93M/4E

REPORT OF GEOPHYSICAL SURVEY (Electromagnetic Inductive Method)

conducted on claims of

#### STRIKE AND RIDGE GROUPS

consisting of Strike No-s 1 to 12 inclusive, Strike No-s 14 to 41 inclusive, Mineral Lease No 2 (Golden Wonder, Lot 3322), Mineral Lease No. 3 (Huckleberry, Lot 4272), and Mineral Lease No. 4 (Mandon, Lot 4273), all held in the name of the owner, G. L. Oates, F. M. C. 9794, issued March 15, 1960, Vancouver, BC

and located

6 miles south of Hazelton, 55 deg. 127 deg. S W <u>CASSIAR LAND DISTRICT</u> <u>OMINECA MINING DIVISION</u> BRITISH COLUMBIA

Work completed during periods:

November 24, - December 8, 1959 December 30, - February 4, 1960 April 25, - May 11, 1960

(The accompanying maps H-1 and H-2 should be studied in conjunction with this report when planning exploration of the anomalies discussed herein)

> Field work by G. L. Oates Work done for G. L. Oates Report submitted by - G. L. Oates 545 Rosemead Ave Kelowna, B. C.

October 18, 1960

Note: Re training and qualifications of G.L. Oates please refer to letters to Chief Gold Commissioner, Victoria, B.C.:

> by - Dr. Joseph T. Mandy, ME dated November 23, 1951 M. W. Jasper, ME dated October 28, 1951 C. V. Brennan, ME dated November 23, 1951 G. L. Oates, dated July 5, 1951.

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References :

Geological Survey of Canada Memoir 223, 1954 by E. D. Kindle pp 8, 16, 17 & 19
B. C. Minister of Mines Annual Report 1917, Golden Wonder Group by John D. Galloway, Resident Engineer, pp 107

Geophysical Exploration by C. A. Heiland, Sc. D. Professor of geophysics, Colorado School of Mines on 'Vertical Loop Methods' 1940, pp 806

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### INTRODUCTION

The claims of the Strike Group owned by G. L. Oates, Kelowna, E. C. are situated east of and in the valley of the Skeena River about 4 miles south of South Hazelton, E. C. They lie immediately east of the Prince Rupert-Prince George highway from which a branch  $I_2^{\frac{1}{2}}$  mile truck-road passes through the claims to Comeau's ranch. The property consists of 42 claims and three mineral leases embracing an area of approximately 2100 acres.It lies I to 2 miles east of the Skeena River and from 300 to 500 feet above it, being I300 to I500 feet above sea level - a small acreage on the east boundary is at about 2000 feet elevation. The Rocher Deboule Range of Mountains rising to elevations of over 8000 feet lie immediately east of the claims. The Skeena River and tributary creeks heading in the Rocher Deboule Mountains forms the principal drainage of the area. South Hazelton village is served by the Frince Rupert line of the Canadian National Railway and by highway, and is I77 miles by rail and highway from Frince Rupert. Annual rainfall in the vicinity is about 25 inches.

The Skeena River valley in this area is some 4 to 5 miles wide and in general rock outcrops are scarce. E. D. Kindle of the Geological Survey of Canada has over the past years conducted extensive geological study of the area, and among a number of observations has noted that in the vicinity of the strike claims and the old Golden Womder prospect (Ref. Geblogical Survey of Page 19 Canada by E. D. Kindle, Memoir 223, 1954) : 'The course of the major northerly trending faults in the Rocher Deboule Mountains is also recommended for prospecting, keeping in mind that although evidence of mineralization may be lacking along the major faults themselves, deposits may occur along smaller related branch fissures.' Also see in the same Memoir 223, page 17 - 'A small lake on the southeast side of the Golden Wonder property is bordered on its northwest and southeast sides by steeply-walled cliffs that extend

# INTRODUCTION - cont'd

for hundreds of feet along straight but slightly divergent courses. It is believed that these cliff walls mark lines of faulting. Minor faults that strike east across the ridge on the west side of the lake are mineral -ized with a little gold, copper and silver. '

The structural features suggested to occur in the vicinity of the Strike claims by Dr. Kindle were sufficiently interesting to the writer to decide to investigate the possibilities fo the area. Since the ground is probably 90-95 percent overburdened geophysical prospecting appeared to be the most practical first step in the investigation.

### GEOLOGY

The Strike claims lie mostly in the Skeena River valley at elevations of IOOO to I5OO feet. Much of the area is drift covered and in this report the description of geology is taken from the B C Minister of Mines Annual Report (1917) and Geological Survey of Canada Memoir 223 (Revised' Edition) 1954 by E. D. Kindle.

As the Strike claims are in the immediate vicinity of the Golden Wonder property the following is of interest ;( B C Minister of Mines Annual Report - 1917 - page 107 - Golden Wonder Group by John D. Galloway, Resident Engineer),

' The geological formation in this section consists of a sedimentary horizon of the Hazelton formation, the rocks exposed being generally quartzitic or argeillaceous. There are two or three veins on the property with a general strike of S 65 W and standing nearly vertical. These veins are similar in appearance to the typical Rocher Deboule veins and are mineralized in much the same way ; they differ from the Rocher Deboule veins, however, in that they occur in sedimentary rock and not in granodiorite. '

' The gangue-filling is partly the ordinaty wall-rock, but in places there is a considerable development of quartz and also a little siderite and hornblende. Pyrrhotite, arsenopyrite, pyrite and chalcopyrite are the metallic minerals present. The order of deposition of the various minerals would appear to have been, first, siderite, quartz, and hornblende, then pyrrhotite a little later, and finally arsenopyrite, pyrite, and chalcopyrite, together with a little more quartz last of all. Hornblende in radiating and needleshaped crystals is fairly plentiful in the gangue. This occurence of hornblende is similar to the hornblende in the gangue of the Rocher Deboule veins, but occurs in much smaller amount. The usual oxidation

### GEOLOGY (cont'd)

'on the surface is apparent, but does not extend below a foot or two:

Reference : Geological Survey of Canada, Memoir 223 (Revised Edition)

1954 by E. D. Kindle. See page 8 :

Summary Statement \*

'A thick series of Mesozoic sedimentary and volcanic rocks known as the Hazelton Group form the bulk of the mountains and uplands in the Hazelton and Smithers areas. These rocks are invaded by numerous granodiorite stocks that may be related to the batholithic rocks of the coast Mountains that lie some 25 to 35 miles westerly.'

