

DRG. No. G-1592/19

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 125° 49' 15" W

AUTHOR: E. O'Bertos

10

M I D D L E C A M S E L L

1443.6' +

800
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1700
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H 2920
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H 2928
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H 2930
1
2F
3F
4F
5

As as, no vis por.

LT GR, MOR-X, DNG, MASS THK 5'-15' SSS, FW CA VNS, BLESS & STROG,
LT GR & SF MASSWTHD.

LT GR-WH, MOR-X, DNG, V THK MASS SSS, CA VNS, BLESS, SF, OR
& LT GR MASS WTHD.

LT GR, MOR-X, DNG, MASS V THK SSS, CA VNS, STROG, BLESS,
LT GR & SF WTHD, CLIFF FORM, FW CA FILLED VUGS.

LST, OCC BRECC, LT GR & RD, MOR-X, THK SSS, FW ANG FRAGS OF LST,
CA VNS, OR & ROUGE WTHD, SOME RECESSIVE.

DOL, BK GR & LST, LT GR, MOR-X, TH SSS, GR, RUST & OR WTHD.

DOL, SL ANG, GR, MOR-X, DNG, 2'-1' SSS, WI FW GR DOL SH PTGS,
GR & RUST WTHD.

DK GR, MOR-X, DNG, 1'-8" SSS, CA VNS, BLESS, GR, SF & RUST
PT NOD WTHD, P FNEED BRACHS.

DK GR-BLK, MOR-CRYPTO-X, 1'-8" SSS, CA VNS, STROG, GR, SF
& RUST NOD WTHD, BRACHS ADD.

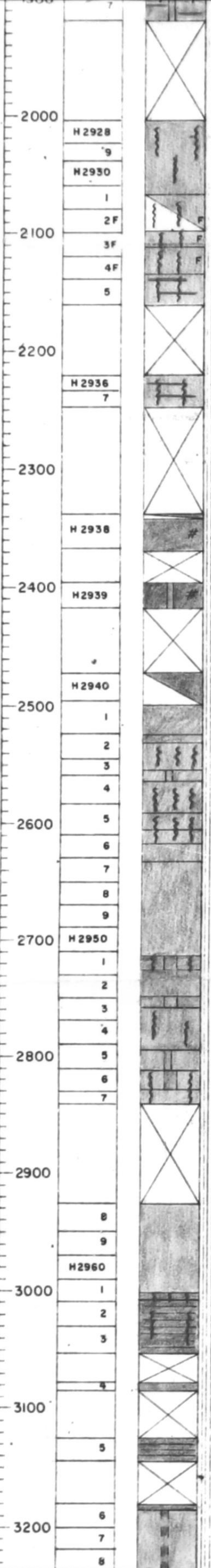
DK GR, MOR-X, DNG, RD, 1'-8" SSS WI FW TH ANG PTGS, GR, SF & RUST
SSS WTHD, BRACHS, BRACHS.

²CAMAROTOECHIA² SP. (SIL OR DEV)
²CAMAROTOECHIA² SP. (SIL OR DEV)
? SCHIZOPHONIA SP. (SIL OR DEV)

2 of

S I L U R I A F M. D E L O R M E

1376.0'



DOL, SL ARG, GR, MOR-X, DMS, 2nd-1st SSS, WI PW GR DOL SH PTGS, GR & RUST WTHD.

DK GR, MOR-X, DMS, 1st-8th SSS, CA VHS, BLESS, GR, SF & RUST PT MOD WTHD, P FREED BRACHS.

DK GR-BLK, MOR-CRYPTO-X, 1st-8th SSS, CA VHS, STRGS, GR, SF & RUST MOD WTHD, BRACHS ADD.

DK GR, MOR-X, DMS, HD, 1st-8th SSS WI PW TH ARG PTGS, GR, SF & RUST MOD WTHD, BRACHS, BRYOZOA.

DK GR, MOR-X, WI PTGS TO 1st OR CALC SH (10%), TH 1st-8th SSS, ADD CA VHS, BLESS, OCC FOSS FRAGS, GR & SF MOD WTHD, ADD BRACHS.

DOL, M GR, MOR-CRYPTO-X, DMS & HD, THK SSS, SF & GR WTHD, PYR.

SL CALO, LT GR-WH, MOR-X, TH-THK SSS, FAWN & SF WTHD.

LT GR-WH, MOR-X, 2nd-2nd SSS, FAWN & SF BLKY WTHD.

LT GR, MOR-CRYPTO-X, THK SSS, CA VHS, LT GR ROUGH WTHD.
SL CALO, LT GR, MOR-X, DMS, SF BLKY WTHD.

LT GR, MOR-X, DMS, 6th-3rd SSS, CA VHS, XLS, SF BLKY WTHD.

LT GR, MOR-X, DMS, HD, THK SSS, SF & GR BLKY WTHD.

LST, DOL, LT GR, MOR-X, DMS, THK SSS, CA VHS, GR SF WTHD.
LT GR, MOR-X, HD & BRITTLE, SSS TO 3rd, SF & GR BLKY WTHD.
LST, DOL, LT GR, MOR-X, THK SSS, DMS.
LT GR, MOR-X, DMS, THK SSS, CA VHS, XLS, SF & GR SF WTHD.

AS AB, SL CALO.

LST, DOL AT TOP, LT-M GR, MOR-X, 1st-3rd SSS, SF & GR BLKY WTHD.

M GR, MOR-CRYPTO-X, THK 1st-4th SSS, GR & SF BLKY WTHD.

DOL & LST INSD, LT-M GR, MOR-X, THK 1st-5th SSS, PW CA VHS & STRGS, GR & SF BLKY WTHD.

LT-M GR, MOR-CRYPTO-X, THK SSS, GR & SF WTHD.

DOL & LST, LT GR-WH, MOR-X, M-THK SSS, SF & GR WTHD.

LT GR, MOR-X, DMS, 6th-3rd SSS, OCC BL CALO, SF & GR BLKY WTHD.

CAMAROTOECHIA SP. (SIL OR DEV)
CAMAROTOECHIA SP. (SIL OR DEV)
? SONIZOPHORIA SP. (SIL OR DEV)

BASE OF SECTION TIES IN APPROX WITH BASE OF 224th COVERED INTERVAL IN SECTION 24-15.

DRG

REPORT No. G. R. 99

PARTY No. 24

LONGITUDE 123° 51' 00" W.

AUTHOR: L. M. SPRATT

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY

TRIAD OIL CO. LTD.

DRG No G-1592/21

SECTION 24-21

REPORT No. G.R. 99

LOCATION: WOODMAN HEAD

PARTY No. 24

MAP REFERENCE: WRIGLEY

LATITUDE 63° 54' 00" N.

LONGITUDE 123° 17' 00" W.

DATE: AUGUST 10 1961

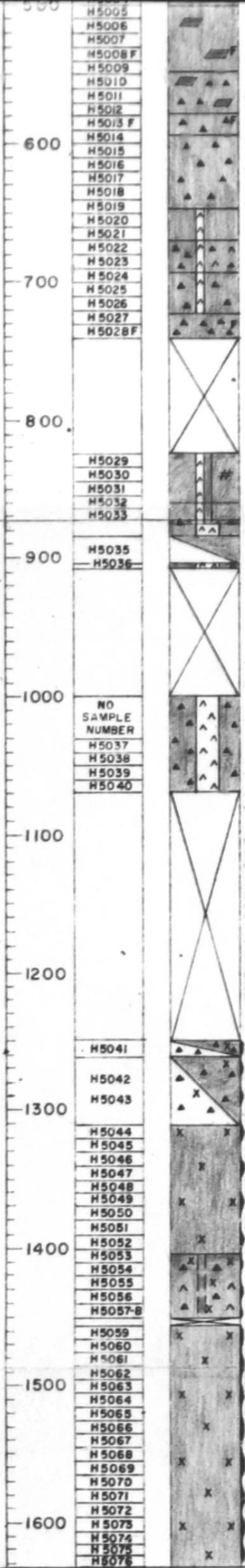
SCALE: 1" = 100'

AUTHOR: R.L. PEMBERTON

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY
					H 2969 H 2970 H 2971 H 2972 H 2973			MIO, SL BRECC, GR BRN, MASS, NON-BDD, M GR BLKY WTHD. MIO, M-GR GR BRN, BDD, SL CA VNG, MASS, GR-GR BRN WELY & BLKY WTHD.	
					H 2974 H 2975 H 2976 H 2977 H 2978 H 2979			V DK BRN, MOR-CRYPTO-X, DMS, MASS, DK GR WTHD. MIO, V DK BRN, DMS, THK BDD LENT SANDS GR BRN CH. MIO, V DK GR & BRN, DMS, FAINT M-TH BDD.	
					H 2980 H 2981 H 2982 H 2983			SL SIL, MIO, SL BIOFRAG, M GR BRN, ROLY WTHD, FW P PRES SHELL FRAGS & CORALS.	
					H 2984 H 2985 H 2986 H 2987 H 2988 H 2989 H 2990 H 2991 H 2992 H 2993			SL SIL, MIO, DK GR BRN, M-THK BDD, M GR BLKY WTHD. MIO, BRN, S-LITH, 2"-1" BDD, P-GR F YUGGY POR. MIO, BRN-GR, DMS, THK BDD, TR YUGS, M GR BLKY WTHD. MIO, SL SIL, DK GR, WI LENT INBDD BLK CH, CA PATCHES. SL SIL, MIO, DK GR, M-THK BDD, YUGS LINED WI CA & QZ.	
					H 2994 H 2995 H 2996 H 2997 H 2998 H 2999 H 5000 H 5001 H 5002 H 5003 H 5004 H 5005 H 5006 H 5007 H 5008F H 5009 H 5010 H 5011 H 5012 H 5013 F H 5014 H 5015 H 5016 H 5017 H 5018 H 5019 H 5020 H 5021 H 5022 H 5023 H 5024 H 5025 H 5026 H 5027 H 5028F			MIO, M BRN, MASS, SCAT SL YUG POR, M GR BLKY WTHD. MIO, M BRN, S-LITH, DMS, MASS, DK GR ROLY WTHD. DK GR, MOR-CRYPTO-X, DMS, MASS, M BRN BLKY WTHD. DK GR, MOR-CRYPTO-X, SCAT MASSES WH CRB X DOL, CUP CORALS. SL CHTY, MIO, DK GR, SL BIOFRAG, BLK CH LENSES & NOD MASSES WH X DOL. MIO, DK GR, WI ADD IRREG LENSES, NOD & PATCHES DK GR, BRN & BLK CH, WTHD M BRN, BLKY, SL RECEDING. SIL, BRN, CRYPTO-MOR-X, MASS, WH CA EYES, GR BLKY WTHD. SIL, MIO, DK BRN, SL BIOFRAG, PATCHES GR & BRN CH, GR BRN BLKY WTHD. V CHTY, MIO, DK GR BRN, ADD CH LENSES, BDD & PATCHES, RARE P PRES SIL CUP CORALS, TH-THK IRREG BDD.	
					H 5029 H 5030 H 5031 H 5032 H 5033 H 5035 H 5036			SIL, SL ARG, MIO, DK BRN, IRREG TH-THK BDD, SL PLATY, M BRN BLKY WTHD, CLIFF FORM, PYR. SL SUB, BRN, SCAT FLTQ CRB R SD GRAINS & BLK CH FRAGS.	
					NO SAMPLE NUMBER				

ORDOVICIAN GROUP
FRANKLIN MOUNTAIN

758.2' ±



DK GR, MCR-CRYPTO-X, SCAT MASSER WH CRS X BOL, CUP CORALS.

SL CHTY, MIC, DK GR, SL BIOFRAG, BLK CH LENSES & NOD MASSES WH X BOL.

MIC, DK GR, WI ADD IRREG LENSES, NOD & PATCHES DK GR, BRN & BLK CH, WTHD M BRN, BLKY, SL RECEDING.

SIL, BRN, CRYPTO-MCR-X, MASS, WH CA EYES, GR BLKY WTHD.

SIL, MIC, DK BRN, SL BIOFRAG, PATCHES GR & BRN CH, GR BRN BLKY WTHD.

V CHTY, MIC, DK GR BRN, ADD CH LENSES, BDD & PATCHES, RARE P PRES SIL CUP CORALS, TH-TNK IRREG BDD.

SIL, SL ARG, MIC, DK BRN, IRREG TH-TNK BDD, SL PLATTY, M BRN BLKY WTHD, CLIFF FORM, PYR.

SL SUB, BRN, SCAT FLTG CRS R SD GRAINS & BLK CH FRAGS.

V SIL & CHTY, MIC, M-DK BRN, THK BDD, BRN & SL RD BLKY WTHD.

LT-M BRN, MCR-VFX, SCAT BRN CH PATCHES, LENSES, MGS, SF BLKY WTHD.

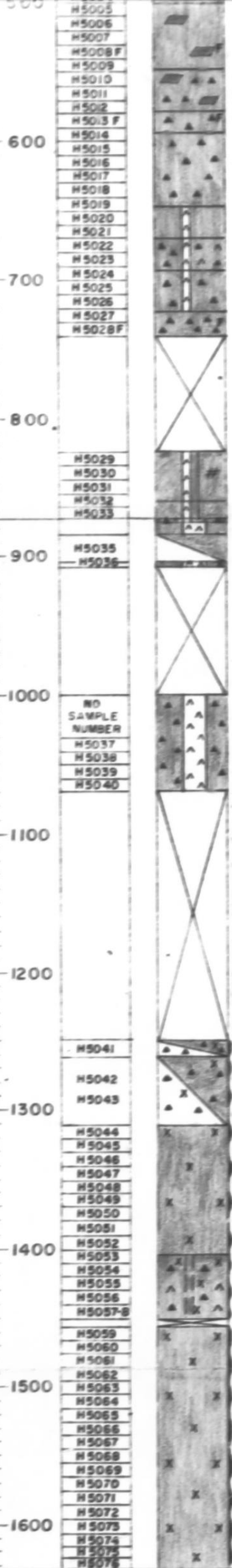
LT & M BRN, MCR-FX, TH-TNK BDD, WTHD M BRN BLKY, CLIFF FORM.

LT-M BRN, MCR-FX, BDD SL ARG BANDS, RARE CH & QZ INCL, QF BLKY WTHD.

M GR & BRN, MCR-VFX, THK BDD, SF-DK GR BLKY WTHD, WELL JOINTED.

ORDOVICIAN GRONIP FRANKLIN MOUNTAIN

758.2' +



DK GR, MCR-CRYPTO-X, SCAT MASSES WH CRD X SOL, CUP CORALS.

SL CNTY. MIC, DK GR, SL BIOFRAG, BLK CH LENSES & NOD MASSES WH X SOL.

MIC, DK GR, WH ADD IRREG LENSES, NOD & PATCHES DK GR, BRN & BLK CH, WTHD M BRN, BLKY, SL RECEDING.

SIL, BRN, CRYPTO-MCR-X, MASS, WH CA EYES, GR BLKY WTHD.

SIL, MIC, DK BRN, SL BIOFRAG, PATCHES GR & BRN CH, GR BRN BLKY WTHD.

V CNTY, MIC, DK GR BRN, ADD CH LENSES, SOD & PATCHES, BARE P PRES SIL CUP CORALS, TH-TNK IRREG SOD.

SIL, SL ARG, MIC, DK BRN, IRREG TH-TNK SOD, SL PLATY, M BRN BLKY WTHD, CLIFF FORM, PYR.

SL SUB, BRN, SCAT FLTS CRD R SD GRAINS & BLK CH FRAGS.

V SIL & CNTY, MIC, M-DK BRN, THK SOD, BRN & SL RD BLKY WTHD.

LT-M BRN, MCR-VFX, SCAT BRN CH PATCHES, LENSES, MASS, SF BLKY WTHD.

LT & M BRN, MCR-FX, TH-TNK SOD, WTHD M BRN BLKY, CLIFF FORM.

LT-M BRN, MCR-FX, SOD SL ARG SANDS, BARE CH & QZ INCLD, SF BLKY WTHD.

M GR & BRN, MCR-VFX, THK SOD, SF-DK GR BLKY WTHD, WELL JOINTED.

DRG. No G-1592/23

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 123° 42' 30" W

SCALE: 1" = 100'

AUTHOR: E. O'BERTOS

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY
	MIDDLE DEVONIAN	HUME F.M.	430.7' +						
					H5077 8F 9 H5080 1 2		[Graphic Log]	GR GRN-BRN, MCR-CRYPTO-X, DMS, THK BDD, CA XLS, BLESS & VNS, LT GR & GR-SF SLKY & BDD WTRD, FW BRACHS, GASTROPODS.	
					3 4F 5		[Graphic Log]	M GR-GR BRN, MCR-X, DMS, THK BDD, CA BLESS, VNS, STRGRS, GR-GR BRN SLKY WTRD, CORALS, BRACHS.	
					6 7 8 9		[Graphic Log]	GR BRN, MCR-CRYPTO-X, DMS, THK BDD, MI CA VNS, INCLS & BLESS, LT GR BRN SLKY & CRSLY BDD WTRD, AND CORALS.	
					H5090 1 2		[Graphic Log]	DK GR-GR BRN, CRYPTO-X, S-LITH AT BASE, DMS, THK BDD TO 5', CA BLESS & INCLS, SF-GR SF SLKY WTRD.	

DRG. No. G- 1592/24

REPORT No. G.R-99

PARTY No. 24

DATE: AUGUST 12, 1961

SCALE: 1" = 100'

AUTHOR: L. M. SPRATT

1 of

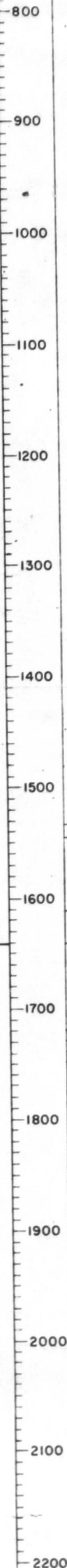
D E V O N I A N

F U M E

D L E

F M.

1641.2'



H 3374

H 3375

6
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8

9
H 3380
1
2
3
4

1900

5
6

2000

7
8

2100

H 3390

2200

1
2
3
4

DK GR/BLK, MOR-X, DMS, WI VF STRONG WH CA, SDG V POOR IRREG/MY, WTHD
DK GR, VPK, SLTY, SDG 1st-4th, WTHD LT GR WI VF DK GR, DMS, RELY.
M GR DMS, SLTY.

DK GR/BLK, MOR-X, DMS, SDG 1st & 4th-3rd, WTHD LT/M GR, SLTY, SL PITTED.

LST, CRSLY DMS, DK GR, MOR-X, WI INCL DK GR, VPK SLTY LST & PTONG
DK GR ARG PLTY LST, PTONG IMPURE CA, WH & GR, SDG 1st & MASS, WTHD
LT/M GR, PTONG, RELY.
DK GR-DMS, MOR-X, WI CA VMS, WTHD DK GR/BLK, RELY, HKLY, NO.

DK GR, MOR-X, DMS, WI VF STRONG CA, SDG 5th-2nd, WTHD M GR, SLTY.

DK GR-DMS, DMS, SDG P/IRREG, 1st & 6th-1st, WTHD DK GR & DMS, HKLY, JTD,
PLTY IN PT, RELY.

DK GR/BLK, APP SL DMS IN PT, MASS SDG, WTHD LT & DK GR WY DMS.

M/DK GR, VF DMS, SDG 3rd-4th/MASS, PLTY, WTHD LT & DK GR, SL PITTED,
SL HKLY IN PT, INSD DK GR MOR-X DMS LST, SDG MASS, WTHD M GR, PITTED.

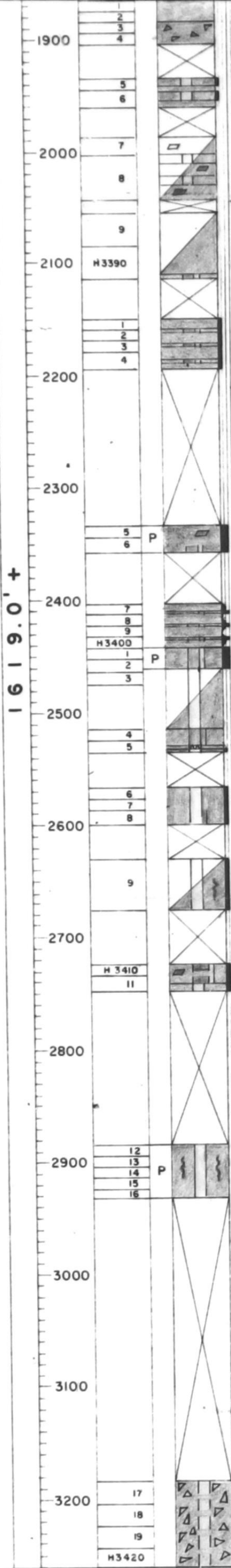
M/DK GR, WI VF PTONG GR CA, DMS, SDG 1st-6th, WTHD LT GR, SL PITTED,
JTD, SLTY/SLTY, INSD WI M GR SLTY LST, SDG 2nd-5th, PLTY IN PT,
WTHD DK GR, RELY.

DK GR, DMS, SDG POOR 2nd/MASS, WTHD LT GR, PITTED.

DK GR, SDG PLTY 1st-1st, WTHD DK GR, PLTY.

M GR-DMS, VF FRAC, UNFILLED WI CLS GR, SDG MASS, WTHD LT GR, PITTED,
INSD DK GR SLTY LST, PLTY, SDG 2nd-1st, WTHD M & DK GR DMS & PITTED.

M I D L E F M F U N E R A L



DK GR/BLK, APP SL BRECC IN PT, MASS SSG, WTHD LT & DK GR WYV SSSD.

M/DK GR, VF SSSD, SSG 1²-4²/MASS, PLTY, WTHD LT & DK GR, SL PITTED, SL ONLY IN PT, INSSD DK GR MCR-X SSSD LST, SSG MASS, WTHD M GR, PITTED.

M/DK GR, WI VF PTCHS GR CA, SSSD, SSG 1²-6² WTHD LT GR, SL PITTED, JYS, SLTY/SSLY, INSSD WI M GR SLTY LST, SSG 1²-6², PLTY IN PT, WTHD DK GR, SSLY.

DK GR, SSSD, SSG POOR 2¹/MASS, WTHD LT GR, PITTED.

DK GR, SSG PLTY 1²-1², WTHD DK GR, PLTY.

M GR-SSN, VF FRAC, UNFILLED WI CLS GR, SSG MASS, WTHD LT GR, PITTED, INSSD DK GR SLTY LST, PLTY, SSG 1²-1², WTHD M & DK GR SSSD & PITTED.

M GR WI SPAN GR, SSG, SSG MASS, WTHD M GR, POCKED & PITTED. M GR, ARG, SLTY, SSLY, WI LRG PTCHS GR WH CA.

DK GR, SSSD, INSSD DK SLTY FX LST, ARG, SSG 4²-1², WTHD LT & DK GR, PITTED.

DK GR, PTLY FRI, SSG 1²-MASS, WTHD DK GR, SSLY, PITTED, FETID ODOR.

DK GR WI LT GR SSSD, SSG 1², WTHD LT GR, PLTY.

DK GR, SSG 1²-4² WTHD M/DK GR, FETID ODOR. DOL, M GR-SSN, CRYPTO-X, SSSD, SIL, HD, CONC FRAC, JYS, WTHD M GR-SSN, SLKY. DOL, VFX, QZIC IN PT, DK GR, V STRONG SUL ODOR, SSG 1² TH, WYV, WTHD M & DK GR SSSD.

M GR, SSSD, SSG 1²-6²/MASS, WTHD DK GR, SSLY.

BOMB DK GR/BLK, FRI, VF CA STRONG, FAINT FETID ODOR.

M GR, SSG 1²-4², WTHD M/DK GR, SCAT VF CA STRONG.

DK GR, P SSG, 1²-2², SCAT CA PTCHS, WTHD M/DK GR, SLKY. M GR, VFX, WTHD LT GR, SSSD.

DK GR, VFX, SL FRI/ERTY, P 1²-X FOR, FETID ODOR, SSG 2¹-6¹, WTHD DK GR, SLKY, SCAT CA STRONG.

LST, ONLY BRECC, M GR WI LRG DK GR CRYPTO-X FRACS, SSG MASS, WTHD M & DK GR, PTCHY, SSLY, WI OCC PTCHS LT GRN VFX LST & M GR CRYPTO-X LST.

TRIAD OIL CO. LTD.

DRG No G-1592/25

SECTION 24-25

REPORT No. **G.R. 99**

LOCATION: MOUNT HAYWOOD

PARTY No. 24

MAP REFERENCE:

LATITUDE 63° 45' 00" N

LONGITUDE 125° 03' 00" W

DATE: AUGUST 18 1961

SCALE: 1" = 100'

AUTHOR: R.Pemberton & E. O'Bertos

AUTHOR: R.Pemberton & E.O'Bertos

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY
					H			NIC, V SL BIOFRAG, V BK GR, DNS, SCAT COL & CUP CORALS, RARE BRACHS, M/TNK BDD, WTHD M GR, HKLY & BLKY, CA STRONG.	
					4F			BIONIC, V BK GR, CORALS, BRACHS, GASTS, TRILOBITES, BELEMNITES, ORI STMS, M/TNK BDD, WTHD M GR, HKLY/RGLY.	
					5 6F			NIC, SL ARG, V SL FOSS, FW BRACHS, TRILOBITES, CORAL MASSES, IRREG LRG SCAT PYR KLS, WH CA MASSES & PTCHS, WTHD M GR, HKLY, BLKY, M BDD.	
					7			NIC, SL BIOFRAG, ORI SHELL FRAGS, RARE BRACHS, CORALS, WH CA PTCHS, M BDD, WTHD M GR-BRN, BLKY & RGLY.	
					8F 9			NIC, V BK GR, ARG, SL BDD, BRACHS, CORALS, TRILOBITES, GASTS, SL ORI, SCAT CA YES, M/TNK BDD, WTHD GR, BLKY, RGLY.	
					H5100			BIONIC, V FW FOSS AS AB, MASS, WTHD M GR, RGLY.	
					1			NIC, SL ARG, V BK GR, TR/M BDD, TR BIOFRAG, WTHD M GR, RGLY.	
					2 3			AS AB, SL BIOFRAG, ORI, FW BRACHS, CORALS, GASTS, MASS, WTHD GR, RGLY, RESISTENT.	
					4 5 6F			BIONIC, ARG, ORI, SL ERTY TEXT IN PT, SCAT WH SPAR ZONES, BRACHS, O BDD, WTHD RGLY. BIONIC, ARG, V BK GR, ORI, BRACHS, CUP CORALS, GASTS, TRILOBITES, SL NOD APP, MASS, WTHD GR BRN, RGLY.	
					7F			BIONIC, AS AB, M/TNK BDD, BRACHS, ORI, TRILOBITES, GASTS, CUP & COL CORALS.	
					8 9F			BIONIC, ARG, BK/V BK GR, ORI, BRACHS, CUP CORALS, TRILOBITES, GASTS, M BDD, WTHD GR, RGLY, TH PYR.	
					H5110 11			FOSS, BIOSPAR, AS AB, WTHD LT GR, RGLY.	
					12 13 14			BIOSPAP, ARG, V BK GR, ORI, RARE FOSS AS AB, MASS, WTHD GR, RGLY. NIC, V ARG, ONLY, BK BRN, TH BDD/LAM, INSD WI OCC BDD 4 th -6 th LST NIC, V BK BRN, DNS, WTHD PLTY, GR.	
					15			NIC, V BK GR/BLK, 1 st BDD, WI TH BDD ARG PTCH, WTHD LT GR, BLKY.	
					16 17 18 19			NIC, V SL BIOFRAG, V BK GR, DNS, OCC WH CA MASSES, WTHD M GR-BRN, CLIFF FORMING, BLKY.	
					H5120 1			AS AB, SCAT AOCUM BRACHS & TRILOBITES.	
					2 3F 4 5				
					H5126 27			BIONIC, ARG, ORI, V BK GR-BRN, BRACHS, GASTS, TRILOBITES, M/TNK BDD, WTHD GR, RGLY.	
					28 29			NIC, ARG, V BK GR, SL ORI, PTLY ONLY, TH BDD/PLTY, 1 st -6 th BDD, WTHD M GR.	
								NIC, ARG, V BK GR, TR BIOFRAG, TR FOSS, 2 nd -4 th BDD.	
					H5130			AS AB, SOME THNR BDD, SL ONLY, PLTY.	
					1 2 3			NIC, SL ARG, TR BIOFRAG, V BK GR, DNS, SCAT GR WH CA EYES & PTCHS.	

