

42A06NE0383 63.3984 SHAW

010

LACANA MINING CORPORATION

GEOPHYSICAL REPORT

ON A

MAGNETIC SURVEY

SHAW TOWNSHIP

PORCUPINE MINING DIVISION

ONTARIO

April 1981 Kirkland Lake, Ontario

R. C. Wells, B.Sc.

R. Welly 25/5/81.

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| TABLE OF CONTEN. 42A06NE0383 63.3984 SHAW | Ø10C | PAGE NO. |
|---|------|----------|
| INTRODUCTION | | 1 |
| LOCATION AND ACCESS | | 1 |
| PREVIOUS WORK | | 1 |
| TOPOGRAPHY | | 2 |
| GENERAL GEOLOGY | | 2 |
| GRID CUTTING | | 3 |
| MAGNETOMETER SURVEY | | |
| (a) METHOD | | 3 |
| (b) RESULTS AND CONCLUSIONS | | 3 |
| | | |
| APPENDIXES | | |
| APPENDIX 1 | | at rear |

LARGE FIGURES AND PLANS

INTRODUCTION

Lacana Mining Corporation took an option on 13 unpatented claims in Shaw Township in 1980. During January and February 1981, a grid was cut on the property and a magnetic survey was completed. This report gives details of the magnetic survey as required for assessment by the Ontario Government.

LOCATION AND ACCESS

Lacana Mining Corporation holds 13 contiguous unpatented claims in Shaw Township, Porcupine Mining Division. The claims are as follows:

- P 353822-823-824-825-826-827-828
- P 528942-943-944-945-946
- P 578226

From here onwards, the claim group will be referred to as the Property. The Property is located in the northern part of Shaw Township to the west of Goose Lake. An all weather gravel road from South Porcupine gives access to Shaw Township. From Tisdale water supply an east trending bush road can be driven as far as Goose Lake in dry weather. This track passes through the northern part of the Property.

PREVIOUS WORK

The area was thoroughly prospected during the discovery era of the Porcupine Mining Camp, around 1909, and in 1925, two shafts, each 60 feet deep, were sunk by Porcupine Hudson Bay Mines Ltd.

The ground was subject to a great deal of surface stripping, trenching and sampling at various times. Bay Lake Gold Mines Ltd. held the Property between 1930 and 1966. Bay Lake optioned the Property to Sylvanite Gold Mines Ltd. in 1940, the latter did a large amount of bulk sampling. Assays from the bulk sampling program ranged up to 0.05 ounces of gold per ton.

Flint Rock Mines Ltd. staked the Property after the claims reverted to the Crown in 1966. Flint Rock drilled 11 holes on the Property in 1972 and 1974. Assays from mineralized zones in the core gave gold contents ranging from 0.02 ounces per ton over 2½ feet to 0.36 ounces per ton over 6.0 feet.

Lacana Mining Corporation took an option on the Property in 1980.

TOPOGRAPHY

Much of the northern and western parts of the Property consist of gently undulating upland with numerous outcrops and open birch woodland. The south and southeastern parts of the Property are low lying and swampy.

GENERAL GEOLOGY

The geology of Ogden, Deloro and Shaw Townships is covered by Ontario Department of Mines, Open File Report 5012 (1967) by H. D. Carlson. The claims are underlain by intermediate to mafic metavolcanic flows with narrow banded iron formation and interflow pyroclastic zones. The volcanics and iron formations strike roughly NW-SE and dip gently to the NE.

There are a number of zones of intense carbonate alteration on the Property, some of these are closely associated with the iron formations while other wider zones have a more easterly trend, have steep dips and seem to crosscut the stratigraphy.

GRID CUTTING

A grid, over 25 miles long, was cut on the Property during February 1981 by Gelinas and Associates Ltd. of St. Severe, Quebec. The base line, Az 315° and grid lines, Az 45° were cut, chained and picketed. Much of the Property was covered by 100 foot spaced grid lines with tie lines at every 500 feet.

MAGNETOMETER SURVEY

(a) METHOD

A Scintrex MP-2 Proton Magnetometer was used for the survey. Readings were taken at 50 foot stations on the grid. The survey was conducted in a series of closed loop traverses with stations on the base line being used as base stations. Diurnal corrections were made.

(b) RESULTS AND CONCLUSIONS

The readings from the magnetometer survey are plotted in Figure 1. Readings over the detailed part of the grid (100 foot spaced lines) are contoured in Figure 2.

A prominent southeast trending magnetic ridge is evident in Figure 2. The ridge has 2,000 to 10,000 gammas relief and occurs

over the main iron formation zone on the Property. The contour pattern over the formation suggests shallow dips and strong folding. Small isolated magnetic ridges to the east and west of the main zone may represent fragmented iron formation or sites where folding has brought the formation close to surface.

Away from the iron formation, the magnetic grain is predominantly SE to ESE.

The 1972 diamond drilling by Flint Rock Mines intersected mineralized tuff beds associated with iron formation which gave high gold values. The magnetic survey accurately delineated the main iron formation zone and a number of other zones. These zones are targets for future exploration.





REPORT ON EXPLORATION DURING 1981

FOR THE

SHAW PROJECT, SHAW TOWNSHIP PORCUPINE MINING DIVISION, ONTARIO

Ronald C. Wells Lacana Mining Corporation Kirkland Lake, Ontario November, 1981

ay Barken For R.C. wells

CONCLUSIONS AND RECOMMENDATIONS

Six diamond drill holes totalling 2,312 feet were completed on the property during the period March to April 1981.

It is very hard to explain the differences in assay results between the 1972 drilling by Flint Rock and the 1981 drilling by Lacana. No significant gold values were obtained from the main carbonate zone in 1981, while Flint Rock reports values up to 0.24 oz. Au/ton over 15 feet. The gold distribution may be highly erratic in the carbonate zone but DDH SH-6-81 drilled within the carbonate zone for 247 feet did not intersect any gold values. The mineralized iron formation produced higher assays, in the 0.02 oz. Au/ton range, but again still not nearly as high as those obtained by Flint Rock. Assays from surface pits within the iron formation gave similar results to the Lacana drilling.

It was concluded that the Flint Rock assays were highly suspect and that the property should be dropped.

