

R. 49 E.

2

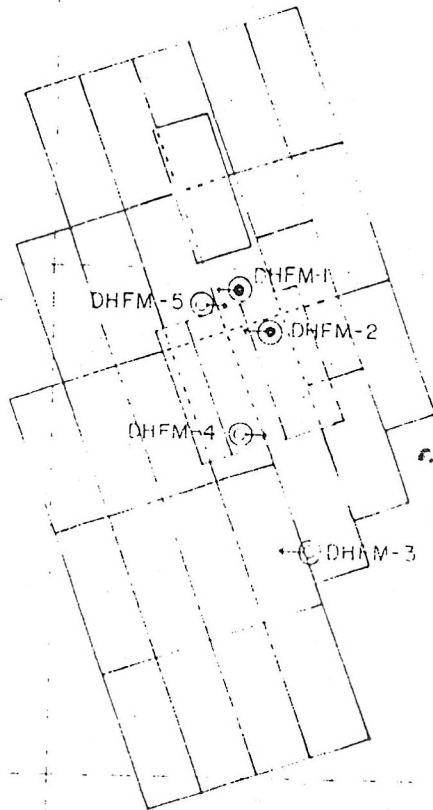
6



11

12

7



T. 40 N.

EXPLANATION

P. D. Exploration Drill Holes

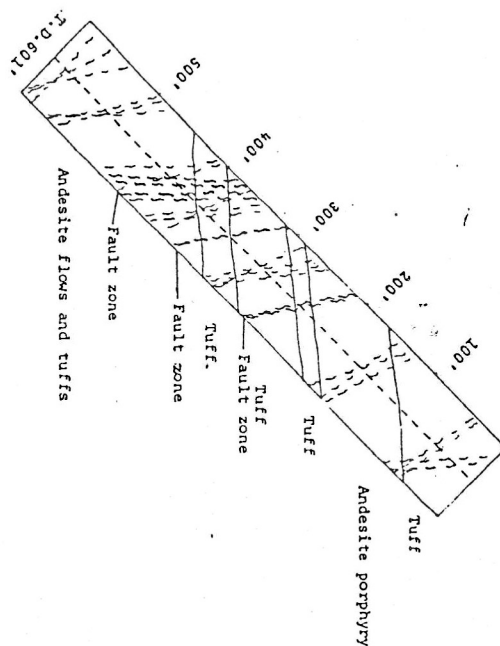
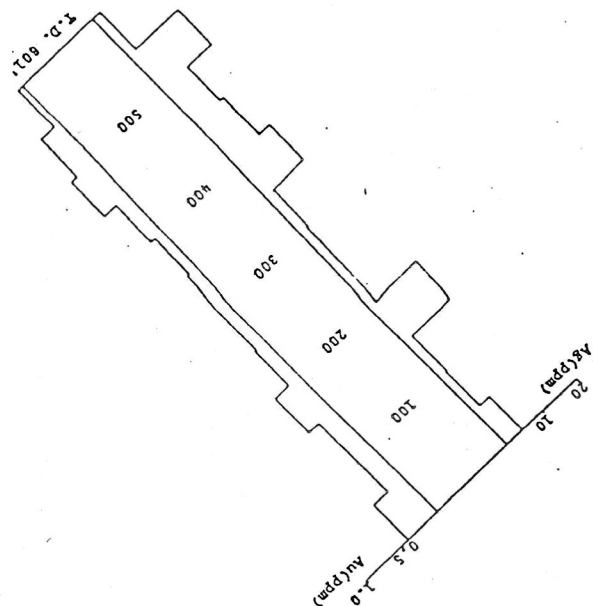
- Complete
- Incomplete
- Proposed

0 1000 2000 3000 4000
SCALE IN FEET

PHELPS DODGE CORPORATION
WESTERN EXPLORATION OFFICE
DRILL HOLE MAP
FALCON PROJECT

ELKO COUNTY, NEVADA

Scale: 1" = 2000' October, 1975



GEOLOGIC LOG

GEOLOGIC LOG

0-103' Volcanic tuff- bluish-gray, frag-
mentals; mod. argillization &
silicification. Qtz. veinlets,
tr. to 5% pyrite.

103-227' Andesite porphyry- gray to blue-
gray, int. brecciation locally;
int. argillization & mod. silic-
ification; tr. to 2% dism. pyrite
with massive sulfides on shear
surfaces; tr. pyrrhotite.

227-247' Volcanic tuff- light gray, frag-
mentals; int. argillization &
mod. silicification; tr. to 4%
dism. pyrite. Qtz. veining.

247-253' Clay gouge-fault zone, heavy
sulfides.

253-349' Andesite? porphyry- gray, fold-
altered to clay, mod. silicifi-
cation. Random Qtz. veining &
shearing.

349-355' Clay gouge-fault zone, tr. dism.
pyrite.

355-395' Volcanic tuff- light gray, frag-
mentals; mod. argillization &
silicification; tr. to 4% dism.
pyrite.

395-432' Fault zone- tr. to 4% dism pyrite
Qtz. veining random.

432-601' Andesitic flows with interlayer-
ed tuffs; mod. argillization &
silicification. Tr. to 1% dism.
pyrite, tr. pyrrhotite.