\* Hazelton Group \*

Mesozoic rocks of the Hazelton group occupy about 90 percent of the Hazelton and Smithers areas. The group consists of an apparently conformable succession of interbedded sedimentary and volcanic rocks ranging in age from pre-Middle Jurassic to Lower Cretaceous, and includes coal-bearing members hitherto mapped as the Skenna formation or series of Lower Cretaceous age. On Hudson Bay Mountain, a fivefold division of the Hazelton Group has been made, namely : a Middle Jurassic or older volcanic division ; a Middle Jurassic marine sedimentary division; a Middle or Upper Jurassic volcanic division; an Upper Jurassic and Lower Cretaceous marine and continental sedimentary division; and a Lower Cretaceous or Younger volcanic division (Armstrong, 1944). On Rocher Deboule Mountain the first two of these divisions are either missing or have not been recognized, but the three younger divisions are well developed and have a combined thickness of possibly 16,5000 feet (Armstrong and Kindle, 1953)

See page 16 - ' Structure of Vein-bearing Fissures '

' Throughout the area, the various faults and shear zones along

"which the veins formed represent differential movement ranging from a few inches to 50 feet or more. The latest movements along the larger vein fissures were generally in a horizontal direction, as recorded by slickensides and striations on the vein walls. In some cases, as in the Rocher Deboule and Silver Standard Mines, vein formation was interupted by renewed movement along the fault fissures, and the ore deposits are offsets for a few feet by post-mineral faults. '

A major fault that trends northerly across Rocher Deboule Mountains passes along the upper valley of Brian Boru Creek, crosses Juniper Creek, and from there extends across the northwest shoulder of the mountains a quarter mile west of the Rocher Deboule mine. For convenience in writing this fault is named the Brian Boru fault. There is probably a vertical displacement, east side up, of more than IOOO feet along this fault. Its continuation north of the Rocher Deboule mountains is concealed by drift, but it probably extends up the east side of Skeena River Valley east of Hazelton. Most of the vein fissures in the Rocher Deboule Mountains are thought to have formed at the same time as the Brian Boru fault and others of the same system. Vein fissures at the Silver Standard mine and those of the National Explorations property half a mile southwest of the Silver Standard lie near the projected line of strike of the Brian Boru fault, and may be related subsidiary faults. If so, all ground adjacent to the Brian Boru fault would a appear to be worth careful prospecting.

• A small lake on the southeast side of the Golden Wonder property is bordered on its northwest and southeast sides by steep-walled cliffs that extend for hundreds of feet along straight but slightly divergent courses. It is believed that these cliff walls mark lines of faulting.

### GEOLOGY (cont'd)

' Minor faults that strike east across the ridge on the west side of the lake are mineralized with a little gold, copper, and silver. '

See page 19 - ' Prospecting Possibilities '

'Vein deposits in the Hazelton area occur in the volcanic and sedimentary rocks of the Hazelton group or in the Bulkley intrusions and associated dykes, so that all these rocks constitute favourable prospecting ground. In three different places veins of economic importance were discovered on anticlinal folds in the sedimentary rocks suggesting that such structures should be carefully prospected. The course of the major northerly trending faults in the Rocher Deboule Mountains is also recommended for close prospecting, keeping in mind that although evidence of mineralization may be lacking along the major faults themselves, deposits may occur along smaller related branch fissures. Large areas of relatively unexplored ground lie in the mountains north of Hazelton. '

Probably ninety-five percent of the area covered by the geophysical survey was drift-covered, so that no geological information additional to the above excerpts was observed.

## METHOD USED -(ELECTROMAGNETIC INDUCTIVE) Using Vertical Loop

The electromagnetic inductive is a direct method and is applied principally in the search for sulphide ore bodies. It depends for its operation upon the effects produced by the flow of an electric current. By studying these effects it is possible to predict the general axis of current flow. The greater flow of current is in the path of greatest effective conductivity; and since the effective conductivity of a minerclied acre alized zone is different from that of its surrounding envelope (usually much greater), it is possible to locate such a mineralized zone by the distribution of current. Due consideration is given to geologic structure, type of mineralization and other factors.

The inductive method is so named because the current flowing in the conductive body is obtained by electromagnetic induction; without making direct contact with the conductive zone or orebody. The current flowing in a transmitting coil or antenna will create an electromagnet -ic field around the coil. This field will have the same frequency as the primary current and will radiate or travel outward from the coil in closed magnetic or flux circuits. These circuits are perpendicular to the plane of the coil and extend or travel outwards with uniform velocity in all directions. The primary current and the resulting electro -magnetic field radiating from the antenna is obtained by the use of a transmitting or 'energizing' set operating from 30 to 50 kilocycles frequency. A IO watt vacuum tube is used in the circuit and the power supply is obtained from portable type dry cell batteries - B supply of 450 volts and A supply of 9 volts. The transmitting antenna is triangular, seven feet to the side and hinged at the corners for folding.