LOCATION AND PROPERTY STATUS

Lacana Mining Corporation took an option on 13 contiguous unpatented claims in Shaw Township, Porcupine Mining Division, in 1980. The property is located in the northern part of Shaw Township to the west of Goose Lake.

PREVIOUS WORK

Bay Lake Gold Mines Ltd. held the property between 1930 and 1966. Sylvanite Gold Mines Ltd. optioned the property in 1940 and completed a large amount of bulk sampling with assays ranging up to 0.05 oz. Au/ton.

Flint Rock Mines Ltd. presently holds the property. From 1972 to 1974 11 holes were drilled by the owners. Assays from mineralized zones in the core gave gold contents ranging from 0.02 oz. Au/ton over 2 1/2 feet to 0.36 oz. Au/ton over 6.0 feet.

GEOLOGY

The claims are underlain by intermediate to mafic metavolcanic flows with narrow banded iron formation and interflow pyroclastic zones. The volcanics and iron formations strike roughtly NW-SE and dip gently to the NE.

There are a number of zones of intense carbonate alteration on the property, some of which are closely associated with the iron formations while other wider zones have a more easterly trend and steep dips, and seem to crosscut the stratigraphy.

1981 WORK PROGRAM

During February 1981 Gelinas and Associates Ltd. cut a grid over 25 miles long on the property and completed a detailed magnetometer survey. Six diamond drill holes totalling 2,312 feet were put down on the property during April 1981 by Norex Drilling Ltd. Table 1 summarizes the drilling. Much of the core was sent for assay and sludge samples were taken for each hole. A probe was used on each hole producing gamma and S.P. logs. After drilling, all the old pits and trenches on the property were resampled.

RESULTS

The magnetometer survey accurately outlined the iron formation on the property.

The drill results were very disappointing, as the assays by Flint Rock could not be reproduced even though some of the same drill set-ups were used. Quartz vein material was intersected but in most cases it was barren.

Sludge samples were assayed prior to sampling the core so that no mineralized sections were missed. Four of the 1981 holes were essentially redrilling previous Flint Rock holes (Table 1). DDH-SH-6-81 was put down on the main carbonate zone close to the old shaft and was angled so that it would stay within the zone (i.e., it was drilled down dip). The hole stayed in carbonate rock for 247 feet; no significant mineralization was intersected.

Assays from the surface pits and trenches generally ranged from trace Au to 0.08 oz. Au/ton.

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SHORT REPORT ON DIAMOND DRILLING

FLINT ROCK P



GENERAL

030

Six diamond drill holes were completed during the period March to April 1981 on the Shaw Property by Norex Drilling Ltd. of South Porcupine. Details on the drilling occur in the following table.

| Hole No. | | | Grid | | Redrill Hole No. | |
|------------------------|--------------|-----|-------------|---------|------------------------------|--|
| <u>(1981)</u> <u>I</u> | ength | Dip | Location | Bearing | (1972) | Target |
| SH-1-81 | 550 ' | 50° | 5+20S/5+80E | 180° | DDH - 8# | Carbonate Zone |
| SH-2-81 | 400' | 50° | 5+10S/2+80W | 230° | DDH - 1# | Mineralized Tuffs |
| SH-3-81 | 389' | 50° | 0+75S/2+35E | 190° | DDH - 10# (approx. position) | Carbonate Zone |
| SH-4-81 | 357' | 50° | 1+50S/1+30W | 230 | DDH - 5# | Mineralized Tuffs |
| SH-5-81 | 469' | 50° | 4+00N/0+80W | 230 | | Intersection of Tuffs and Carbonate Zone |
| SH-6-81 | 247' | 80° | 6+15S/5+50E | 180° | | Carbonate Zone |
| motol o | 2201 | | | | | |

Total 2,312'

The first four holes tested the 1972 drilling results of Flint Rock Mines Ltd. Significant gold mineralization occurred as reported by Flint Rock in each of the four 1972 holes, as follows:

DDH-8# 224 ft. to 229 ft. (5 ft.) 0.21 oz. Au/ton 237 ft. to 252 ft. (15 ft.) 0.24 oz. Au/ton

DDH-1# 71.5 ft. to 775 ft. (6 ft.) 0.36 oz. Au/ton 303 ft. to 307.5 ft. (4.5 ft.) 0.25 oz. Au/ton DDH - 10# 148.0 ft. to 154.5 ft. (6.5 ft.) 0.38 oz. Au/ton
DDH - 5# 55.0 ft. to 58.5 ft. (3.5 ft.) 0.21 oz. Au/ton

In DDH's 1# and 5# (1972) the gold mineralization is recorded to be associated with mineralized tuff beds. The upper mineralized zone was traced 700 feet by the 1972 drilling through seven drill holes and the average gold content ranged from 0.02 oz. Au/ton over 2 1/2 feet to 0.36 oz. Au/ton over 6 feet.

In DDH's 8# and 10# (1972) the gold mineralization was associated with pyrite bearing quartz veins in the main carbonate zone.

RESULTS

The 1981 holes by Lacana that tested the previous 1972 drilling could not duplicate the results. Assays from sludge samples taken every 10 feet when possible and from core samples were not at all comparable with those from the 1972 drilling.

DDH's 1 and 3 both intersected the main carbonate zone which seems to dip vertically to 80°S. The carbonate probably follows a major fault zone. Fuchsite-bearing zones occur within the carbonate rocks and contain much broken quartz. All quartz vein material was split and assayed; the highest values obtained were in the region of 150 ppb. The 1972 drill logs mentioned that the gold-bearing quartz veins contain up to 10% sulfides; no significant sulfide mineralization was observed in any of the quartz veins in the 1981 core.

DDH-6(1981) (SH-6-81) was drilled down the carbonate zone in the vicinity of the old shaft (20 ft. away) to test whether DDH-5-81 had missed the gold-bearing zones intersected

by DDH-8#(1972). The hole kept with the carbonate zone for a total length of over 247 ft. No values higher than trace Au were obtained from the sludges on split core samples, although large amounts of vein quartz were present.

The carbonate zone is very similar in appearance to the gold-bearing carbonate-fuchsite zones in Tisdale Township with the exception that sulfide mineralization is sparse to absent.