ASSAY RESULTS

Generally the gold and silver
values are anomalous from the
surface to 540' - However the
values are well below ore grade.

PETROGRAPHIC RESULTS

25' Tuff (hyaloclastic), strong epizonal
epizonal (silicification), strong
epizonal (silicification)

73' Volcanic tuff- strong, low epizonal,
pyrite largely in fractures.

142.5' Volcanics- strong, epizonal
(silicification)

156' Vein quartz and altered andesite
wallrock- strong, epizonal (silic-
ification, weak K-metasomatism)

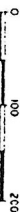
236' Volcanic tuff- very strong, low
epizonal

260' Volcanic bx.- very strong, epizonal
(silicification)

338' Volcanic (tuff) bx.- very strong,
low epizonal

ASSAY BY 50' INTERVALS

Interval	Au(ppm)	Ag(ppm)
0-50'	0.4	4.2
50-100'	0.2	1.8
100-150'	0.19	2.0
150-200'	0.34	12.8
200-250'	0.14	1.6
250-300'	0.12	2.2
300-350'	0.14	10.8
350-400'	0.15	7.8
400-450'	0.32	7.0
450-500'	0.24	14.0
500-550'	0.24	1.8
550-601'	-0.1	



Scale in feet

Drill Hole FM-2
Assays are for each 10'

Sample No.	ppm Gold	ppm Silver
409601	-0.1	1
2	0.6	14
3	0.3	12
4	-0.1	1
5	0.4	15
6	-0.1	-1
7	-0.1	-1
8	-0.1	-1
9	-0.1	-1
409610	-0.1	-1

0-50

50-100

By *Gary M. Fechko*

Gary M. Fechko
 Rocky Mountain Geochemical Corporation
 Sparks, Nevada November 4, 1975



Sample No.	ppm Gold	ppm Silver
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409620	-0.1	1
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21	0.1	14
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22	-0.1	1
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23	-0.1	2
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24	0.1	2
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25	0.1	2
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26	-0.1	1
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28	-0.1	2
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29	-0.1	2
----	------	---

30	-0.1	1
----	------	---

31	-0.1	2
----	------	---

32	0.3	3
----	-----	---

33	0.1	3
----	-----	---

34	-0.1	2
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35	-0.1	-1
----	------	----

36	-0.1	2
----	------	---

37	-0.1	2
----	------	---

38	-0.1	-1
----	------	----

39	0.1	4
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41	0.2	6
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42	0.5	5
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43	-0.1	4
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44	-0.1	4
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45	-0.1	2
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409646	-0.1	2
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200-250

250-300

300-350

350-400

400-450



ROCKY MOUNTAIN GEOCHEMICAL CORP.

SALT LAKE CITY, UTAH

RENO, NEVADA

TUCSON, ARIZONA

Sample No.	ppm Gold	ppm Silver
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409647	-0.1	2
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48	-0.1	1
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49	0.1	6
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50	-0.1	2
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51	-0.1	2
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52	-0.1	2
----	------	---

53	-0.1	3
----	------	---

54	-0.1	3
----	------	---

55	-0.1	-1
----	------	----

56	-0.1	2
----	------	---

57	-0.1	2
----	------	---

58	-0.1	1
----	------	---

59	-0.1	3
----	------	---

60	-0.1	3
----	------	---

61	-0.1	3
----	------	---

62	0.3	21
----	-----	----

63	0.1	7
----	-----	---

64	0.4	11
----	-----	----

65	0.4	8
----	-----	---

66	0.6	10
----	-----	----

67	0.3	3
----	-----	---

68	0.1	5
----	-----	---

69	0.1	8
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70	-0.1	4
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409671	-0.1	5
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450-500

500-550

550-600

600-650

650-700

**ROCKY MOUNTAIN GEOCHEMICAL CORP.**

SALT LAKE CITY, UTAH

RENO, NEVADA

TUCSON, ARIZONA

Sample No.	ppm Gold	ppm Silver
409672	0.4	5
73	0.2	8
74	0.2	15
75	0.1	6
76	-0.1	2
77	0.1	4
78	-0.1	4
79	-0.1	4
80	0.1	8
81	-0.1	5
82	-0.1	5
409683	-0.1	4

LSD - 70.

70 - 721

By

Gary M. Fechko

Gary M. Fechko
Rocky Mountain Geochemical Corporation
Sparks, Nevada December 17, 1975



ROCKY MOUNTAIN GEOCHEMICAL CORP.

SALT LAKE CITY, UTAH

RENO, NEVADA

TUCSON, ARIZONA

Sample No.	ppm Gold	ppm Silver
409611	-0.1	2
12	0.1	2
13	0.1	1
14	-0.1	-1
15	0.3	2
16	0.3	2
17	0.5	5
18	0.3	6
409619	0.1	2

By



Gary M. Fechko
Rocky Mountain Geochemical Corporation
Sparks, Nevada November 14, 1975



ROCKY MOUNTAIN GEOCHEMICAL CORP.
SALT LAKE CITY UTAH • RENO NEVADA • TUCSON ARIZONA