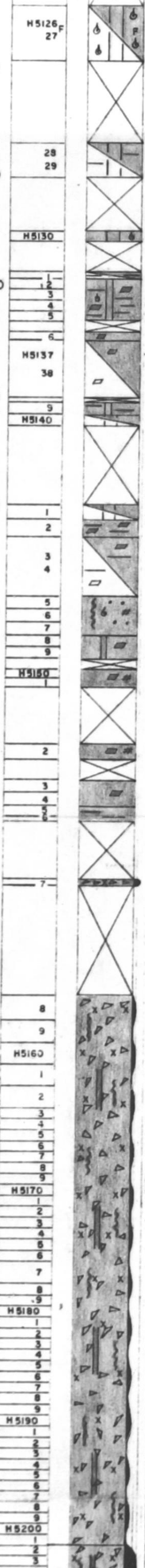
A N F M E U M E A

1491.0'

SCALE = 100

LENNAHUMME
D E V O N I A H U M M E
F M.

1491.0
800
900
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1200
1300
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BIOHERC. ARG. CR. V BK GR-BRN, BRACHIO, GASTRO, TRILOBITES,
M/THK BDD, WTHD GR, RSLY.

MIC. ARG. V BK GR, SL CR, PTLY ONLY, TH BDD/PLTY, 1st-6th BDD,
WTHD M GR.

MIC. ARG. V BK GR, TH BIOFRAG, TH FOSS, 2nd-4th BDD.

AS AB, SOME THIN BDD, SL ONLY, PLTY.

MIC. SL ARG, TH BIOFRAG, V BK GR, BDD, SCAT SM WH CA EYES & PTONG,
M/THK BDD, WI TH ONLY LST PTOS, WTHD M GR/SP, OLIFF FORMING.

MIC. V BK GR, TH WH SPAN INOL, MASS, WTHD M BRN, OLIFF FORMING.

AS AB.

MIC. M BK/V BK GR-BRN, SL ARG, BDD, 2nd-6th BDD, RARE ONLY PTOS,
OLIFF FORMING, WTHD LT GR-BRN.

MIC. ARG. V BK GR/BLK, TH BDD.

MIC. ARG. V BK GR, TH FOSS BERRIS, M BDD, WTHD M GR, RSLY.

MIC. BIOCLASTIC ZONES, V BK GR, FW SHELL FRAGS, & WH SPAN CA PTONG,
M/THK BDD, WI FW TH ONLY PTOS, OLIFF FORMING, WTHD M BRN & GR.

AS AB.

CRYPTO/MOR-X, LOC SL BIOFRAG, TH PELLETS, V BK GR, THK BDD,
OLIFF FORMING, WTHD GR-SP, BLKY, TH PYR & CA VHS.

MIC. S-LITH, WI SCAT F WH SPAN INOL, V BK GR-BRN, THK BDD, SOME ARG.

MIC. M BK GR-BRN, F WH SPAN INOL, TH PYR, S-LITH, MASS, WTHD LT GR,
BLKY.

MIC. AS AB, MASS.

MIC. V BK GR, BDD, SCAT F SPAN INOL, 4th-1st BDD, WTHD M GR, BLKY.

MIC. SL BIOFRAG, V BK GR, BDD, M/THK BDD, WI OCC V TH ONLY PTOS,
WTHD M GR.

BREO, V BK GR MIC/M BRN SPAN, F/MK, ADD WH CA INFILLING, VCH/1st XLS,
MASS.

LET BRECCIA, F/VC BREO FRAGS, OCC PTLY SOL.

LET BK/VKGR GR, MOR/VPR, ADD CA HEALING & VHS, OFTEN VUGGY/CAVERNOUS,
NO BDD, WTHD M GR-BRN, OLIFF FORMING.

AS AB.

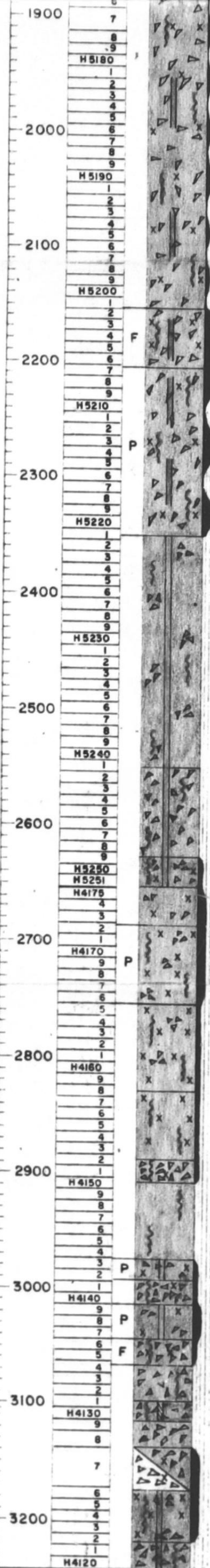
AS AB.

AS AB.

AS AB.

AS AB, SOME LET FRAGS, LT/M GR, MK GRAN WI FAIR INGRAN FOR.

17530' +



As ab.

As ab.

As ab, some lot frags, lt/m gr, mx gran w/ fair in gran por.

Lot breccia as ab, blks & frags var lts, m/v dk gr, crypto/mx, ooc sl por, abs ca healing, often vuggy, mass, no sds.

Sl arg, crypto/mor-x, v dk gr/bls, dms, lrg areas apparently undisturbed but often strongly breccia, healed w/ dol & ca, ooc sl vuggy, cliff forming, wthd dk gr.

Dol breccia as ab.

Sl arg, crypto/vfx, mass/thk sds, breccia, ca & dol healing, wthd dk gr, slky.

Sl breccia, m/dk gr, vf/fx, thk sds, fw scat frags dol, fw vugs, wthd dk gr.

Ptyl breccia, dk gr, vf/fx, mass/thk sds, ooc scat frags dk gr dol, scat p vug & in-x por, ca vns & strers, wthd dk gr.

Ooc breccia, lt & dk gr, mor/vfx, mass/thk sds, ca & mag vns & strers, ooc scat frags dol, scat vugs in dk gr dol, wthd m/dk gr.

Lt & dk gr banded, mor/vfx, thk 2'-10' sds, dms, scat vns & strers ca & mag, wthd m & dk gr banded.

Breccia, dol dk & lt gr, frags ang to 6", scat ca vns, strers & inol, irreg or wthd, scat vugs in pt, little or no mtx.

Dk & lt gr banded, mor-x, dms, m/thk sds, irreg vns ca, m/dk gr banded wthd.

Dol, ptyl breccia, dk gr, vf/fx, ooc scat frags up to 6" of dol, minor spar lot mtx, scat p vuggy por, wthd irreg dk gr.

Lot breccia, m/dk gr, mor/vfx, lrg & ang pcs w/ spar mtx, irreg vns & strers, mass, scat vugs, m/dk gr irreg mass wthd.

M/dk gr, ptyl breccia, fx, w/ fw frags in spar ca mtx, scat p vuggy por, wthd dk gr.

Breccia, dol & lot, dk gr, fx, w/ irreg frags lot, lt/m gr, mor-x, w/ 10% spar mtx, fair in-x por in dol, ca vns, inol & strers, mass, wthd m/dk gr.

Breccia, lot lt/m gr, mor-x, as irreg frags in spar mor-x mtx, mass, ca vns & strers, wthd m/dk gr, irreg & mass.

Breccia, lot & dol, lt/m gr, mor-x, dms, non-sds, as irreg frags w/ spar & mor-x lot mtx, thk pockets of sft wh gyp, wthd m gr, irreg breccia, mostly lot, vf/fx, frags sm/lrg & mass, irreg ca vns, w/ ooc dol frags w/ spar & mor-x lot mtx, scat vugs, non-sds, wthd gr, irreg.

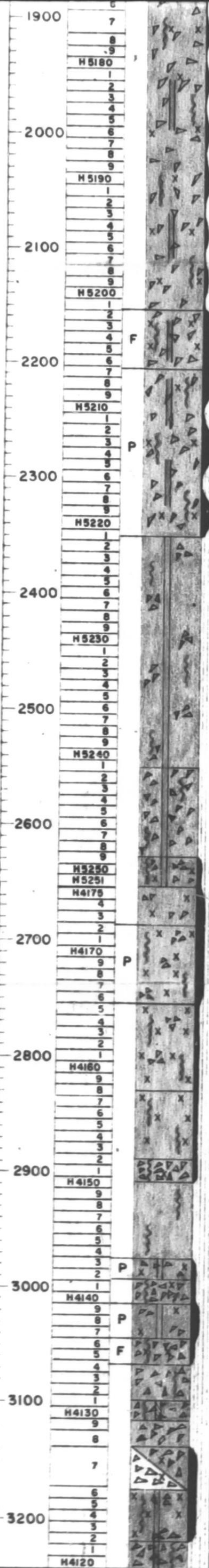
Breccia, mostly lot as ab.

Dol, ptyl breccia, dk gr, vf/fx, mass, non-sds, ooc frags dol w/ up to 10% spar ca lot mtx, scat ca vns & strers, fw scat vugs, wthd dk gr, mass.

Breccia, dol & lot, dol dk gr, mor-x, ptyl breccia as frags sm & lrg, w/ 10% spar mtx or ca, abs irreg vns, slds & xls ca, wthd m/dk gr mass.

M I D D L E B E A R R O C K

1753.0' +



As ab.

As ab.

As ab, some lot frags, LT/M GR, PK GRAN WI FAIR INGRAN POR.

LOT BREG AS AB, SLKS & FRAGS VAR LOTS, M/V DK GR, CRYPTO/PK, OOC SL POR, ASD CA HEALING, OFTEN VUGGY, MASS, NO BDD.

SL ARG, CRYPTO/MOR-X, V DK GR/BLK, DND, LRG AREAS APPARENTLY UNDISTURBED BUT OFTEN STRONGLY BREGO, HEALED WI DOL & CA, OOC SL VUGGY, CLIFF FORMING, WTHD DK GR.

DOL BREG AS AB.

SL ARG, CRYPTO/VFX, MASS/TNK BDD, BREGO, CA & DOL HEALING, WTHD DK GR, SLKY.

SL BREG, M/DK GR, VF/PX, TNK BDD, FW SCAT FRAGS DOL, FW VUGS, WTHD DK GR.

PTLY BREG, DK GR, VF/PX, MASS/TNK BDD, OOC SCAT FRAGS DK GR DOL, SCAT P VUG & IN-X POR, CA VNS & STRONG, WTHD DK GR.

OOC BREG, LT & DK GR, MOR/PX, MASS/TNK BDD, CA & MAG VNS & STRONG, OOC SCAT FRAGS DOL, SCAT VUGS IN DK GR DOL, WTHD M/DK GR.

LT & DK GR BANDED, MOR/VFX, TNK 2'-10' BDD, DND, SCAT VNS & STRONG CA & MAG, WTHD M & DK GR BANDED.

BREGOIA, DOL DK & LT GR, FRAGS ANG TO 6", SCAT CA VNS, STRONG & INCL, INREG GR WTHD, SCAT VUGS IN PT, LITTLE OR NO MTX.

DK & LT GR BANDED, MOR-X, DND, M/TNK BDD, INREG VNS CA, M/DK GR BANDED WTHD.

DOL, PTLY BREG, DK GR, VF/PX, OOC SCAT FRAGS UP TO 6" OF DOL, MINOR SPAN LOT MTX, SCAT P VUGGY POR, WTHD INREG DK GR.

LOT BREG, M/DK GR, MOR/VFX, INREG & ASD PCS WI SPAN MTX, INREG VNS & STRONG, MASS, SCAT VUGS, M/DK GR INREG MASS WTHD.

M/DK GR, PTLY BREG, FX, WI FW FRAGS IN SPAN CA MTX, SCAT P VUGGY POR, WTHD DK GR.

BREG, DOL & LST, DK GR, FX, WI INREG FRAGS LST, LT/M GR, MOR-X, WI 10% SPAN MTX, FAIR IN-X POR IN DOL, CA VNS, INCL & STRONG, MASS, WTHD M/DK GR.

BREG, LOT LT/M GR, MOR-X, AS INREG FRAGS IN SPAN MOR-X MTX, MASS, CA VNS & STRONG, WTHD M/DK GR, INREG & MASS.

BREG, LST & DOL, LT/M GR, MOR-X, DND, NON-BDD, AS INREG FRAGS WI SPAN & MOR-X LST MTX, TN SM POCKETS OF SFT WH QYP, WTHD M GR, INREG BREG, MOSTLY LST, VF/PX, FRAGS SH/LRG & MASS, INREG CA VNS.

WI OOC DOL FRAGS WI SPAN & MOR-X LST MTX, SCAT VUGS, NON-BDD, WTHD GR, INREG.

BREG, MOSTLY LST AS AB.

DOL, PTLY BREG, DK GR, VF/PX, MASS, NON-BDD, OOC FRAGS DOL WI UP TO 10% SPAN CA LST MTX, SCAT CA VNS & STRONG, FW SCAT VUGS, WTHD DK GR, MASS.

BREG, DOL & LST, DOL DK GR, MOR-X, PTLY BREG AS FRAGS SH & LRG, WI 10% SPAN MTX OF CA, ASD INREG VNS, SLKS & LRG CA, WTHD M/DK GR MASS.

DRG. No. G-1592/26

REPORT No. G. R. 99

PARTY No. 24

LONGITUDE 125° 2' 30" W.

AUTHOR: E. O'BERTOS

TIME LOG		MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY	
UPPER DEVONIAN				562.6' +	0	H4046			GR-BRN, M-THK BDD, WI PTGS & TH INBDS DK GR SH. DK GR WI FW INBDS & PTGS DK GR ARG SST, GR & BRN LOOSE WTHD.		
					7						
						8				DK GR-BRN, THK BDD, WI PTGS & INBDS DK GR SH, GR & BRN BLKY WTHD.	
						9					
						4050					
						100	1			AS AB, BONG TH BDD.	
						2					
						3					
						4				SH & SST INBD, SST ARG, DK GR, VFG, INBD WI DK GR SLTY SH IN BDD TO 1' THK, GR-GR BRN PLTY & LOOSE WTHD.	
						5					
						6					
						7				DK GR, SL-NON CALC, THK BDD, DK GR & BRN LOOSE WTHD.	
						8					
						9				SH & SST INBD 50-50, SH DK GR WI INBDS GR BRN VFG ARG SST.	
						4060					
						1				DK GR-GR BRN, THK BDD, WI FW SH INBDS, GR & BRN BLKY WTHD.	
						2					
						3				SST & SH INBD, SST ARG, OCC SL CALC, GR-GR BRN, VFG, TH-NOD BDD WI EQUAL INBDS DK GR SH.	
						4					
						5					
				6				DK GR, BRN, TH-M BDD, WI FW DK GR SH INBDS, GR & BRN PLTY WTHD.			
				7				OCC SL CALC, DK GR, WI FW INBDS GR BRN, VFG SST, THK BDD, GR-GR BRN WTHD.			
				8							
				9				DK GR, THK-NON BDD, FW MINOR TH INBDS DK GR ARG SLTST OR SST (5%), DK GR-GR BRN WTHD.			
						4070					
						1					
						2					

DRG. No. G-1592/27

REPORT No. G.R. 99

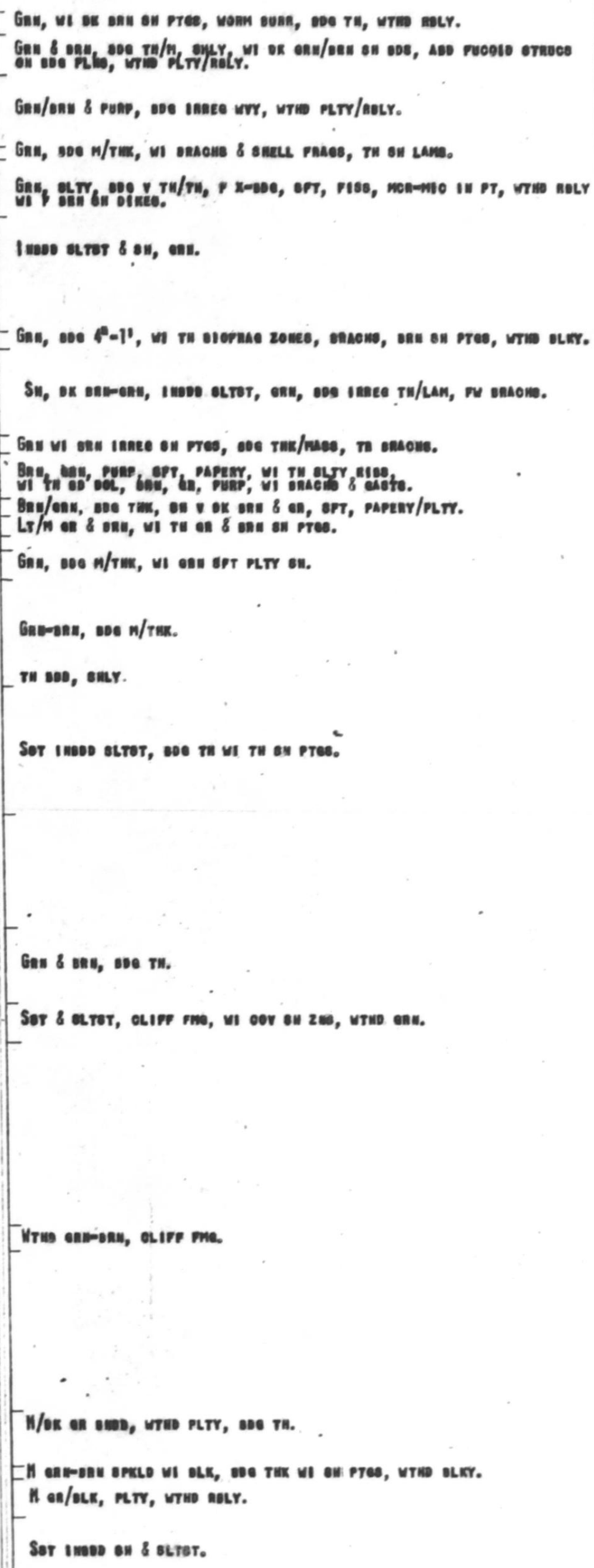
PARTY No. 24

LONGITUDE 127° 51' 00" W

AUTHOR: PEMBERTON & SPRATT

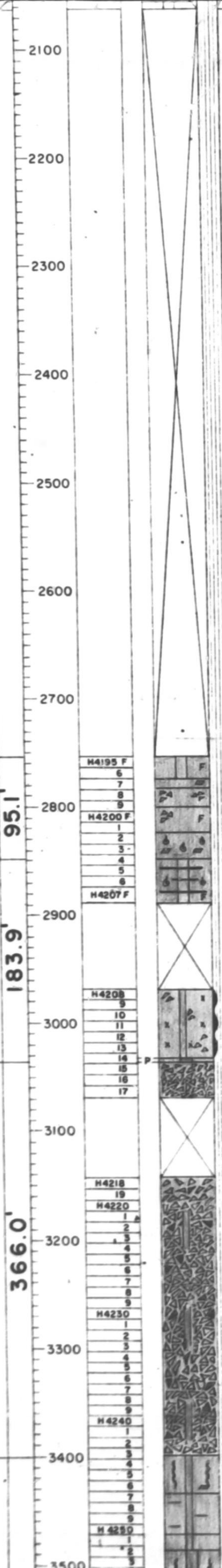
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2062.0 +



M I D D L E D E V O N I A N ?

BEAR ROCK FM. HUME FM. UPPER 95.1' MIDDLE & LOWER 183.9' HARE INDIAN & CANOL FM.



H/OK BRN, OA INCL, WI CORALS (COL), SSS THK/MASS, WTHD M GR-BRN, CLIFF FMO.

LT/M BRN WI OA, SSS 6'-4'.

LT/M BRN WI OA INF BREC.

H BRN WI BASTO, CUP CORALS, BRYOZOA, SCAT CA, SSS MASS, WTHD GR & RUSTY BRN.

H/OK BRN, POSS FRAGS, SL BREC WI P SSS, CA INF, WTHD GR & RUSTY BRN, CAV.

H/OK BRN, POSS FRAGS, CUP & CHAIN CORALS, BRYOZOA, SSS M/THK, WI BK BRN BIT ON STR.

LT/M BRN/OK GR, SCAT SPAR CA, MASS SSS/P SSS, SM VUGS.

EARTHY, LT GR SPAR, TR MOD-VUG POR, CRD WH CA VUG, WTHD SF.

LT/M GR & BRN, EARTHY IN PT, P SSS, FHT SUL ODGR, WTHD CAV.

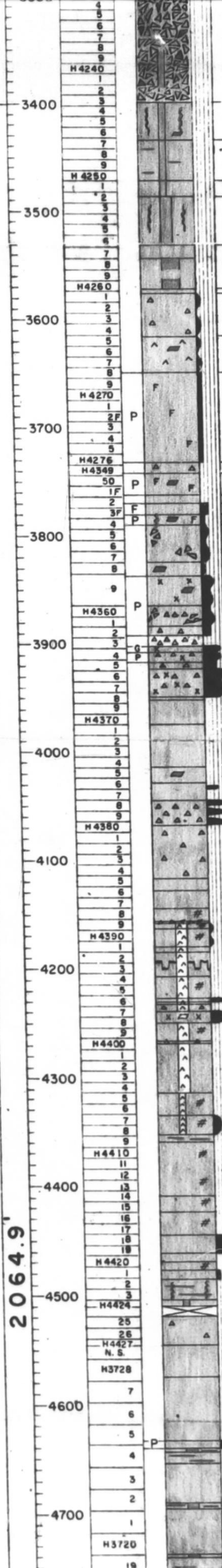
LOT BREC, M GR-BRN & BK GR & BK BRN, WI DOL, M BRN FRAGS, SSS V ORSLY BREC, MASS, WTHD M GR & BRN, SCAT VUGS, CAV.

LT/M BRN, MOTT, SSS M/MASS, REGIST.

LT/M BRN, MOTT, VUGGY, MASS, WI ARG STRKS.

LESS VUGGY.

BEAVER 2 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 2064.9 8 ANGL SILURIP GROUP



LT/M BRN, MOTT, SDG M/MASS, REGIST.

LT/M BRN, MOTT, VUGGY, MASS, WI ARG STRKS.

LESS VUGGY.

M BRN, MASS, WTHD LT GR, SOLY, CLIFF PTH.

LT GR & BRN, SDG 4th-10th, SOME MASS, WTHD LT GR, SOLY, GRV.

M GR-BRN, 1st-6th SDG, WTHD BLKY.

LT/M BRN, SL MOTT, SOAT VUGS, LT BRN ON.

LT/M BRN WI GRG QTZ & DOL MASS.

SL SUC, P IN-X FOR, PM VUGS, CUP CORALS P PRES, MASS.

M BRN WI NOD ON, WH, MASS.

M BRN, SOAT VUG FOR, SOAT DOL CORALS, MASS, WTHD M BRN, CHKY.

VUGGY SOL.

SUC, M BRN, P IN-X FOR, VUGGY, MASS, CAV.

M BRN, TR IN-X FOR, VUGGY, WI CORALS, SL BRG WI CA.

LT BRN BRG WI BK GR INCL, VUGGY, SDG MASS.

LT BRN, VUGGY, SDG M/THK, WTHD LT BRN MOTT, BLKY.

M GR-BRN, VUGS CA INF.

M GR-BRN, WH & GR ON, TR VUG FOR & IN-X FOR, SDG IRREG, BRG.

M GR-BRN, THK SDG, WI NODS & LENS ON, VUGGY AT BASE.

LT GR/WH, MASS, SDG.

LT/M BRN WI GR, SDG MASS.

M BRN, THK SDG, WI TH PTH ON, LT GR.

LT GR & BRN WI PTH XLS, SDG, SDG 6th.

LT GR/BRN, MASS, SDG.

BF, P SDG-M/THK, TR VUGS, VF, WTHD BRN, BLKY.

M BRN WI DOL PTONG, SDG THK.

CRYPTO-MX IN IRREG ZONES, SDG THK.

M BRN & GR-BRN WI GRN SPKLS ON, SDG M/THK.

BF, GR, LT GRN, S-LITH, SDG 4th-1st, PM ON PTONG, LENSES, WTHD LT GR, BLKY.

CRYPTO-X, VUGGY, SDG THK, WTHD BF, BLKY.

LT/M BRN & GR, CX SPAN CA ZONES, SDG M, WTHD LT BRN, BLKY.

BRG, LT GR & M GRN, MASS.

LT/M GR, SIL, SDG THK IRREG.

OK GR-BRN, SIL, SDG THK.