DDH's 2 and 4(1981) intersected a number of strongly mineralized zones within a sequence of tuffs and iron formation. The iron formation varies from a few inches to over twenty feet in thickness and locally contains up to 20% pyrite and/or 20% pyrrhotite with some magnetite. Minor amounts of chalcopyrite are present with the other sulfides. The sulfides occur as conformable layer lenses and pods within the iron formation (sulfide iron formation).

Assays from the mineralized iron formation were generally much higher than from the carbonate zone. The highest value obtained was from a sludge sample (SH-4-81) 190' to 200', 0.06 oz. Au/ton. The highest core sample gave 0.03 oz. Au/ton over 2.5 ft in SH-2-81 (142 - 144.5 ft.). These values are still nowhere near as high as those obtained by the 1972 drilling.

DDH SH-5-81 tested the northern end of the iron formation zone where it merges with the main carbonate zone. Split core from this hole has still to be assayed though no significant mineralization was observed.

CONCLUSIONS

In 1940 Sylvanite Gold Mines Limited held an option on the property and did a large amount of bulk sampling on the most interesting showings; the best assay value returned from this work was 0.05 oz. Au/ton. This value is in the same range as the highest values obtained from the 1981 Lacana drilling. Some split core from the 1972 drilling was found in the vicinity of DDH's 2# and 8# (1972). The split core was collected and assayed; trace gold was obtained from both samples.

It is very hard to explain the difference in assay results between the 1972 and 1981 drilling. The gold distribution may be highly erratic in the carbonate zone but DDH SH-6-81 drilled within the carbonate zone close to the old shaft did not intersect any significant gold mineralization over 247 feet.

The mineralized iron formation seems to be a better target for future exploration, only 700 feet of the formation has been explored so far. Again, however, it is difficult to explain the difference between the 1972 and 1981 results. The lower mineralized zone (around 300 ft.) of the 1972 drilling was not encountered by any of the three 1981 holes (SH-2,4,5). The upper mineralized zone of the 1972 drilling roughly corresponds in position with this higher values obtained in 1981. Future work should concentrate on the southerly continuation of the upper mineralized iron formation. Much of the formation occurs close to or at surface and could be examined by stripping or shallow trenching.

The possibility of salting in the Flint Rock assay values cannot be discounted, however, and additional split core located near the old holes should be sought, and assayed. If once again no significant values are obtained, either here or in the surface work, no additional expenditures can be recommended.

| 11 | OLE 5/1-3-5/ PAGE 1 | | | DR | ILL HOLI | LOG | | | |
|---------|--|------------|-------------|---|-----------------------------------|---------|-------------------|---------|-----|
| D L | ROPERTY FUNT ROCK - SMAN DEP 2+35 DISTRICT SMAN TOP TIMMINS ELEV DOCATION CLAIM 528943 BEARING A2190 DIP 500 BJECTIVE Test Carbonate 2021 LENGTH 289 | FF | | HOR.COM VER.COM TOTAL R OTHER S DRILLED | PONENT ECOVERY URVEYS BY | allex a | JD. | | |
| C | OMMENCED TRUE DIP 50° COMPLETED TRUE DIP 50° AT () 775 S | 284 284 | | LOGGED | SY | | 12001/N 2115_B | <u></u> | |
| FOOTAGE | DESCRIPTION | SAMPLE | LENGTH | 1 | | AN | ALYSES | | |
| Y TO | | NUMBER | FT. | 8 | & | £ | 8 | oz/t | 02/ |
| 90 | CASING | 151 152 | 34 8 - 35 | | | | | | |
|) 1615 | CARBONATED INTERMEDIATE METAVOLCANIC | , | 83.0-87 | | | | | | |
| | Grey to greenish grey, moderately suft carbonated entermediate jours (Andwile Distinct speckled appearance from carbonate alteration some disseminated | | | | | | | | |
| | pyrite occurs locally. Little yeartz veining. Rusty, strongly carbonated zones occur locally | | | | | | | | |
| | @ 220' 1" rusty carbonate 20.12 45°CA | | | | | | | | |
| | with some disseminated Py. @ 350 12" quartz vein. 50°CA. @ 750 12" quartz vein 35°CA | | | | | | | | |
| | minor tourmaline. @ 83.2 to 86.0 Pure Carbonate brown to pinkish, very course grained with small flecks of jucksike on light | | | | | | | | |

HOLE 54-3-81

PAGE 2

| - [| FOOTAGE | DESCRIPTION | SAMPLE | LENGTH | | | <u> </u> | NALYSI | ES A. | |
|------|-------------|---|--------|-------------|---|-------------|----------|--------|----------------|------|
| | FROM TO | DESCRIPTION | NUMBER | FT. | 8 | 8 | િક | 8 | 02/t | oz/t |
| | | @ 870 to 873 Quark vein | 154 | 100.9101 6 | | • | | | TR | |
| - | | 2) 101 to 1014 quartz vein with | 155 | 110.4.110.8 | | | | | 7 _R | |
| | | minos tourmating . 45°CA. | 156 | 1634-1654 | | • | | | TR | |
| | | @ 110.6 1/2" quartz vein 45°CA. | 187 | 172.0-1730 | | | | | TR | |
| 1 | 1 | @ 1498 1" quartz vein 45°CA. | 158 | 176.9-177.9 | | | | | TR. | . * |
| | (| 1) 1550 1" quark-carbonate vein 45°CA | • | • | | | | | · | |
| | 1610 - 1670 | QUARTZ - CARBONATE ROCK. | į | | | | | | | |
| | | Suft, muttled green and brown, | 3 | | | | | | | |
| | | quartz-corbonate breccia with green | | | | | | | | |
| | | chlorite and fichiste Minor dine | | | | | | | | |
| | 1670 - 1870 | STRONGLY CARBONATED METAVOLCANICS | | | | | -1 | | | . |
| | 7676 7570 | modulately suft, grey strongly | | | | | | | | |
| | | carbonated metavolcanic rocks with | | | | | | | | |
| | | numerous corbonate veins and pods. | | | | | • | | | |
| | | Some quartz veins and blubs. | • • . | | | | | | | |
| | · | (1770 1/2" quartz vein 45°CA. | | | | | | | | |
| | | @ 1796 1/2" quark vein 45°CA @ 1820 1/4" quark vein 50°CA | | | | | · | | | |
| | | @ 1870 2" quarte vein 45° CA. | | | | . 143 | | | | |
| | | | , | | | | | | | 1 |
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HOLE 571-3-81 PAGE 3

