
RS-423
BOX 60
DEPTH
1681.0-1695.5

1700
704.0
1694.1
RS-423
BOX 61
DEPTH
1695.5-1704 0

1707.0
1710.5
1710
RS-423
BOX 62
DEPTH
1704.0-1713.0

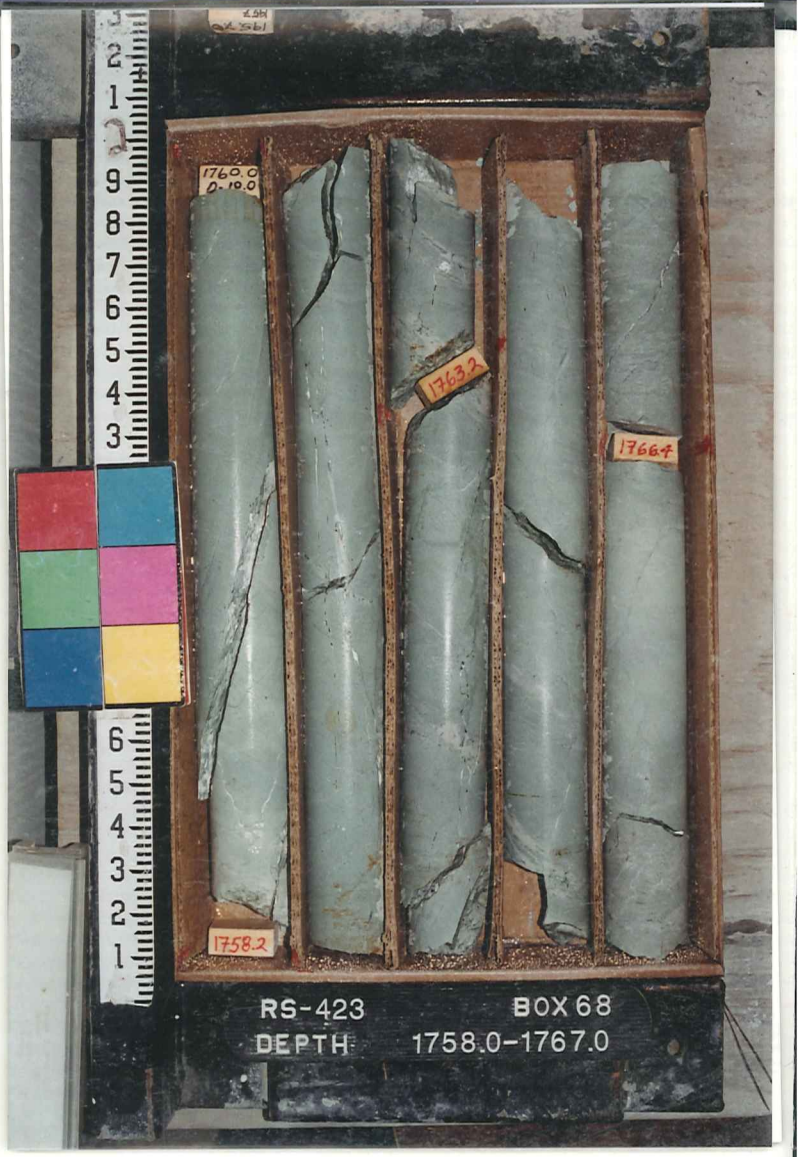
1714.4
1718.9
1720
RS-423
BOX 63
DEPTH
1713.0-1722.0