LT GR, SDG, SIL, WI STYLS, WTHD LT GR, BLKY.

LT GR, BRN, BRN, SDG M/THK.

BRN, SDG THK.

LT/M BRN, SIL, ARG STRKS.

LT/M BRN, SDG MASS & THK IN FT, WI WH DOL PTONG.

WI WH ON, TR SDG, SOLY.

LT/M BRN, SIL IN PTONG, SPAN DOL, WH, SDG M/THK, WTHD BLKY.

M BRN, SL SIL, SDG THK, WTHD LT BRN, BLKY.

M BRN & GR, SDG THK.

LT GRN, SDG 4th-5th, WI TH ARG STRKS.

LT/M BRN, SDG THK, WTHD GR-BRN, BLKY.

MOTT LT/M BRN & BRN, PM VUGS, SDG MASS.

CRYPTO-MOR-X WI SOAT VUGS, SDG MASS, WTHD BRN, BLKY.

BRN & GRN, THK SDG.

BRN, GR, BRN, PURP MOTT, SDG THK, WTHD BLKY.

M BRN, GR, PURP, GRN MOTT, SDG THK.

M BRN, MASS, WH DOL PTONG.

M BRN, GRN, GR, TR ON LENS, SDG THK/MASS, WTHD BF, BLKY.

LT GR/WH, SDG 6th-5th, WTHD BF, BLKY.

LT GR/WH, SDG 1st-4th, WTHD BF & LT GR, BLKY.

BRN, THK SDG, WI P M/GR VUGGY FOR, WTHD RUST, BRN.

LT GR/WH, WI PM GRN ON PTONG, SDG 6th-4th, WTHD BF, BLKY.

LT GR/WH, SDG 6th-4th, WTHD BF, BLKY.

SOLY, GR-BRN, WI GRN DOL GR, SDG M/TH, WTHD GR-BRN.

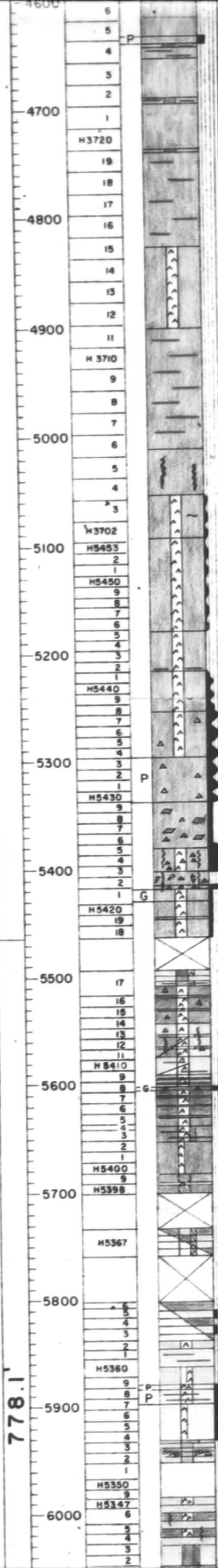
LT GR/WH, SDG 6th-3th, WTHD LT GR, LEACHER VUGS.

GR-BRN, SDG TH, WTHD GRN, PLTY.

BIGHORNIA SP. PARVA DUNCAN
 ? STREPTELAGMA SP.
 CATENIPORA SP. AFF. C. RUBRA SINCLAIR & BOLTON
 (LATE ORD)

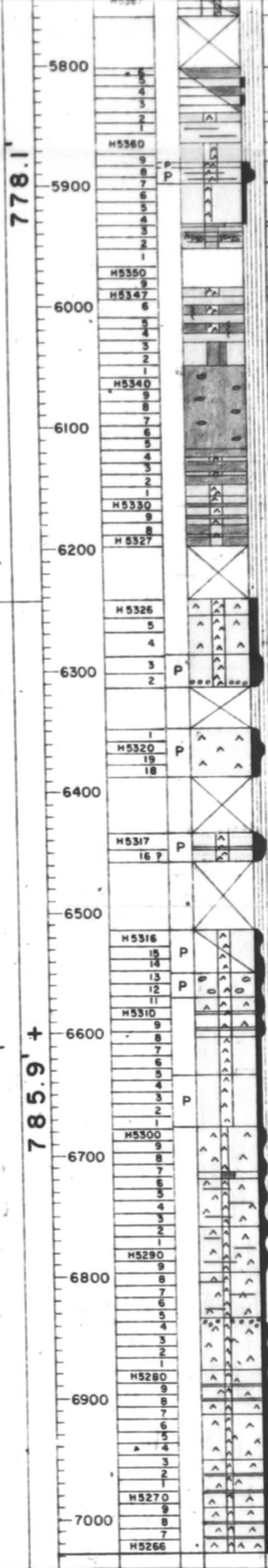
? STREPTELAGMA SP.
 CATENIPORA SP. AFF. C. RUBRA SINCLAIR & BOLTON
 (LATE ORD)

AN ORDOVICIAN GROUP



BRN. THE 800, WI P M/GR VUGGY POR, WTHD RUST, BRN.
 ARG. GRN-GR, WI P M/GR VUGGY POR, WTHD RUST, BRN.
 LT GR/VH WI GRN SOL SH, 800 6'-4", WTHD SF, SLKY.
 LT GR/VH, 800 6'-4", WTHD SF, SLKY.
 SHLY, GR-GRN, WI GRN SOL SH, 800 M/TH, WTHD GR-GRN.
 LT GR/VH, 800 6'-3", WTHD LT GR, LEACHED VUGG.
 GR-GRN, 800 TH, WTHD GRN, PLTY.
 LT GR/VH, 800 8'-3", WI GRN SH PTGS, WTHD SF, SLKY.
 LT GR/VH, 800 10'/MASS, WTHD LT GR SF, MASS.
 LT GR/VH, 800 1'-5", WI GRN SOL SH PTGS.
 LT GR/VH, 800 1'-5", WTHD SF & GR, SLKY.
 LT GR/VH, SIL, 800 THK/MASS, FW GRN VUGG, WTHD MASS/PLTY, GR-GRN.
 LT/M GRN & GR, SIL, 800 6'-1", WTHD TH, WI GRN SIL SH, WTHD GR-GRN.
 LT GRN, NO, 800 6'-1" INREG, WTHD TH, SLKY.
 LT & M GRN, SIL, NO, CHTY IN PT, 800 6'-1", WTHD M GRN, NKLY/SLKY.
 LT & M GR-GRN, 800 6'-1", INREG, CHTY IN PT, WTHD LT & M GRN, SLKY.
 M GR-GRN WI GR CA, 800 6'-1" REG, WTHD TH & M GRN, SLKY.
 M GRN, NO, SIL/CHTY, 800 P INREG, LOC SREG OF CHTY SOL & CA.
 DK GR-GRN, CHTY, SREG, 800 MASS DISTORT, WTHD M GRN, NKLY, AND CA VUG.
 LT GR, V CHTY, 800 MASS, CA VUG, WTHD TH & LT GR, NKLY.
 M GR-GRN, SIL, NO, 800 1'-1" REG, WTHD TH WI GRN SOL SH PTGS, GR VUG POR.
 M GR-GRN, CLN, NO, SIL, 800 6'-1", WTHD TH, SLKY, WI GR GR SLTY SOL GRN.
 DK GR-GRN, NO, SIL, 800 1", WTHD M GR.
 LT GR-GRN & LT GR, VARIED WI GR GR SH PTGS, FISS, 800 1'-3", WTHD LT GR.
 DK GR-GRN, SIL/V CHTY, NO, 800 4'-6", INREG SH, SIL, NO, 800 1".
 LT/M GRN & DK GR-GRN, SIL, V NO, VF SREG, 800 2'-1", WTHD M GR, INREG SH, DK GR, FISS/PLTY.
 DK GRN-GR, SIL, V NO, 800 2'-1" REG, WTHD M GRN-GR, INREG SH.
 SH, GR GRN, SIL, 800 1'-2", WI NO SH & SST, VFG, FRI, S-A, P SST.
 BLK AND PTH, CHTY, WI P/GR SST, GR IN-S POR.
 DK GR GRN, SIL, NO, 800 1'-4", INREG INST, SLK, WI NO SH, WTHD GRN, TH.
 GR-GRN, NO, SIL, WI 1" SANDS FIBROUS GYP WI GR GR & NO SH.
 INREG NO & GRN, SIL & NO GR PT, PAPERY/FISS IN PT, 800 1/8"-1/2", WTHD NO, GRN, GR, TH, NKLY.
 GR-GRN, FRI, 1" 800, WI GYP, FIB, WTHD LT GRN & GR-GRN, WI SLTST, SIL, NO, WTHD TH.
 SH, M GR, FRI, WI GYP, INREG SLTST & SST, M GR, FRI/FRI.
 SH, TH & GRN, CHLY/SLTY, INREG WI SST & QZITE, RUST GRN WI IRON IMPURITIES, 800 1'-4", WTHD TH & RUST.
 M GR, NO, WI JNTS INF WI SIL GRN, 800 4" INREG, WTHD GRN & GRN.
 DK GR/SLK, NO, 800 2'-4", WTHD DK GR, SLKY.
 M/GR GR, FRI/NO, WI GR SILICA, LT GR QZITE SREG, 800 4", WTHD GRN.
 M GR & GRN, QZITE, WI SOAT WI SIL MASSES, 800 4'-1", WTHD LT/M GR & GRN PITTED, MASS.
 LT & M GR SREG & MOTT, NO, QZITE IN PT, 800 2'-10" REG, WI PTGS.
 GRN & SLK GR CHLY, WTHD LT/M GRN & RUST, SLKY.
 GR & GR SREG, QZITE, NO, 800 4" REG, WTHD PK & GR, RESIST.
 NO, SFT/FRI, 800 4'-2", WI FAULT SREGIA, GRN.
 VARICOL, CHLY, 800 1/8", WTHD VARICOL, REGESS.
 LT NO/PK, V NO, 800 6'-1", WTHD LT/DK NO, MASS, SOAT SILICA, LOC PLTY.
 SLTST, DK GR/SLK, V NO, 800 6'-1", WTHD TH, SLKY.
 INREG GR, SIL, DK GR/SLK, NO, WI SILICA VUG, WTHD DK GR & GRN.
 M GR WI DK GR STREG, SHLY/FRI, WTHD TH & NO-GRN.

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SH, TH & GRN, ORSLY/SLTY, INHDD WI SST & QZITE, RUST GRN WI IRON IMPURITIES, SDG 2nd-4th, WTHD TH & RUST.

M GR, HD, WI JNTH INF WI SIL CEM, SDG 4th INREG, WTHD GRN & GRN.
DK GR/BLK, HD, SDG 2nd-4th, WTHD DK GR, SLKY.

M/GR GR, FRM/HD, WI WH SILICA, LT GR QZITE SDG, SDG 4th, WTHD GRN
M GR & GRN, QZITE, WI SCAT WH SIL MASSES, SDG 4th-1st, WTHD LT/M GR & GRN, PITTED, MASS.
LT & M GR SDG & MOTT, HD, QZITE IN PT, SDG 2nd-10th REG, WI PTSD
GRN & BLK GR, CHSLY, WTHD LT/M GRN & RUST, SLKY.
M GR & GR SDG, QZITE, HD, SDG 4th REG, WTHD PK & GR, REGIST.
HD, SFT/FRM, SDG 4th-2nd,
WI FAULT BRUCIA, ORG.

VARIOL, GRSLY, SDG 1/8th, WTHD VARIOL, RECESS.

LT RD/PK, V HD, SDG 6th-1st, WTHD LT/DK RD, MASS, SCAT SILICA, LOC FLT.

SLTST, DK GR/BLK, V HD, SDG 6th-1st, WTHD TH, SLKY.
INHDD GR, SIL, DK GR/BLK, HD, WI SILICA VHS, WTHD DK GR & GRN.

M GR WI DK GR STNDS, SHLY/FRM, WTHD TH & RD-GRN.

PAPERY, DK GR & 1/2nd BLK FRM, WI IRST, BLK, WTHD RUST-GRN & DK GR.

DK GR, PAPERY, ORSLY, SDG 1/10th, WTHD DK GR, RECESS.
WI QZITE SLTST, SDG 1st-4th, INREG WY, WTHD M RUST GRN, SHLY/PLTY.

M GR, HD, SDG 1st-6th, WTHD M GRN, PLTY, INHDD DK GR PAPERY GR.

M GRN-GR, SLTY, FRM, SDG 1st-1st, INHDD DK GR PAPERY GR 1/8th,
WTHD M GRN & DK GR, WI SHD QZITE SLTST.

QZITE SDT/QZITE, LT GR/CLN, F SRTS, SA/GR, SDG 4th-2nd REG,
WTHD DEEP RD-GRN & DK GR.

QZITE SDT, LT GR/CLN, SIL CEM, F IN-GR FOR, SA/GR, SDG 4th-3rd INREG,
WTHD TH/RUST, SLKY/MASS, WI TH SHD QZ POL OUL.

QZITE, LT GR/CLN & TH, SPKLD DK GR IN PT, WI IRON IMPURITIES,
SA, F SRTS, F IN-GR FOR, WELL CEM WI SIL CEM, SDG 2nd-1st INREG,
WTHD LT/M GRN, SLKY/PLTY, WI INHDD GR, VARIOL SDG, FISS, SCAT
RPLE MARKS.

LT GR, LT & M GRN, SIL CEM, F SRTS, GR, F IN-GR FOR, SPKLD DK GR
IN PT, WI TH SHD SLTST, QZITE, WI QZ GRN.

VARIOL (TH, LT GR, GR, GRN), SDG 4th-1st INREG, X-SDG, LENSES,
WTHD TH, M GR, PLTY/SLKY.

TH, F SRT, GR, SDG 2nd-2nd, WTHD TH & DK RD-GRN, WI RD-GRN CONG CRCS
IN PT, SCAT CLAYSTH & SLTST SDG.

LT/M GRN, F SRT, GR, SDG 2nd-4th, WI TH SDG QZ SLTST, WTHD LT/M GRN,
SLKY.

LT/M GRN, SDG 6th-2nd, WTHD LT GRN, SLKY.

LT GRN, SDG 2nd, V F IN-GR FOR, WI CONG CRCS, RD-GRN.

LT GRN, SIL CEM, GR, F SRTS, SDG 3rd-2nd, X-SDG,
WI SOL QZITE, WTHD DK GR & TH SPKLD.

TH, GR-GRN, GRN-GR, GR, F SRTS, 1st-2nd SDG, WTHD LT GRN & GR,
WI GR PTSD, GRN-GR, FISS, MICACEOUS.

TH, M GR, SIL CEM, VF SDG IN PT, SDG 2nd-1st INREG, LENSES & X-SDG,
RPLE MARKS, WI POL OUL AT TOP.

LT/M GRN, SIL CEM, F SRTS, 2nd-1st INREG SDG, LENSES & X-SDG,
WTHD LT/M GR-GRN, SLKY/SLKY, WI INHDD GR, GRN-GRN, MICACEOUS, SLTY, FISS.

LT GRN-TH, SIL, F SRTS, R, SDG 2nd-2nd, WTHD M GRN, SLKY,
WI CONG CRCS OF RD-GRN.

QZITE, FG, LT GR, GRN & CLN, WELL CEM SIL CEM, F SRTS, GR/R,
SDG 2nd-2nd, X-SDG IN PT, WTHD SF & RD-GRN, MASS/PLTY,
WI GR, LT GRN-GRN, SLTY, FISS, MICA, TH SDG, WTHD GRN-GRN.

TRIAD OIL CO. LTD.

DRG. No. G-1592/28

SECTION 24 - 28

REPORT No. G. R. 99

LOCATION: GROTTO CREEK

PARTY No. 24

MAP REFERENCE:

LATITUDE 64° 46' 40" N.

LONGITUDE 126° 49' 00" W.

DATE: 26th. AUGUST, 1961.

SCALE: 1" = 100'

AUTHOR: E. O'BERTOS

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG	CHY. GRN or FINE SIZE	LITHOLOGY	PALAEONTOLOGY
					H 3439				GRN, MAUVE, OR 1/2-1' SSS, MIC, WI GRN SH PTGS (5%), GRN, GR & MAUVE PLTY WTHD, BRACHS.	
					40F					
					41					
					42				GRN OR WI INDS & PTGS GRN FISS SH (30%), GRN GR PLTY WTHD.	
					43F					
					44F				GRN & MAUVE, MIC, 1/2-1' SSS, WI GRN SH PTGS, GRN & MAUVE PLTY WTHD.	
					45				SST & SH INDS (50-50), SST GRN GR-GRN MIC WI INDS & PTGS GRN GR SH, GRN GR PLTY & FLKY WTHD.	
					46					
					47				GRN, TH SSS, WI INDS & PTGS GRN SH (40%), GRN & MAUVE PLTY WTHD.	
					48					
					49					
					3450					
					51				SST & SH INDS, SST GRN 1/2-4' SSS, INDS WI GRN FISS SH (30%), GRN & MAUVE PLTY & FLKY WTHD, RIPPLE MARKS.	
					52					
					53					
					54					
					55					
					56					
					57					
					58				SST & SH INDS, SST GRN & MAUVE WI INDS & PTGS (30%) GRN FISS SH, SCAT MICA, GRN & MAUVE PLTY & FLKY WTHD.	
					59					
					3460					
					61				GRN, TH 1/2-1' SSS WI PW SH PTGS, GRN & MAUVE WTHD.	
					62					
					63					
					64					
					65				SST & SH INDS, SST GRN, GR, GRDG TO SLTST, TH SSS, WI PTGS & INDS GRN GR FISS SH, GRN GR PLTY & FLKY WTHD.	
					66					
					67					
					68				SH, GR, FISS, WI PW TH INDS GRN ARG SLTST & VFG SST, GRN GR WTHD.	
					69					
					3470				GRN-GRN GR, TH SSS, WI PTGS GRN GR SH, SCAT MICA, GRN GR WTHD.	
					71					
					72				GRN, TH SSS, GRN PLTY WTHD.	
					73					
					74				GR GRN, FISS, WI INDS GRN ARG SST TO 1' (10%), ONE CALC SST SS WI CORALS, BRACHS, BRYOZOA.	
					75F					
					76				GRN, TH SSS, WI PW PTGS GRN SH, TH MICA, GRN & MAUVE THK PLTY WTHD.	
					77					
					78					
					79				GRN GR, TH 1/2-2' SSS WI PTGS & INDS GRN GR SH (20%), SCAT MICA.	
					3480					
					81				GRN, 1/2-6' SSS, P INDS FOR, GRN GR TH BLKY & PLTY WTHD.	
					82					
					83				SST AS AB, SL ARG.	
					84					
					85					
					86				GRN GR FISS-TH SSS, WI PW ARG SST LENSES.	
					87				GRN, TH SSS, WI PTGS & INDS GRN GR SH, GRN GR & GRN PLTY WTHD.	
					88					
					89				GRN GR TH SSS, GRN GR & GRN PLTY WTHD.	
					3490				GRN GR, 4'-2' SSS, GRN WTHD.	
					91					
					92				GRN GR TH SSS, GRN GR & GRN WTHD.	
					93				GRN GR & GRN, THK SSS, GRN WTHD, PW FOSS.	
					94					
					95					
					96				SH & SST INDS 50-50, SH GRN GR WI INDS & LENSES ARG GRN VFG SST, ALL GR & GRN WTHD.	
					97					
					98					
					99				GRN GR, TH SSS, WI PW PTGS & INDS GRN GR SH, GRN GR THK PLTY WTHD.	
					3500					
					01					
					02				GRN-GRN GR, M-THK SSS, 4'-4' WI MINOR GRN SH PTGS, GRN BLKY WTHD.	
					03					
					04				GRN, GRDG TO SST SH, TH SSS, WI GRN SH INDS & PTGS (40%).	
					05					
					06				GRN GR-GR, 4'-1' SSS, PW GRN SH PTGS, GRN GR BLKY WTHD.	
					07					
					08					
					09				GRDG TO SST SH, GRN GR, TH SSS-FISS, SCAT MICA, FLKY & PLTY GRN GR WTHD.	

U P P E

IMPERIAL F.M.

DEVONIAN

INDIAN F.M.

1315.0+

528.5+

900	06
	07
	08
	09
	3510
1000	11
	12
	13
	14
1100	15
	16
	17
	18
1200	19
	3520
	21
	22
	23
1300	24
1400	
1500	
1600	
1700	
1800	
1900	
	3525
	26
	27
2000	28
	29
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	31
	32
	33
	34
	35
	36
	37
2100	38
	39
	3540
	41
	42
	43
	44
	45
	46
	47
	48
2200	49
	3550
	51
	52
	53
	54
	55
	56
2300	57
	58
	59



GRN GR-GR, 4th-1st SSS, FW GRN SH FTGS, GRN GR BLKY WTHD.

GRG TO SBY SH, GRN GR, TH SSS-FISS, SCAT MIC, FLKY & PLTY GRN GR WTHD.

GRN GR, THK SSS, WI MINOR INSS GRN CALC VFG SST, FW GRN 1ST NOD, GRN GR LOOSE WTHD.

FISS, GRN GR, WI SCAT SMALL CONC GRN MUD-1ST, GRN GR & GRN FLKY WTHD.

PT FISS, GRN GR, WI FW MINOR LENSES & STGS GR ARG VFG SST (5%), GRN GR FLKY & TH PLTY WTHD.

FISS, BK GR-BLK, WI FW ND BANDS, BLK & GRN FLKY WTHD.

FISS, BLK, WI TWO 4th BANDS OIL STND SLTY GR WI PET ODOR.

BLK, FISS-TH SSS, OCC PET ODOR, BLK & GRN WTHD.

PET, BLK, ND, LENSING, SD PET ODOR.

BLK, FISS-TH SSS, BRITTLE, BLK & GRN TH PLTY & FLKY WTHD.

PET, BLK, ND, SD PET ODOR, BLK BLKY WTHD.

BLK, TH SSS-FISS, ND & BRITTLE, BLK & GRN PLTY WTHD.

PET, BLK, THK SSS, SD PET ODOR, BK GR & GRN WTHD.

BLK, FISS-TH SSS, WI SCAT NOD TO 1st PET GR PYR LST.

BLK, TH SSS, PT BIT OR PET, PYR POCKETS, YELL SUL, BLK & GRN WTHD.

BIT, BLK, THK SSS, WI FW SCAT PYRITIC NOD, BLK & GRN WTHD.

SH AS AS, PT FISS.

BLK, FISS-TH SSS WI TH INSS PET SH WI SD PET ODOR.

MIDDLE DEVONIAN

HARE INDIAN FM.

HUME FM.

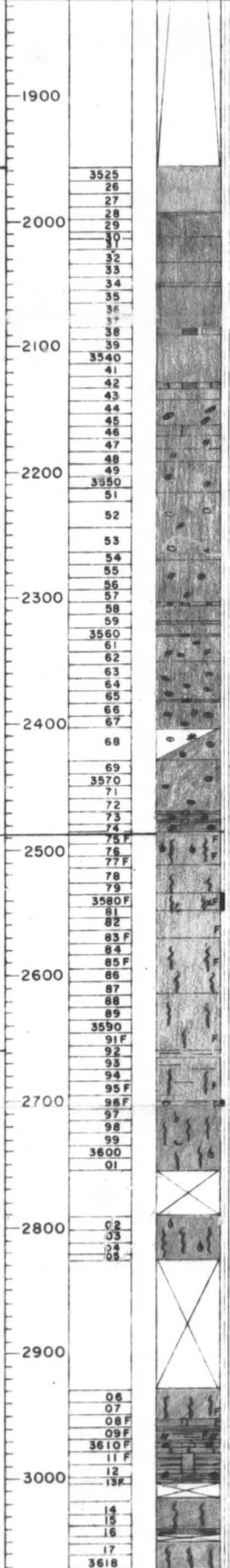
UPPER

MIDDLE & LOWER

528.5'

172.7'

413.5'



FISS, BK GR-BLK, WI PW ND SANDS, BLK & BRN FLKY WTHD.

FISS, BLK, WI TWO 4th SANDS OIL STND SLTY SH WI PET ODOR.

BLK, FISS-TH SDD, OCC PET ODOR, BLK & BRN WTHD.

PET, BLK, ND, LENSING, SD PET ODOR.

BLK, FISS-TH SDD, BRITTLE, BLK & BRN TH PLTY & FLKY WTHD.

PET, BLK, ND, SD PET ODOR, BLK BLKY WTHD.

BLK, TH SDD-FISS, ND & BRITTLE, BLK & BRN PLTY WTHD.

PET, BLK, THK SDD, SD PET ODOR, BK GR & BRN WTHD.

BLK, FISS-TH SDD, WI SCAT NOD TO 1st PET GR PYR LST.

BLK, TH SDD, PT BIT OR PET, PYR POCKETS, YELL SUL, BLK & BRN WTHD.

BIT, BLK, THK SDD, WI PW SCAT PYRITIC NOD, BLK & BRN WTHD.

SH AS AB, PT FISS.

BLK, FISS-TH SDD WI TH INDDS PET SH WI SD PET ODOR.

FISS-PLTY, BLK, WI NOD OR MCR-X LST WI PET ODOR, BLK & BRN PLTY & FLKY WTHD.

PET, BLK, PET ODOR.

BIT, BLK, FISS-TH PLTY WI NODS & LENSES TO 1st OR MCR-X PET LST, PET ODOR IN LST NOD, PYR, BLK & BRN WTHD.

BIT, FISS, BLK, WI INDDS BK GR ARE MCR-X LST & NOD, SD PET & SULPH ODOR IN LST.

LT GR-GR BRN, MCR-X, WI 10% FOSS FRAG, GR SF WTHD, CLIFF FORM, BRACHS, CORALS, GASTROPODS.

GR-BRN, MCR-X, SDD, V THK 5th-10th SDD, SF MASS WTHD, CLIFF FORM.

BRN, MCR-VFX, THK 5th-10th SDD INDISTINCT, SF WTHD, CORALS.

BRN, MCR-X, V THK INDISTINCT SDD, SF MASS WTHD, CLIFF FORM, PW CORALS.

BRN, MCR-X, 6th-3rd SDD, DMS WI PTGS OR CALC SH, GR SF IRREG WTHD, CORALS.

PT NOD, GR, VFX, WI PTGS & INDDS OR CALC SH.

BRN, MCR-X, WI SCAT FOSS FRAGS, SF & BRN BLKY WTHD.

BIONICRITE, BRN, 1st-3rd SDD, SF & BRN BLKY WTHD.

BRN-GR BRN, M-THK IRREG SDD, SF & BRN IRREG WTHD, TRILOBITES, BRACHS.