| FOOTAGE | 2200772MT01 | SAMPLE | LENGTH | 6.1 | | A | NALYSE | ES A | |
|--------------|------------------------------------|--------|---------------------------------------|--|----|-----|--------|------|------|
| FROM TO | DESCRIPTION | NUMBER | | 8 | E | 1 8 | 1 2 | oz/t | oz/t |
| 1870 - 214 | CARBONATE ROCK | 159 | 2015-2025 | | ٠. | | | 1002 | |
| | Syll, gray carbonate rock. Some | 160 | 100 0 . 202. 2 | | | | | 72 | |
| | rarge quartz veins, rare fuchsite. | 161 | 2087-2017 | | | | | TR | |
| | @ 2018 in 2024 quarte vein | 162 | 2165 2175 | | | İ | ļ | 70 | |
| | @ 2040 to 2044 quartz vein | 113 | 2228 -2235 | | | | | 7K. | |
| | @ 2053 1" Quartz vain | 164 | 2250 - 2276 | | | | | .05 | - |
| | @ 20\$ 9 16209 4 Quarte vein | , | | | | | | | |
| 314 - 227 | QUARTZ- CARBONATE ROCK | | | | | | | | |
| | mottled grey to greenish grey. | | · · · · · · · · · · · · · · · · · · · | | |] | | | |
| | Strongly carbonaled with quartz | • | | | | | | | |
| | and pubsite in most part a brecia | • | | · · · · · · · · · · · · · · · · · · | • | | | | • |
| | @ 217 in quark vein | | | i | | | | | |
| | @ 2175 2" quarte vein 75°CA. | 9 | | | | | | | |
| | @ 2184 to 2190 quartz vein with | | ** | | | | | | |
| | biebs of cpy. | | | | | } | | | |
| | @ 2197 2" quarte vein 80°CA. | | | | | | | | |
| | @ 2250 to 225.9 Much quarte and | | | | | | | | |
| , | rusty carbonate. | | | | | | | | |
| 2.270 - 2570 | CARRONATED INTERMEDIATE TUFFS | | | | | | | | |
| | modium hard to moderately soft | | | | | | | | |
| | gray to green tiffs. Combonate | | | | | | | | |
| | alteration decreases down hore. | | | | | | | | |
| | (227 to 231 Strong Poliation 450 | 4. | | | | | ' | | |
| | @ 252 to 254.2 Strongly carboneted | · | | | | | , | | |

HOLE 51/- 3-51

PAGE 4

| | FOOT | AGE TO | | | DEC | CDID | MT ON | | | | SAMPLE | LENGTH | <u> </u> | | | ANALYSI | ES - | |
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Bell-White analytical laboratories LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

Certificate of Analysis

NO. B90-91

DATE: April 13, 1981

Sludge (28)

RECEIVED: April 1981.

SAMPLE(S) FROM: Mr. R. Wells, Lacana Mining Corporation

Hole SH-3-81

| Footage | Gold ppb |
|---------------------------|----------|
| 10-20 | 44 |
| 20-30 | 26 |
| - 40=50 *30-4° | 27 |
| 40-50 * | 18 |
| 50-60 | 29 |
| 60-70 | 14 |
| 70-80 | 10 |
| 80-90 | 11 |
| 90-100 | 14 |
| 100-110 | 16 |
| 110-120 | 5 |
| 120-130 | 12 |
| 130-140 | 29 |
| 140-150 | 12 |
| 150-160 | 22 |
| 160-170 | 5 |
| 170-180 | 11 |
| 180-190 | 5 |
| 190-200 | 16 |
| 200-210 | 34 |
| 210-220 | 30 |
| 220-230 | 63 |
| 230-240 | 70 |
| 240-250 | 152 |
| 250-260 | 172 |
| 260-270 | 163 |
| 270-290 | 128 |
| 280-290 | 152 |

Footages duplicated.

| o | . 13 | OLE <u>571 - 2 - 51</u> PAGE <u>7</u> | | | DR | IIT HOI | E LOG | | | |
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| FOOT. ROM | AGE TO | DESCRIPTION | SAMPLE | LENGTH | | A | AN | ALYSES | 5 A., | |
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| v '7' | 17 | Choping | 101 | 20 -0 - 21 0 | , | | | | TR | |
| | 581 | The state of the s | 102 | 270-28-6 | | | | | Ta | |
| | | Grey to greenish grey, corbonated | 103 | 350-36-0 | , | | | | TR | |
| | | anderthe lavas and typs. | 104 | 51.0-52.0 | | | | | TR | |
| | | @ 19.5 to 20.0 Siliceous tiff with bleby | 105 | 570-580 | , | | | | TR | |
| | | pyrite. | 106 | 640-65-0 | | | | | TR | |
| 7 | | @ 270 to 286 Siliceous tiff. Stringer and disseminated pyrite hiso of 35.3 to 3 | -7.107 | 80.0-82.0 | | | | | TR | |
| | | @ 445 1/2" quartz vein 35°CA. with | 108 | 83 5 - 82.5 | | | | | TR | |
| • | | pyrite cubus in wallrocks. | 109 | 870-890 | | | | | TR. | |
| 権 に | | @ 520 1/2" quark vein. 80°CA | | | | | | | | |
| | | (6) 570 to 580 K-spar alteration | | | | | | | | |
| | 97' | CARBONATE RUCK | | | | | | , | | |
| | | soft, grey aften course grained | | | | | | | | |
| | | carbonate rock. Rusty in places with | | • | | illian. | | | | |
| | | numerous curbonate veins and stringers | , | | | 2 | | | | |
| · · · · · · · · · · · · · · · · · · · | | in votions directions, cross cutting quark | | | | | | | | |
| | | coins are common. Sufficien are rare. | | | | | | 1 | | |