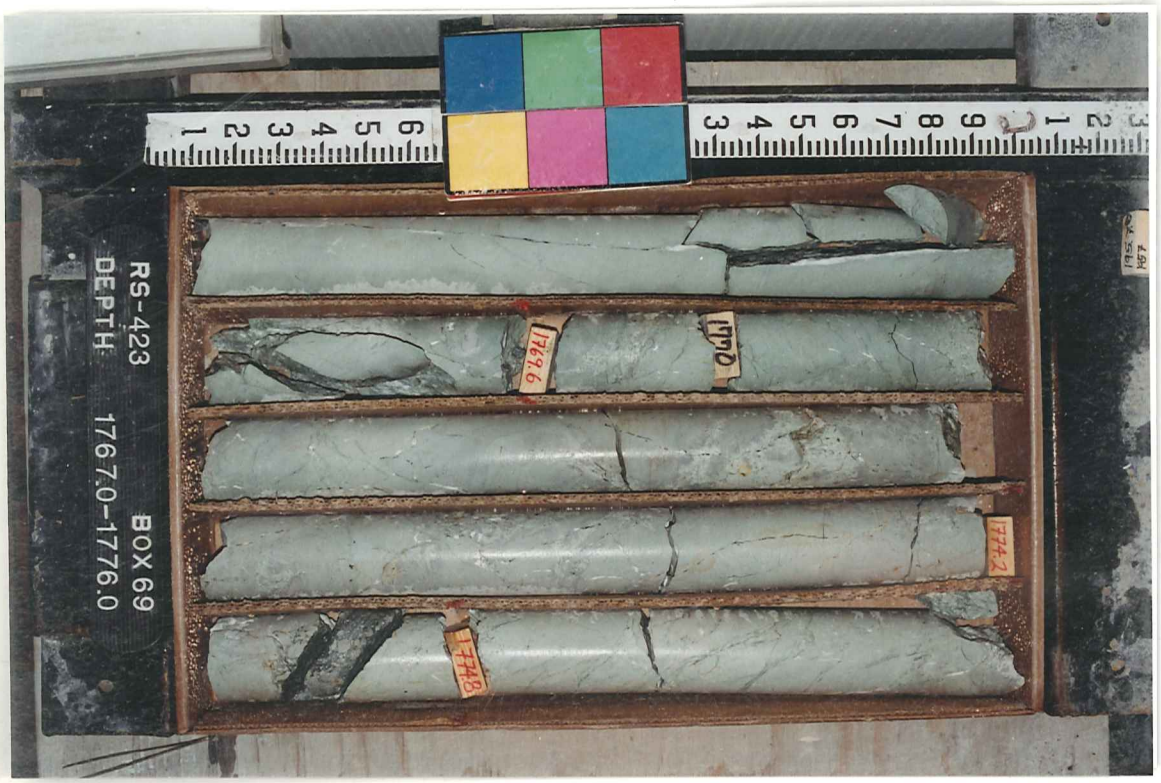

1723.6
1725.0
1730
RS-423
BOX 64
DEPTH 1722.0-1731.0

1735.0
RS-423
BOX 65
DEPTH 1731.0-1740.0

1740
1744.9
RS-423
BOX 66
DEPTH 1740.0-1749.0

1754.3
1750
RS-423
BOX 67
DEPTH 1749.0-1758.0


1760.0
0-10.0
1763.2
1766.4
1758.2
RS-423
BOX 68
DEPTH 1758.0-1767.0


1768.6
1770
1774.2
1776.8
RS-423
BOX 69
DEPTH 1767.0-1776.0

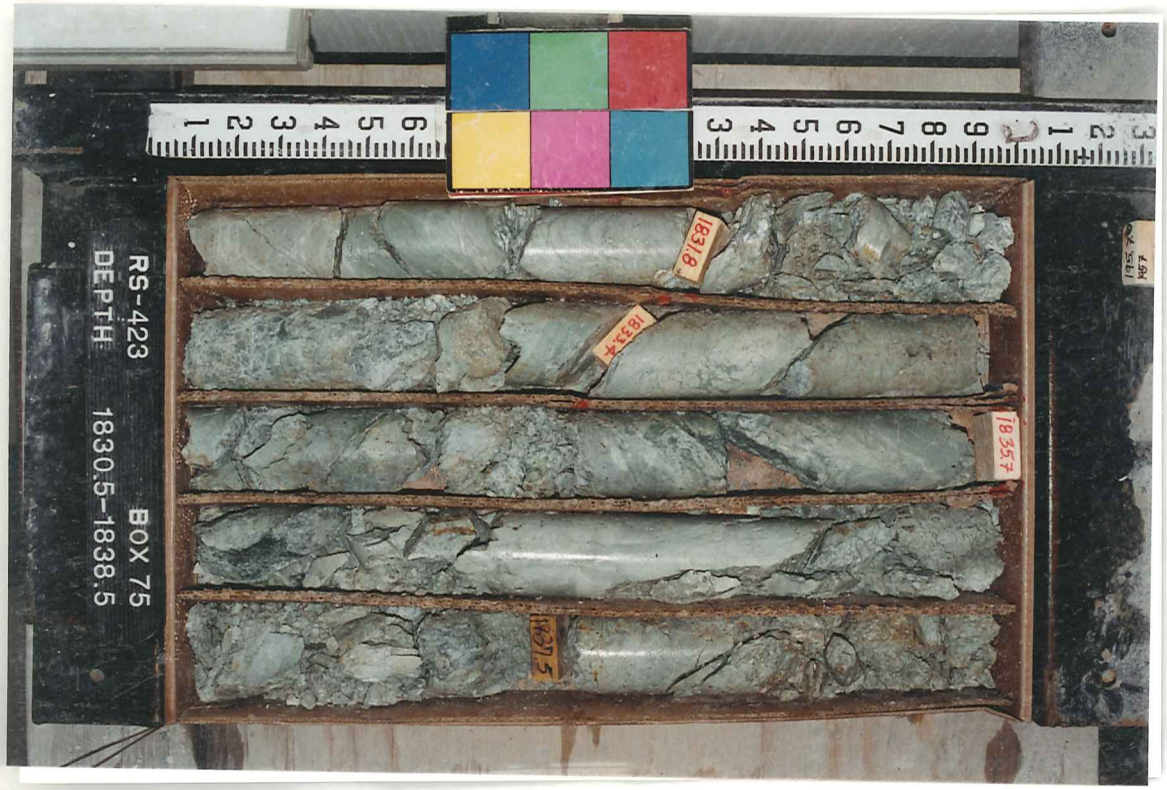
1780
1785.0
RS-423
BOX 70
DEPTH
1776.0-1785.0