When the electromagnetic field radiating from the antenna of the energizing equipment flows through or ' cuts ' a mineralized body a

### METHOD USED - (ELECTROMAGNETIC INDUCTIVE) cont'd Using vertical Loop

current is induced in this body. The current flowing in the mineralized body sets up an electromagnetic field having the same frequency as the current. This electromagnetic field will surround the body and travel outward from it in concentric circles or envelopes. The detection of this field is accomplished by the use of direction-finding equipment consisting of a direction-finding coil mounted on a tripod and electrically connected to a vacuum-tube set containing a detector and multi-stage amplifying system. The multi-stage amplifying system is employed to produce a signal of desired intensity through a set of head-phones. A directionfinding coil so pivotted that its axis of revolution is parallel to the conductor - i.e., axis of revolution of the coil and the conductor have the same "strike" - will give the maximum signal when the coil is perpendicular to a tangent to the circle of wave-front at that point. A minimum signal will be obtained when the coil is parallel to the tangent. By the use of the direction coil the relative distribution of current may be determined and the position, depth and approximate width of the mineralized body may be plotted. The dip of the field resulting from a combination of the primary (electromagnetic field surrounding the transmitting antenna) and the secondary ( electromagnetic field surrounding the orebody) C 27 as determined by the use of the direction-finding coil is explained by C. A. Heiland, Sc.D., Professor of Physics, Colorado School of Mines :

( Reference : Geopyhsical Exploration by C. A. Heiland, Sc.D. Professor of Geophysics, Colorado School of Mines, page 806, 1940) <u>Vertical Loop Methods</u> ' In application, a vertical transmitting loop is set up with its plane approximately parallel with, and (if possible) directly above a suspected conductivity zone. A certain distance away a receiving coil is placed with its axis of rotation horizontal,

## METHOD USED / (ELECTROMAGNETIC INDUCTIVE) cont'd Using Vertical Loop

' If the magnetic field surrounding a subsurface current concentration alone were present, its direction at any point A on a



Fig. 10-124. Construction of index curve.

profile (see Fig. IO-I24) would be given by the vector T, and would coincide with the direction of the plane of the detection coil in the minimum position. If normals were drawn to this position at all

## <u>METHOD USED -(ELECTROMAGNETIC INDUCTIVE</u>) cont'd Using Vertical Loop

' points, they would intersect in the subsurface conductor. However, the horizontal field Ho of the transmission loop combines with the subsurface field T to form the resultant field vector R, whose direction is that of the detection coil in the minimum position. Therefore, the normals to the direction of the coil will intersect the vertical at progressively deeper points CC' as the distance of points A from the point O increases. The conductor may nevertheless be located by the procedure of drawing an index curve : At any point (A) the normal to the vector R or to the plane of the detection coil is drawn to the intersection with the vertical at the point C. Through C a horizontal line is drawn to the intersection with the vertical from A to B. B is then a point on the index curve. Other points are similarly located. The apex of the index curve is the conductor. '

The equipment used to survey the Strike claims is similar to the transmitter with vertical loop, &direction-finding equipment in the above description. The transmitter was operated on a frequency of 55 kilocycles. The lines cut for the survey consisted of three base-lines (bast-west) with north-south cross lines spaced at 125 foot intervals except for a small area having cross lines 100 feet apart. Reading stations were marked at 100 foot intervals on the lines, which were surveyed by chain and Brunton compass. The transmitter placements or 'set-ups' were usually 250 to 300 feet apart on the lines and from 10 to 15 were made with the directionreadings finding equipment for each 'set-up' of the transmitter.

#### RESULTS AND RECOMMENDATIONS

Seventy percent of the area surveyed gave negative or nearly negative results. Map #H-2 shows the areas surveyed and the anomalies discovered. Ground was surveyed both north and south of the fault shown on this map, with negative results on the south side.

The anomalies A, B, C, D, E and F found north of the fault were found to have fair strength but continuity was not good in any of them. However, it is the intention of the owner to continue geophysical surveying this coming winter and spring, northwest of the area containing anomalies A, B, C, D, E, and F. It would appear that Kindle, E. D.(G.S.C Memoir 223, revised edition, 1954) has given an accurate procedure for pages 17 and 19 prospecting the area. The above named anomalies seem likely to be branch fissures to the fault southeast of them, and definitely contain interesting mineralization in and close to the IOO foot Golden Wonder shaft.

No surface stripping will be done until further geophysical surveying is continued north and west of the section containing the anomalies A, B, C, D, E and F in the hope that anomalies having greater promise may be found adjacent and north of the fault. The central sections of anomalies D and E and the southern section of anomaly F between points II3 and II6 warrant preliminary stripping which will be done next season after the ground to the northwest has been surveyed.

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105 4 GEOPHYSKAL FIELD NOTES Calden Wender CONTRACT Nº Z7 SOUTH 1"=100 VERT. LOOP LOCATION 125' HOR. 1.0  $\Delta = loop location$ <math display="block"> = = = = = o o pAMP Jan. 18, 1960 DATE T = DIP IN DEGREES \$ M. BY 455 255 155 55 8855 ۲ il <u>zzS</u> 7  ${\boldsymbol{x}}$ 40 >7° 60 24 20\* 41.95 V15 BBAS 245 X95 36

6:14 GEOPHYSICAL FIELD NOTES Colden Wonder CONTRACT NO 1"= 100' HERT. BB 8+50 SOUTH. 125' HOR. LOOP LOCATION 1.0 Jan, 18 1960 Like & Mite J. T. AMR A = loop location -X = ZERO DIP DATE V60 = DR IN DEGREES BY 886S CC65 AA65 265 0065 >12° 7 7 180 BBBS 8 3ºR H<sup>o</sup> 100 88.05 >10° .10 4105 DAIOS. 105 CGIOS HP HP 3

1. W GEODHYSICAL FIELD NOTES Jalden Monder CONTRACT Nº \_\_\_ LOOP LOCATION \_\_\_\_ BB5+50 SOUTH 1 = 100 YERT.  $\Delta = leop location$  $<math display="block"> \star = zero D/P$ 1.0 AMP Jan, 19 1960 Li.L. & Att DATE 8Y ¥6. - = DIR IN DEGREES.