| 1 | OTAGE | DESCRIPTION | SAMPLE | LENGTH | | | 7 | NALYSE | ES Au | |
|------|--------|--|--------|--------------|-----|--------------|----|--------|---------|------|
| FROM | TO | | NUMBER | FT. | 8 | 8 | 8 | ુ ક | oz/t | 02/t |
| | | (1) 64.0 to 650; 80.2 to 890; Rusty Carbonale Zones. Quartz veins at | 110 | 104.0 -108.7 | | | | | TR | |
| | | 880,887,890. @ 70° to 90° CA. | 111 | 111.5-112.6 | | | | | TR | |
| | | @910 1" grante vein 80"CA. | 112 | 122-0-123-0 | | | | - | Ta | |
| 1. | | @ 945 1/2 quartz vein 45°CA. | 113 | 126.0 -1290 | | | | | TR | |
| 970 | - 1420 | CARBONATED TUFFS Y TUFF BRECCIAS | //4 | 1335-1365 | | | , | | T_R . | |
| | , | Gray to greenish gray to yollowish | · • | | | | | | | |
| | | generally soft. Tuff and tuff brewies | | | | | | | | |
| , | | displaying original bedding and | | | | | | | | |
| | | other textules 70° - 80° CA. Coarse | | | | | | | | |
| | | type breceius occur locally. | | | 1.0 | | | | | |
| | | @ 9701-1020 Carbonaled hely brecom | | | | | | | | |
| | | @ 1020 h 108 Fine precia and tyle with frogrents of siliceus Iron | • | | | | | | | , |
| | • | formation and bleky Py. | | | | | · | | | |
| | | @ 1070 to 108.0 rusty carbanute zone | | | | | į. | | | , |
| | | @ 1115 fine grante vem with | · | | | | | | | |
| | | coarse Agrife cubos. | | | | | | | | |
| | | @ 122.7 1" quartz vein 350CA. | | | | | | | | Ì |
| | | pyritic partings. | | | | | • | | ļ | |
| | | @ 126.0 to 129 0 Rusty carbonale rome | | | | | | , | | |
| | | with quarks and coarse by. At hp 3° op exide from formation- | | | | | | | | .] |
| | | @ 131.0 to 136.0 Tuff breccio with | | | | | | | | |
| | | NUMBERS Spagnish of silicens | | | | 2 4 1 2 1 | | | | |

HOLE 54-5-81

PAGE____S

| FOOT | | DESCRIPTION | SAMPLE | LENGTH | | | 7 | NALYSI | ES AL | |
|-------|-------|--------------------------------------|--------|------------|-------|---|----------|--------|-------|-----|
| FROM | TO | DESCRIPTION | NUMBER | FT. | * | 8 | <u>8</u> | 8 | oz/t | 02/ |
| | | @ 133 0 1.133 8 Large quarte vein | 115 | 142-0-1465 | | | | , | TR | |
| | | @ 136 6 to 1420 strongly carponated | 116 | 1470-1480 | | | | | TR | |
| | | luft a tuff precion. | 117 | 168-2-1705 | | | | | TR | |
| 142.0 | 191.0 | CARBONATE ROCK, | • | | | | | | | |
| | | Soft gray, medium to contra | | | | | | | | |
| | | grained carbinate nick with puchsit | ė į | | | | | | | |
| | | somes which are foliated 70°-80° CA | | | | | | | | |
| | | @ 1420 to 1443 Juchsitic with some | | | | | | | | |
| | | quarte | ' . | | | | | | | |
| | | @ 144.3 to 1636 Coarse grained | | | , | | | | | |
| | | carbonate | • | | | | | | | |
| | | @ 1572 3/4" quartz vein 80°CA. | | | | | | | | |
| | | @ 1597 1/2" quartz vein 35°CA. | | | | | | | | |
| | | @ 1030 to 1910 Fine to medium | | | | | | | · | |
| | | grunod carbonated tiffe. | | | | | | | · | |
| | | @ 1685 to 1690 Carbonated siliceous | | | | | | | | |
| | | Iran formation. | | | | | | | | |
| | | @ 169.5 to 1701 rusky carbonate zone | | , | | | | | | |
| | | (1) 1701 to 1710 Carbonate with | · | | * * * | | · | | | • |
| | | fuchisite | | | 9. | | | | | |
| | ! | W 1782 Course blebs of Py. | | | • | | | | | |
| | į | | | | | | | | | |
| | | | | | | | | | | |
| | j | | İ | | | | 70 e | | | |
| | j | | | 1 | | | | | Į | |

| FO FROM | OTAGE | DESCRIPTION | SAMPLE | LENGTH | | | | ANALYSI | 20 // | |
|---------|-------|--------------------------------------|----------|--------------|-------------|-----|--------------|---------|-------|-----|
| | TO | | NUMBER | FT. | 8 | 1 8 | 8 | 1 8 | S /h | 02/ |
| 1710 | 350.0 | CARBUNATED INTERMEDIATE METAVOL | CANICS | | | | | | 02/0 | 02/ |
| | | Grey, speckled, strongly curbonate | | | | | | | | |
| . , | | intermediate flows with sommer hy | <u> </u> | | | | | | | • |
| | | @ 231 to 232 bedded hifs ou cA | 118 | 313.5-314.2 | , | | | | TR | e |
| | | with 1/2" qualtz vein | 119 | 393-64-394-5 | | | | | TR | |
| | | @ 2752 Interflow chart 35°CA | | | | | | | | |
| | | @ 314.0 2" quartz vein 40°CA | . 1 | | | : | | | | |
| | ļ | @ 315.7 to 3163 rusty corbonale | | | | | | | | |
| | } | 20 re with 1/2" grath vein 40°CA | ļ | | | · | | | | |
| 3500 | 467.0 | | . • | | | | | | | |
| | * | | | | | | | | | |
| | | units. Bedding commonly 70-80°CA. | | | | | | | | |
| | | speckled carbonate atteration occurs | | | | , | | | | ·. |
| | | locally, not as well developed | | | | 1 | | | | |
| | | as in undesites above. | | | | | | | | |
| | } | @ 393.4 to 395.3 Quartz vein | | | | | | | | |
| | | 30°CA with sharp contacts. | | | | | | |] | |
| | | wallrock carbonale. 14" stringer | | | | | | | | |
| | j | of black tourmatine within vein | | | | | | | | |
| | | at 34.5: | | | | | , | | | |
| (a) 4 | 167.0 | END OF HOLE, | | | | | | | | |
| | | | | | | | | | | |
| | } | | | | | | | | | |
| | | | | | • | | | | | : |