1790
1794.7
RS-423
BOX 71
DEPTH
1785.0-1794.0

1800
1804.0
3.5' Loss
RS-423
BOX 72
DEPTH
1794.0-1803.0

1818.3
1810
1816
1821.5
1810.4
4.5' Loss
RS-423
BOX 73
DEPTH
1803.0-1822.0

1828.8
1823.3
1830
RS-423
BOX 74
DEPTH
1822.0-1830.5


1833.8
1835.4
1835.7
1837.5
RS-423
BOX 75
DEPTH
1830.5-1838.5

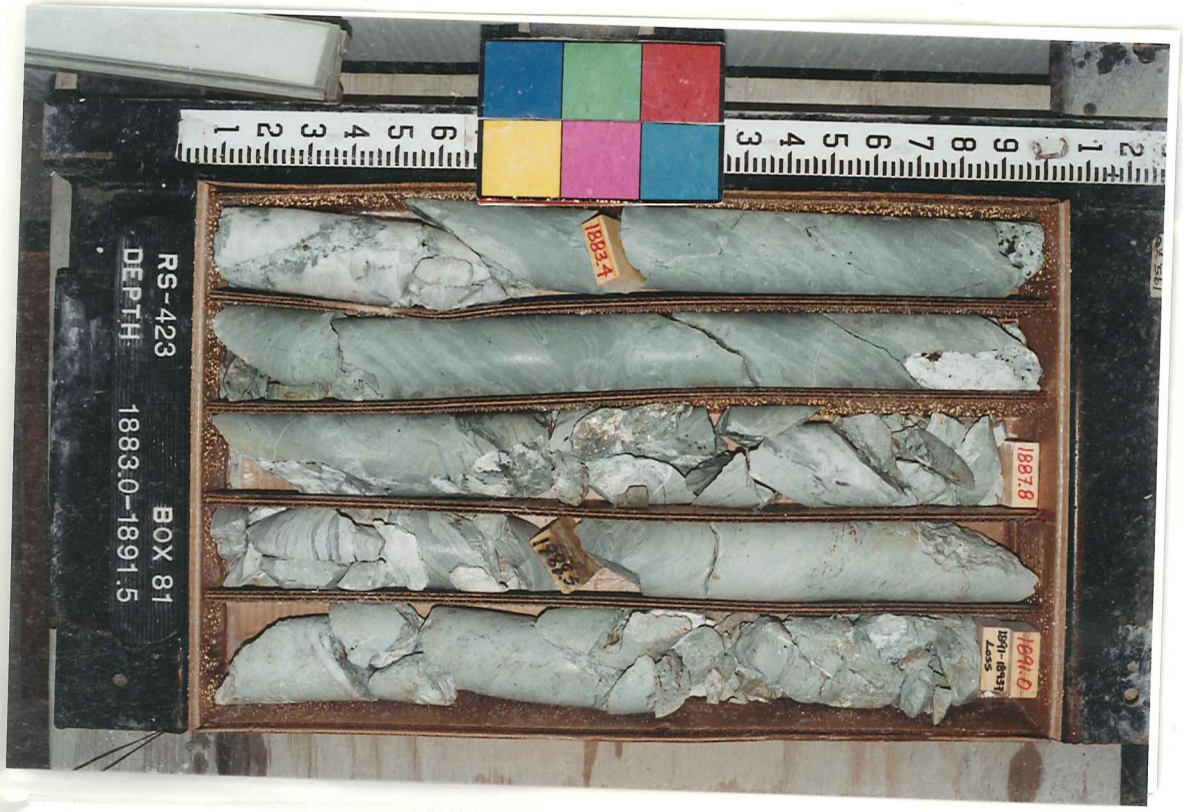
1839.8
1843.5
1845.4
RS-423
DEPTH
BOX 76
1838.5-1848.0

