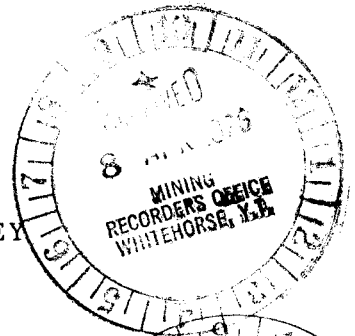
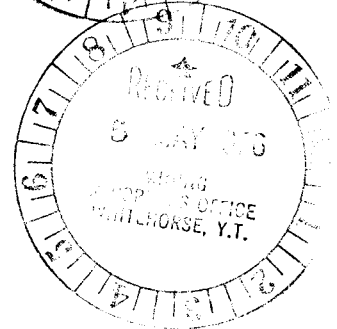


MAGNETOMETER SURVEY



of the



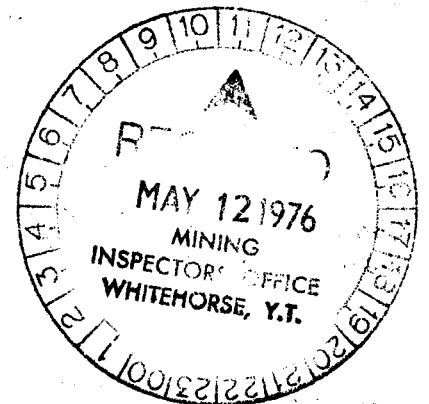
LOBO CLAIMS

Numbers 1 to 14 inclusive
Y98446 to Y98459 inclusive



Map Sheet 105L 9

Latitude $62^{\circ} - 35'$
Longitude $134^{\circ} - 12'$



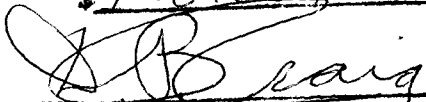
YUKON TERRITORY

Field Supervision: W.T. Salt
Program Supervision
and Interpretation: M. Cooper

Field Work: May 6th, 1975
Interpretation: September 1975

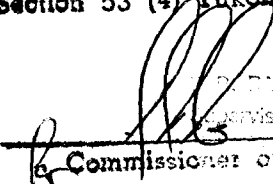
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$ 700.00



Resident Geologist or
Resident Mining Engineer

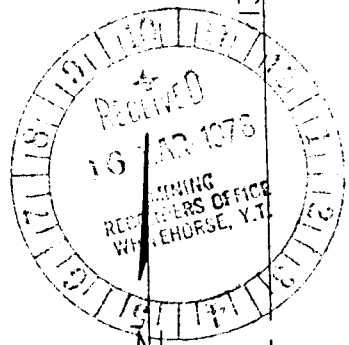
Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act.