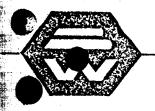
| SHMRE | NO. | PE | PTH | | ASSAYS |
|-----------|-----|--------------|--------------|---|------------|
| | | FZCM | TO | | Au Oz. To. |
| 27101 | | 200 | 3 , 3 | | TEACE |
| Ţ. | | 27 3 | 23/3 | | TIZ |
| 3 | | ′೭ಕ್ಸು | 35.0 | | TZ (* |
| 4 | | 51.0 | 52.3 | | 72 |
| S . | | 57.3 | 53.0 | | †Z |
| င် | | ر الاستان | ذ ک ہ | | TR |
| **** / | | 300 | 82.3 | | |
| 3 | | 98.2 | 95,2 | | TIZ |
| <u> </u> | | 87.3 | 9 3.0 | | TZ |
| 27110 | | 25.0 | 1.0g.7 × | | TR |
| 1 | | 111.5 | 112.6 | | TE |
| 2. | | 122.3 | 123.0 | | TE |
| 3 | | 126.0 | 129,0 | | TR |
| 4 | | 133.5 | 136.5 | | TZ |
| -5 | | 142.0 | 144.5 | | TZ |
| 6 | | 147.0 | 148.0 | | |
| 7 | | 168.2 | 170.5 | | TR |
| 3 | | 313.5 | 314.2 | • | TR |
| 9 | | 392.4 | 298.5 | • | TIZ TIZ |

SILDUE SAMPLES

DDH

54-5-81

| SAMPLE NO. | DE | ASSAYS | | | |
|------------|------|--------|----------------|----------|--|
| | FREM | TO | | 699 U | |
| | :7 | కెం | ; - | ł | |
| | ₹ ১ | ä o | 7 | | |
| | 40 | కర | 18 |) | |
| | 50 | රා | 5 | | |
| | 50 | 65 | 7 | | |



Bell-White analytical laboratories Ltd.

Certificate of Analysis

16716

DATE: May 22, 1981

SAMPLE(S) OF: Core(19)

RECEIVED: May 1981

SAMPLE(S) FROM: Lacana Mining Corporation

SH-5-81

| Sample No. | Oz. Gold | |
|------------|------------------|----------|
| 27101 | Trace Zo Z | |
| 2 | Trace 27 73 c | |
| 3 | Trace 35 - 36 | |
| 4 . | Trace 51-52 | |
| 5 × | Trace 57-58 | |
| 6 | Trace 64-65 | |
| 7 | Trace So-32 | |
| 8 | Trace 82 2-85.2 | |
| 9 | Trace 😂 🖹 | |
| 27110 | Trace 108-1087 | |
| 1 | Trace 11.5 1126 | , |
| 2 | Trace 12223 | |
| 3 | Trace 126 - 129 | |
| 4 | Trace (54.5-06) | 5 |
| 5 | Trace 142 - 144 | 3 |
| 6 | Trace 147 - 149 | |
| 7 | Trace 168 2-173. | سبر د |
| 8 | Trace 3/3/5-2/7 | . 7 |
| 9 | Trace 293 4- 37 | |



| H | OLE SH-6 81 | PAGE | 1_ | | DRILL HOLE LOG |
|---|---|--------------------------|---|--------|---|
| | ROPERTY FLAT ROCK SHAWA ISTRICT TLANMINS CCATION 20' Aball of Shaft Claim RIECTIVE Test contracto sense Disting object of the CMMENCED 10/4/81 CMPLETED 11/4/81 AT 6+1555 | ELEV BEARING F DIP | 5+508 12 180" 80° 247 0 FF 85° / 247 0 80° / 247 0 | | HOR.COMPONENT SOFT VER.COMPONENT 24.0FF TOTAL RECOVERY 100.70 OTHER SURVEYS ALASINGTIC DRILLED BY ALORGE 17D SCUTH FORLUPING LOGGED BY D. C. LWELLE BS. |
| 0 | DESCRIPTION | | SAMPLE | LENGTH | ANALYSES A |

•

| FOO' | OTAGE TO | DESCRIPTION | SAMPLE | LENGTH | 1 | | AN | NALYSES | S Au | |
|--|-------------|---|--------|-------------|-----|-----|---|---------|------|------|
| * NO.1 | 10 | | NUMBER | FT. | 8 | €: | ફ | F | oz/t | 02/1 |
| J | 70 | CASING | 062 | 20.0-230 | | | | | TR | |
| 7 | 33.8 | CARBUNATED TUFFS | 063 | 23 0 - 26.0 | 1 | | | ļ | TR | |
| | | hight grey, moderately suft, fine | .064 | 270-280 | | 1 . | | | TR | 1 |
| | | grained carbonated tyffs with much | 065 | 48.5-51.0 | | | | | TR. | |
| | | fine fracturing and stringer Pyrite. | | | | 1 | | | | |
| | | @ 20' to 26! - 27' to 28! stringer Py. | | | | 1 1 | | | | |
| 338 | | @ 28. to 33. Specks of Juchsite. | | | | | | | | |
| 33 | 760 | coarse grained carbonate Rocks sift, gray to clark gray, coarse grained | ! } | | | 1 | | | | |
| | | corbonate rocks. Nomerous sinus corbonate | | | | | ∮ | | | • |
| | | ucins. Minor amounts of fine pyrite. | | | | 1 | ļ , , , , , , , , , , , , , , , , , , , | | | |
| entropy of the second s | | @ 34.2, 34.9, 35.3 " South qualte veins | | | • 4 | 1 | 1 | | | |
| # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | (less 12") with sharp contacts 80-90°CA | | | | | () | | 1 | |
| (B. 1 | | @ 372 Sinus quartz vein 35°CA | | | | | 1 | | 1 | |
| | | 50. Ne disseminated Py. 10 454 1/2" quartz vein 40°CA. | | | | | · · | | 1 | · |
| in the second se | | | | | | | | | | |
| | | @ 470% 530 First carbonated lyfs | | | | | | | | |