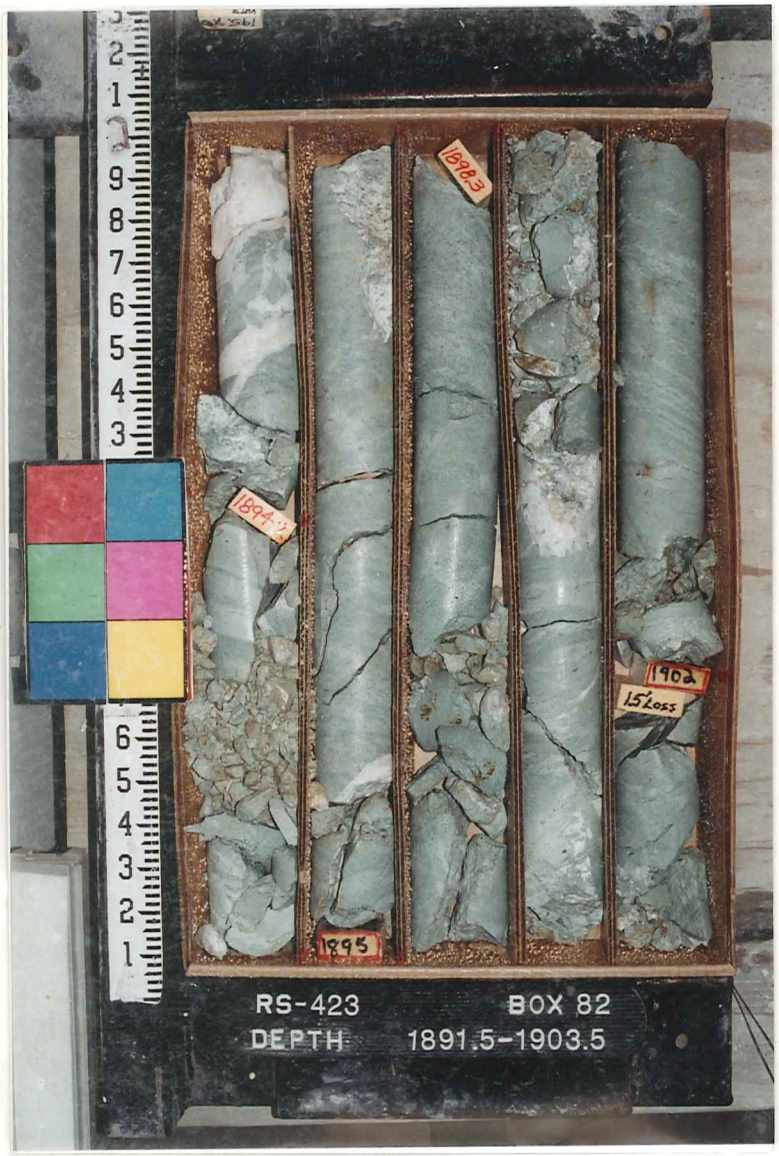
1856.5
1853.5
RS-423
DEPTH
BOX 77
1848.0-1857.0