	GEOPHIVSICAL FIELD NO	VTES City
CONTRACT NO _	holden Wander	N
LOOP LOCATION -	BB2+50 SOUTH	1"=100' VERT. 125' HAR.
AMP	1.0	A last lacata
DATE	Jan. 19 1960	4 = 2600 MP
87	110, 9 <del>44, 8</del> . J. H.	V = DIR IN DEGREES

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SEDRHYSICAL FIELD NOTES CONTRACT Nº \_ Jullen Wonder LOOP LOCATION \_\_\_\_ DD 7 SOUTH 1.0 AMP Jan. 19, 1960 A. A. <del>M.B</del>. J. H. DATE

8Y

1"= 100' VERT. 125' HOK. Δ = lesp location → = ZERO DIP V = DIP IN DEGREES



1:01 CLOMIXSKAL FIELD NOTES CONTRACT Nº \_ Solten Weater 1'=100' VERT. LOOP LALATION FF 8+50 SAUTH. 125' HOR. 1.0 AMD A = loop bration + = ZERO DIP Jan. 19 1960 DATE , **4** <u>14</u> <del>2</del> 4. 7. TO = DIP IN DEGREES BY 6415 4165 ELS FF65 235



GEOPHYSICAL FIELD NOTES Julden Wonder CONTRACTNO I'm 100 VERT LOOP LOCATION \_\_\_\_ DD 1 SOUTH. 125' HOR. 10 AND A = leop better \* = 2520 DIP Jan. 19, 1960 410. 8 # 2. 4.11 DATE CO = DIP IN DEGREES ðУ EE USE DO LINE )} 120 0015 50 2 +50 12025 EEZS FF25 プチ

							7£	1P	NTRACT NO	
· • • ····				140	×				^	
L		BRIS	5 50	4	2° 2	8825	Jan. 1. G. J. B.	1.0	<b>islan</b> DD 4	GEOPHYSIC
		CK45	6	4	3	CC25	9 1960 9 <del>99</del> 9, 74		Vender) 5	AL FIEL
	>5°	DOLS	5	2045	3	2025	2 By	-	<u>.</u>	D NOTES
	750	EE 65	5	4	3	EE25	$\begin{array}{c} \Box = \label{eq:alpha} \\ + = \label{eq:alpha} \\ \hline + = eq:al$		Ń	- 1
		FF65	×	*	31	FF 25	TOLALAS ERD DIP DIN DEGRE		<u>-</u> /2	
1							w 85		50' VERT. 5' HBR:	

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COPY

i n GEOPHYSKAL FIELD NOTES CONTRACT Nº Holden Wonder |"= 100' VERT. 125 HOR. FF5+50 SOUTH. LOOP LOCATION 1.0 ANP Jan. 20, 1960 610. 1960 J. 71. DATE DY EEIS 6635 0025 EF15 KH35 >10° 2° \_\_\_\_\_\_ FFSS 6678 -60 75 FFZ 6575

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	SEUPAKSICAL FAELO NOT	<u>x=</u> 1
CONTRACT NO_	Julden Monder	
LOOP LOCATION _	FF 22+50 SOUTH	1 - 100' VERT, 125' HOR
1MD	<u> </u>	
DATE	Jan 20, 1960	A = lasp location
<i>I</i> Y	110. 4 <del>47.8</del> . J. H.	-X = Z IN IN DEGREES

- - -



GEOPAKSICAL FIELD NOTES

CONTRACT No Julden Wonder

1.0 AMD Jan. 21 1960 Lille & <del>M.B</del>. J. T. DATE BY

A - loop beation + - 2 ERC DIP V = BIP IN DEGRESS

 $i \leq j$ 

1=100' WERT.

125' HOR.



GEOPHY SILAL FIELD NOTES

CONTRACT Nº Julian Monder

HA4 JOUTH LOOP LOCATION

1.0 IMP Jan, 21 1960 J. B. & A. B. J. D. & A. B. J. H. DATE BY

1 - 100 VERT. 125' HOR.

A = loop location + = ==== or VGO = DIP IN DEGREGS



. ' GEOFHITSKAL FRELD NOTES Julden Mender CONTRACT NO |"=100" WERT. HH 7 SOUTH 125' HOR. LOOP LOCATION 60 AMP A = loop beation ★ = ZERO OVP Jan. 22 1960 198. 6 and DATE The DIR IN DEGREES **ý <u>Ata I</u>** 7:71 كالتحر 1255 Nos HHES 6655 40 X 30  $\boldsymbol{\varkappa}$ #11.75  $\mathbf{V}$ ΨO  $Z^{\circ}$ 1745 1999 05 PARS 645

to bij GLOPHISICAL FIELD NOTES helden Monder CONTRACT Nº 115+50 SOUTH 1" = 100' KERT. LOOP LOCATION \_ 125' HOR . 1.0 AND.  $\frac{\int \partial m_{1} 22 \frac{1960}{4}}{R} = \frac{\int -\log \log \log 10}{R} + \frac{1960}{22R0} = \frac{1960}{NP}$ UNTE Vo = DIP IN DEGREES € <del>\$7.8</del>. 7. H. R ÔÝ 1135 235 KK35 1735 4435 26 1D<sup>6</sup> 10 2 Ĵ, 175 A A 175 205

GEOPHNSICAL FIELD NOTES

CONTRACT NO LISITON Wander

LOOP LOCATION \_ 1/2+50 SOUTH

1.0 AMP. Jan. 22, 1960 Ill. 1 <del>M. B.</del> J. H. DATE ðУ

1=100' VERT. 125' HOR.

1. 19

A = losp location \* = 2 ERO DIP

To = DIR IN DEGREES



GEOPHYSICAL FIELD NOTES Geden Wanden CONTRACT NO LLI SOUTH LOOP LOCATION 1"= 100' VERT. 125' HOR. 1.0 AMP.  $\Delta = loop location$ \* = zeeo oirJan. 22 1960 DATE To = DIP IN DEGREES ÔΥ KK BASE LL LINE MM NN <u>LL15</u> 20 2 MAS AG KA25 2435 100 -7120 5

15 2 Mil BEOPHYSICAL FIELD NOTES contract no Salden Wonder 1 = 100 VERT. LL 4 SOUTH LOOP LOCATION -125' HOR.  $\Delta = loop beation$ <math display="block"> = = = = = 0 IP = = = = IP IN DEGREES1.0 AMP Jan. 24, 1960 \$ #### \$ ##. DATE BY 1/25 KK25 1/25 M125 125 22° 3 3 4150 <u>145</u> 70 5.... 20