M GR WI IRREG LENSES, NODS & INDDS OR MCR-X LST (30%), ADD BRACHS.

LST, LT GR, MCR-CRYPTO-X, TH SDD, INDD WI GR SH (50%), BRACHS, CORALS, BRYOZOA.

M GR WI LENSES & INDDS TO 4th OR MCR-X LST (20%), M GR SFT WTHD, BRACHS.

SH & LST INDD 50-50, SH GR CALC WI LENSES & NOD OR MCR-X LST.

GR BRN, MCR-X, 2nd-6th SDD, CA EYES, GLESS, VMS, GR SF BLKY WTHD.

AS AB WI SH PTGS.

GR BRN, MCR-X, DMS, 2nd-10th SDD, GR SF BLKY WTHD, CLIFF FORM.

DRG No G-1592/29

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 126°49' 00" W

SCALE: 1" = 100'

AUTHOR: Spratt & Pemberton

[illegible]

DRG. No G- 1592/30

REPORT No. G. R. 99

PARTY No. 24

LONGITUDE 125° 34' 30" W.

AUTHOR: E. O'BERTOS

TIME LOG		MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO	POROSITY	GRAPHIC LOG	CHY. JRN OF FRACTION	LITHOLOGY	PALAEONTOLOGY
										BRN-GR BRN, DNS, 8"-4" SDS, CA VNS, STRGS, LT GR BLKY & HKLY WTHD, SL PET ODOR.	
										BRN, M-THE 6"-2" SDS, IRREG CA VNS, STRGS & BLEBS, LT GR-GR BF HKLY WTHD.	
										GR-GR BRN, DNS, 6"-2" SDS, CA VNS, STRGS, GR-GR BF RBLY & PLTY WTHD.	
										DK GR-GR BRN, PLTY WI PTGS DK GR CALC SH, DK GR TH PLTY WTHD.	
										GR BRN-GRN, 4"-1" SDS, CA AS AB, BF RBLY & PLTY WTHD.	
										DK GR, M-TN SDS, DULL GR-GR BF WTHD.	
										BRN-GR, DNS, 2"-8" SDS, CA, LT GR-GR BF RBLY WTHD.	
										DK BRN, S-LITH, WI PTGS DK GR CALC SH AT BASE, GR RBLY WTHD.	
										ARG TO SHLY, GR, M-TN SDS WI GR SH PTGS, RECESSIVE.	
										GR BF, BRN, 2"-4" SDS, CA VNS, STRGS, LT GR & BF BLKY & RBLY WTHD.	
										BF, DK GR, TH SDS, GR BF-BRN WTHD.	
										DOL & LST, LT GR-GR BF WI 10% CA MTX, FRAGS TO 1", GR BF IRREG WTHD.	
										LST & DOL, ANG FRAGS BRN, GR & FAWN TO 2", CA VNS, INCLS, STRGS, PYROBIT.	
										LST, GR BRN, FRAGS TO 3", 5% CA MTX.	
										AS AB WI P POR, OIL STNS.	
										BRECCIA LST, GR BRN-BRN, FRAGS TO 2", LTL OR NO MTX, NO SDS, CA VNS & STRGS, FW PIECES GR CH, LT GR-GR BF MASS IRREG WTHD.	
										ANG & IRREG FRAGS OF LST (80%) & DOL (20%) TO 2", FW PIECES DK GR ON, P VUG POR.	
										IRREG FRAGS TO 3" GR BRN-MCH-LST (80%) & DOL (20%)	

DE V O N I A N

HUME FM.

M I D D L E

BEAR ROCK FM.

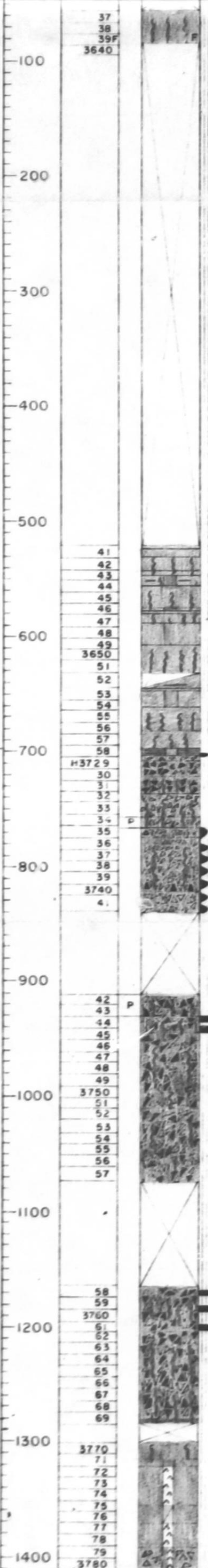
ORD-S.L.

RONNING

699.0' +

584.1'

130.7' +



BRN, M-TN 6"-2" SDS, IRREG CA VNS, STROS & BLESS, LT GR-GR SF HKLY WTHD.

GR-GR BRN, DNS, 6"-2" SDS, CA VNS, STROS, GR-GR SF HKLY & PLTY WTHD.
DK GR-GR BRN, PLTY W/ PTGS DK GR CALC SH, DK GR TH PLTY WTHD.
GR BRN-GRN, 4"-1" SDS, CA AS AS, SF HKLY & PLTY WTHD.

DK GR, M-TN SDS, DULL GR-GR SF WTHD.

BRN-GR, DNS, 2"-8" SDS, CA, LT GR-GR SF HKLY WTHD.

DK BRN, S-LITH, W/ PTGS DK GR CALC SH AT BASE, GR HKLY WTHD.
ARG TO SHLY, GR, M-TN SDS W/ GR SH PTGS, RECESSIVE.

GR SF, BRN, 2"-4" SDS, CA VNS, STROS, LT GR & SF BLKY & HKLY WTHD.

BF, DK GR, TH SDS, GR SF-BRN WTHD.
DOL & LST, LT GR-GR-SF W/ 10% CA MTX, FRAGS TO 1", GR SF IRREG WTHD.
LST & DOL, ARG FRAGS BRN, GR & FAWN TO 2", CA VNS, INCLS, STROS, PYROBIT.
LST, GR BRN, FRAGS TO 3", 5% CA MTX.
AS AS W/ P FOR, OIL STNS.

BRECCIA LST, GR BRN-BRN, FRAGS TO 2", LTL OR NO MTX, NO SDS, CA VNS & STROS, FW PIECES GR CH, LT GR-GR SF MASS IRREG WTHD.

ARG & IRREG FRAGS OF LST (80%) & DOL (20%) TO 2", FW PIECES DK GR CH, P VUG FOR.

IRREG FRAGS TO 3" GR BRN MCR-X LST (80%) & DOL (20%), V LITTLE TO NO MTX, LT GR-SF CAV WTHD.

PIECES LT GR LST & DK GR DOL TO 3", OCC ADD CX CA AS MTX, STROS ETC., LT GR-GR SF IRREG & CAV WTHD.

FRAGS LT GR MCR-X LST TO 4" W/ FW PIECES GR DNS DOL, CA AS, CRD XLS, INCLS & STROS, LT GR SF CAV WTHD.

LT-M GR, 3"-8" SDS, CA VNS, FAWN WTHD.

LT GR, 8"-2" SDS, SF & FAWN BLKY WTHD.
GR-GR, ARG.

SIL, LT GR, 6"-3" SDS, DNS & ND, GR SF & FAWN BLKY WTHD.

GR-SF, THK SDS, SF WTHD.

LT GR-GR SF, THK SDS TO 5", SF & FAWN BLKY WTHD.

LT GR, PK & ND, OCC SL BRECC, OCC ARG, SF, PK & ND WTHD.

DRG. No. G-1592/31

REPORT No. GR.-99

PARTY No. 24

LONGITUDE 125° 39' 15"

SCALE: 1" = 100'

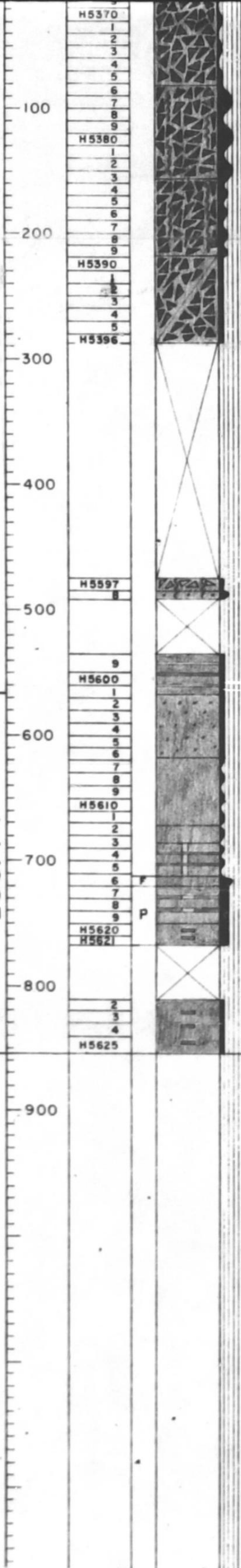
AUTHOR: L. M. SPRATT

1 of

ORD. & SIL. MIDDLE DEVONIAN
RONNING GROUP BEAR ROCK FM.

567.5' +

286.4' +



LST BREC, MCR-XLNE/VF XLNE, & SLTY DOL, M GR-BRN, 1/2" BDC.
MCR-XLNE/VF XLNE, & SLTY DOL, M GR-BRN, 1/2" BDC.
BDC MASS, EXTENSIVE WTNG, ROLY, PITTED, LT GR, PETID ODOR.

LST BREC, F/M XLNE, M BRN, ADD SPAR CA, VF/F XLNE,
WI DOL, SLTY, VF XLNE, M BRN WI DK GR-BRN FRGS 2" X 1",
BDC MASS, WTNG LT GR, ROLY, PITTED, PETID ODOR.

LST BREC, MCR-XLNE/VF/F XLNE, M/DK GR & BRN, WI INCL DOL,
M GR-BRN, VF XLNE, SLTY, FRGS 4" X 8".
BDC MASS, WTNG LT GR, PITTED, ROLY, PETID ODOR.

LST BREC, VF XLNE, M BRN LST WI CRG FRGS DOL, M/DK BRN, CRYPTO-XLNE,
BDC MASS, WTNG LT GR, PITTED, ROLY.

LST BREC, VF XLNE, M/DK BRN, BDC MASS, DISTRD, WTNG M GR, PITTED, GRVD.
LST, VF/F XLNE, SL SUC, M BRN, BDC 2-6" REG, WTNG LT GR, PITTED, GRVD.

M GR CLAY & SLT BDCS, FRI IN PT, BDC 1/2"-4", WTNG TAN & GR.

LT/M BRN BDC RD & LT GR AT TOP, BDC 1/2"-2" & 1", WTNG LT BRN,
PITTED, ROLY.

LT GR & GR-BRN, BDC 1" ROLY INDD WI 1" BDC SLKY, WTNG TAN & GR,
PITTED, GRVD.

LT BRN-GR, HD, BDC 1/2"-2" REG, WTNG M BRN & GR, SLBY.
M GR-BRN, BDC 1/2"-1" & 6", INDD GR BDCS 1" THK, GRN-GR, WTNG TAN,
M BRN, DK GR.
M/DK GR-BRN, BDC 1" FOLDED, WI 4" DIA R SEMICIRCLES ON DIP SLOPE.
M/DK GR-BRN & M GR, BDC 1"-2", INDD GR, 6"-10" BDC, GR-BRN, SLTY,
FRC, WTNG TAN & M GR-BRN, PLTY & ROLY.

M GR-BRN, BDC 1", INDD SHLY DOL, BDC 1/2", WTNG SF & TAN.

M GR, FW CA BDCS, BDC 10", INDD 1/2" ARG M BRN DOL, WTNG SF TAN, FRACS.

DRG. No G-1592/32

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 127° 30' 00" W

AUTHOR: E. O'BERTOS

MIDDLE DEVONIAN						LITHOLOGY		PALAEONTOLOGY	
TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG		
	HARE INDIAN FM.		298.5'		H 3659 60 1 2 3 4 5 6 7 8 9 H 3670 1 2 3 4 5 6 7			BLK, BIT, FISS, TH BDD, WI SCAT NOD TO 2' DK GR ARG LST, PLTY & FLKY WTHD. BLK, BIT, FISS, TH BDD, WI NOD DK GR PYR LST, BLK & BRN WTHD. BLK, BIT, OCC SL CALC, TH BDD, ND, DISSEM PYR. BLK, BIT, ND 1/2"-4" BDS, OCC SL CALC, WI NOD TO 2' DK GR ARG PYR LST. CALC, BLK, PET, ND, ADD F PYR, PET ODOR. BIT, BLK, WI NOD GR MCR-X PYR LST TO 2', BLK PLTY WTHD. BIT, BLK, ND 1/4"-4" BDS, POCKETS OF PYR. BIT, BLK, SL CALC, 1"-6" BDS, FW PYR NOD, BLK & BRN PLTY WTHD.	
	HUME FM.	UPPER	133.4'		8 9 H 3680F 1 2F 3 4 5 N. S. 6F 7 8 9F H 3690			SL CALC, BIT, BLK, FISS, TH BDD, OCC PET ODOR, BLK PLTY WTHD. AS AB, WI NOD DK GR ARG PYR LST. GR, FOSS, SL ARG, ADD BRACHS. MIC, BRN-GR BRN, DNS, THK-M BDD, CA VNS, LT GR BF WTHD. MIC, BRN-GR BRN, THK BDD, CA VNS, STRGS, LT GR BF WTHD, CLIFF FORM, BRACHS. MIC, BRN-GR BRN, 6"-2' BDS WI 1/2" PTGS BLK CALC SH, GR WTHD. MIC, BRN-GR BRN, V THK BDD, CA IRREG VNS, STRGS, GR BF WTHD, CLIFF FORM, CUP & COLONIAL CORALS. MIC, BRN, 6"-2' BDS WI PTGS GR CALC SH (5-10%), CA VNS & STRGS, LT GR BF IRREG WTHD.	LEIORNHYNCUS CASTANEA - M. Dev.
	MIDDLE & LOWER		218.6'		H 3691F 2F 3F 4 5 6 7 8 9 H 3700 H 3701			GR, ARG, MCR-X, PT NOD, WI IRREG PTGS GR BRN SH, GR BRN WTHD, BRACHS. GR, MCR-X, PT NOD, WI ADD PTGS & TH INBDS GR BRN CALC SH, CORALS, GASTROPODS, BRACHS. MIC, GR-GR BRN, DNS, 4"-3' BDS, FW PTGS & INBDS GR CALC SH, GR BF WTHD. MIC, GR BRN, DNS, THK BDD, CA VNS, STRGS, GR BF BLKY WTHD. GR-GR BRN, CRS FRAGS MCR-X LST TO 2', NO BSG, SPARRY CA MTX. TR P POR, SF-GR BF, IRREG BDD, TR OIL STMS.	DENDROSTELLA TRIGEMME } M. Dev. EOSPONGOPHYLLUM ELONGATUM } CRYPTOPHYLLUM } CYSTIPHYLLOIDES }
	BEAR ROCK FM.		54.0+						

DRG. No. G-1592/33

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 126° 33' 30" W.

SCALE: 1" = 100'

AUTHOR: E. O'Bertos - L. Pember-ton

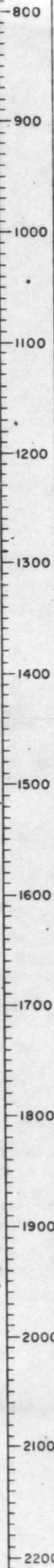
										LITHOLOGY	PALAEONTOLOGY
TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG	CHY. GRN. OR FINAL SIZE			
DEVONIAN IMPERIAL FM.											

U P P E R

?

INDIAN & CANOL FMS.

1392.7' +



H 4474
H 4475F
N.S.
H 4476
7
8
H 4479
H 4480
H 3781
2
3
4
5
6
7
8
9
H 3790



H ORN-PURPLE, SFT, FRI, WTHD PLTY-SPLINTERY.

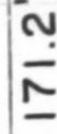
BLK, BK ORN, PURPLE, SFT, EXCELLENT CONE-IN-CONE STR, WTHD POKER CHIP.

SH AS AD W/ RARE CONE-IN-CONE STR.

V BK GR-BLK, SFT, F PLTY, WTHD RUST ORN, PURPLE, GR.

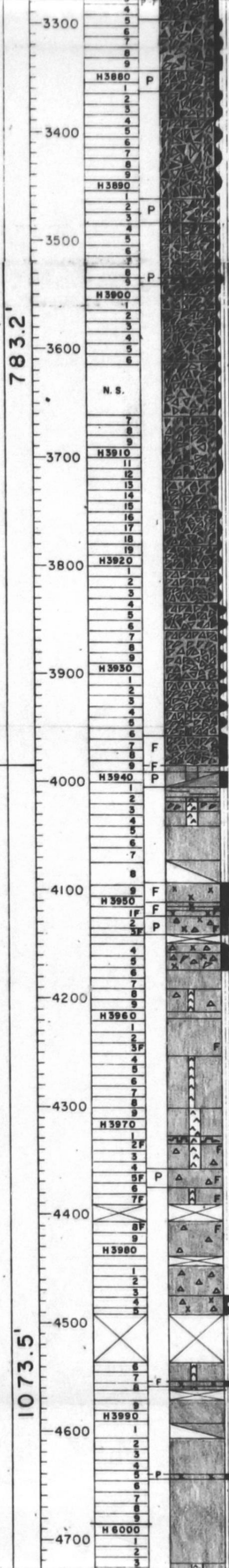
AS AS.

BLK, FISS, BIT IN BASAL 0.5' W/ SL PET OGR, BLK FLKY WTHD.
 BLK, FISS-PLTY W/ PW 4" BANDS NO BLK BIT SH, BLK & ORN WTHD.
 PET, BK GR, NO, ORN WTHD, ADD PTH.
 BLK, TH OGR-PLTY W/ NOO PTH BIT SH, BLK PLTY WTHD, YELL SULPHUR?
 PET, BLK, NO, ORN BLKY WTHD, SL PET OGR, ADD PTH.

M.
F

BIT, BLK, FISS, WI FM INDS TO 1st BLK CALS PYR ON WI SL PET OGR.
GR DRN, THK 8"-3rd SSS, FM TH CALS ON PTGS, GR-GR SF WTHD, CLIFF FORM.
PT BRECCIA. GR DRN. GR-GR SF, INREG WTHD.

IAN & SILURIAN
 GROUND
 MT. KINDLE F.M.
 BEAR ROCK F.M.

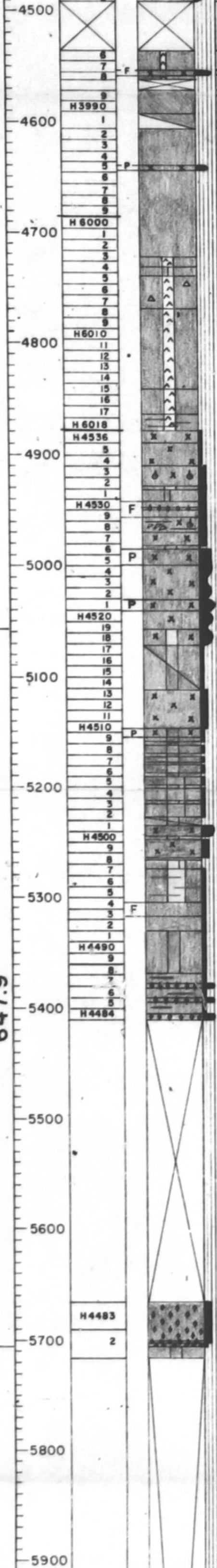


DOL & LST, BK GR-BRN, VF-FG, FRAGS TO 4", ADD CA VMS, GR SF CAV WTHD.
 AS AD WI TR P IN-S & P-P POR.
 FRAGS TO 4" OF GR MCH-X LST WI FW PIECES OF VFG DOL, ADD CA VMS, STROD & INTERFRAG FILLING, GR SF & GR MASS CAV WTHD.
 LST & DOL, FRAGS, AND, OF GR MCH-X LST & GR SF MCH-X & FG DOL TO 3", GR VMS, STROD, INCLD, GR-SF OF INREG & CAV WTHD.
 AS AD WI P IN-S & VUGGY POR, DOLPH SWELL.
 LST & DOL, FRAGS TO 4" OF GR MCH-X LST & SF MCH-X-VFG DOL, CA AND AS XLS, VMS & OCC AS WTK, GR & SF INREG MASS & CAV WTHD.
 FRAGS SMALL TO 4" BLOCKS GR-GR SF, MCH-X-FG DOL, GR-GR SF WTHD.
 SMALL-LRG FRAGS LT-BK GR MCH-X-FG DOL & LT GR MCH-X LST, LT & BK GR WTHD.
 FRAGS SMALL-LRG, LT GR & GR DRN MCH-X & FG DOL, BDC OCC FAINTLY VIS, VMS IN FW PIECES, GR INREG WTHD, SALT ENCRUSTATION.
 DOL BRECCIA AS AD, GR SF, FAIR IN-S & P-P POR.
 LT GR, THK BDD, FAIR GRD VUG POR, LT GR WTHD.
 LT GR, FG, 4"-5" BDD, P-FAIR VUG & IN-S POR, LT GR BLKY WTHD.
 LT GR-WH, 6"-3" BDD, HD & BDC, M GR & SF BLKY WTHD.
 WH-LT GR WH, PK STROD, M-THK BDD, FW SCAT VUGS, GR & SF BLKY WTHD.
 LT GR-WH, F-GR, THK BDD, FAIR-GRD CRG VUG POR, LT GR & SF BLKY WTHD.
 LT GR-WH, FK WI SCAT SMALL PTONG WH CH, P CRG VUG POR, CORALS.
 LT GR-WH, THK BDD, WI COM-PTONG WH CH, BRECC APP, GR & GR SF WTHD, CORALS.
 GR OFF-LT GR, BDC, THK BDD, FAWN & SF BLKY WTHD.
 LT GR, THK BDD, WI FW INREG PTONG WH CH, SF & GR BLKY WTHD.
 GR DRN, MASS THK BDD, FW VUGS, GR & SF BLKY WTHD, CORALS, BRACHS.
 LT GR-GR DRN, THK BDD, SF & GR BLKY WTHD.
 LT GR, BDC & HD, 3"-10" BDD, GR & SF BLKY WTHD, STYL PTOS.
 GR-GR DRN, THK BDD TO 10" WI FW LT GR CH PTONG, CORALS.
 VUGGY, GR DRN, THK BDD WI ADD LT GR CH PTONG, P VUG POR, CORALS.
 LT GR-GR DRN, MASS THK BDD, GR BLKY WTHD, CORALS.
 LT GR, MASS THK BDD, WI FW LT GR CH PTONG, SF & RUSTY BLKY WTHD, CORALS.
 LT-M GR, THK BDD TO 10" WI ADD WH & LT GR CH, GR BLKY WTHD, CORALS.
 DK GR-DRN, VF-FX, THK BDD WI LT GR & BLK CH PTONG, GR & SF BLKY WTHD.
 LT GR, THK BDD, GR & SF BLKY WTHD.
 LT GR-WH, M-CK, THK BDD, FAIR IN-S POR.
 LT GR-WH, M-THK BDD, LT GR BLKY WTHD.
 AS AD, 8"-3" BDD, SF & GR BLKY WTHD.
 LT GR-WH, P-MK, THK BDD, P IN-S POR.
 LT GR-WH, MASS THK BDD TO 10", BDC, SF & FAWN BLKY WTHD.

CP. HALYBATER SP. (PROB SIL)
 CATENIPORA SP. (ORD OR SIL)
 CATENIPORA SP. (ORD OR SIL)
 CATENIPORA SP. (ORD OR SIL)
 PALAEOPHYLLUM SP. (PROB ORD)
 CATENIPORA SP. (LATE ORD)
 STREPTELAGNA SP. (LATE ORD)
 PALAEOPHYLLUM SP. (N. OR LATE ORD, PROB LATE)

ORDOVICIAN & SINO-KIN MT. GRONKIN FM. FRANKLIN MTN.

1073.5' 647.9'



OK GR-BRN, VF-FX, THK SSS W LT GR & BLK ON PTONG, GR & SPKLY WTHD.

LT GR, THK SSS, GR & SF SLKY WTHD.
LT GR-WH, M-GR, THK SSS, FAIR 10-X FOR.

LT GR-WH, M-THK SSS, LT GR SLKY WTHD.

As AS, 8th-3rd SSS, SF & GR SLKY WTHD.

LT GR-WH, F-GR, THK SSS, F 10-X FOR.

LT GR-WH, MASS THK SSS TO 10th, SSS, SF & FAWN SLKY WTHD.

GR, ARG TO SLTY, TH 4th SSS TO PLTY, GR PLTY WTHD.
LT GR, MASS THK SSS, FM STROG & PTCHS SILICA & WH GR, GR & FAWN SLKY WTHD.

LT GR-WH, MASS THK 2nd-10th SSS, SSS & HD, FAWN, GR & SF SLKY WTHD.

LT GR, 1st-5th SSS W FM PTCHS GRN SOL GR, GR & GR SF SLKY WTHD.
GR, VFX, SF WTHD.
GR, FX, MASS, W ZONE OF ORGANIC STR.
GR, SL ARG TO SBY?, TH SSS, SF WTHD.
GR, RD SPKS, PT STROG, GR ZONE, POSSIBLY ALGAL, STROG.
GR, RD SSS, FX, TH-THK SSS, SF WTHD.
DOL, TH, FISS.
GR & RD, F-GR, THK SSS.
GR, M-GR, LAG STROG? MASSES, WTHD POROUS, SF.
GR & RD, F-GR W F-GR FROST SD CHAINS & SD PELLETS.
ARG, VFX, GRG TO SOL GR ZONES, TH-THK SSS.
GR, FX, MASS, TH SSS TOWARDS TOP.
GR W GRN & RD MOTT, ARG, GRG TO RD SOL GR.
As AS W PTTED SURFACE, SF WTHD W RD STROG LOWER 15th.
DOL & GR, YELL-SF, ARG TH SSS W TH 2nd SBY SSS.
DOL, GR, RD SPKS, W INDS YELL, SF & RD GR.
SF & YELL, WTHD YELL-SF.
DOL & SLTY, YELL-SF, GRG TO SBY SOL SSS, WTHD YELL-SF.
LT GR W RD SPKS, VFX, WTHD RD & SF.
OK GR, ARG, TH SSS, W INDS VF-FX WH-LT GR SOL, GR & SF WTHD.
GR SF, VFX, MASS SSS W 3-2nd INDS RD GRN OOLITIC SOL
W RUSTY WTHD, OCC TH ARG & GR ZONES.