1864.3
1866.5
RS-423
DEPTH
BOX 78
1857.0-1866.0

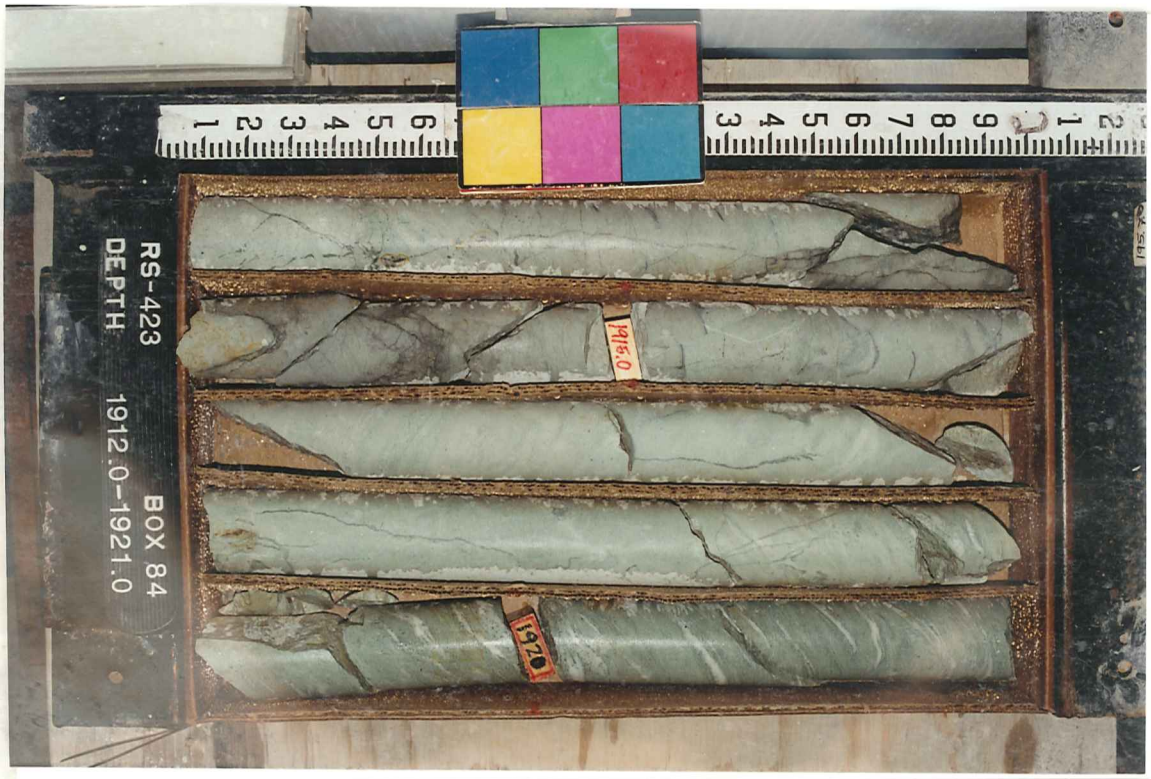
1867.7
1873.7
1871.0
RS-423
BOX 79
DEPTH
1866.0-1875.0

1877.7
RS-423
BOX 80
DEPTH
1875.0-1883.0


1883.4
1887.8
1891.0
RS-423
BOX 81
DEPTH
1883.0-1891.5


1898.3
1894.3
1902
15' Loss
1895
RS-423
BOX 82
DEPTH
1891.5-1903.5

1904.9
1910
RS-423
BOX 83
DEPTH
1903.5-1912.0


1915.0
1920
RS-423
BOX 84
DEPTH
1912.0-1921.0

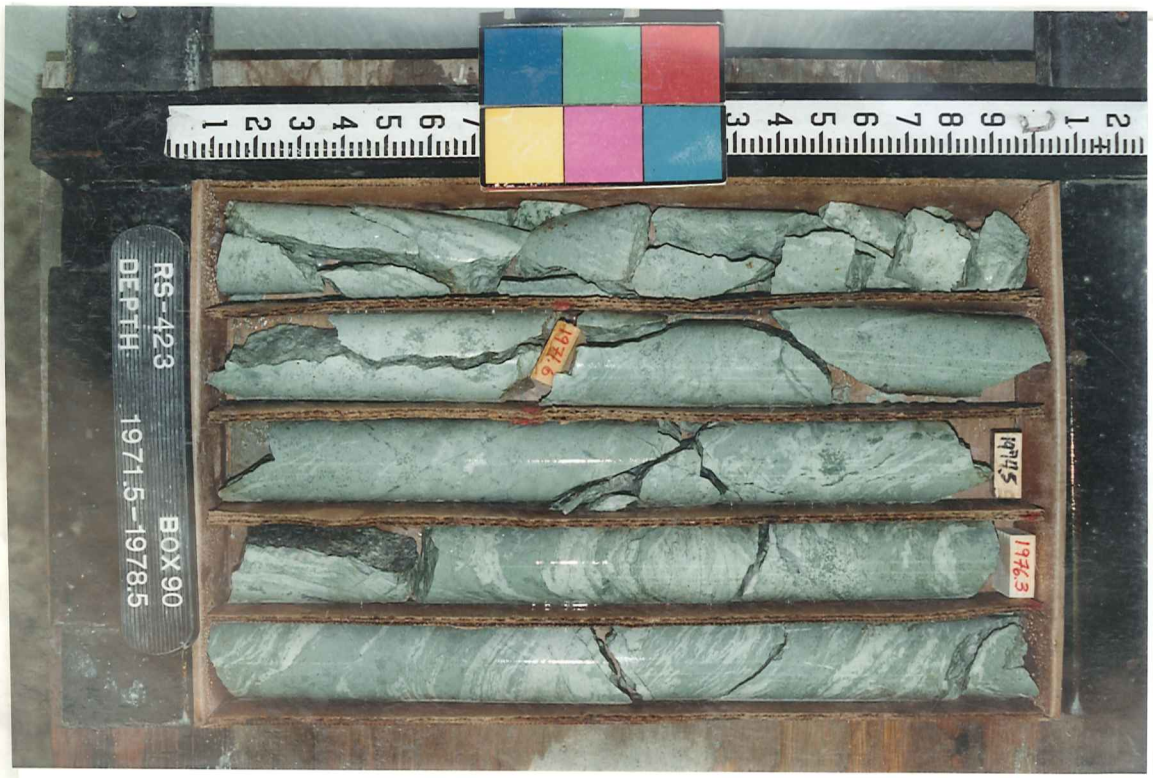
1924.8
1930.0
RS-423
BOX 85
DEPTH
1921.0-1930.0