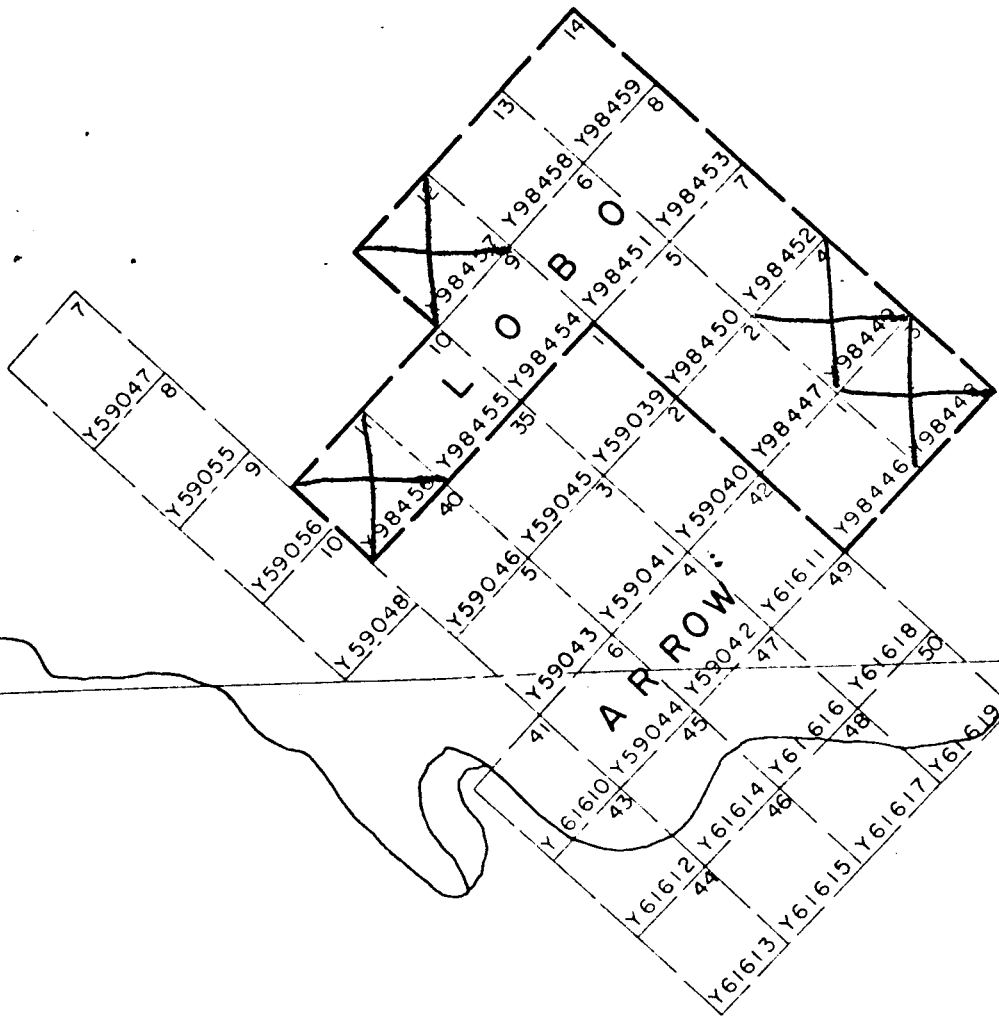
Supervising Mining Recorder
Commissioner of Yukon Territory

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Personnel On Project	5
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Vertical Intensity Map	Enclosure



134°10'



62°35'

LOBELL MINES
 CLAIM GROUPS
 LOBO # 1 - 14
 SHEET 105L9
 SCALE: 1 inch = 1 mile

☒ = Claims not to be grouped
 but allowed to expire

INTRODUCTION

On May 6th, 1975, a magnetometer survey consisting of 81 stations was conducted on the LOBO Claims. Mr. W. T. Salt of Calgary acted as party chief for the field work which consisted of staking, a magnetometer survey, and 6,000 feet of line cutting. Fourteen (14) claims were staked on the morning of May 6th by Mr. F. Strong and Mr. W. Salt, while Mr. S. Perriment (magnetometer operator) and Mr. J. Jack (helper) commenced with the magnetometer survey. Mr. Salt then cut 6,000 feet of survey line needed to complete the magnetometer survey. The remainder of the line was already cut and available for use from the previous gravity survey.

LOGISTICS

The ground was covered with 18" of wet snow on May 6th and it was decided that for the one day needed to complete the proposed survey, helicopter transportation would be used. Existing daylight hours dictated a 14 hour work day which was sufficient to complete the proposed program. The majority of the work was conducted on existing gravity lines with 3 lines having to be cut or extended. These were the extension of line 1 - from station 9 to 14, line 2 - station 1 to 17 and line 3 - station 9 to 18 (a total of 6,000 feet).