GR SF, W ALGAL BALLS, FAINT OOLITIC TEX, SPOTTY RUST STROG.
GR SF SOL, TH SSS.

C A M B R I A N

12473' +

5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900
7000

2

GR OF SOL, TN 888.

TH DK SHALES & ANHYDRITE IN SCREE.

SALT, OR WH, CX, WYND TO JAGGED PINNACLE FORM.

SALT AS AD.

6 of 6

DRG. No. G-1592/34

REPORT No. G.R. 99

PARTY No. 24

LATITUDE 64° 30' 45" N

LONGITUDE 126° 19' 00" W

DATE: SEPT. 6, 1961

SCALE: 1" = 100'

AUTHOR: L. M. SPRATT

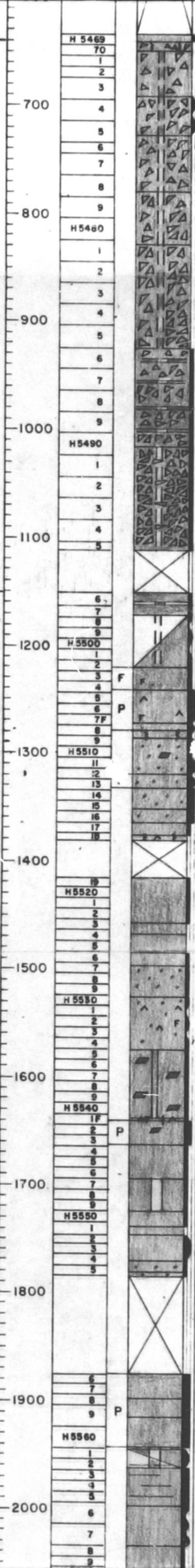
i of

ORDOVICIAN & SILURIAN
RONNING GROUP

MIDDLE
BEAR ROCK F.M.

1028.5' +

511.0'



LT, M/DK GR-BRN, MCR-X/VF FRAGL, SSG 6th, WTHD LT GR.

LT BRG, FRAGL M GR-BRN MCR-X LT CEM WI ASD WH CA, MASS SSG.
LRO GR INCLD.
WTHD GR & LT GR.

LT BRG, BRN FRAGL CEM WI WH CA.

INCLD SLTY LT, GR & CALC SLTY, MASS SSG.
WTHD CRUMBLY, WI VUGS & CAVES, GR & GR.

LT BRG, M GR, V CALC, MASS SSG, WTHD M/DK GR,
WI INCLD SLTY LT, CALC SLTY, & BRN SLTY GR, WTHD TH & GR, PITTED.

LT BRG, M GR, V CALC, SL SLTY IN PT, SCHE P SSG/MASS,
FW SLTY INCLD, WTHD GR & DK GR, WI LRO VUGS & CAVES.

LT GR & BRN, SSG 2nd-6th PLTY, VF BRG IN PT, WI TH DOL SLTY,
WTHD M GR, PLTY.

LT BRN & PK, VF FRAGL IN PT, SSG 2nd-6th, WTHD GR, SL PITTED,
WI GR SLTY DOL GR IN PT, WTHD GR, SSG 2nd PLTY.

LT GR-BRN, P PRES CORALS, WI GR VUGS, FAIR VUG FOR, SSG 4th,
WTHD M/DK GR PITTED, LEACHED VUGS.

VUGS LINED WI QZ KLD.

LT GR WI SPAR CA INCLD, SSG 2nd-1st WY, DISTRTD, IRREG, WTHD TH & DK GR.

WTHD LT GR, PITTED.

M/DK BRN, SSG 2nd-2nd PGR, WTHD M GR-BRN & GR, WI TH STRONG CHALCED.

VUGS DK BRN & FC M GR-BRN, SSG 6th TO MASS, WTHD M/DK GR.

M GR-BRN, SSG, HD, SSG 2nd-1st P SSG, WTHD M GR, GR, RD, SLKY JTD.

M GR, SSG, SSG 2nd-2nd, FRAGL, WTHD M GR, ROLY.

M GR-BRN, SSG, SSG 6th-1st, IRREG FRAG, WTHD TH & DK GR, ROLY, SLKY.

M GR & BRN, SSG 1st, P SSG, FRAGL, WTHD TH & M GR, ROLY, SLKY.

M GR & BRN, HD, SSG 2nd TO MASS, WTHD TH, M & DK GR, PITTED & VUGGY,
SCAT COL & CUP CORALS, SIL REPL.

M GR WI PTCHS & LENSED MAY ARMY, FOM/HD, SSG MASS, WTHD M DL-GR & WH.

M GR, PGR, CUP, DOL & GRN CORALS, SIL REPL, WI CHALCED, DL-GR,
LRO VUGS LINED WI QZ KLD.

M/DK BRN WI CA PTCHS, SSG P SSG/MASS.

WTHD TH & M GR.

LT GR, LT BRN, M BRN, SLTY & TH SSG IN PT, SSG 2nd-1st IRREG, WTHD TH &
M GR.

LT BRN, VFX, M GRN FX, WTHD TH & GR CLOY, WELL SSG.

TAN, SSG 5th, WTHD TAN, MASS.

SSG 2nd BRG.

M BRN, VF BRG WI LT GR BRG.

SSG 6th, WTHD TH, WELL SSG.

SSG 2nd.

SH, DOL, TH, PAPERY, SSG 1st-1st/2nd, WTHD TH.

DOL, GR-BRN, PK, MVE, SLTY/SLTY, DOL, PGR, SHLY IN PT, SSG 2nd-6th,
WTHD RD/PGR, WELL SSG.

M GR & GR-BRN, SSG 2nd-6th, WI TH ROLY TH GR BRG, WTHD TH, SLKY.

M GR, SSG 1st-3rd IRREG, P SSG, WTHD M/DK GR-BRN, SLKY, ROLY IN PT.

M/DK GR-BRN, SSG 6th-MASS, SSG 1st-2nd SSG, WTHD TH & GR, SLKY/MASS.

MIDDLE

BEAR ROCK FM.

511.0'

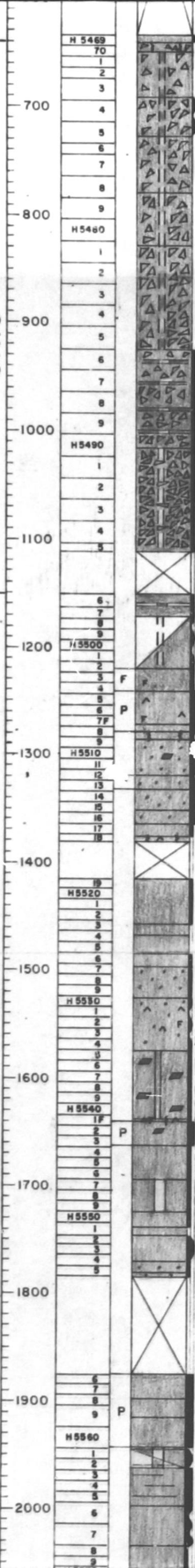
1028.5' +

SILURIAN

&

ORDOVICIAN

RONNING GROUP



LT, M/DK GR-BRN, MCR-X/VF FRAGL, SDG 6th, WTHD LT GR.

LT BRG, FRAGL M GR-BRN MCR-X LT CEM W/ ASD WH CA, MASS SDG.
LRO GR INCL. WTHD GR & LT GR.

LT BRG, BRN FRAGL CEM W/ WH CA.

INCL. SLTY LT, GR & CALC SLTY, MASS SDG.
WTHD CRUMBL, W/ VUGS & CAVES, GR & GR.

LT BRG, M GR, V CALC, MASS SDG, WTHD M/DK GR,
W/ INCL. SLTY LT, CALC SLTY, & BRN SLTY GR, WTHD TH & GR, PITTED.

LT BRG, M GR, V CALC, SL SLTY IN PT, SCMG P SDG/MASS,
FW SLTY INCL, WTHD GR & DK GR, W/ LRO VUGS & CAVES.

LT GR & BRN, SDG 1st-6th PLTY, VF BRG IN PT, W/ TH DOL SLTY,
WTHD M GR, PLTY.

LT BRN & PK, VF FRAGL IN PT, SDG 1st-6th, WTHD GR, SL PITTED,
W/ GR SLTY DOL SDG IN PT, WTHD GR, SDG 1st PLTY.

LT GR-BRN, P PRES CORALS, W/ GR VUGS, FAIR VUG FOR, SDG 4th,
WTHD M/DK GR PITTED, LEACHED VUGS.

VUGS LINED W/ QZ XLS.

LT GR W/ SPAN CA INCL, SDG 2nd-1st WY, DISTRTD, IRREG, WTHD TH & DK GR.

WTHD LT GR, PITTED.

M/DK BRN, SDG 1st-2nd POOR, WTHD M GR-BRN & GR, W/ TH STRONG CHALCED.

VUG DK BRN & FG M GR-BRN, SDG 6th TO MASS, WTHD M/DK GR.

M GR-BRN, SDG, SD, SDG 2nd-1st P SDG, WTHD M GR, GR, SD, SLKY JTD.

M GR, SDG, SDG 1st-2nd, FRAGL, WTHD M GR, SDLY.

M GR-BRN, SDG, SDG 6th-1st, IRREG FRAG, WTHD TH & DK GR, SDLY, SLKY.

M GR & BRN, SDG 1st, P SDG, FRAGL, WTHD TH & M GR, SDLY, SLKY.

M GR & BRN, SD, SDG 2nd TO MASS, WTHD TH, M & DK GR, PITTED & VUGGY,
SCAY COL & CUP CORALS, SIL REPL.

M GR W/ PTCHS & LENSES MAY ANY, FWH/SD, SDG MASS, WTHD M SL-GR & WH.

M GR, FUGS, CUP, COL & GRN CORALS, SIL REPL, W/ CHALCED, SL-GR,
LRO VUG LINED W/ QZ XLS.

M/DK BRN W/ CA PTCHS, SDG P SDG/MASS.

WTHD TH & M GR.

LT GR, LT BRN, M BRN, SLTY & TH SDG IN PT, SDG 1st-1st IRREG, WTHD TH &
M GR.

LT BRN, WFX, M BRN FX, WTHD TH & GR SLKY, WELL SDG.

TAN, SDG 5th, WTHD TAN, MASS.

SDG 1st SDG.

M BRN, VF BRG W/ LT GR BRG.

SDG 6th, WTHD TH, WELL SDG.

SDG 1st.

SN, DOL, TH, PAPERY, SDG 1/8th-1/2th, WTHD TH.

DOL, GR-BRN, PK, MVE, SLTY/SLTY, DOL, PURP, SLKY IN PT, SDG 1st-6th,
WTHD SD/PURP, WELL SDG.

M GR & GR-BRN, SDG 2nd-6th, W/ TH SDLY TH GR BRN, WTHD TH, SLKY.

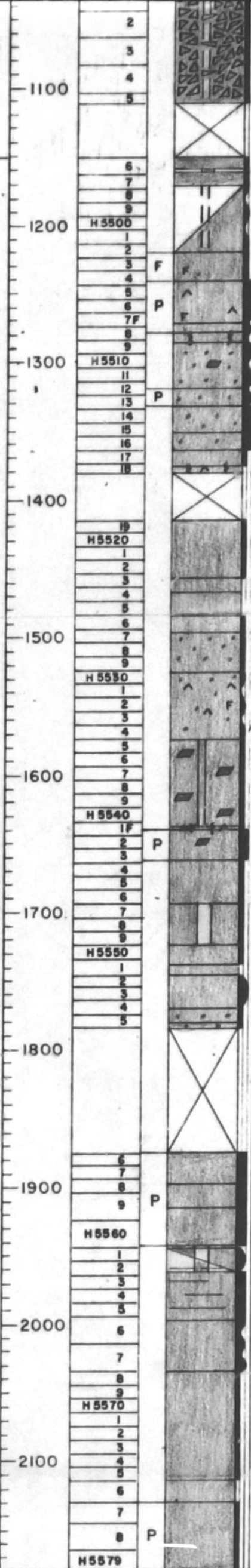
M GR, SDG 1st-3rd IRREG, P SDG, WTHD M/DK GR-BRN, SLKY, SDLY IN PT.

M/DK GR-BRN, SDG 6th-MASS, OCC 1st-2nd SDG, WTHD TH & GR, SLKY/MASS.

ORDOVICIAN & SILURIAN RONNING GROUP

B.E.

1028.5' +



FW SLTST INCLs, WTHD OR & DK GR, W LRG VUGS & CAVES.

LT GR & GRN, SDC 1/2"-6" PLTY, VF SHDD IN PT, W TH DOL SLTST, WTHD M GR, PLTY.

LT GRN & PK, VF FRAGL IN PT, SDC 1/2"-6", WTHD GR, SL FITTED, W GR SLTY DOL SDC IN PT, WTHD GR, SDC 1/2" PLTY.

LT GR-GRN, P PRES CORALS, W GR VUGS, FALA VUG FOR, SDC 4", WTHD M/DK GR FITTED, LEACHED VUGS.

VUGS LINED W QTZ XLS.

LT GR W SPAN CA INCLs, SDC 2"-1" WY, DISTRTD, INREG, WTHD TH & DK GR.

WTHD LT GR, FITTED.

M/DK GRN, SDC 1/2"-2" PDR, WTHD M GR-GRN & GR, W TH STRONG CHALCED.

VUG DK GRN & FG M GR-GRN, SDC 6" TO MASS, WTHD M/DK GR.

M GR-GR, DMS, HD, SDC 2"-1" P SDC, WTHD M GR, GR, RD, SLKY JTD.

M GR, DMS, SDC 1/2"-2", FRAGD, WTHD M GR, RSLY.

M GR-GR, DMS, SDC 6"-1", INREG FRAC, WTHD TH & DK GR, RSLY, SLKY.

M GR & GRN, SDC 1", P SDC, FRACD, WTHD TH & M GR, RSLY, SLKY.

M GR & GRN, HD, SDC 2" TO MASS, WTHD TH, M & DK GR, FITTED & VUGGY, SCAT COL & CUP CORALS, SIL REPL.

M GR W PTCHS & LENSES MAY ARMY, FOM/HD, SDC MASS, WTHD M SL-GR & WH.

M GR, PUGS, CUP, DOL & GRN CORALS, SIL REPL, W CHALCED, SL-GR,

W VUGS LINED W QTZ XLS.

M/DK GRN W CA PTCHS, SDC P SDC/MASS.

WTHD TH & M GR.

LT GR, LT GRN, M GRN, SLTY & TH SDC IN PT, SDC 1/2"-1" INREG, WTHD TH & M GR.

LT GRN, VFX, M GRN FX, WTHD TH & GR SLKY, WELL SDC.

TAN, SDC 5", WTHD TAN, MASS.

SDC 1/2" REG.

M GRN, VF SHDD W LT GR DMS.

SDC 6", WTHD TH, WELL SDC.

SDC 1/2".

SH, DOL, TH, PAPERY, SDC 1/8"-1/2", WTHD TH.

DOL, GR-GRN, PK, MVE, SLTY/SLTST, DOL, PURP, SHLY IN PT, SDC 1/2"-6", WTHD SD/PURP, WELL SDC.

M GR & GR-GRN, SDC 2"-6", W TH RSLY TH GR DMS, WTHD TH, SLKY.

M GR, SDC 1"-3" INREG, P SDC, WTHD M/DK GR-GRN, SLKY, RSLY IN PT.

M/DK GR-GRN, SDC 6"-MASS, OGD 1"-2" SDC, WTHD TH & GR, SLKY/MASS.

M GRN-GR, HD, SDC 2"-2" P SDC, INREG, WTHD M GR & TH, JTD, RSLY.

LT GRN, M GR, VF SHDD, INREG, FW VUGS, M GRN/DK GR-GRN AT BASE, SHDD, SDC 2"-6", P SDC, WTHD M GR, SLKY.

TRIAD OIL CO. LTD.

DRG. No. G-1592/88

SECTION 24-8 B

REPORT No. G.R. 99

LOCATION: ENGLISH CHIEF RIVER HEADWATERS

PARTY No. 24

MAP REFERENCE: ROOT RIVER LATITUDE 62° 35' 00" N. LONGITUDE 124° 50' 00" W.

DATE: JULY 1st 1961 SCALE: 1" = 100' AUTHOR: R.L. PEMBERTON

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	DATUM	SAMPLE NO	POSSIBLY	GRAPHIC LOG	DESC	LITHOLOGY	PALAEONTOLOGY
	DE LO RME F.M.		3677.2' +						
			10500	9F				DOL GRSS TO DOL GR, DK GR, PLTY, FEM, H GR BRN WTHD, BRACHS.	
				780					
				1					
				2					
			10600	3				DK GR, V ARG TO ONLY, CRYPTO-X, PLTY-FISS, GR BRN RGLY-PLTY WTHD.	
				4					
				5					
				6					
				7					
			10700	8				DK GR, CALO, FISS-V TH GR, INSD Wt DOL, DK GR, CRYPTO-X, V ARG, IN 2'-3' GR, GR-GR BRN RGLY WTHD.	
				740					
			10800						
			10900						
			11000						
			11100						
			11200						
			11300						
			11400	741F				DK GR, V CALO, HD, PLTY, INSD Wt V ARG LST FORM SEMI-CIRCLES, WTHD H-GR GR & H GRN, ARG GRAPTOLITES.	
				2				DK GR, CALO, FEM, PLTY 1/2 GR, H GRN WTHD.	
				3					

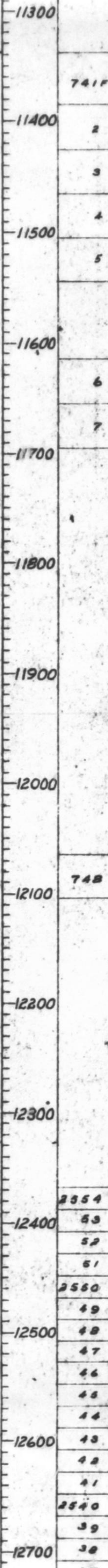
MONOGRAPTUS NILSSONI (LOWER LUDLOVIAN)

S I L U R I A N

F M.

U P P E R

1769.3' +



DK GR, V CALC, HD, PLTY, INDD WI V ARG LST FORM SEMI-CIRCLES, WTHD M-GR GR & M GRN, ADD GRAPTOLITES.

MONOGRAPTUS NILSSONI (LOWER LUDLOVIAN)

DK GR, CALC, FRM, PLTY $\frac{1}{2}$ " SSS, M GRN WTHD.

SH AS AB, INDD WI LST, V ARG, DK GR, CRYPTO-X TO FG, $\frac{1}{4}$ " SSS, M GR WTHD.

SH & LST INDD AS AB.

DK GR-BLK, V CALC, FRM, PLTY $\frac{1}{2}$ " SSS, M GRN WTHD.

DK GR-BLK, V CALC, FRM, INDD WI BLK ARG LST, M GR GRN PLTY-RDLY WTHD.

LST, CRYPTO-X, DK GR, V ARG-ONLY, SSS $\frac{1}{2}$ "- $\frac{1}{4}$ ", WTHD DK GR, PLTY, INDD WI BLK CALC GR, FRM.

DK GR, CRYPTO-X, ARG-ONLY, HD, SSS $\frac{1}{2}$ "- $\frac{1}{4}$ ", WTHD M & DK GR, M GRN VERT CA VSD.

DK GR, CRYPTO-X, ARG-ONLY, HD, SSS $\frac{1}{2}$ "- $\frac{1}{4}$ ", WTHD M & DK GR, M GRN VERT CA VSD.

DK GR, CRYPTO-X, V ARG-ONLY, HD, SSS $\frac{1}{2}$ "- $\frac{1}{4}$ ", WTHD DK GR, PLTY, SOAT CA VSD, MINOR FOLDING.

DK GR, CRYPTO-X, V ARG, SSS $\frac{1}{2}$ "- $\frac{1}{4}$ ", WTHD M GR-GRN & DK GR, PLTY, SOAT CA VSD.

12500 48
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13700 97
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DK GR, CRYPTO-X, ARG-ONLY, NO, SDC 1st-1st, WITH M & DK GR, WI
TH SDCS FISS BLK CALC SN.

DK GR, CRYPTO-X, V ARG-ONLY, NO, SDC 1st-4th, WITH DK GR, PLTY,
SOAT CA VHS, MINOR FOLDING.

DK GR, CRYPTO-X, V ARG, SDC 1st-1st, WITH M GR-SRN & DK GR, PLTY,
SOAT CA VHS.

DK GR, CRYPTO-X, ARG, SDC 2nd-4th, WITH M/GR GR, FISS IN TH SDC,
MINOR CA VHS.

DK GR, CRYPTO-X, ARG, SDC 2nd-6th, WITH M/GR GR, RSLY, WI SDC TH SDC
SN, DK GR, NO, WITH M GR-SRN, PLTY.

DK GR, CRYPTO/MGR-X, ARG, SDC 1st-2nd, W SDC, WITH M-DK GR, PLTY.

M/GR GR, CRYPTO/MGR-X, V ARG, NETWORK OF VF CA VHS, SDC 1st-2nd,
WITH LT & M GR.

DK GR, CRYPTO/MGR-X, ARG-ONLY IN PT, SDC 1st, SDC LT & DK GR,
WITH LT & M GR, WI INREG SDCS NO LT.

DK GR, CRYPTO-MGR-X, ARG, ADD SOL VHS, SDC 1st-2nd, WITH DK GR, PLTY,
JTD, WI 1st SDC DK GR, CRYPTO-X, V ARG SOL.

DK GR, CRYPTO-MGR-X, FISS?, ADD WH SOL VHS, SDC 2nd-10th, WITH DK GR,
MASS, ADD CONC MASSES - STRONG?, INREG SDC.

DK GR, CRYPTO-X, ARG, WI CONC 4th-2nd, STRONG?, INREG SDC.

DK GR, CRYPTO-X, V ARG, SDC 1st-6th, WITH M GR, PLTY,
INREG WI SN, DK GR, SOL, FISS, COALY IN PT, SDC 1st-4th, WITH DK GR,
RSLY, STRONG FISS, ADD WH SOL VHS.
M/GR GR, CRYPTO/MGR-X, ARG, SDC 2nd-4th, WITH M & DK GR PLTY, FISS,
BRACH? F FISS, MINOR SOL VHS, MINOR FISS.

DK GR, CRYPTO-X, ARG, ADD WH SOL VHS, SDC 1st-3rd, W SDC,
WITH M & DK GR PLTY, STRONG FISS EVID.

DK GR/SK, CRYPTO/MGR-X, ARG, INREG WI ADD WH SOL VHS, SDC MASS,
WITH DK GR, RSLY, HVLY FRAC, NO PATTERN, STRONG FISS EVID IN PT,
SOAT BRACH? F FISS.

DK GR, CRYPTO-X, ARG, FISS?, SDC MASS, WITH DK GR, FISS - BRACH?
PELEG? F FISS, NO CONC - STRONG?
DK GR, CRYPTO-X, ARG, SDC 1st-1st F SDC, WITH M/GR GR, PLTY.

DK GR, CRYPTO-X, ARG, ADD F SOL VHS, FISS - CORAL?, SDC 2nd-1st,
W SDC, JTD.

SN, DK GR, SOL, PLTY, ARG, 1st-1st, WITH M/GR GR, RSLY, JTD, OCC THK
VERT SOL VHS, INREG SOL, CRYPTO-X, M & DK GR, PLTY, ARG, FISS,
SDC 1st-1st, JTD, WITH M GR, RSLY.

DK GR, CRYPTO-X, V ARG/ONLY, ARG, SDC 1st-1st, FRAC & JTD,
WITH M GR-SRN & DK GR, PLTY/RSLY, MINOR VERT SOL VHS ALONG FRAC PLND.

LT, SOL, CRYPTO-X, V ARG, TH SDC/ONLY, 1st SDC, WITH M GR, RSLY,

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LST, DOL, CRYPTO-X, V ARG, TH SDO/ONLY, 1st SSS, WTHS M GR, RSLY,
WI QOO TH SSS DK GR SN 1st-1st, SLTY IN PT, SL DOL, HRD, WTHS DK GR.

LST, DK GR, CRYPTO-X, DOL, ARG, SSS 1st-0th, P SSS, WTHS DK GR, RSLY.

LST, DOL, CRYPTO-X, ARG, SSS 4th-1st, FRAC & JTD, MINOR DOL VNG,
WTHS DK GR, RSLY/SLTY.

LST, DOL, DK GR, CRYPTO-X, ARG, SSS 4th-0th, P SSS, WTHS M/DK GR, RSLY.

LST, DOL, DK GR, CRYPTO-X, ARG, SSS 1st-2nd, FRAC & JTD, P DEVLPS,
WTHS M & DK GR, PLTY/RSLY.

M & DK GR, MCR-X, ARG, ADD WH DOL VNG ALONG VERT FRAC PLUS,
SSS MASS, WTHS M GR, MASS, JTD.

DK GR, MCR-X, ARG, WI CA FRACS & XLS, SSS 1st-2nd, QOO 2nd SS,
WTHS M GR, RSLY, SCAT FOSS - BRACHS & CUP CORALS.

DK GR, MCR-X, ARG, WI SCAT CA FRACS, FOSS, SSS 2nd-0th, P SSS,
WTHS DK GR, RSLY, ADD BRACHS & CUP CORALS.

DK GR, MCR/CRYPTO-X, V ARG, FOSS ADD - BRACHS, SCAT CUP CORALS,
SSS 1st-1st, P SSS, WTHS DK GR, RSLY/PLTY.

DK GR, MCR-X, ARG, SCAT CA XLS, SSS 2nd-0th, WTHS DK GR, MASS.

DK GR, CRYPTO-X, FOSS, ARG, ADD BRACHS, SCAT BRACH, SSS 3rd, WTHS M GR.

DK GR, CRYPTO-X, FOSS, ARG, ADD BRACHS, SSS 4th-3rd, P SSS, WTHS M GR, RSLY.

DK GR, CRYPTO-X, FOSS, ARG, SSS 4th-3rd, P SSS, WTHS M GR-SRS, SL RSLY,
ADD BRACHS.

M GR, FO SUC, CG IN PT, SCAT DOL VNG & XLS, SSS MASS, WTHS M GR & YELL-SRS.

DK GR/SLX, CRYPTO-X, V ARG, SSS 2nd-4th, WTHS M GR, RSLY.

DK GR/SLX, CRYPTO-X, V ARG, SSS 2nd-4th, WTHS M GR, V RSLY.

DK GR, CRYPTO-X, ARG, FOSS, SSS 1st-0th, WTHS M GR, V RSLY,
FOSS - BRACHS & BRACHS.