1934.8
RS-423
BOX 86
DEPTH
1930.0-1939.0

1940
1945.0
1945.3
1950
RS-423
BOX 87
DEPTH
1939.0-1952.8

1956.0
1958.1
1953
1957
RS-423
BOX 88
DEPTH 1952.8-1962.0

1962
1965.5
1966.8
RS-423
BOX 89
DEPTH 1962.0-1971.5


1971.5
1973
RS-423
BOX 90
DEPTH 1971.5-1978.5

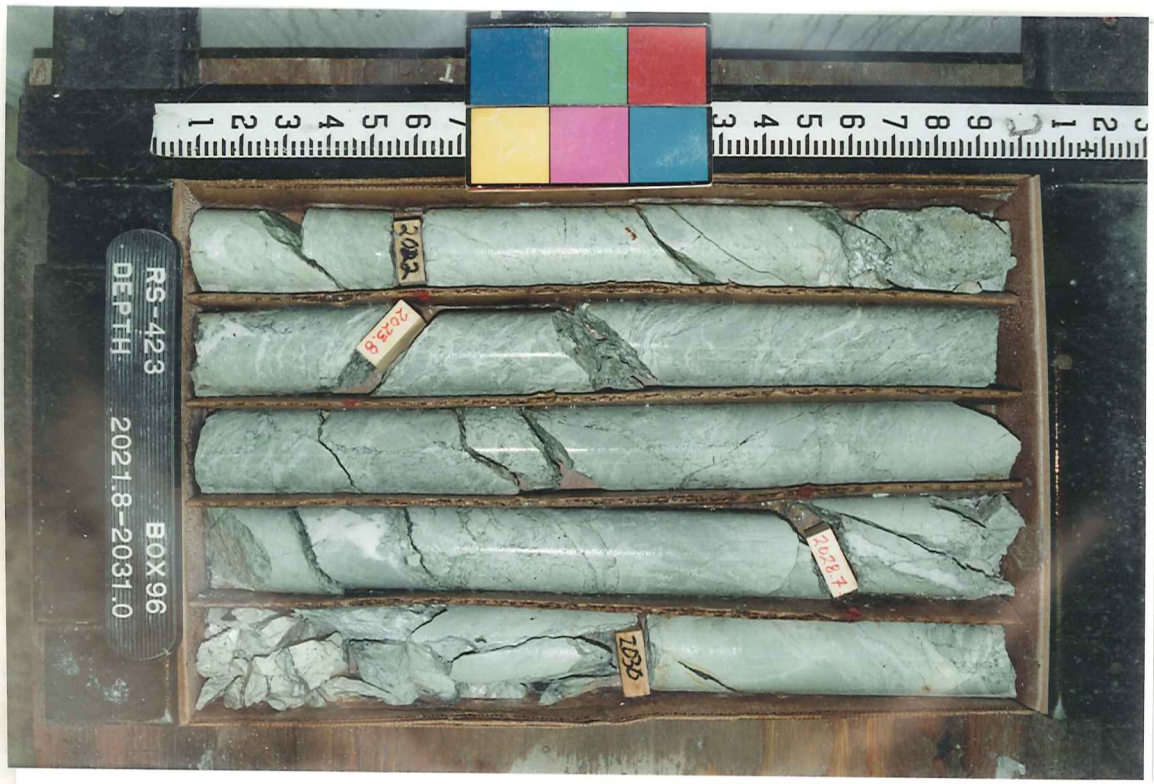
1981.0
1984.5
1986.0
RS-423
BOX 91
DEPTH
1978.5-1987.0