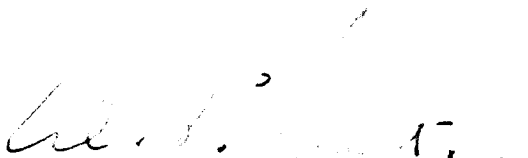
FIELD WORK & PROCEDURE

Magnetic stations having a 200 foot station to station interval were measured and marked along the survey lines by Mr. Perriment and Mr. Jack. Readings were taken with a McPhar 800 vertical component Fluxgate Magnetometer with ties made to a common base to allow for diurnal drift correction calculations. The work progressed rapidly as the cut lines were in good condition

and of ample width to facilitate the chaining and reading. All readings were taken to 0.10 of a scale division which equals 2 gammas on the magnetometer used.

COMPUTATION & MAPPING

The field records taken in time and instrument reading have been reduced to differential quantity expressed in gammas. Time and drift have been calculated and reduced to eliminate magnetic drift. Magnetic values have been expressed using an assumed datum of 500 gammas. The resulting corrected magnetics are plotted on a 1 inch = 400 feet map and contoured at a 10 gamma contour interval.



William T. Salt
Field Supervisor

INTERPRETATION

In August 1975, I was engaged to review the geophysical work done in 1971 and 1972 on the Arrow Claims. A core hole located on the Arrow Claims disclosed a quantity of pyrite and chalcopyrite mineralization located at 600' depth. A gravity anomaly associated with the mineralization shows a north-westerly trending density high. This high is closed to the southeast but is open ended and continuing to the northwest. It was the hope that the magnetometer survey would intersect this trend and see if magnetic detection could be of any value in defining the extent of the mineral zone as it may relate to the LOBO Claims.

The magnetic results are quite divergent from those expected. When the survey was proposed it was my opinion that some magnetic high values should be evident if the zone was large and continuous. The field results show the complete opposite to be true. At approximately the position where an intersection with the gravity trend was expected, there is a 120 gamma negative that correlates with the strike of the gravity anomaly. A review of the material in the Arrow core hole does not reveal any reason for a magnetic low to be associated with any geological trend extending from this area. In fact, my opinion is that there is a good possibility that high magnetic values should be associated with the mineralization. However, this does not rule out the existence of a pod of non-magnetic material (possibly sulphides) sheathed on either side with magnetic material thereby giving a central low or negative flanked by magnetic highs. The other explanation is that there is a band of vertical dipping rock having low magnetic properties layered between or flanked by bodies of highly magnetized rock, thus giving the negative magnetic trend.

CONCLUSIONS

The magnetic work has disclosed a completely reversed reaction to that which was expected. The negative magnetic anomaly may have a very valid source relating to mineralization or it may negate the whole theory of the gravity work pointing to the mineralized zone extending through this area. Redrilling the Arrow core hole at a location northwest of the first hole could help define the magnetic results. In the first hole the extent of the mineralization was not defined. The hole was bottomed in sulphides at 600 feet depth. At this point three feet of sulphides had been penetrated. How deep this mineralization extends can only be defined with another deeper hole. If this hole is located northwest of the present one toward the center of the gravity anomaly and an extended zone of mineralization is discovered, an analysis of the results can then be correlated with these magnetic findings. Until this hole is drilled and the results are analysed, the magnetic findings are at best, very ambiguous.