165 165 165 1065 1065 13180 73100 750 7750 13180 52100 750 5750 52

CONTRACT LOOP LOC MAP DATE BY	T Nº	GEOPANS Jalkon LL7 5 Janu 24 LARS.	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 NOT	$\Delta = 1$	1"= box bacar LERO DIP NP IN DEC	loopy 100'VERT. 125' HOR.
		1195 715°	4755 <del>X</del>	4.55 15-0	1555 Ni50	11155	
	745		٤	6	A 10°	Ni 10°	
	¥ 12*	Z	z	41.75	7	7 50 K	
		210	8	8	8	Xe	
		<u> 75</u>	<u>x95</u>	<u> 195</u>	<u></u>	MN95	
							(53

Arky CERPHYSICAL FIELD NOTES Holden Wender CONTRACT Nº -LOOP LOCATION HOCKLEBERRY CINM. L4372 To WEST OF #2 SHAFT 1"=100 HARAX. AMP 1.0 A = loop location . + = 2000 PIP Jan. 26, 1960 4.10. 1 J. 7. DATE BY The DIR IN DEGREES. Parties of roading stations are approx. (on give line) Bernnerinne Seop Set-up TZ2 A 254457

GEOPHYSICAL FIELD NOTES Golden Monder CONTRACT Nº \_\_\_\_ LOOP LOCATION HUCKLEBERRY CLAIM 14372 25' EAST OF #2 SHAFT. 1 =100 HARROX,  $\square$ AMP. Jan. 26 1960 I.S. & J.H. A = loop location DATE X = ZERO DIP TE = DIR IN DEGREES BY Desition of seading stations are approx. (no give diner) Reconnainsance Loop Set-up \$ 70 <del>\$ 180</del> ᠯᠵ 40 420 ±2.544 20 ħ1. 120 \*17100 4100 55

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GEORNYSICAL FIELD NOTES

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current no Golden Wonder

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LOOP LOCATION HICKLEBERRY CLAIM 14372 225 (APPR.) WEST OF #2 SHAFT. 1.0 AMP ... DATE 04

1=100 approx.

The Dip IN DEGREES



15:01 SEOPHYSICAL FIELD NOTES CONTRACT Nº \_\_\_\_\_ Holden Wander LOOP LOCATION at print #3 on Unomaly B' 1 - 100 approf. 1.0 AMP. DATE BY Position of building stations are Beconnainance Lasp Set-up To Gelden Kunder 100 STAFT. SHAFT. A PT. 3 3 X 12° K 50

1:00 CEOPHNISKAL FIELD NOTES CONTRACT Nº Haldon Monder LOOD LOCATION At 100 FT Kolden Mander 1=100' 1.0 ANP  $\begin{array}{cccc} 1 & \Delta & -loop location \\ 1 & \Delta & + = z = z = R O & D \\ 1 & \Delta & + = z = R O & D D \end{array}$ DATE 40. p. f. T. = DIP IN DEGREES 84 \_ Position of realing stations are approx. (no shid lines) Reconneissance Leap Set-up 1/200 holden Minder 100'SAAAT ¥120 B 84 22 SHAFT 160 36° × nº 30° K كمحاد
CONTRACT NO Collen Monder LOOP LOCATION At point # 110 Grammaly A' 1 = 100' epprof. AMP.  $\Delta = loop location$ + = zero DirJan. 28, 1960 I.S.O. 4 J. H. DATE TO = DIP IN DEGREES BY Position of boarding atticos are Remnainance day Set-up \$ 200 A 25° Holden Under AN 110 10° × PT, 111 8° N 350 7 300

GEONNY TCAL FIELD NOTES CONTRACT Nº \_ Holden Wonder LOP LOCATTON Point III on Anomaly 'A' 1"= 100 affect. 1.0 4 ×4P Le A = loop location A = zereo DIP A = z Jan. 28, 1960 DATE LO & J.A. ÖΫ Reconscissonce Leop Set-up Ж Sterui\_ 10° 250 ×PT200 710 25 7 200 150 XPT. 201 1017 201

GEOPHYSICAL FIELD NOTES CONTRACT NO \_ Goldon Monder LOOP LOCATION \_ At point 201 on Charmely 'A' 1=100' approx AMP A = loop location -+ - = == = = = = Jan. 28, 1960. All. 6 J. H. DATE VE = DIP IN DEGREES 84 Resitions of reading stations are approx (no grid line) Reconnaissance Scop Set-up. 126 APT. 201 V20 A B 120 715 10 110 Ridge Intertion?

Ac by GEOPAYSICAL FIELD NOTES Helden Monder CONTRACT NO LOOP LOCATION 100 55 of point 20 (harmaly 4') 1 = 100' approx. 10 AMP Am. 28 1960  $\Delta = loop beation$ All of A. + - ZERO DIP  $\overline{V_{C}} = DIP IN DEGREES$ DATL 8Y Provitions of reading stations are approx. (no great line) Bacomainance Long Set-up × PT. 200 97201 4/20 <del>rzu (bj</del> -<del>17. 10</del>8 150 ×35°

tex by GEORHYSICAL FIELD NOTES Mandar <u> Laldo</u>. CONTRACT Nº\_ AMP. Moto 10 1.0 1 = 100 approx. Jan 29 1960 420. ø J. F. A = loop botton H = 2000 OIP H = 200 OIP To = DIP IN DEGREES Proition of reading stations Are applied (in grid lines) DATE BY Beconnainance Laop Set-up × 28 7<sup>2°</sup> X11° \* PT 189 -X-PT.108 1<sup>8°</sup> 100 1/20 5110 A 10 A 210 in 13/120 63

GEOPHYSICAL FIELD NOTES CONTRACT NO \_ Golden Manden LAOP LOCATION 30 SHAFT ON COMEAU ROAD NEAR C5 North 1 = 100° approp AMP 1.0  $\Delta = loop location$ + = ZERO DIR $<math display="block">\overline{*}_{60} = DIP IN DE GREES$ Jan 29 1960 Ittle + J. Ft. DATE ЗY Resition of reading stations are approx (no gild lines) Reconnaissance Lasp Set-up. 23 pT. 10 at na Tornas ¥70 R OC3N 32° N  $\phi C4N$ 77