1991.3
1995
RS-423
BOX 92
DEPTH
1987.0-1996.0

1996.9
1999.4
2003.5
RS-423
BOX 93
DEPTH
1996.0-2005.2

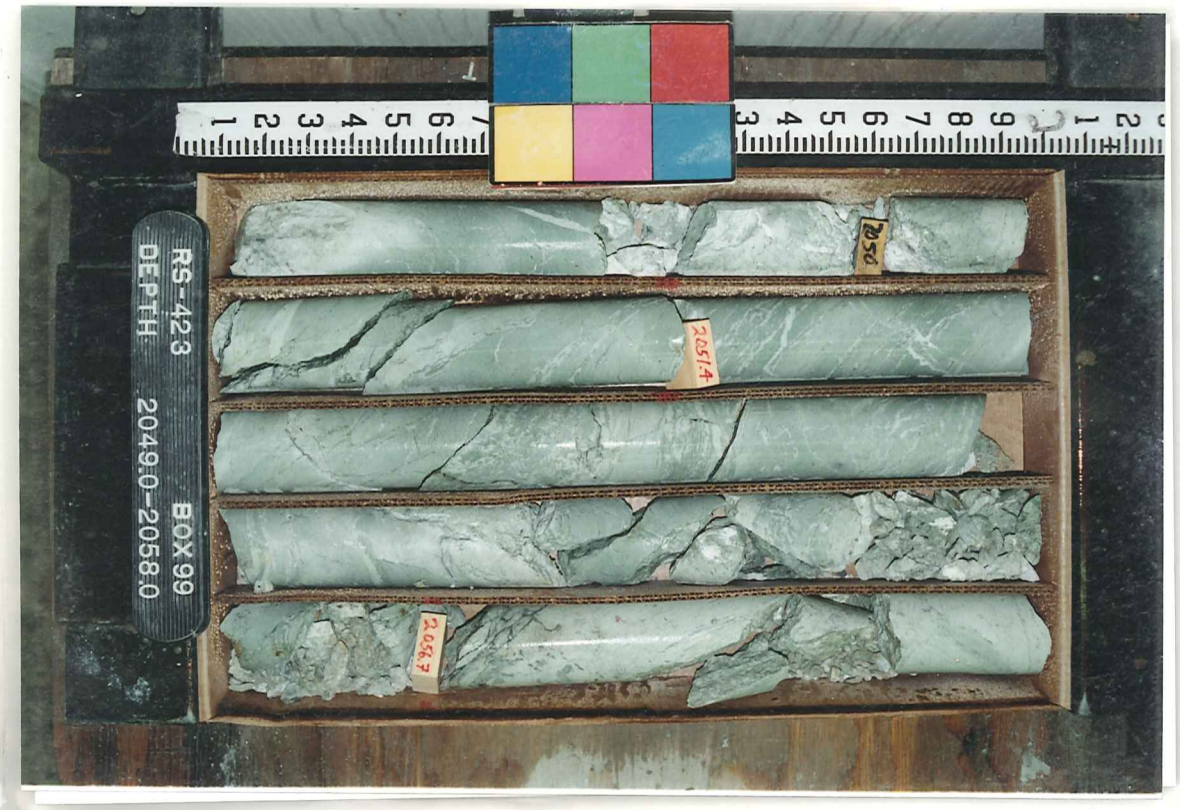
2010
RS-423
BOX 94
DEPTH
2005.2-2017.5

2020
2013.6
2016.8
RS-423
BOX 95
DEPTH
2017.5-2021.8


2023
2023.8
2028.7
2030
RS-423
BOX 96
DEPTH
2021.8-2031.0

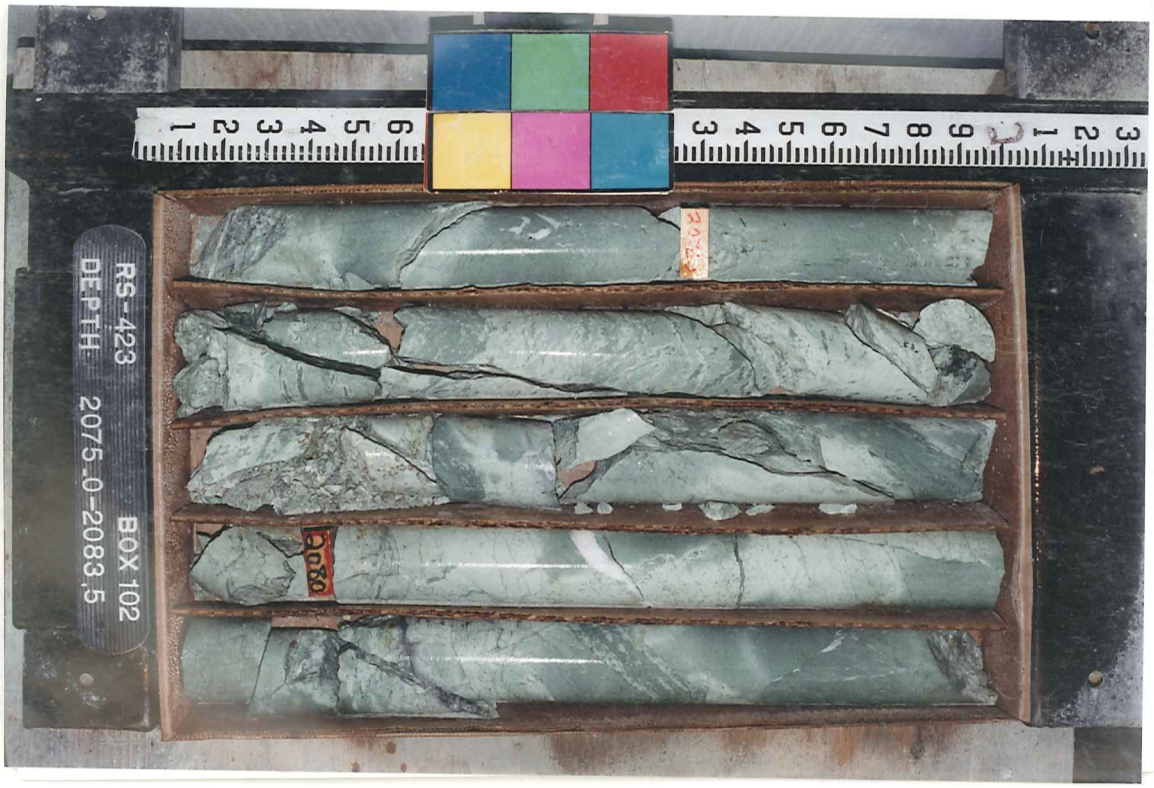
2032.3
2037.1
RS-423
BOX 97
DEPTH
2031.0-2040.0

2046.3
2042.2
2040
RS-423
BOX 98
DEPTH
2040.0-2049.0


2050
2051.4
2056.7
RS-423
BOX 99
DEPTH
2049.0-2058.0

2060
2062.3
RS-423
BOX 100
DEPTH 2058.0-2067.5

2067.4
2074.7
2070
RS-423
BOX 101
DEPTH 2067.5-2075.0


2080
RS-423
BOX 102
DEPTH 2075.0-2083.5

2085.2
2090
RS-423
BOX 103
DEPTH 2083.5-2093.0

2100.9
2095.2
2100
RS-423
BOX 104
DEPTH 2093.0-2101.0

2106.6
2110
RS-423