DK GR, CRYPTO-X, ARG, FOSS - BRACHS & BRACHS, SSS 2nd-0th, WTHS M GR,
RSLY.

DK GR, CRYPTO-X, ARG, FOSS, SCAT BRACHS, SSS 2nd-0th, WTHS M GR, RSLY.

407

V I C I A N T A K E R L O W E 2998.7

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15300	61
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15400	58
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15500	51
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15700	45
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15800	2440
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15900	35
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16000	2430
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16100	25
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FOSS = BRACHS & BRYOS.

DK GR, CRYPTO-X, ARG, FOSS = BRACHS & BRYOS, SDG 2nd-6th, WTHD M GR, ROLY.

DK GR, CRYPTO-X, ARG, FOSS, SCAT BRACHS, SDG 2nd-6th, WTHD M GR, ROLY.

CRYPTO-X, ARG, FOSS, SDG 2nd-1st, WTHD M GR, GLASSY, FOSS = OOL, CUP & CHAIN CORALS, RECEPTAC & BRACHS.

CHAIN CORALS

DK GR, CRYPTO-X, ARG, SDG 4th-10th, WTHD M GR, SLKY, JTD.
AS AN WI FOSS, BRACHS, BRYOS, CACT & SPONGE CORALS.

DK GR, CRYPTO-X, ARG, SDG 3rd-1st, WTHD M GR, ROLY.

DK GR, CRYPTO-X, V ARG, SCAT CA FRAGS, SDG 6th, EVENLY SDG, WTHD DK GR, FITTED.

DK GR, CRYPTO-X, V ARG, SDG 1st-2nd, WTHD DK GR, SLKY/ROLY, JTD, SCAT CA VHS.

DK GR, CRYPTO-X, V ARG, SCAT CA VHS & FRAGS, SDG 6th-2nd, JTD, WTHD DK GR, SLKY/FRAGS, FITTED.

DK GR, CRYPTO-X, V ARG/SLKY IN PT, SDG 4th-1st, JTD, WTHD DK GR, ROLY, WI TH SHDS DK GR CALC SH & TH CA FRAGS IN DK GR LST.

DK GR/BLK, CRYPTO-X, V ARG, SDG 2nd-1st, WTHD DK GR, SLKY/ROLY, WI MINOR CA VHS & VERT FRAGS, INDD SH, BLK, CALC, FISS, WI HORIZ CA VHS.

DK GR, CRYPTO-X, V ARG, SDG 1st-1st, WTHD M GR, SLKY & PLTY, WI INDD TH GR SDG 1st, FISS, CALC, WTHD DK GR, PLTY/ROLY, MINOR CA VHS ALONG VERT FRAGS, WI TH SD "VARVED" LST, LT & M GR 1st SHDS, CRYPTO-X, WTHD LT & M GR SHDS.

DK GR/BLK, CRYPTO-X, ARG, WI SCAT V TH CA VHS & FRAGS, SDG 2nd-1st, WTHD M GR WI TH INDD SH, DK GR, V CALC, SLKY, WTHD DK GR, ROLY.

DK GR/BLK, NON-CRYPTO-X, ARG, WI TH STRONG & FRAGS OF CA (FOSS FRAGS), SDG 2nd-6th, WTHD M GRN & DK GR, JTD.

DK GR, CRYPTO-X, ARG, 6th-1st SDG, WTHD M GR, INDD SH, DK GR, CALC, FISS, SDG 1st-1st, WTHD DK GR, SLKY.

DK GR/BLK, ARG, SDG 6th-2nd, WTHD DK GR, SLKY, FRAG, JTD, WI OCC SHDS DK GR CALC FISS SH.

DK GR/BLK, ARG, 2nd-1st SDG, INDD SH, BLK, CALC, FISS, OOLY, SDG 1st, WTHD M GRN & DK GR.

M GR, CRYPTO-X, DK GR ARG IN PT, SDG 1st & 1st, FRAC & JTD, WI INF CA, WTHD LT/M GRN & TH, MASS, PLTY.

LT/M GR, CRYPTO-X, ARG & SLTY IN PT, SDG 1st-1st, SL FLOD IN PT, WTHD M GR-SHN, JTD & FRAG, CA INF FRACS IN PT.

M GR, FG, SL SLTY IN PT, CA VHS, SDG 6th-1st, P SDG, WTHD M GR, MASS, VERT FRACS INF WI GR IN PT, OCC SHD OF LOT DK GR, V ARG, TH SDG, WTHD M GR, PLTY.

M GR, FG, WI CA VHS, SLTY IN PT, ARG IN PT, SDG 1st-1st, SLTY SDG FLOD SL WTHD M GR, MASS.

LT AS AN WI CC CA & SHD GRN & VARVED LST.
DK GR, NON-X, ARG, SDG 1st-4th, WTHD LT GRN, M & DK GR, WI FRACS INF WI CA IN PT, WI TH SH SDG, DK GR, CALC, FISS, FLOD IN PT.

M/DK GR, SLTY/ARG, CRYPTO/MGR-X, SDG 1st EVENLY SDG, WTHD M GR, PLTY.
DK GR, CRYPTO-X, ARG, FOSS = BRACH, PELEC, BRYOS & ? FOSS FRAGS.

DK GR, CRYPTO-X, ARG, SDG 1st-6th, OCC SHD ONLY LST 1st THK, WTHD M GR, PLTY/FRAGS, JTD.

DK GR, CRYPTO-X, ARG, SDG 1st-4th, WTHD DK GR, PLTY/FRAGS.

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M/DK GR, SLTY/ARG, CRYPTO/MCR-X, SDC 1st EVENLY SDD, WTHD M GR, PLTY.
DK GR, CRYPTO-X, ARG, FOSD - BRACH, PELEC, SRYDS) & ? FOSD FRAGS.

DK GR, CRYPTO-X, ARG, SDC 1st-0th, SDC SDD ONLY LOT 1st TNE, WTHD M GR, PLTY/MASD, JTD.

DK GR, CRYPTO-X, ARG, SDC 1st-4th, WTHD DK GR, PLTY/MASD.

DK GR, CRYPTO-X, ARG, EVENLY SDD, 1st TNE SDD, WI OGC SDD V ARG/ONLY LOT, WTHD M GR & DK GR.

DK GR, CRYPTO-X, ARG, 0th-2nd SDD, WTHD DK GR & SDD, WI SCAT SDD SDD, FISS, DK GR, CALC, SDC 1st, WTHD DK GR, PLTY.

LOT,
DK GR, CRYPTO-X, ARG, ALTD WI GR, 1st-1st SDD, WTHD M & DK GR SDD.

DK GR/BLK, CRYPTO-X, V ARG/ONLY & COALY IN PT, 1st-3rd IRREG SDD, WTHD M GR-SDD, PLTY/MASD.

LOT, DK GR-BLK, CRYPTO-X, V ARG/ONLY & COALY, IRREG SDD 1st-2nd, WTHD M/DK GR WI SDD PAPERY SDD, DK GR, CALC, WTHD DK GR, PLTY.

LOT, DK GR, CRYPTO-X, ARG, SDC 0th-2nd, WTHD M GR, MASD, WI TH STRONG DK GR CALC SDD.

DOL, M GR, VFC/MCR-X, SDC 1st & 2nd WTHD GR-SDD, MASD, ADD VERT DOL VNO, MINOR SDD SDD, DK GR, CALC, SDC 1st.

LOT, DK GR, CRYPTO-X, ARG, IRREG SDD, DK GR, CALC, SDC 1st-2nd, WTHD GR & GR, ADD VERT DOL VNO.

LOT, DK GR, CRYPTO-X, ARG/ONLY, WI GR, BLK, CALC, PAPERY & FISS, TH SDD.

DK GR/BLK, CRYPTO-X, V ARG/ONLY, SDC 1st-3rd, WTHD DK GR, PLTY.

M GR, SLTY, VP SDD, SDC 2nd, WTHD M GR.

DK GR, CRYPTO-X, ARG, ONLY IN PT, SDC 1st-2nd, WTHD YELL SDD, PLTY.

M GR, VFC, SLTY, OCCUPY KLS, SDC 1st-2nd, WTHD MUST-SDD, MASD.

DK GR, CRYPTO-X, ARG, SDC 2nd, WTHD M GR, MASD.

DK GR/BLK, CRYPTO-X, V ARG, SDC 1st-2nd.

DK GR, CRYPTO-X, V ARG, IRREG M GR SDD LOT, SDC 1st WY, WTHD LT & M GR, PLTY.

DK GR, MCR-X, SDD, ARG, MINOR CA VNO & PTONG, SDC 2nd-1st, WTHD DK GR, PLTY.

LOT, DOL, FG, M/DK GR, ARG, SDC 2nd W SDD, WTHD M GR & SDD, BLKY, FRAC, LCC LOT & CLYST SDD, GL VARVED, APPG, WI IRREG 1st SDD, WTHD LT & DK GR.

M/DK GR, VFC/MCR-X, ARG, SDC 0th-2nd W SDD, WTHD LT/M GR.

LOT, SUC, VFC/FG IMPURE, ARG, SDC MASD, WTHD DK GR, MASD.

SST, M GR, FG, SDC 0th W SDD, WTHD GR, BLKY, JTD.

M GR-SDD, VFC, SDD, SDC 1st-1st, PLTY & W SDD, WTHD M GR-SDD.

LT SDD, VFC, SUC/SDD TENT, SDC 0th-2nd W SDD, FRAC & JTD, WTHD RD-SDD, BLKY.

LT SDD, SDD, VFC, SDD, GL FUS, SDC 2nd/MASD, WTHD LT SDD, MASD.

DOL SDD & DOL SDD IRREG, LT/M GR, VFC, FRI IN PT, SCAT DOL RHOMBS, SDC 1st & MASD, WTHD LT SDD & DK GR, MASD, FRAC, JTD.

DOL, GRN, TH & LT GR, VFC, SUC, P SDD, 2nd, WTHD LT SDD & M GR.

M GR-SDD, VFC, 1st-1st W SDD, WYV FRAC & JTD, WTHD M GR, BLKY, ADD DOL VNO & PTONG.

SST, DK GR, VFC, ARG, V GRN, V GL CALC GRN, SDC 2nd P SDD, ADD DOL VNO, WTHD M & DK GR & GRN, IRREG WI DOL, M GR-SDD, FG, WI DOL VNO, SDC 2nd, WTHD LT/M GR & GRN, MASD.

UNBOLD

$$4 \mid 2.3' +$$

Pressure (mm Hg)	Temperature (°C)	Relative Humidity (%)	Wind Direction (°)	Wind Speed (km/h)	Clouds (%)	Weather
17100	77	76	75	74	73	72
17200	72	71	2370	89	88	87
17300	82	81	80	79	78	77
17400	65	64	63	62	61	60
17500	59	58	57	56	55	54
17600	53	52	51	50	49	48
17700	42	41	2360	59	58	57
17800	37	36	35	34	33	32
17900	31	30	2350	49	48	47
18000	46	45	44	43	42	41
18100	39	38	37	36	35	34
18200	32	31	30	29	28	27
18300	26	25	24	23	22	21

OK CR, MGR/CRYPTO-X, ANG, ENG, SDC 3rd-4th & MASS, WTHG LT & OK CR,
BLKY/BLKY, VENT JTG, MINOR CA VNG.

DRG. No. G-1592/9

REPORT No. G. R. 99

PARTY No. 24

LONGITUDE 125° 47' W

AUTHOR: E. O'BERTOS

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ORDOVICIAN

W H I T T A K E R

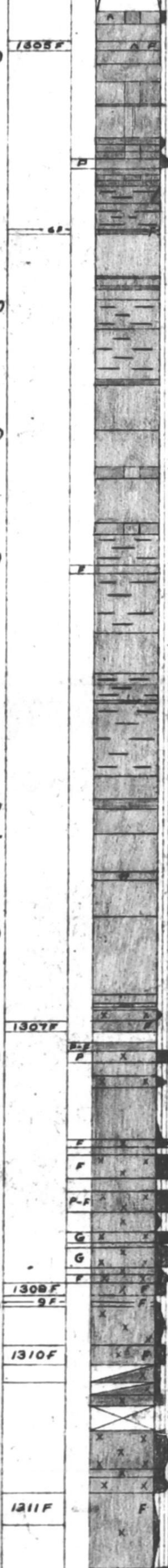


ORDOVICIAN

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DN GR, CALO IN TOP, VFG, THK SDD, SCAT PATCHES SIL FOSS.
M-DK GR, MOR-X, THK SDD, WI SIL CORALS AT BASE.
LT-DK GR, MOR-X, THK SDD, GR-GR SF BLKY WTHD.
LT GR, CALO, MOR-X, M-TNK SDD, GR SF WTHD.
LT GR, SL CALO, MOR-X, THK SDD, GR SF WTHD, CA INCLD.
DOL, CALO, GRDS TO DOL LST, LT GR, MOR-VFX, FW SCAT VUGS.
SPAN, LT GR-WH, F-MX, F VUG POR, SPARRY MAT.
LT GR, MOR-X, THK SDD, GRDS LAT TO M GR LST, FW GRN SH PTGS, RIPPLE MARKS.
LT GR, MOR-X, M-TNK SDD, OLIVE GRN, SH PTGS ON RIPPLE MARKED SDD PLANES.
LT-M GR, MOR-X, WI ADD SIL SOL CORALS.
LT-M GR, MOR-X, THK SDD, SF-GR SF WTHD.
LT-M GR, MOR-X, WI TWO DK GR MOR-X LST INBDS, SIL CORALS.
LT GR, MOR-X, THK SDD, WI OLIVE GRN & GRN SH PTGS, RIPPLE MARKS, SOLUTION VUGS.
M GR, MOR-X, M-TNK SDD, WI GRN & OLIVE GRN SH PTGS 1/4-1/8" THK ALONG SDD PLANES, GR & RUST WTHD.
M-DK GR, MOR-X, SIL FOSS, DK GR WTHD.
LT-M GR, MOR-X, M-TNK SDD, SF, RUST & GR WTHD.
LT GR, MOR-X, M-TNK 5"-3" SDD, SF-GR SF WTHD, CA FILLED VUGS.
LST, DOL AT BASE, M-DK GR, MOR-X, THK SDD.
LT-DK GR, MOR-X, 1"-4" SDD, SF & GR BLKY WTHD, CA INCLD.
LST, DOL, LT GR, CRYPTO-X-SUBLITH, THK SDD, CA STRES.
LT GR, MOR-X, 8"-4" SDD, WI FW TH GRN SH PTGS.
LT GR, MOR-X, WI SPARRY MAT, FAIR M-CRS VUG POR.
LT GR, MOR-X, 1"-4" SDD, WI TH GRN SH PTGS, SF GR & RUSTY WTHD.
LT GR, MOR-X, 1"-4" SDD, SF, RUST & GR WTHD, FW CA INCLD.
LT GR, MOR-X, WI PTGS TO 1/2" OLIVE GRN ON, RIPPLE MARKS.
LT GR, MOR-X, 1"-4" SDD, WI GRN & BRN SH PTGS TO 1/2" ALONG SDD PLANES, RUSTY, SF & GR WTHD.
M-DK GR, MOR-X, THK SDD, GR-GR SF BLKY WTHD.
M-DK GR, MOR-X, THK SDD, GR & SF WTHD.
DK GR, MOR-CRYPTO-X, 1"-4" SDD, GR & RUSTY GR WTHD, CA BLESS & INCLD.
M-DK GR, MOR-X, SDD, 1"-3" SDD, RUSTY GR & GR WTHD.
DK GR, MOR-CRYPTO-X, MASS THK 3-10" SDD, RUSTY GR & GR BLKY WTHD.
OLIVE GRN, ARG, MOR-X, BLK SH AT BASE.
SPAN, MOR-VFG SPARRY MAT, F-FAIR VUG POR AT BASE.
LT GR, F-MX, SO SPARRY MAT, F 1/2"-X POR.
LT GR, MOR-FX, TR SPARRY CA, GR & RUSTY WTHD, ISOL GR VUGS.
LT GR, MOR-X, THK 2"-4" SDD, GR & RUST BLKY WTHD, FW CA INCLD.
DOL, M GR, F-MX, FAIR M-CRS VUG POR.
LT GR, M-CRS X, THK SDD, FAIR VUG POR, GR & RUST WTHD.
LT GR, MOR-X, THK SDD.
LT-M GR, MX, F-FAIR 1/2"-X POR, GR & RUST WTHD.
LT GR, MOR-VFX, THK SDD, FW SCAT VUGS, SIL CORALS.
LT GR-WH, M-CRS X, THK SDD, PT FRI, GR 1/2"-X & VUG POR, PT RECESSIVE.
LT-DK GR, MOR-FX, THK SDD, QTZ XLS, SIL CORALS, STROMS.
LT-M GR, VFX, M-TNK SDD, M GR-GR SF WTHD, SIL CORALS.
DK GR, FX, THK MASS SDD WI ADD SIL CORALS.
LT GR-GR SF, VFX, M-TNK SDD, GR-GR SF WTHD, SIL CORALS.
DK GR, FX, THK MASS SDD, SIL CORALS, SULPH ODDOR.
LT GR, F-MX, M-TNK SDD, LT-M GR WTHD, SCAT VUGS.
LT GR, F-MX, 6"-1" SDD, GR & GR SF WTHD, TR CA.
LT-M GR, MOR-VFX, M-TNK SDD, GR-GR SF WTHD, STROMS, CORALS.

FAVOSITES SP.
STROMATOPOROIDS (SIL OR DEV)

FAVOSITES SP.
STROMATOPOROIDS (SIL OR DEV)

FAVOSITES SP. OR E. SP. NO
(SIL, PROB LATE LLANDOVERY OR EARLY WENLOCK)

DRG. No. G-1592/10

REPORT No. G.R.-99

PARTY No. 24

LATITUDE 62° 22' 00"

LONGITUDE 125° 55' 00"

DATE: JULY 4, 1961

SCALE: 1" = 100'

AUTHOR: L. M. SPRATT

TIME LOG		MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY
					0	H 2219			M/DK GR, SDG 2 ¹ -3 ¹ , WTND M/DK GR, HKLY, JTD.	
						20			DK GR, SDG 8 ¹ -2 ¹ , WTND M GR, HKLY, JTD.	
						1			M GR, SDG 6 ¹ -2 ¹ , WTND M GR, HKLY, JTD.	
						2			M GR, SDG 1 ¹ -2 ¹ , WTND M GR, HKLY, JTD.	
						3			DK GR, SDG 6 ¹ -2 ¹ , WTND M/DK GR, LOCAL FAULTING.	
						4			M/DK GR, SDG 1 ¹ -2 ¹ , FM F/MX DOL PATCHES AT BASE, LT/M BRN.	
						5			M GR, SDG MASS, WTND M/DK GR, SMOOTH R MASSES, FM INCL MASS FX DOL, M BRN, LEACHED VUGS.	
						6			DK GR, SDG MASS, WTND DK GR/BLK, BLKY.	
						7				
					100	H 2230				
						1			M/DK GR, SDG MASS, WTND M & DK GR, HKLY, LOC FAULTING & JOINTING.	
						2			DK GR, MASS SDG, WTND LT/DK GR, JTD.	
						3			M GR, SDG MASS, WTND LT GR SMOOTH, LEACHED SURF VUGS.	
						4				
						5				
						6				
						7				
					200	H 2240				
						1			DK GR, SDG 8 ¹ -1 ¹ TO MASS, IRREG, WTND DK GR, HKLY IN PT, SMOOTH IN PT.	
						2			DK GR, SDG 8 ¹ -1 ¹ , WTND DK GR, BLKY.	
						3			DK GR, SDG 4 ¹ -1 ¹ , WTND DK GR, BLKY, JTD.	
						4			DK GR/BLK, SDG 4 ¹ -10 ¹ IRREG, WTND DK GR/BLK, BLKY, JTD.	
						5				
						6				
						7				
					300	H 2245				
						6				
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M I D D L E D E V O N I A
N O R T H N A H A N N I R I V E R

1713.5' +

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1100
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1600
1700

H2288
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H2280
9
8
7
6
5
4
3
2
1
H2270
9
8
7
6
5
4
3
2
1
H2260
H2259



DK GR & BLK, MCR & VFX, WTND DK GR & BLK, BLKY, SDC IRREG 4th-10th
AT TOP, 2nd-2nd TOWARDS BASE, SCMG MORE MASS TOWARDS BASE.

DK GR, SDC 2nd-2nd, FETID ODOR, JTD, WTND DK GR, BLKY.

DK GR, MCR/VFX, SDC 2nd-2nd-MASS, IRREG, WTND DK GR, BLKY,
FETID ODOR, JTD.

DK GR, SDC 2nd-2nd-MASS, IRREG, WTND DK GR BLKY, WELL JTD, FETID ODOR.

DK GR, SDC 4th-3rd, WTND DK GR BLKY & ANG, FETID ODOR, JTD.

H/DK GR, SDC 2nd-2nd IRREG, MASS IN PT, WTND DK GR, BLKY, ANG,
FETID ODOR, WELL JTD.

H/DK GR & H GR-GRN, SDC 1st-2nd, SCMG MASS IN PT, WELL JTD,
WTND H/DK GR BLKY, WI VF LEACHED SURF VUGS, SM DEPOS. FOLDS PRESENT.

DRG. No G-1592/12

REPORT No. G.R.-99

PARTY No. 24

LONGITUDE 125° 19' 30"

SCALE: 1" = 100'

AUTHOR: E. O'Bertos & L. Spratt

DEVO N I A N F M. U P P E R M I D D L E

TIME LOG MAJOR FIELD DIVS FIELD UNITS THICKNESS DATUM SAMPLE NO POROSITY GRAPHIC LOG LITHOLOGY PALAEONTOLOGY

HARE INDIAN 70.0' 274.0' 801.0'

0 100 200 300 400 500 600 700 800 900

M H2555 6F 7 8 9 H2560 1 2 3 4 5 6 7 8 9 H2570 1 2 3 4 5 6 7 8 9 H2580 1 2 3 4 5 6 7 8 9 H2590 1 2 3 4 5 6 7 8 9 H2600 1 2 3 4 5 6 7 8 9 H2610 1 2 3 4 5 6 7 8 9 H 2616 H 828 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SH, FISS, DK GR-BLK, CALO SHDS, CA VNS, BLK FLY WTHD.
SH, BL CALO, PLTY-FISS, BLK, BLK & BRN PLTY & FLY WTHD.
SH, CALO, SIT, BLK, LST SHLY, DK GR & DK GR CALO SH INSD, BRACHS.
SH, CALO, DK GR-BLK, INSD WI DK GR SHLY LST, RECH FOSS SHS, BRACHS.
LST, DK GR, MOR-X, 6"-10" SHS, CA VNS, INCL, STRO, M GR WTHD, CORALS.
LST, DK GR, MOR-X, 6"-2" SHS, CA VNS, STRO, PTCH, M GR WTHD, ADD CORALS.
DK GR, MOR-X, SHS, MASS, V THK SHS, CA, GR MASS WTHD.
M-DK GR, MOR-X, SHS, 4"-5" SHS, CA VNS, STRO, LT GR-GR SF WTHD, CORALS.
M-DK GR, MOR-X, MASS, V THK SHS, CA VNS, STRO, INCL, LT-M GR MASS WTHD, CLIFF FORM.
DK GR, PT BIOCLASTIC & NOD, 3"-8" SHS WI SH PTGS, CORALS, TRILOBITES.
DK GR, MOR-X, SHS, 4"-1" SHS, CA IRREG VNS, BLESS, LT-M GR WTHD.
DK GR, MOR-X, IRREG 3"-8" SHS WI SH PTGS (5%), RECESS DK GR WTHD, BRACHS.
DK GR, MOR-X, 8"-3" SHS, CA, LT-M GR IRREG PT NOD WTHD.
M-DK GR, MOR-X, 6"-2" SHS, IRREG GR SF & MAUVE WTHD.
LT-M GR, CRYPTO-X, TH-M SHS, LT GR PLTY WTHD, CORALS, BRACHS.
DK GR, MOR-X, SHS, CA VNS, GR SF & PK WTHD.
LT GR, MOR-X, 1"-8" SHS, LT GR TH SLDY & PLTY WTHD.
CORALLIF, DK GR, MOR-VFX, WI SCAT BLK GR NODS, ADD CORALS, STROMS.
PT CORALLIF, M GR, MOR-X, 4"-1" SHS, CA VNS, LT GR WTHD, CORALS, STROMS.
BIONIC, M-DK GR, 1"-3" SHS, LT GR MASS WTHD, ADD CORALS.
CORALLIF, M-DK GR, MOR-X, WI PTGS GR CALO SH (5%), GR WTHD.
LT-M GR, SUBLITH-FX WI GR CALO SH PTGS, SF, LT GR WTHD.
NOD, DK GR, MOR-X, OCC BIONIC, WI IRREG PTGS SH & ARG LST (5-10%), M GR, SF WTHD, CORALS.
ARG, DK GR, GRDS TO CALO SH, TH SHS, GR SF PLTY WTHD.
PT NOD, DK GR, 2"-6" SHS, BRN NOD, POCKETS OF PYR.
DK GR, VFS, FISS, SL ARG, M BRN & GR IRREG WTHD, BRACHS.

LESIONYMCHUS CASTANEA
AS AD & ATRYPA ARCTICA
(M. DEVONIAN)

SCNUCHERTELLA ADOCETA CRICKMAY (M. DEVONIAN)

M I D D L E M O U N T A I N

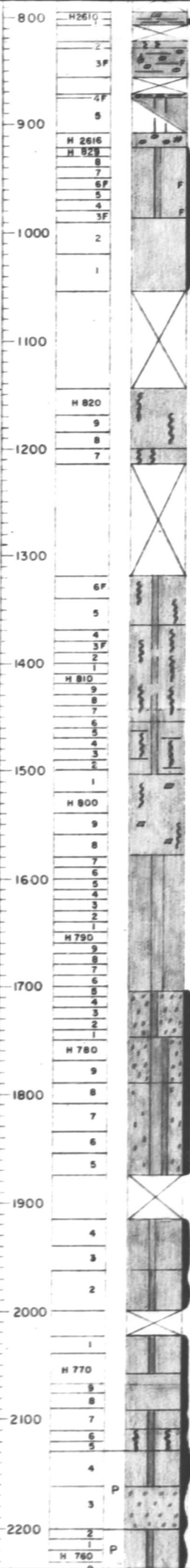
R N I C A F M.

LOWER

694.8' +

560.5'

80



LT-GR GR, SUBLITH-FX WI GR CALO SH PTGS, SF, LT GR WTHD.