1 ly Jolden Wonder CATRADAS 8 AND Point # 103 6. 6. 6 4 1 44. 44 1 = 100 approp 1.0  $\Delta = loop location$ + = ZERO DIP1 Mg # Jan. 29, 1960 LA TE CARD g J.H. To 2 DIP IN DEGREES 4 ¥ Orition of reading stations are apple ( no fin tink) Recominance Lup Set-up すず 127 25° 210 300 TI PT. 103 30 SHAFT 10 PT, 10 PT. 107 jà co 450 120 65

GEOPHYSICAL FIELD NOTES Gelden Wonder CONTRACT NO \_\_\_\_ Paint 106 LOOP LOCATION Had affred. 1.0 AMP Jan. 29, 1960 DATE 4.1.0. # J.A. ₽┦ Proition of reacting station are approve (no frid lines) Reconnainence Lesp Set-up V70 20 220 PT. 106 DT 10 1/20 2° 1/20 5/130 1220 10

As il GEODANSICAL FIELD NOTES Golden Wender CONTRACT Nº \_ | = 100 , APPROX. LOOP LOCATION POINT Station \* 105 in the set 1,0 AMP A = loop location ★ = ZERO DIP Jan. 30, 1960 ISO & M.B. DATE VIT = DIR IN DEBREES BY Obsition of reading stations are approx. Leop a 3 Y. PT. 119 Bernneisuma 20° / W 118 /0° F/ 14 Þø K N<sup>22</sup> ポ 100 Bu # 105 29 30 SALAFT 10 ) 130

GEORNYSICAL FIELD NOTES Conserver No Kolsen Wander LOOP LOCATION \_\_\_\_ PRINT #116. H A = loop location + = TERO DID To = OR IN DEGREES to and on pt. 119 Becomminsance Josep Sta-up 30 Sto 3 1 = 100' approx 10 Geb. 1 1960 ISO. 9 J. H. Anop DATE 8Y Apr. 116 1 20° **∢**z° April F 100 A140 12 70 12 L D 68 12 4

193 64 GEOPHYSKAL FIELD NOTES listen Illander CONTRACT Nº ROINT # 123 LOOP LOCATION 1"=100' apput. AMP 1.0 A = loop location \* = ZERO DIP Feb.1, 1960 DATE litte. 1 J. Ft. VLO DIR IN DEGREES BY are approl (no grid king) Summarian Loup Let-XZ PT 1201 16 13° 13 07,121 7 Fy12° 50 977 + PT. 35 DT. 123 500 140 ¥12° 20 /1 4° 29° ×100

- - - -

GEOPHYSICAL FIELD NOTES CONTRACT Nº \_\_\_\_ Helden Mander LOOP LOCATION \_ At point # 112 1,0 AMP 1 100' approx. 90b. 1+2 1960 DATE A = loop beation + = zzeo DIP little + J.H. BY Conition of reading Stations are approx. (not grid firm) Beconnaissence Loop Set up 30 15 38 54 AFT ¥ PT.103 K 220\_\_\_\_ QC5N <u> 120</u> APT. 12 \$ 50 CAN ASS \* 170 \$ 50 bcon F 10

1 in GEOPHY SICAL FIELD NOTES holsen Mender CONTRACT NO 1= 100' approx POINT # 102 LOOP LOCATION AMP Fab. 2, 1960 A = losp brotion \* = 25Ro DIP DATE £\$6. € J. 7. VLO = OIP IN DEGREES 8Y Routing of besting stations are Gormainsance Tup Set up A 15° 7.10 X PT. 163 z° PTING 4 13\* bheck on pt. 106

, copy GLOPHINSICAL FIELD NOTES CONTRACT NO Goldon Mandon LOOP LOCATION C4+35 NOATH 1=100FT. 1.0 AMP Febr, 2 1960 left. & J. H.  $\Delta = \log location$ = z = RO DIP= DIP IN DEGREES. $<math>\overline{v_{60}} = DIP IN DEGREES.$ DATE 6Y N. N. 3 K BSN 15N C4N CZN 22 N 52N

AN I Val GEOPHYSKAL FIELD NOTES Tolden Wonder CONTRACT NO Paint # 100 LOOP LOCATION 1 = 100'аррыор. 1,0 ANP  $\Delta = \log \log(10^{\circ})^{\circ} + 2 = 2 = 800 \text{ Dip} \\ + 2 = 2 = 800 \text{ Dip} \\ \overline{V_{CO}} = 0 \text{ IP} \text{ IN DEGREES} \\ \overline{V_{CO}} = 0 \text{ IP} \text{$ Feb. 2. 1960 DATE 1<del>8.</del> 9 J.H. BY Reconnaisiance Leap Set-14 > 8 102 1420 BO' SWAFT. ACT. V de 10= <del>\*</del> 101 × 1/25 \* PT 30 2/24 20 1912 730 200 8° 5 100 160

EEOPHYSICAL FIELD NOTES Golden Wondo CONTRACT NO 30'west of pt. #101 1 = 100' sprot. LOOP LOCATION 1.0 AMP. Pet. 2, 1960 A = leap beation + = zero DIP To = DIP AN DEGREES DATE BY Paritism of reading, etation ere approx (no gria linex) Recomaincone Loop Set- up -FT. 10 \* PTILS \* A7124 70 \* P/26 70 X 3



- 60 No GEOPHYSICAL FIELD NOTES Johnan Wonder CONTRACT NO \_\_\_\_ LOOP LOCATION AB2-2450 N 1"=100 нок. 1.0 AMP 125' YERT. May 1 1960 LAB. & M.B. A = loop beation + = zero DP DATE BY To = DIP IN DEBREES ABU-5N <u> 484</u> 4*R3* <u>113-211</u> 182 487 20 481-5N ARI 3 z \*

1 0

CONTRACT NO \_\_\_\_\_ Holden Wonder AB2 #+ 50 N. Z LOOR LOCATION 1"=100 HOR. 125 VERT. 1.0 AMR May 1 1960 UB, & M. B. DATE A = loop location + = ZERO DVP 8Y VED = DIP IN DEGREES



CONTRACT Nº \_\_\_\_\_ Colden Wonder LOOP LOCATION AB4-3+50 N 1.0 AND May 1 1960 10. & M. B. DATE

8Y

1"= 100 HOR 125' VERT.