BOX 105
DEPTH 2101.0-2110.8

2115.7
2117.7
2118.3
RS-423
BOX 106
DEPTH: 2110.8-2119.2

2125.8
2119.7
RS-423
BOX 107
DEPTH: 2119.2-2128.6

2129
2131.9
2136.9
RS-423
BOX 108
DEPTH: 2128.6-2136.7

2139
2142.5
RS-423
BOX 109
DEPTH 2136.7-2146.5

2147.6
2149
2152.6
RS-423
BOX 110
DEPTH 2146.5-2155.5

2157.7
2159
2163.3
RS-423
BOX 111
DEPTH 2155.5-2165.0

2168.1
2166
RS-423
BOX 112
DEPTH 2165.0-2174.3

2178.5
2181.2
2173.5
RS-423
BOX 113
DEPTH 2174.3-2182.0

2183.5
2186.1
2190
RS-423
BOX 114
DEPTH 2182.0-2190.5

2191.4
2197.5
RS-423
BOX 115
DEPTH 2190.5-2199.5

2200
2201.2
2206.9
RS-423
BOX 116
DEPTH 2199.5-2208.0

2216
2217.5
RS-423
BOX 117
DEPTH 2208.0-2217.0

RS-423
BOX 118
DEPTH 2217.0-2225.0

RS-423
BOX 119
DEPTH 2225.0-2233.5

RS-423
BOX 120
DEPTH 2233.5-2239.0