NOB, BK GR, MOR-X, OCC BIONIC, WI IRREG PTGS SH & ARG LST (5-10%), M GR, SF WTHD, CORALS.

ARG, BK GR, GRDG TO CALO SH, TH SOD, GR SF PLY WTHD.

PT NOB, BK GR, 2nd-6th SOD, BRN NOB, POCKETS OF FYR.

DK GR, VFG, FISS, SL ARG, M BRN & GR IRREG WTHD, BRACHD.

DK GR, VFG, P 1st-6th SOD, BRN GR HOLY WTHD.

DK GR BRN, CRYPTO-X, CA VMS, MASS, LT GR WTHD, PITTED.

SL ARG, BK GR BRN, MOR-X, MASS, CA BLESS, STROS, LT GR WTHD.

ARG IN PT, BK GR BRN, MOR-X, 1st-10th IRREG SOD, PLY & HOLY LT-M GR WTHD.

SL ARG, BK GR BRN, MOR-X, 2nd SOD, CA VMS, TH GR BRN.

DK GR BRN, MOR-X, CA STROS, BLESS, LT GR WTHD, CLIFF FORM.

ARG, BK GR BRN, MOR-X, 1st-6th SOD, LT GR WTHD.

M GR, FG, SL SUC & CALO, WTHD M GR, PITTED.

ARG, BK GR, FG, PT SUC, SL CALO, STROS WH SOL, M-DK GR WTHD.

ARG, BK GR, FG, SL CALO, MASS, M-DK GR WTHD.

ARG, BK GR, FG, LT-DK GR WTHD.

M-DK GR, VF-FG, SL CALO, WH WH SOL FRAGS, 1st-2nd SOD, M GR EXT WTHD.

M-DK GR, VF-FG, SL CALO & SUC, P SOD, M GR WTHD.

LT & BK GR, FG, SUC, 1st-1st P SOD, SOD SLK & WH SOL.

LT-M & BK GR, VF-FG, SL CALO, ARG WH SOL VMS.

M-DK GR, VF-FG, SL CALO & SUC, P FOR, WH SOL INFILLINGS.

M-DK GR, VF-FG, SL CALO, P 1st-6th FOR, PETID QDOR.

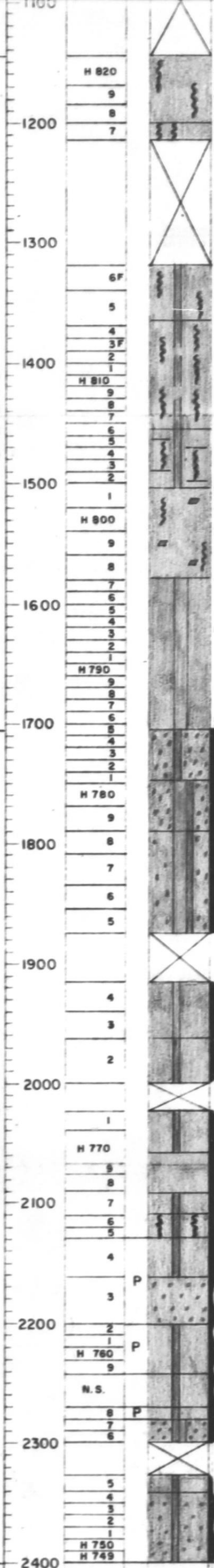
SCHUCHERTELLA ADOGETA CRICKMAY (M. DEVONIAN)

M I D D L E
 A R R I C A F M.

LOWER

694.8'

560.5'



DK GR SRN, CRYPTO-X, CA VMS, MASS, LT GR WTHD, PITTED.

SL ARG, DK GR SRN, MCR-X, MASS, CA SLESS, STROS, LT GR WTHD.

ARG IN PT, DK GR SRN, MCR-X, 1/2-10" INREG SSS, PLTY & RDLY LT-M GR WTHD.

SL ARG, DK GR SRN, MCR-X, 2" SSS, CA VMS, TH GR SSS.

DK GR SRN, MCR-X, CA STROS, SLESS, LT GR WTHD, CLIFF FORM.

ARG, DK GR SRN, MCR-X, 1/2-5" SSS, LT GR WTHD.

M GR, FG, SL SUC & CALC, WTHD M GR, PITTED.

ARG, DK GR, FG, PT SUC, SL CALC, STROS WH DOL, M-DK GR WTHD.

ARG, DK GR, FG, SL CALC, MASS, M-DK GR WTHD.

ARG, DK GR, FG, LT-DK GR WTHD.

M-DK GR, VF-FG, SL CALC, WH-WH DOL FRAGS, 1'-2' SSS, M GR EXT WTHD.

M-DK GR, VF-FG, SL CALC & SUC, P SSS, M GR WTHD.

LT & DK GR, FG, SUC, 1/2-1" P SSS, SSS SLK & WH DOL.

LT-M & DK GR, VF-FG, SL CALC, ADD WH DOL VMS.

M-DK GR, VF-FG, SL CALC & SUC, P FOR, WH DOL INFILLING.

M-DK GR, VF-FG, SL CALC, P IN-S FOR, PETID ODOR.

M GR, VF-FG, SL CALC, P 1/2-5" SSS, PETID ODOR, LT GR WTHD.

LT GR, FG, SL CALC, SUC, 5" SSS, INDD WI DK GR ARG, FG DOL.

LT-M GR, VF-FG, SUC, SL CALC, 1'-4' SSS, INDD WI DOL, DK GR, VF-FG, SL CALC, SUC, LT & DK GR WTHD.

DRG. No. G-1592/13

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 125° 41' 00" W.

AUTHOR: L.M. SPRATT

1 of

DRG No. G-1592/16

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 126° 23' 25 W

AUTHOR: L. M. SPRATT

1 of

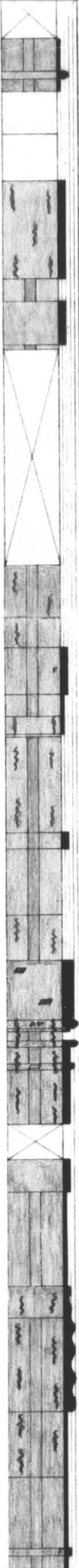
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M 832 F

M 833 F



DK GR-BRN, VF FRAGL, 4th-1st SHDS, WTHD M BRN & DK GR MOTT, BLKY, HD.
M/DK GR, FRAGL, SPAR CA MTX, FG CA XLS, BDG 1st-1st, WTHD M BRN, DK GR,
DK GR-BRN, ARG, HD, SCAT SPAR CA, FG, BDG 1st-4th, WTHD M GR, PLTY BLKY.
DK GR/BLK, ADD FG SPAR CA, BDG 1st-6th, WTHD M GR, PLTY.

DK GR, ADD SPAR CA, FG, BDG 3rd-5th, WTHD M GR & BRN, MASS/SMTH.

M GR WI SPAR CA, WTHD M GR & BRN, BLKY.

DK GR/BLK, BDG MASS & PLTY IRREG, WTHD M/DK GR & BRN, RGLY/HKLY.
DK GR-BRN, FRAGL, WI SPAR CA, BDG 4th-MASS, WTHD M GR, PITTED, HD.
DK GR, BDG 1st, FRAC, JTD, WTHD DK GR.

DK GR-BRN WI FG SPAR CA FRAGS, BDG 2nd-2nd-MASS, WTHD M GR, BLKY.

DK GR WI FG SPAR CA, BDG 1st-2nd, WELL BDG WI WYV TH SHDS IN PT,
WTHD LT BRN & DK GR, BLKY, FOSS, BRYOZOA.
DK BRN-GR, VF FRAGL IN PT, BDG 1st-2nd, WTHD LT BRN & DK GR, MASS.
DK GR, ADD SPAR CA, BDG 1st-2nd, JTD, FRAC, WTHD M GR, FRM, PITTED.

DK GR-BRN, SPAR CA IN PT, BDG PLTY 1st-3rd, FRAC, JTD, WTHD M BRN
& DK GR/BLK.

DK BRN-GR WI FG SPAR CA, BDG 2nd IRREG, WTHD LT BRN & DK GR.
M/DK BRN WI FG SPAR CA, BDG 4th-2nd, WTHD M GR, PITTED, HD, HKLY IN PT.
DK BRN-GR, WI SPAR CA, BDG 4th FRM, WTHD M GR, SL PITTED, HKLY IN PT.

M & DK GR MOTT, ADD WH CG DOL PTCHS, FRAC, JTD IN PT, MASS BDG,
WTHD LT BRN & DK GR WI WH PTCHS.
LT/M/DK GR MOTT, SPKLD, ADD CG DOL XLS & PTCHS, BDG MASS IRREG,
FRAC, JTD, WTHD LT BRN & DK GR WI WH PTCHS, BRG APP.
IN IMPR BREC.
DK GR, BDG IRREG/MASS, FRAC, WTHD M BRN & BLK VND WI WH, FETID ODOR.
DK GR, BDG MASS, FRAC, WTHD DK GR/BLK WI WH VHS.

M GR WI CG WH DOL XLS, BDG MASS, FRAC, WTHD M GR, SL HKLY.
DK GR, BDG 1st-3rd, FRAC, JTD, WTHD DK GR, BLKY & HKLY.

M/DK GR, WTHD M BRN & DK GR, HKLY.
DK GR/BLK, SUC, FRI, BDG MASS, FRAC, JTD, WTHD DK GR, BLKY, RGLY.

DK GR, BDG 2nd/MASS, IRREG, WI TH SHDS F/MG M GR DOL, ADD MG DOL XLS,
WTHD DK GR & WH, HKLY.
DK GR, WI TH SHDS M/DK BRN-GR CRYPTO-X DOL, BDG MASS, FRAC, JTD.
M/DK GR WI CG DOL XLS, BDG 2nd-1st IRREG, WTHD M/DK GR, HKLY,
FOSS FRAGS = SOL TUBES NON ORIENTED.

2 of

M I D L E

A R N I C A F M

2091.2' +

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2900
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3300
3400
3500
3600

H833 F

H834 F

DK GR/BLK, SUC, FRI, SDG MASS, FRAC, JTD, WTHD DK GR, BLKY, RSLY.

DK GR, SDG 2nd/MASS, IRREG, WI TH BNDG F/MG M GR BOL, ADD MG BOL XLS, WTHD DK GR & WH, HKLY.

DK GR, WI TH BNDG M/DK BRN-GR CRYPTO-X BOL, SDG MASS, FRAC, JTD.

M/DK GR WI CG BOL XLS, SDG 2nd-1st IRREG, WTHD M/DK GR, HKLY, FOSS FRAGS - SOL TUBES NON ORIENTED.

M/DK GR, SDG 2nd-1st IRREG, WTHD M/DK GR, HKLY.

FETID ODOR.

VF/FG WI BNDG OF MG, M GR, ADD MG BOL XLS, SDG 4th-1st IRREG, WTHD M/DK GR.
M GR, ADD FG BOL XLS, SDG 2nd-2nd IRREG, WTHD LT & M GR BNDG, BLKY SL WYV BDD.

DK GR, SDG 4th-2nd, WTHD M BRN & LT/DK GR, HKLY & MASS, PITTED, WI TH BNDG LT GR MCR-X BOL, SDG 2nd-1st IRREG, WTHD LT GR & TH.

M/DK GR WI FG BOL XLS, FW VF VUGS THR'OUT, FOSS, SPKLD WI TUBULAR MASKS.

M GR WI BOL XLS, SDG 2nd-1st IRREG, JTD, FRAC, WTHD LT/M GR, BLKY.

LT/M GR, SDG 4th-2nd IRREG, WTHD LT GR & BRN, HKLY & MASS, SMTH IN PT.
M/DK GR, SDG MASS, WTHD M/DK GR, HKLY.

LT GR-BRN, SDG 4th-8th IRREG, WTHD LT/DK GR, HKLY.

M/DK GR-BRN, SDG 2nd-1st IRREG, WTHD LT GR, HKLY, PITTED, FRAC.

LT GR-BRN, SDG 2nd-1st IRREG, WTHD M/DK GR, HKLY.

LT GR-BRN, SDG 2nd-1st IRREG, WTHD M/DK GR, HKLY/BLKY, JTD.

DK GR, SDG 2nd-1st, WTHD DK GR, BLKY, FRAC & JTD.

LT/M GR WI MG BOL XLS, SDG 6th-2nd, WTHD DK GR, BLKY, JTD.

LT BRN, SDG 2nd-8th, WTHD LT BRN & DK GR, HKLY.

M GR, SDG 4th-10th, WTHD DK GR, HKLY.

DK GR, SDG MASS, JTD, WTHD M & DK GR, BLKY, WI TH BNDG WH SPKLD BOL, FW VUGS.

DK GR, WI SCAT FRAGS CG WH BOL, SDG 4th IRREG, WTHD M/DK GR, BLKY, JTD.

DK GR, SDG 2nd-6th, WELL BDD, WTHD M/DK GR, BLKY, JTD.

LT GR-BRN & M GR, SDG 2nd-1st WELL BDD, WTHD M GR, BLKY, JTD.

DK GR-BRN, SDG 1st-4th-MASS, IRREG JTD, WTHD DK GR, BLKY.

M GR WI ADD FG BOL XLS, SDG 2nd-10th IRREG, LOC FLGG.

DK GR WI CG BOL XLS, SDG 4th-10th REG, WTHD M/DK GR, BLKY, JTD.

DK GR, SDG 1st-MASS, IRREG, WTHD M GR, BLKY, JTD, SCMG V ARG & RSLY IN PT.
LT GR-BRN, SDG 4th-8th IRREG, WTHD M GR, BLKY, JTD.

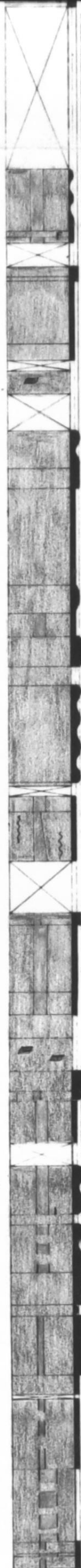
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M I D A
R N C A

2091.2'

2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800

H834F



DK GR, SDG 4th-2nd, WTHD M BRN & LT/DK GR, HKLY & MASS, PITTED,
WI TH SDS LT GR MCR-X DOL, SDG 2nd-1st IRREG, WTHD LT GR & TH.

M/DK GR WI FG DOL XLS, FW VF VUGS THR'OUT, FOSS, SPKLD WI TUBULAR MARKS.

M GR WI DOL XLS, SDG 2nd-1st IRREG, JTD, FRAC, WTHD LT/M GR, BLKY.

LT/M GR, SDG 4th-2nd IRREG, WTHD LT GR & BRN, HKLY & MASS, SMTH IN PT.

M/DK GR, SDG MASS, WTHD M/DK GR, HKLY.

LT GR-BRN, SDG 4th-8th IRREG, WTHD LT/DK GR, HKLY.

M/DK GR-BRN, SDG 2nd-1st IRREG, WTHD LT GR, HKLY, PITTED, FRAC.

LT GR-BRN, SDG 2nd-1st IRREG, WTHD M/DK GR, HKLY.

LT GR-BRN, SDG 2nd-1st IRREG, WTHD M/DK GR, HKLY/BLKY, JTD.

DK GR, SDG 2nd-1st, WTHD DK GR, BLKY, FRAC & JTD.

LT/M GR WI MG DOL XLS, SDG 6th-2nd, WTHD DK GR, BLKY, JTD.

LT BRN, SDG 2nd-8th, WTHD LT BRN & DK GR, HKLY.

M GR, SDG 4th-10th, WTHD DK GR, HKLY.

DK GR, SDG MASS, JTD, WTHD M & DK GR, BLKY, WI TH BNDG WH SPKLD DOL,
FW VUGS.

DK GR, WI SCAT FRAGS CG WH DOL, SDG 4th IRREG, WTHD M/DK GR, BLKY, JTD.

DK GR, SDG 2nd-6th, WELL BDD, WTHD M/DK GR, BLKY, JTD.

LT GR-BRN & M GR, SDG 2nd-1st WELL BDD, WTHD M GR, BLKY, JTD.

DK GR-BRN, SDG 1st-4th-MASS, IRREG JTD, WTHD DK GR, BLKY.

M GR WI ABD FG DOL XLS, SDG 2nd-10th IRREG, LOC PLDG.

DK GR WI CG DOL XLS, SDG 4th-10th REG, WTHD M/DK GR, BLKY, JTD.

DK GR, SDG 1st-MASS, IRREG, WTHD M GR, BLKY, JTD, SCMG V ARG & RDLY
IN PT.

LT GR-BRN, SDG 4th-8th IRREG, WTHD M GR, BLKY, JTD.

DK GR, SDG 4th-8th IRREG, WTHD M GR, BLKY, JTD.

M GR-BRN, 1st-10th IRREG, WTHD DK GR, BLKY, JTD, HVLY FRAC IN PT, RDLY.

M GR-BRN WI ABD CG DOL XLS, SDG IRREG TH/MASS, WTHD DK GR, RDLY.

DK GR, SDG IRREG, TH/MASS, WTHD DK GR, BLKY, WI BNDG F/MG DOL.

M GR, 2nd-10th IRREG BDS, WTHD DK GR, BLKY, JTD.

M GR, SDG TH IRREG-MASS, WTHD DK GR, BLKY, JTD.

DK GR, SDG IRREG/MASS, WTHD DK GR, BLKY.

M/DK GR WI TH BNDG V DK GR, V ARG FRI DOL, SDG 2nd-10th-MASS, IRREG,
WTHD DK GR, BLKY, JTD.

4 of 4

TRIAD OIL CO. LTD.

DRG. No. G-1592/15

SECTION 24-15

REPORT No. G.R. 99

LOCATION: MARTEN CREEK

PARTY No. 24

MAP REFERENCE:

LATITUDE 63° 23' 00" N

LONGITUDE 125° 56' 00"

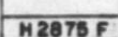
DATE: JULY 30 1961

SCALE: 1" = 100'

AUTHOR: R. Pemberton E.O. Bertos

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	DATUM	SAMPLE NO.	POSIBILITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY
	HUME FM.	LOWER	225.5' ±					
			0				LT-M GR, MOR-X, 4"-1" SSS, CA VNS, SLESS, LT GR WTHD.	
			100				LT-M GR, MOR-CRYPTO-X, M-TNK SSS, LT GR SLKY WTHD.	
			200				M GR, SUGLITH, TH-TNK SSS, LT GR SLKY & SLEY WTHD. M GR, MOR-X, SSS, M-TNK SSS, LT GR WTHD.	
			300				LT-M GR, MOR-X, M-TNK SSS, CA VNS, SLESS, LT & M GR WTHD. CALC AT BASE, FX, THK SSS, SCAT CA INCLS, DK GR WTHD. M-GR GR, MOR-X, SSS, M SSS, CA, LT GR WTHD. DK GR, FX, THK SSS, CA INCLS, DK GR WTHD. M-GR GR, FX, THK SSS, DK GR WTHD.	
			400				M-GR GR, F-FX, THK SSS, IRREG MAG VNS, M-GR GR WTHD. DK GR, FX, SREG AT TOP, MAG VNS, DK GR WTHD. LT GR, MOR-X, SSS, LT GR WTHD.	
			500				M-GR GR, VF-FX, THK SSS, TH MAG VNS, DK GR WTHD. M-GR GR, VFX, THK SSS, ADD IRREG VNS & INCLS MAG.	
			600				M-GR GR, VF-FX, MAG VNS, STREG, M-GR GR WTHD. DK GR, FX, THK SSS, ADD VNS, STREG, WH DOL, DK GR WTHD. DK GR, VF-FX, ADD VNS, STREG WH DOL, TR QTZ XLS.	
			700				DK GR, FX, THK SSS, MAG VNS, STREG, TR CA. M-GR GR, FX, THK SSS, ADD WH DOL VNS, FW QTZ XLS. BRECCIA, DOL, GR, VF-FX TO 3 rd PIECES, HWY DOL VNS, QTZ XLS. DOL, DK & LT GR (BANDED), THK SSS, WI ADD VNS MAG, DK & LT GR BANDED WTHD. DK GR, FX, OCC SREG, DK GR WTHD.	
			800				M-GR GR, FX, MASS THK SSS, HWY MAG VNS.	
			900				DK GR, FX, MASS THK SSS, ADD VNS, STREG WH DOL, DK GR WTHD.	
							DK & LT GR (BANDED), MOR-VFX, IRREG VNS, STREG & INCLS MAG, DK & LT GR BANDED WTHD.	

1915.5'



SL SBY, LT GR, VFX, DISORD FLTG SB, P SB, SF WTHD.

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S O M B R E
F M.

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C A M S E L L F M.

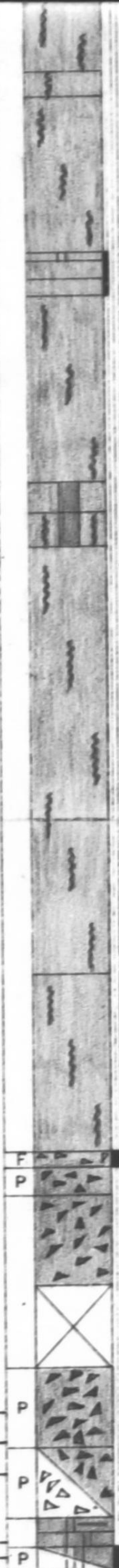
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2650' +

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2700
2800
2900
3000
3100
3200
3300
3400
3500

H 3149
H 3148
H 3147
H 3146



LT GR, MOR-X, DND, THK MASS SD, CA VHS, INCL, LT GR & SF MASS WTHD.

DOL, LT GR, MOR-CRYPTO-X, DND & HD, 4'-10' SD, MINOR CA VHS, STRONG & INCL, LT GR & SF WTHD.

SL SHY, LT GR, VFX, DISPERSED FLTS SD, P SD, SF WTHD.
LT GR, MOR-VFX, THK 5-10' SD, LT GR WTHD.

LT GR, MOR-CRYPTO-X, DND, MASSIVE SD, CA VHS, INCL, STRONG,
LT GR & SF WTHD.

CALO, LT GR, MOR-CRYPTO-X, DND, THK-M SD.

LT GR, MOR-CRYPTO-X, MASS, DND, THK SD, INREG TH OAKND, XLS
& INCL, LT GR & SF WTHD, PM VHS.

DOL, PT BRECCIA, M-OK GR, FX, FAIR IN-X & VHS FOR.
BRECCIA, LOT & DOL, OK GR DOL FRGS IN LT GR MOR-X LOT HTX, P VHS FOR.

AS AS, NO VIS FOR.

BRECCIA, FRAGS DOL, OK GR, MOR-X, & LOT, DOL, GR, HTX DOL, CALO,
MOR-VFX, TR P-P FOR, M-OK GR SLKY WTHD.

BRECCIA AS AS W/ SL IN-X FOR.

CALO, GRGS TO LOT, ARG, CRYPTO-MOR-X, M-OK GR.
SLTY, SL ARG, M GR, FX, BOAT IN-X & VHS FOR.

I

M

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3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

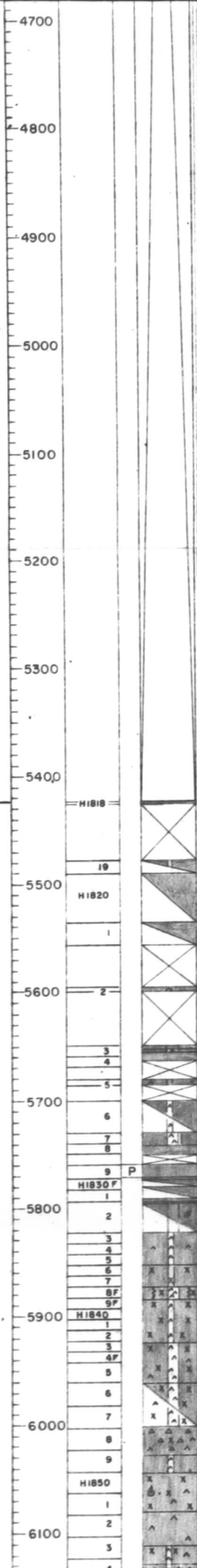
4500

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4700

4800

U R I A N
F M S.



V DK GR, MOR-X, DND, M BDD, M GR-BRN BLKY WTHD.

Mio, SL BLTY GR SIL, LT BRN-GR, TH BDD, SF PLTY WTHD.

Mio, LT-DK GR & BRN, THK BDD, SF BLKY WTHD.

SL SIL, LT GR BRN, VFX, TH BDD, GR BRN PLTY WTHD.

ARG & SIL AT TOP, LT BRN-DK GR, CRYPTO-X, TH-M BDD.

SL SIL IN PT, LT BRN-DK GR, THK BDD, M-DK GR BLKY WTHD.

SIL, TR BDD, DK GR BRN-DK GR, M-TH BDD, GR BLKY WTHD.

Mio, SL EARTH, V DK GR, TH BDD, VUGGY POR.

ARG, M GR, DND, TH IRREG BDD, TR PYR, SF RSLY WTHD, RECEDING.

SL SIL, M GR BRN, CRYPTO-MOR-X, VUGGY ZONES, QZ XLG.

SL BDD, M GR BRN, MOR-VFX, THK BDD, LT GR BLKY WTHD.

SL SIL, M-DK GR, VP-FX WI SIL PATCHES, GR BLKY WTHD, SIL CORALS.

SIL, DK GR, FX, WI SIL PATCHES, THK BDD, COLONIAL CORALS.

AS AS WI LT BRN ON LENSES.

V DK GR, MOR-VFX, TR BIOPHAG, SIL PATCHES, DK GR BLKY WTHD.

Mio, ALT M BRN & DK GR, SOAT SIL MAT, SF-DK GR PLTY & RSLY WTHD.

FAVOSITES SP. (PROB SIL)

5.