1 = loop beation \* = zero 010 VIO = DIP IN DEGREES



Strift of the second CONTRACT NO Lielden Monder  $\Delta = loop location$ = 100125 $<math display="block">\Delta = loop location$ = = = = 0 DIP= = 0 DIP= 0 DIP IN DEGREESLOOP LOCATION AB4-1450N 1=100 HOR 125 VERT. 1.0 AMP May 1, 1960 GAG, & M. B. DATE BI 2° K 486 484



CONTRACT Nº \_\_\_\_\_ Holden Mander 2 LOOP LOCATION AB4-505 1 = 100' HOR. 125' VERT. 1.0 AND  $\frac{May 1, 1960}{MB, d & MB, d & locations \\ \hline \chi_{CO} = DIP IN DEGREES$ DATE 8Y 5 75 <del>q</del>o *4.9* 2 YZ0 <u>A84-25</u>2 —X A8435 484 483 Ľ S 18 2 730 7

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1. W

GEODAYSKAL FALD NATIES

10. \$ m.B.

Gelan Wonden CONTRACT NO LON LOCATION AB2-25 1.0 AMR May 2 1960 DATE

*B*Y

1"= 100' HOR 125' VERT.

· 01

 $\Delta = loop location$ + = zero DroVe = DIP IN DEGREES





ECORNYSICAL FIELD NOTES

Julden Wonder CONTRACT Nº \_\_\_\_ <u> AB4 - 4+50 JOUTH</u> LOOP LOCATION 1.0 AMP. nay 2, 1960 DATE 4 M.B. 84

Z I'= 100 HOR 125 VERT.

130

A = loop beation + = ZERO DIP Vio = DIP IN DEGREES



Colden Monder CONTRACT Nº \_ <u>AB4 - 2+20 SOUTH</u>. \$ 60'EAST 1"=100 HOR-125 VERT. LOOP LOCATION 1.0 A = loop location + = == x0 DIP AMP 1960 DATE T = DIP IN DEGREES HB & M.B. 84



CONTRACT NO LICAM Wonder

LOOP LOCATION <u>ABG-45</u>

1.0 AMP

May 2 1960 DATE He & M.B. BY

1 = 100 HOR. 125' KERT.

. Gop

A = loop becation X = ZERO DIP V = DIP IN DEGREES



REORNY STCAL FIELD NOTES

CONTRACT Nº \_ Galden Wanda

LOOP LOCATION \_AB6-1450S.

AMP 1.0

May 1960 lift. \$ M.B. DATE ÐY

Z 1 = 100 HOR 125 VERT.

£ : Qj

A = loap location \* = ZERO DIP T = DIP IN DEGREES



(86)

CONTRACT NO Golden Monder

 $\sim Z$ 

Se py

125' VERT.

1"= 100' HOR

1.0 AMP

DATE

8Y

May 3 1960 A= loop location HB. & M.B. += ZERO DIP VIO = DIR IN DEGREES



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13500 OGORAYSICAL FIELD NOTES CONTRACT Nº \_ Galden Mianda 7- $\frac{1}{125'} \frac{1960}{125'} = 100' HOR$   $\frac{125' HERT.}{125' HERT.}$   $\frac{1}{125'} \frac{1960}{125'} = 1000 \text{ location}$   $\frac{1}{125'} \frac{1960}{125'} = 1000 \text{ location}$ ANP DATE ðY 14 2° - K 12° 740 188-4N 2° 3

CONTRACT Nº Malden Mander

LOOP LOCATION \_ AB8-2N\_

1.0 AMP

may 3 , 1960 DATË 40 o m.B. BY

1"=100' HOR 125' VERT.

61 py

A = loop location + = ZERO DIP The = DIR IN DEGREES



CONTRACT. Nº Golden Monder LOOP LOCATION ABID-4+50 N

1.0 AMD DATE 8 Y

1 = 100' HOR May 3 1960  $\Delta = loop location$ Left of M.B.  $\star = zero ar$ To = DIA IN DEGREES

loo by



CONTRACT NO <u>leslain Monder</u> LOOP LOCATION ABIO-IN 1.0 AMP

- -

May 3 1960 4. 5 M. B. DATE BY

1 = 100 HOR. 125 VERT.

Sopy

A-loop location + = ZERO DIP To = DIP IN DEGREES



CONTRACT Nº Julden Mander LOOP LOCATION ABID-14505

- -

AMP My 4 1960 4.20. 1 M.B. DATE BY

1ª=106 HBR. 125' VERT.

6. py

A = loop location TE = DIP IN DEGREES



CONTRACT Nº \_\_\_\_\_ Golden Monden LOOP LOCATION <u>ABID-45.</u>

- -

1.0 AMP

<u>May 4 1960</u> & = loop location <u>4. L. B. & M. B.</u>  $\star = = = = = R B DIP$ DATE BY

1 = 100 HOR. 125' VERT.

23.04

VG. = DIP IN DEGREES


GEODAYSICAL FIELD NOTES

CONTRACT NO Jolitan Monder LOOP LOCATION \_AB12-2+505

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1 = 100 AOR: 125' VERT.

1 = LOOP LOCATION. + = ZERO DIP VGO = DIP IN DEGREES



COPY GEOPHYSICAL FIELD NOTES CONTRACT NO Culden Wonder | = 100' HOR 125' VERT: 10 AMP May 4, 1960 4.50. & M.B. 1 = lasp location + = ZERO DIP DATE BY VIO = DIP IN DEGREES 7<u>8/5</u> →4p 4 R/4 28 18/2 2 Bure 30 4811 105 4810 2 2 7-8° 96

GEOPHYSICAL FIELD NOTES

CONTRACT NO <u>Monda</u>

LOOP LOCATION \_\_\_\_\_\_\_\_AB12-2+50 N

1.0 AMP

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May 4 1960 4. L. B. g. M. B. DATE BY

1=100 HOR. 125'VERT.