HOLE (H.6.81

PAGE 63 2

| 1 | FOOTAGE | DECORTEMION | SAMPLE | LENGTH | ANALYSES A | | | | | |
|-----|------------|--|--------|-------------|----------------|---|---|-----|----------|------|
| | FROM TO | DESCRIPTION | NUMBER | FT. | 8 | 8 | 8 | 1 8 | 02/t | oz/t |
| | | @ 55.2 quartz pod. | 066 | 60.0-61.0 | | | | | TR | |
| | | @ 60.2 to 60.6 quartz carbonate | 067 | 695-705 | , | | | | TR | |
| Š., | | win 45°CA with furbitic margins | 068 | 72.3.733 | | | | | Te |] |
| | | (695 to 705 Fine grained | 069 | 99.5-100.5 | | | | | | |
| | | arbonate with much fuchsite Zone as 80° to CA. | 070 | 119.0.120.5 | | | | | TR TR | |
| 1 | | (a) 72.2 Specks of pubsite | 071 | 1404-1420 | | · | | | TR | |
| | | @ 724 Carbonute stringer 35°CA | 072 | 151.5-152.5 | | · | | | TR | |
| | | with speck of Cpy. | 073 | 156.5-157.5 | | | | | Ta | |
| | | @ 81.8 to 82.1 Rusty carbonate zone | 074 | 165.8-1670 | | | , | | TA. | |
| | | @ 87.5 & 87.4 Rush carbonate come | • | | | | | | | |
| | 960 1255 | SPECKLED CARBONATE ROCKS | | | | | | | | |
| | | unjum, sift gray carbonute | | | : | | | | | |
| | | rock predominants fine to medicin | | | | | | | | |
| | | grained with Humbs of carbonate | | | | - | | | | |
| | | giving a distinct spaked texture. | · | | • • • | • | | | | |
| | | (Similar to SH-5-81). Few veins. | | | | | | | | |
| | | @ 100.1 sturp quartz vein 1/2" vide | | | | | | | | |
| | •. | @ 1160 1/2" quarte vein 90°CA. | · | | | | | | | |
| | | @ 118.9, 1190, 34" qualte veins 80°CA. | | | | | | | | |
| | | | | | | | | | | |
| .] | 125 - 2470 | COARSE GRAINED CARBONATE RUCKS | | • | | | | | | |
| | | Suff, gray, course grained conbunate | 5 | | 2 (1) 1 (1) | | | | | |

| HOLE | PAGE 3 | DRILL HOLE LOG |
|-------------------------------|--------------------------|--|
| PROPERTY DISTRICT LOCATION | DEP ELEV BEARING | HOR.COMPONENT VER.COMPONENT TOTAL RECOVERY |
| OBJECTIVE | DIP LENGIH ETCH.AT | OTHER SURVEYS DRILLED BY |
| COMMENCED COMPLETED LAT | TRUE DIP | LOGGED BY |

| | | - | | • | • | | | | |
|--|--|--------|-------------|------|---|----|---------|------|------|
| FOOTAGE | DESCRIPTION | SAMPLE | LENGTH | | | Al | NALYSES | Ar | |
| | | NUMBER | FT. | 8 | € | ફ | ર | oz/t | oz/t |
| | @ 1360 1/2" quarte vein 7000A. @ 141 to 1412 Quarte-carbonate vein | 075 | 168-7-170-0 | | | | | TR | |
| | 45°CA with light green charito. | 076 | 172-0-173-4 | | | | | TR | |
| (素) (数: : (: : : : : : : : : : : : : : : : : | @ 1420 1 qualle voin 80°CA. | 677 | 1740-1750 | | | · | | TR | |
| Carlos de la Carlo | @ 1420 to 1430 Rusly conthonate zone | 078 | 177.7-1804 | | | | | TR | . |
| The state of the s | @ 1523 & 1524 Quartz vein 90°CA | 079 | 1830-1855 | | | | | TR | |
| (1) (2) (2) (2) (3) | @ 1535 1" Qualle vein 45° CA. | 080 | 191.7-1924 | 96 j | | | | TR. | |
| | broken cove. Dank green chlorite pathings | | | | | | · | | |
| | Some fine Py in chlorite. @ 166 2 to 167 quarte vein breccion | | | | | | | | |
| | 6) 168.7 ro 170 0 Quartz Conthonale zone. | | | | | | | | |
| | @ 1750 to 176.0 quarte-continute zone. much quarte veining | | | | | | | | |
| | @ 1784 to 1786 Qualtz vein with cashen | iti | | | | | | | |
| | 70°CA. \$ 182.3 to 183.0, 1830 to 1855, | | | | | *. | | | |
| | @ 186.6 to 1876 Quartz carbonule breccio | | | | | | | | |

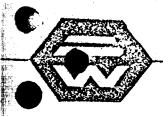
COZE SAMPLES

| SAMPLE NO. | DE | PTH. | Assays | | |
|------------|---------------|-----------------|---------------|--|--|
| | FREN | TO | AU OZ. TON | | |
| | | | | | |
| 27062 | 23.3 | D .a., o | TZACZ | | |
| Ş | 27.5 | | TZ. | | |
| ∻ | 37. a | 73.0 | | | |
| 5 / S | -3.5 | 51.0 | | | |
| 6 | 50.5 g | చేస్తు ు | TC. | | |
| | 69.0 | 15.5 | | | |
| 3 | 72.3 | 73.3 | 72 | | |
| 9 | 99.5 | 100.5 | 72 | | |
| 27070 | 119.0 | 120.5 | ح | | |
| | 43.6 | 42.0 | 72 | | |
| 2 | 151.5 | 152.5 | TZ | | |
| 3 | 156.5 | 157.5 | TR | | |
| 4 | 165.3 | 107.0 | TR | | |
| 5 | 158.7 | 170.0 | TIZ | | |
| 6 | 172.0 | 173.4 | TZ | | |
| 7 | 174.0 | 17510 | TIZ | | |
| 3 | :77.7 | 180,4 | 72 | | |
| 9 | ∫53. <i>o</i> | 185.5 | <u></u> | | |
| 27083 | 191.7 | 192.4 | TIZ | | |
| | | - | 1 | | |

QUOGE SAMPLES

PPH 54-6.8

| SAMPLE | 10. | D | EPTH | | ASSAYS | | |
|--------|-----|------------|------|---|---------|--|--|
| • | | FROM | TO | <i>, </i> | tu PPB | | |
| | | 20 | 30 | | ٥ | | |
| | | 3 3 | 4.5 | | | | |
| | | 40 | 60 | n de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co | 8 | | |
| | | 60 | 70 | | .19 | | |
| • | | 70 | 20 | | 18 | | |
| , | | 30 | 90 | | 14 | | |
| | | 90 | 100 | | 6 | | |



Bell-White analytical laboratories LTD.