Michael Cooper

Michael Cooper
P.Eng. Alberta

OVERLAND EXPLORATION SERVICES LTD.
MAGNETIC SURVEY

Sheet No. 1

Inst. No. 171

Job Lobo

Date May 6/75

Scale Const. 6 20 Gauss

STN	Time	Reading	Diurnal Corr.	Corr. Reading	Magnetic Value	STN.	Time	Reading	Diurnal Corr.	Corr. Reading	Magnetic Value
(3-1) 1-9	8:03	490.0	0	490.0	500	1-10	9:45		+1.8	491.1	522
8	:07		+0.1	489.2	484	11	:49		+1.9	491.5	530
7	:11		+0.2	488.6	472	12	:52		+1.9	491.9	538
6	:14		+0.2	488.4	488	13	:57		+1.9	492.6	552
5	:18		+0.3	490.4	503	14	10:02		+2.0	493.2	564
4	:23		+0.4	491.1	522	15	:07		+2.0	492.8	576
3	:27		+0.4	491.6	526	16	:11		+2.0	493.7	574
2	:30		+0.5	492.4	545	(2-1) 17	:16		+2.1	493.3	566
(4-1) 1-1	:35		+0.6	493.0	560	2-2	:20		+2.1	492.4	548
4-2	:38		+0.6	493.5	570	3	:24		+2.1	491.6	532
3	:42		+0.7	494.0	580	4	:30		+2.2	491.0	520
4	:45		+0.7	494.8	596	5	:33		+2.2	490.4	508
5	:49		+0.8	495.4	608	6	:37		+2.2	499.8	496
6	:52		+0.9	494.6	592	7	:41		+2.3	499.2	494
7	:56		+0.9	492.9	578	8	:45		+2.3	498.7	494
8	:59		+1.0	493.5	570	9	:50		+2.3	498.1	462
9	9:03		+1.1	493.7	574	10	:54		+2.4	487.6	452
10	:05		+1.2	493.6	572	11	:59		+2.4	491.9	478
11	:09		+1.3	494.2	584	12	11:05		+2.4	491.7	484
12	:13		+1.3	494.4	588	13	:10		+2.5	487.5	450
13	:17		+1.4	494.4	588	14	:13		+2.5	488.1	462
14	:20		+1.4	493.8	576	15	:17		+2.5	488.7	474
3-1-9	9:40	488.2	+1.8	490.0	500	16	:21		+2.6	499.5	490
						17	:26		+2.6	490.3	506
						18	:30	489.1	+2.6	490.0	500

OVERLAND EXPLORATION SERVICES LTD.
MAGNETIC SURVEY

Sheet No. 2

Inst. No. 171

Job LOBO

Date May 6/75

Scale Const. 20 Gauss

STN	Time	Reading	Diurnal Corr.	Corr. Reading	Magnetic Value	STN.	Time	Reading	Diurnal Corr.	Corr. Reading	Magnetic Value
Base 1-9	12:02	487.1	+2.9	490.0	500	Base 1-9	2:30	486.9	+3.1	490.0	500
3-2	12:07		+2.9	489.6	492	3-19	2:35		+3.1	491.0	520
-3	1:12		+2.9	489.2	484	20	:39		+3.2	491.6	532
-4	1:18		+2.9	489.0	480	21	:44		+3.2	492.2	544
-5	1:21		+2.9	489.6	492	22	:50		+3.3	492.4	548
-6	1:25		+2.9	489.6	508	23	:53		+3.3	492.1	542
-7	1:29		+2.9	489.4	500	24	:58		+3.4	491.5	530
8	1:34		+2.9	489.8	516	25	3:03		+3.4	490.9	518
9	1:39		+2.9	491.1	522	26	:07		+3.5	491.4	528
10	1:45		+2.9	491.0	526	27	1:12		+3.5	491.8	536
11	1:48		+2.9	490.9	518	28	1:16		+3.6	491.8	536
12	1:53		+3.0	491.9	518	29	1:21		+3.6	491.2	524
13	1:58		+3.0	491.2	524	30	1:26		+3.7	490.4	508
14	1:42		+3.0	491.5	530	31	:31		+3.7	490.6	492
15	1:06		+3.0	491.9	538	32	1:35		+3.8	489.2	484
16	1:11		+3.0	492.7	554	33	1:40		+3.8	489.5	470
17	1:15		+3.0	492.6	572	34	1:45		+3.9	488.1	462
3-18	1:20		+3.0	494.4	598	35	1:49		+3.9	487.3	446
Base 1-9	1:45	487.0	+3.0	490.0	500	3-26	:55		+4.0	486.6	432
						Base 1-9	4:30	485.8	+4.2	490.0	500



RESIDUAL GRAVITY ANOMOLY



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FOR
LOBELLE MINES
LOBO CLAIMS
MAGNETIC MAP
VERTICAL COMPONENT

Scale 1" = 400' C. 20 SAMMAS