, Erpy

 $\Delta = loop location$  $<math display="block">\star = z_{SRO} \quad OIP$ V = DIP IN DEGREES



CAL WYWCAL	FÆLP	NOTE 5
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Gallon Wonder CONTRACT NO LOOP LOCATION OF AB12-4N

AMP.

May 5 1960 4.J.Q. & M. Z. DATE 8Y



"= 100' HOR. 125' VERT.

· Ech

A = loop location + = ZERO DIP VCO = DIP IN DEGREES

10/20 8 770 24 4812-R/2-4N 5N w N120 50 00 12 90

As Al GEOPHYSKAL FIELD NOTES CONTRACT NO <u>Coldon Monder</u> LOOP LOCATION <u>AB15-50N</u> Z |"=100' HOR. 125' VERT. 1.0 AMP  $\frac{May 5}{4960} = \frac{1960}{4} = \frac{1}{2600} =$ DATE BY The DIP IN DEGREES 2 j v v 50 50 B14 A2º

BASE

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Z

BEOPHYSICAL FIELD NOTES

CONTRACT NO GOLDEN Monder LOOP LOCATION AB15-2+505 1.0



AMP. 1.0 DATE <u>May 5 196</u> BY <u>H.G. & M.B.</u>



so las

 $\frac{M_{eq} 5}{4} \frac{1460}{M_{e} B} = loop location \\ + = z = RO DIP$ 

5 = DIP IN DEGREES



6.901 GEOPHYSICAL FIELD NOTES CONTRACT Nº Galden Mander LOOP LOCATION \_\_\_\_\_\_AB15-55  $\frac{10}{10}$   $\frac{10}{10}$ 1" = 100 HOR. 125' VERT. AMP DATE BY 40 18/5-55 AB15-3 6 Z 7 R3 7 7 >6

\_ \_ . \_ . \_ . \_ . \_ \_

BEBPRYSICAL FIELD NOTES

CONTRACT NO. \_ Aslaen Monder

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LOOP LOCATION ABR-5+505

AMP

May 5 1960 L.M. 991.B. DATE BY

A = loop location + = ZERO DIP To = DIP IN DEGREES

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1"= 100 HOR. 125' VERT.



e vy BEDRYY SICAL FIELD NOTES CONTRACT Nº lulden Mander 1 = 100 HDR. 1251 VERT. 1.0 AMP May 5 1960 1 = loop location All & M.B. + = = = RO DID DATE TO A DIR IN DEGREES BÝ 9 6° <u></u> 10 72.0 18/2 65 18/2-85 450 R 6 2 130 736 36 103

De la SEORAY TICAL FIELD NOTES CONTRACT NO CHINAM MIANDEN LOOP LOCATION ABID-6+505 | = 100 HOR. 125' VERT, AMP  $\frac{May 6}{MB} = \frac{1960}{MB} = \frac{\Lambda = loop location}{+ = 2ERO 0IP}$   $\frac{MB}{Co} = 0IP IN DEGREES$ DATE BY 2 78" 9 9 AB10-45 70 9 Z 15° 30 5 4 22 0



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		GEOPHYSIC	AL FIELD	NOTES		· · ·	19
CONTRA	CT Nº	polaen .	Wanda	,			
LOOP LOC	ATION _A	88-85	<u></u>				
AMP	<del></del>	1.0				1"=100" HOR.	
DATE	<u> </u>		1960	A = losp beation			
8Y		1 <u>9.</u>	M.B.	*	75Rº 01P M	DIA DEGREES	
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							100

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€.P¢ GEORHY SICAL FIELD NOTES CONTRACT Nº Molden Mander LOCATION ABT-84405 then 55 W 1"=100' HOR 1.0 AMP 125' VERT. May 6 1960  $\Delta = loop location$  $<u>Like + M.B.</u> <math>\star = 2500000$ DATE BY TE = DIR IN DEGREES 9 3 A878 181-65 Δ 18 A Co Land W 協 57 л А Ø

CEOPHYSICAL FIELD KOTES

CONTRACT NO <u>Helden Mander</u> LOOR LOCATION <u>AB8-5+505</u> 1.0 AMP DATE ВY

1"= 100' HOR 125' VERT.

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BEORAVSICA	2	FIELD	NOTES
		ALC: 10.1	

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CONTRACT NO \_\_\_\_\_ Monder Z I'' = 100' HoR125' USRT. $<math display="block">\Delta = loop location$ + = zero DIP= 2012 IN DEGREES= 012+ 00' HOR= 2012 IN DEGREES1.0 AMP <u>May 7 1960</u> 130. & M. B. DATE BY



EEOPHYSICAL FIELD NOTES

boby CONTRACT Nº Julien Manden LOOP LOCATION \_ AB4-65 1.0 AMP 1 = 100' HOR. A = loop location 125 MERT. + = ZERO DIP May 7 + 9 1960 LAD, & M. B. DATE BY CO DIR IN DEGREES 21 50 80' 30 S Ø 184-65 ABA 150 10 70 100 8 1 AD

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181-47 15\*

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GEORKYSICAL FIELD NOTES

CONTRACT NO <u>Monder</u>

LOOP LOCATION <u>SECTIMAN</u> BOFT From ABI-515 = POINT#118 1.0 AMP

May 7 1960\_\_\_\_ DATE 10. + m. 3. 84

1' 100' HOR. Δ = lesp location + = ZERO DIR VGo = DIP IN DEGREES



bopy

loopy GEOPHYSICAL FIELD NOTES CONTRACT Nº Golden Wanda LOOP LOCATION ABI-35 + 50FT EAST. 1.0 AMP 1"= 100' HOR. <u>May 9, 1960</u>  $\Delta = loop location$ <u>May 9, 1960</u> <math>= loop location<u>Lifle & M.B.</u> = zero DIPDATE BY The = DIP IN DEGREES 3 K Þ 4 48 2 ~[~ Buse 11-35 481 72