HAILEYBURY, ONTARIO

Certificate of Analysis

B119-31

SAMPLE(S) OF: Sludge(12)

SAMPLE(S) FROM:

Lacana Mining Corporation

| | Footage | Gold ppb |
|---------|----------|----------|
| SH-5-91 | 17 - 30 | 14 |
| | 30 - 40 | 7 |
| • | 40 - 50 | 18 |
| • | 50 - 60 | 5 |
| | 60 - 65 | 7 |
| SH-6-81 | 20 - 30 | 10 |
| | 30 - 40 | 7 |
| | 40 - 60 | 8 |
| • | 60 - 70 | 19 |
| | 70 - 80 | 18 |
| | 80 - 90 | 14 |
| | 90 - 100 | 16 |





Bell-White analytical laboratories LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

Certificate of Analysis

NO. 14620

DATE:

SAMPLE(S) OF: Core(51)

RECEIVED: May 1981.

SAMPLE(S) FROM: Mr. R. Wells, Lacana Mining Corporation.

| Sample No. | Oz. Gold | Sample No. | Oz. Gold |
|------------------|----------|------------|----------|
| 27051 | Trace | 27075 | Trace |
| 2 | Trace | 6 | Trace |
| 3 . | Trace | 7 | Trace |
| 50-4 4 | Trace | SH-6 8 | Trace |
| 5 | Trace | | Trace |
| 6 | 0.002* | ¥27080 | Trace |
| 7 | Trace | | Trace |
| 8 | Trace | old caro 2 | Trace |
| 54-3 | Trace | 7 27151 | Trace |
| 27060 1 27060 | Trace | 2 | Trace |
| 2 | Trace | 3 | Trace |
| 3 . | Trace | 4 | Trace |
| 4 | Trace | 5 | Trace |
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| 6 | Trace | 511-3-81 6 | Trace |
| 5-1-6 7 | Trace | 8 | Trace |
| 8 | Trace | • | 0.002* |
| 9 | Trace | 27160 | Trace |
| 27070 | Trace | 1 | Trace |
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| 3 | Trace | V . | 0.005 |
| Δ. | Trace | | 0.003 |

Estimated.



Ministry of Natu

GEOPHYSICAL - GEOLOGI TECHNICAL DATA



42A06NE0383 83.3984 SHAW

900

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

| 10.要係数 3000・ | | CLEOPH AS | | |
|--|--------------|-------------------------|---|------------------|
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| Survey Com | pany | CANA A | P. 3 5 3 8 2 2 | |
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| revious Surv File No. | | Date | O1 ' 11 11 | |
| File No. | Type | Date | Claim Holder | |
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| • | | | | |
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| | | | *************************************** | TOTAL CLAIMS 1.3 |
| | | | | |

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

| 1 | Number of Stations 2397 | Number of Readings | 397 |
|-----------------|--|--|--|
| | Station interval 50 FEET & 100 FEET | | |
| | Profile scale | | |
| | Contour interval | | |
| | <u></u> | | en en en en en en en en en en en en en e |
| हम | Instrument SCINTREX MP-2 F | PROTON MAC | |
| MAGNETIC | Accuracy – Scale constant | • | |
| CN | Diurnal correction method CLOSED | | |
| MA | Base Station check-in interval (hours) | | |
| 4 | Base Station location and valueEVERY | | |
| | | | |
| | | | |
| <u>)</u> | Instrument | q. | |
| VET | Coil configuration | | |
| 4GA | Coil separation | the state of the s | |
| OM, | Accuracy | | |
| TR | Method: Fixed transmitter | | ☐ Parallel line |
| ELECTROMAGNETIC | Frequency | (specify V.L.F. station) | |
| Ш | Parameters measured | (specify V.L.F. station) | |
| | | | - |
| | Instrument | | |
| | Scale constant | • | |
| ITY | Corrections made | | |
| AV | | | |
| GRA | Base station value and location | | |
| | , | | |
| | Elevation accuracy | | |
| | • | | |
| | Instrument | | |
| l | Method | Frequency Domain | |
| | Parameters – On time | Frequency | |
| | | Range | |
| RESISTIVIT | – Delay time | / - | |
| IST | - Integration time | | |
| RES | Power | | |
| =-1 | Electrode array | • | |
| | Electrode spacing | | |
| 1 | | | |

INDUCED POLARIZATION

におりま を一番の一

から、日本の教育の人間は「野野」というと野野のことをいる。大学のは日本の教育、古代教育、古代教育、日本教育のなからも、野野のでもというというというというというというというというというというというという

OM 46 - PE 42 - C - 80

| THIS SUBMITTAL CONSISTED OF VARIOUS | | | | | | | | |
|---|----------|--|--|--|--|--|--|--|
| REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM | 1. | | | | | | | |
| THIS FILE. THE CULLED MATERIAL HAD BEEN | ••• | | | | | | | |
| PREVIOUSLY SUBMITTED UNDER THE FOLLOWING | | | | | | | | |
| RECORD SERIES (THE DOCUMENTS CAN BE VIEWED | | | | | | | | |
| IN THESE SERIES): | | | | | | | | |
| SHAW TWP. D.D.R. #29 -> 3 drill holes, numbered SH-1-81 | } | | | | | | | |
| Report of Work \$90-81 SH-2-B1, SH-4-B1 | | | | | | | | |
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