S I L U R I

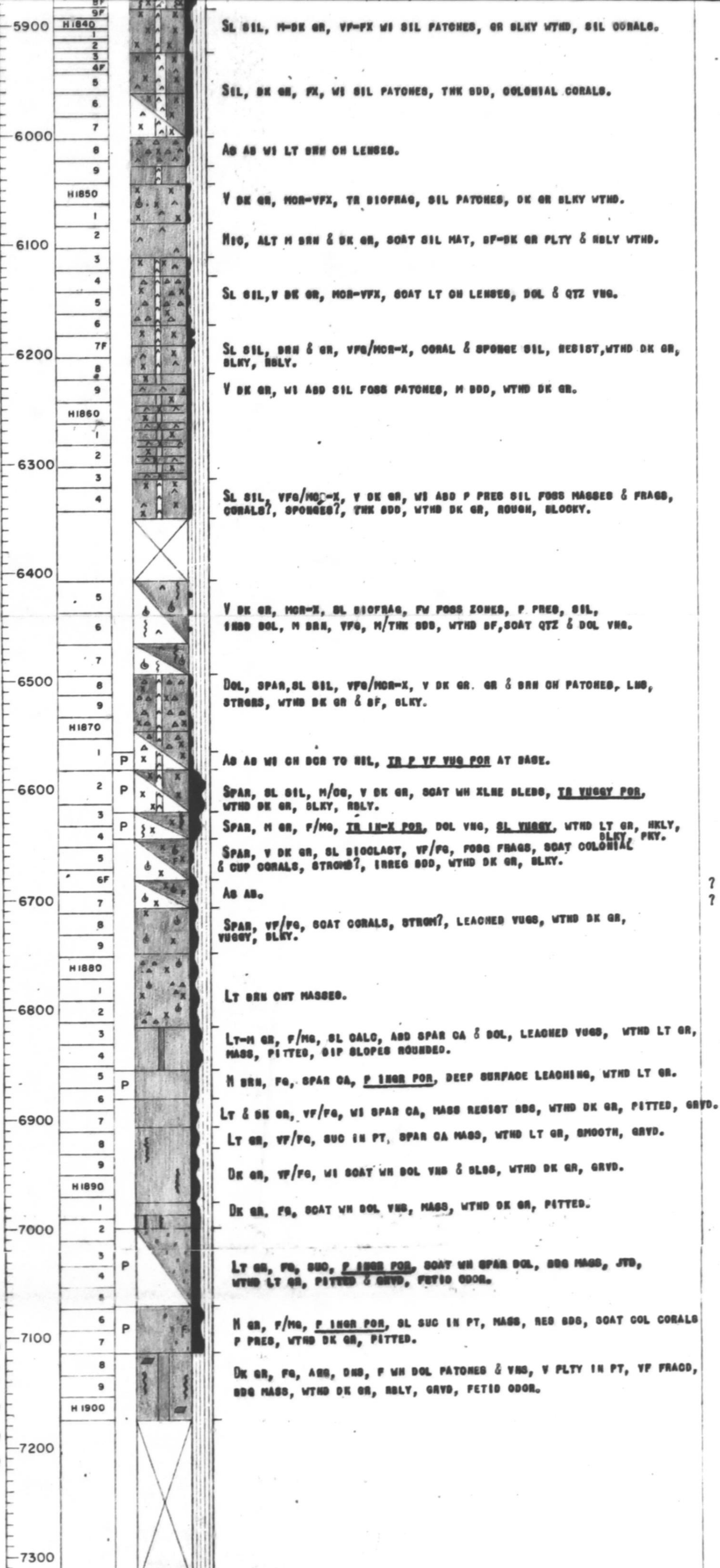
F M S.

D E L O R M E

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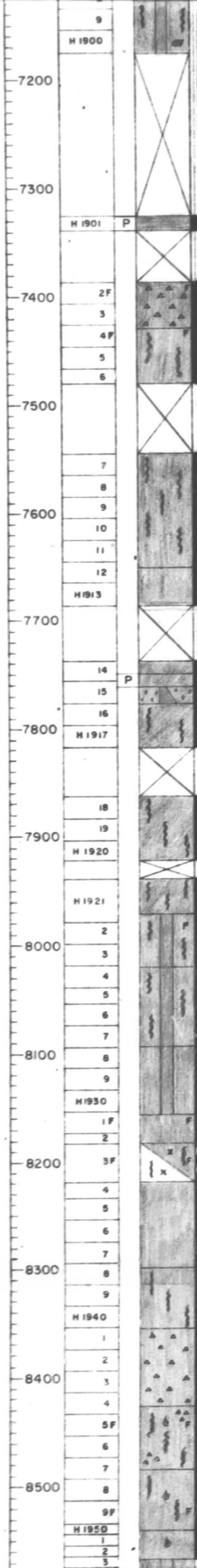
3367.0'



? FAVORITES SP. (PROB SIL)
? STREPTELAGMA SP.

O R D O V I C I A N W H I T T A K E R

3367



DK GR, FG, ARG, DMS, F WH SOL PATCHES & VMS, V PLTY IN PT, VP PRNG, SSS MASS, WTHD DK GR, HOLY, GRVD, PETID ODOR.

H 1900

7200

7300

H 1901 P

H GR, F/MG, WI SPAN CA, P INGR FOR, MASS RES SSS, WTHD LT & DK GR, HOLY, PETID ODOR.

7400

2F

3

4F

5

6

H GR, FG, ADD ON VMS 1st-2nd TH, SSS 2nd-1st TO MASS, RESIST, WI COLONIAL & SOL CORALS AT TOP, SIL.

DK GR, FG, ADD VP WH CA VMS, MASS RESIST SSS, WTHD M/DK GR, DEEPLY PITTED & GRVD, PETID ODOR, WI ADD CORAL FOSS.

7500

7

8

9

10

11

12

H 1913

H & DK GR, FG, IRREG PATCHES, WI PATCHES LT GR, MASS RESIST SSS, WTHD M GR, DEEP. LARGE PITS.

7600

14

15

16

H 1917

H GR, FG, DMS, MASS SSS, WTHD LT GR, SL PITTED.

As AB, P INGR FOR, F/MG.

H/DK GR, FG, SL ARG ENDS TO V ARG, SUC & FRI, FG, DK GR/BLK AT BASE, MASS SSS, WTHD DK GR, PITTE.

7700

18

19

H 1920

H & DK GR, FG, MOTT, F SOL VMS, MASS RESIST SSS, WTHD M & DK GR, MOTT.

7800

H GR, F/MG, SUC, FRI IN PT, SOAT CA VMS, VP, MASS, WTHD DK GR, PITTED.

7900

2

3

4

5

6

7

8

9

H 1930

H GR, VFG, FOSS, MASS SSS, WTHD LT GR, GRVD & PITTED, ADD COLONIAL & SOLITARY CORALS & BRACHS, SIL.

DK GR/BLK, MCR-X/VFG SUC, FM CA VMS, SOAT COLONIAL CORALS, SSS MASS, M & DK GR PITTED WTHD.

8000

4

5

6

7

8

9

H 1940

H GR, VFG, DMS, MASS SSS, WTHD LT/M GR, SMOOTH.

8100

As AB WI FEW VP CA VMS.

8200

1

2

3

4

5F

6

7

8

9F

H 1950

H/DK GR, FG, FOSS FRAGL IN PT, MINOR SPAN CA & F CA VMS, SSS PLTY/MASS IRREG, OCC CH PATCHES, WTHD M GR PLTY/BLKY.

DK GR, FG, FOSS FRAGL IN PT, OCC CA VMS, MASS SSS, WTHD M GR, BLKY.

H/DK GR, FG, FOSS FRAGL, WI SPAN CA, SOAT COLONIAL & CUP CORALS, SSS MASS, WTHD M/DK GR, BLKY.

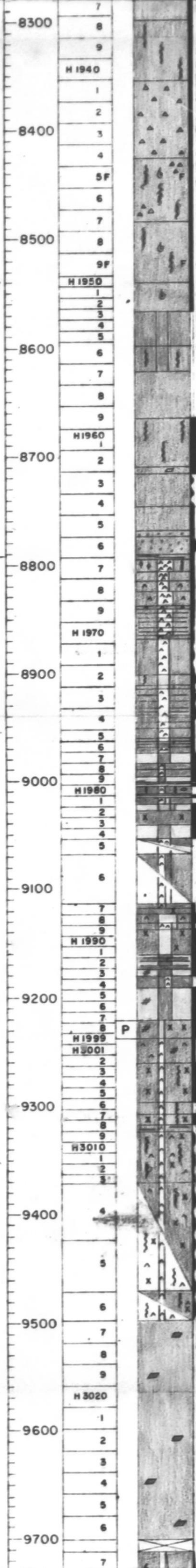
ADD MCR-X MASS STRIP LT & DK GR, ADD IRREG TH WTHD LT/M GR.

CATENIPORA 2 spp.
? FAYOOSTED spp. (Ord on Sil)
cf. SYRINGOPORA sp. (PROD SIL)

CALAPOECIA sp.
MANIPORA sp.
PALAEOPHYLLUM sp. (LATE Ord)
STREPTELAGMA sp.
cf. RHYNCHOTREMA sp.
PALAEOPHYLLUM sp.
CATENIPORA sp.
C. aff. C. RUBRA SINCLAIR & BOLTON)

PALAEOPHYLLUM sp.
CATENIPORA sp. aff. C. RUBRA (LATE Ord)
SARCINULA sp.
CATENIPORA (LATE Ord)

7 of



As as we few of OA VHS.

DK GR, VFS, DMS, FOSS, TH LYNS LT GR ON, MASS RESIST DMS, WTHD LT & M GR, ADD COLONIAL CORALS, FEW CUP CORALS, SIL.

H/DK GR, VFS, FOSS FRAGL IN PT, MINOR SPAN CA & F CA VHS, DMS PLTY/MASS IRRES, OCC ON PATCHES, WTHD M GR PLTY/SLKY.

DK GR, FS, FOSS FRAGL IN PT, OCC OA VHS, MASS DMS, WTHD M GR, SLKY.

H/DK GR, FS, FOSS FRAGL, WE SPAN CA, SCAT COLONIAL & CUP CORALS, DMS MASS, WTHD M/DK GR, SLKY.

ANG, MOR-X, IRREG STRKS LT & DK GR, DMS IRREG TH, WTHD LT/M GR, IRREG TAN WTHD DOL, DK GR, MOR-X, DMS IRREG TH.

SCAT VHS CA.

DK GR/SLK, CRYPTO-X, HD, IRREG FRAGL, DMS MASS, WTHD M GR & SLK, SLKY.

M GR, FS, SCAT VF CA VHS, 2nd-1st P DMS, WTHD LT/M GR, SLKY & RSLY.

DK GR, VF/FS, SCAT CA XLS, DMS 1st-2nd, WTHD TAN & GR, SLKY & GRVD.

M GR, MOR-X/VFS, DMS, 2nd-1st DMS, WTHD M GR & TAN, BLOCKY, IRREG WE DOL, 1st SANDS, TAN WTHD, LT/M GR, VFS, RSLY WTHD, SLKY.

LT/M GRN & GR, VF/FS DMS, FHM, DMS 2nd-2nd, WTHD TAN, SMOOTH, GRVD.

SPAN, MOR-X/VFS, SL DOL APP, V SIL, M GR, F CA VHS, DMS THK, WTHD M GR, SLKY.

SPAN, DF & GR, SIL, VFS, FERR IN PT, HD, DMS, TR SLK GARNET?, WH QZ XLS, SCMS QZIC.

M GR, OCC PK, SIL, CRYPTO-VFX, M-THK DMS, WTHD LT GRN, SL PK, SLKY.

DK GR, QZIC, VF-FX, THK DMS, OCC DOL STRKS & VHS, M-DK GR & DF SLKY WTHD. SIL, LT GRN & M GR, VFX, PT FERR, M-THK DMS, LT GRN & PURP WTHD.

SIL, GR, BRN, PURPLE, VFX, PT FERR, WTHD DF, BRN, PURPLE. BRN, PURPLE, ANG, SL SLTY, HIGH O-VFX, WTHD DF, PURPLE. DOL ORDS TO DOL, FS, O-R TO R, M GR, THK DMS, DF SLKY WTHD. DF-GR, SL SIL, VFX, THK DMS, STYLOLITES, DF SLKY WTHD.

SOT & DOL IRREG, SOT DOL, P-OS, GR-BRN, AND DOL SIL, GR-BRN, CRYPTO-X FE CONC, BRN WTHD. DOL, SL ANG, M GRN, M-OS, R, M DMS, BRN F SLKY WTHD. LT-M GRN, P-CK, MOTT PK, LT PK SLKY WTHD. LT GRN, M-OS, R, THK DMS, M GRN SLKY WTHD.

SL SIL & CAM RUST BRN, 1st-2nd DMS, RUST BRN PLTY-RSLY WTHD.

SL SIL, LT-GR GR, VFX, 1st DMS, GR-BRN WTHD.

SOT, BRN, VF-MO, THK DMS 1st-2nd, SOT LENSES, BRN & RUST SLKY WTHD.

SOT & DOL IRREG, SOT DOL, LT-M GRN, MO, R, & DOL PURPLE, BRN & PURPLE WTHD. SL CALO & SIL, LT GRN, DMS, THK DMS, DF SLKY WTHD.

LT GRN-GR, M-OS, R TO O-R, M-THK DMS, BRN SLKY WTHD.

SL DMS, LT GR, M-GR, TH IN-X FOR, M-TH DMS, M GRN PLTY WTHD.

SL SIL, M-GR GR, VFX, DMS, M-THK DMS, QZ XLS, DF SLKY WTHD.

As as, F-MX.

LT-GR GR, SL SIL, MOR-FX, PK DOL VHS, GR-BRN SLKY WTHD.

SL SIL, M-GR GR, CRYPTO-VFX, QZ XLS IN VUGS, THK DMS, ORANGE DOL VHS, WTHD M GR, SLKY.

V GR-GR GR, CRYPTO-MOR-X, THK DMS, PM WH DOL STRKS & DOL & CA PATCHES, WTHD M GR-BRN, SLKY.

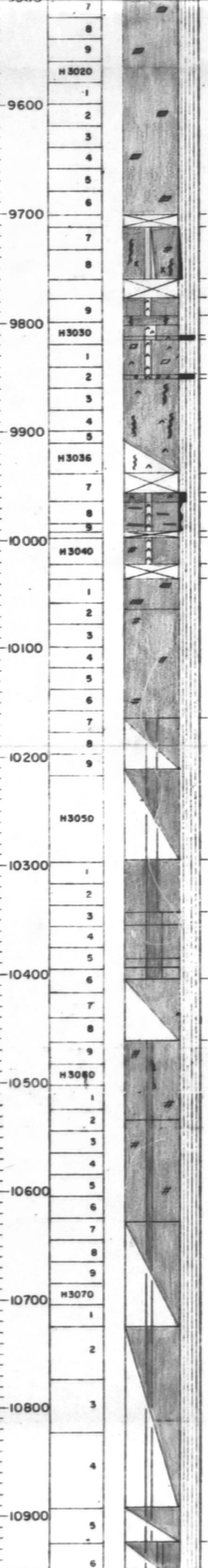
PALAEOPHYLLUM SP.
CATERIFORA SP. AFF. C. HUBRA } (LATE ORD)
SARCINULA SP.

CATERIFORA

(LATE ORD)

O R D O V I C I A N S U N B L O O D F M.

2260.2'



V BK-BK GR, CRYPTO-MOR-X, THE SDD, PM WH SOL STRESS & SOL & CA
PATCHES, WTHD M GR-BRN, SLKY.

SL SLTY-SBY, BK-M GR, CRYPTO-VFX, THE SDD, M GR-BRN SLKY WTHD.

SL SIL, BK-V BK GR, CRYPTO-MOR-X, 1st SDD, M GR-BRN SLKY WTHD.

QTZIC, BK GR MOTT PK, M-CX, PATCHES SOL & QTZ, RUSTY RED WTHD.

SL SIL, V BK-BK GR, MOR-CRYPTO-X, PATCHES WH QTZ & SOL,
M GR-BRN SLKY WTHD.

M-V BK GR, CRYPTO-MOR-X, PK & WH SOL VHS, QTZ IN VUGS,
4th-1st SDD, WTHD REDDISH BRN, SLKY.

SLTY, BRN & GR, MOR-FX, SDD, QTZ IN VUGS, LT SF SLKY WTHD.

SL SIL, BK GR, LOC ARG, M-THE SDD, M GR SLKY-RSLY WTHD.

SL SIL, V BK GR, SDD, NIC, TH-M SDD, M GR PLTY-RSLY WTHD.

BK GR, NIC, WI SCAT CRD XLS, IRREG M-THE SDD, M GR SLKY WTHD.

SLKY, V BK GR, NIC, SDD, TH SDD, M GR & BRN POKER CHIP WTHD.

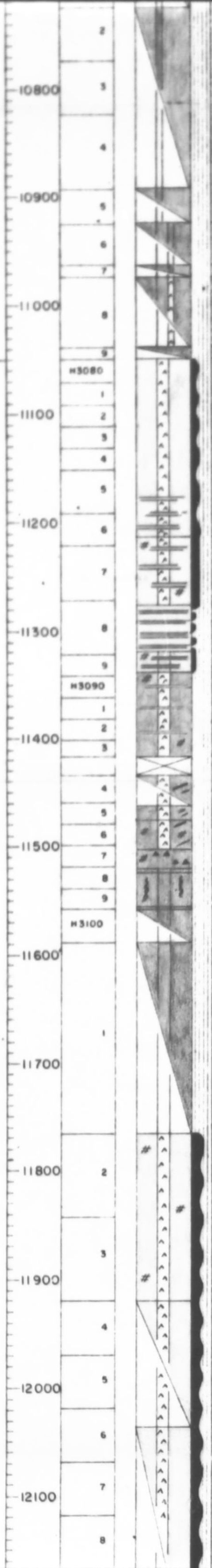
ARG AS, V PLTY, SLKY WTHD.

SLKY, NIC, V BK GR, V TH SDD, WTHD BK GR & BRN POKER CHIP.

V BK GR, NIC, TH-V TH SDD, WTHD M GR BRN, POKER CHIP.

SLKY, NIC, V BK GR, TH-V TH SDD, WTHD M BRN & GR PLTY & POKER CHIP.

ARG, SL GALS, V BK GR BRN, NIC, SDD, TH SDD, SF WTHD, RECEDING.



Arg, SL GALE, V BK GR BRN, NIO, DND, TH DDD, SF WTHD, RECEDING.

Arg, SL SIL, LT BRN, TH DDD, SF WTHD.

PURPLE NIO, FERR, DND, TH DDD, PURPLE PLTY WTHD.

QTZITE, REDDISH PURPLE, SIL GEN, VF-FG, FERR, S-R, THK DDD, TH ONLY QTZITE DDD, PK SLKY WTHD.

QTZITE, PK-PURPLE, FG, SIL GEN, TH ONLY SLTY ZONES, THK DDD, PURPLE-PK SLKY WTHD.

QTZITE AS AB, INDD W/ 2nd-3rd ZONES PURPLE QTZITIC GR.

QTZITE, SLTY, RD-PURPLE, VFG, M DDD, INDD W/ QTZITIC RD GR?, RUST GRN-GR & PURPLE WTHD.

SIL, SL FERR, BK GR, BRN & RD, FW 1st GR QTZITE INDD, RD PLTY WTHD.

SIL, SLTY, GRN BRN & RD, V RD, PT FERR, RUSTY PLTY WTHD.

AB AS, MORE RESISTANT, SCAT PYR, PLTY WTHD.

NIO, V BK GR, INREG SLK GR LENSES & PATCHES, THK DDD, RUST SLKY WTHD.

ARG?, V BK GR, CRYPTO-MOR-X, 4th-10th DDD, SOL VNO, RUSTY GRN SLKY WTHD.

ARG, M-BK GR, M-TH DDD, RUSTY, PLTY & RSLY WTHD.

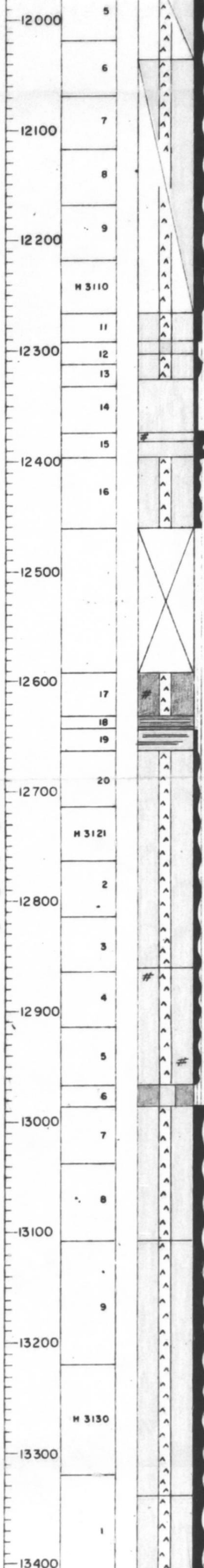
QTZITE, WH-V LT BRN, F-MG, SIL GEN, S-R TO R, THK DDD, LT GR SLKY WTHD, DISSEM PYR.

AB AS, SOME SL FERR, M BRN.

AB AS, LOC TH DDD.

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As ab, some sl ferr, m brn.

As ab, loc th sdd.

Qtzite, reddish brn, f-mg, sl mg & ferr, thk sdd, lt brn slky wthd.

As ab, slty, th-m sdd, wthd maroon.

lt-m reddish brn, vf-pg, sl ferr, thk sdd, m brn slky wthd.

Qtzite, maroon, vfg, ferr, th sdd, plty maroon wthd.

As ab, lt brn, f-mg.

Qtzite, brn at top, some wh, vf-pg, thk sdd, wh slky wthd.

Sil, lt brn, mass, lt ool slky wthd.

Slate, rd, ferr, w th sdd Qtzite.

Slate, rd, w pockets & bands vf haematite, sdd, fe fm.

Qtzite, lt purple, vfg, sl ferr, thk sdd, w indur purple sil slate.

Qtzite, lt brn-wh, sil cem, vf-pg, mass, thk sdd, lt brn slky wthd.

As ab, lt pk-brn, oco mott, wthd dissemin pyr.

Slate, v Qtzic, 1/8" lam, ferr, purple & brn, poker chip wthd.

Qtzite, lt pk-brn, f-mg, sil cem, mass, wh, pink & brn slky wthd.

B
M
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C

13400

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13500

2

QTZITE AS AS, BCHS LCO GLASSY, SL ALTERED.

13600

3

13700

4

SLATE, QTZIC, PURPLE, FERR, TN IRREG BOD, WTHD PURPLE POKER CHIP.

13800

7

13900

8

14000

9

14100

H3140

QTZITE, LT PK-BRN, P-MG, SIL GEN, MASS, PK & BRN SLKY WTHD, LCO GLASSY.

14200

1

14300

2

14400

3

14500

4

14600

H3145

DRG. No. G-1592/14

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 125° 43' 00"

SCALE: 1" = 100'

AUTHOR: E. O'Bertos & L. Spratt

1 of

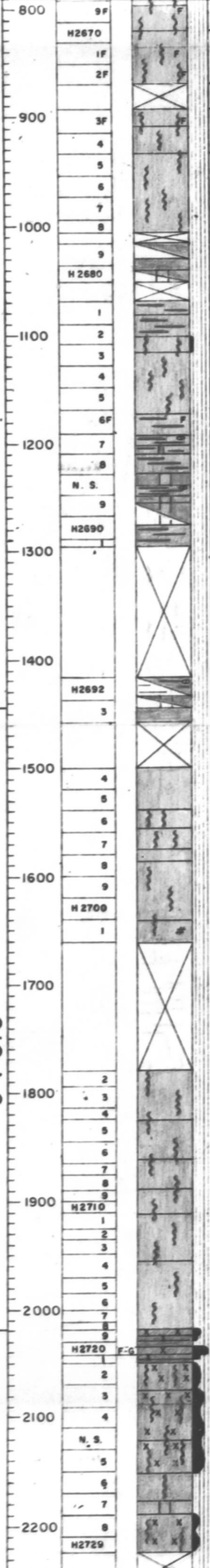
N A I M H N O

F M E U

M I D D L E L O W E R

743.5'

575.5'



OK OR, MOR-X, 4th-1st SSS, CA VHS, M OR, PT MOD & IRREG WTHD, FM CORALS, SL RECESSIVE.

OK OR, BRN TINGE, MOR-X, 4th-2nd SSS, CA VHS, STRES, LT OR, IRREG WTHD, FM CORALS, ONE BRACH.

OK OR, MOR-X, 1st-3rd SSS, CA VHS, SLESS, LT OR MASS WTHD.

OK OR, MOR-X, 3rd-5th SSS, OR WTHD, RECESSIVE.

SH, CALO, OR, PLTY & TH SSS, OR & RUST PLTY WTHD.

LOT, OK OR, MOR-X, 4th-1st SSS WI PTGS TO 1st OR CALO SH, OR IRREG & MOD WTHD, CORALS, BRACHS.

OK OR, BRN TINGE, MOR-X, 1st-4th SSS, CA VHS, STRES, SLESS, LT OR MASS WTHD, RESISTANT.

LOT, M OR, MOR-X, IRREG 4th-2nd SSS WI FM CALO SH PTGS, BRACHS.

LOT, MOD, ARG, OR, WI INDS & PTGS OR CALO SH.

LOT, LT-M OR, WI PTGS & BANDS OR CALO SH (20%), MOD WTHD.

SH, CALO, OR, THK SSS, OR SF WTHD, RECESSIVE.

SH, CALO, OR, THK SSS, ORGS TO AND LOT, RECESSIVE.

LOT, LT-M OR, MOR-CRYPTO-X, WI INDS OR CALO SH.

LOT, MOD, LT OR, MOR-X, WI INDS & PTGS OR CALO SH.

LOT, ARG, OR, THK SSS, OR SF WTHD.

LOT, LT-M OR, CRYPTO-X, SSS, 4th-2nd SSS, LT OR SLKY WTHD.

M-OK OR, CRYPTO-X, SSS, 2nd-2nd SSS, CA VHS, LT OR SLKY WTHD.

M-OK OR, MOR-CRYPTO-X, TH-THK SSS, FM CA VHS, LT-M OR SLKY & SLKY WTHD.

LT-M OR, MOR-CRYPTO-X, 5th-2nd SSS, CA VHS, SLESS, LT OR SLKY & SLKY WTHD.

LT-M OR, CRYPTO-X, SSS, 2nd-5th SSS, CA VHS, LT & M OR SLKY WTHD.

LT OR, MOR-CRYPTO-X, 2nd-1st SSS, CA EYES, VHS, LT OR PLTY & SLKY WTHD.

LT OR, MOR-X, 5th-4th SSS, CA XLS, SLESS & STRES, LT OR SLKY & MERINGUE WTHD.

DOL, M-OK OR, VF-FX, LT & OK OR WTHD.

M-LT OR, OK (EUMEDRAL), FAIR-OR 15-X FOR.

OK OR, MOR-FX, M-THK SSS, MAG & CA VHS, OK OR WTHD.

M-OK OR, F-FX, M-THK SSS, MAG & CA VHS, M-OK OR WTHD.

OK & LT OR (BANDS), MOR-X, SSS, CA VHS, M & LT OR Banded WTHD.

CALO, OR BRN, MOR-X, SSS, OR BRN WTHD.

OK OR, MOR-FX, THK SSS, CA VHS, OK OR WTHD.

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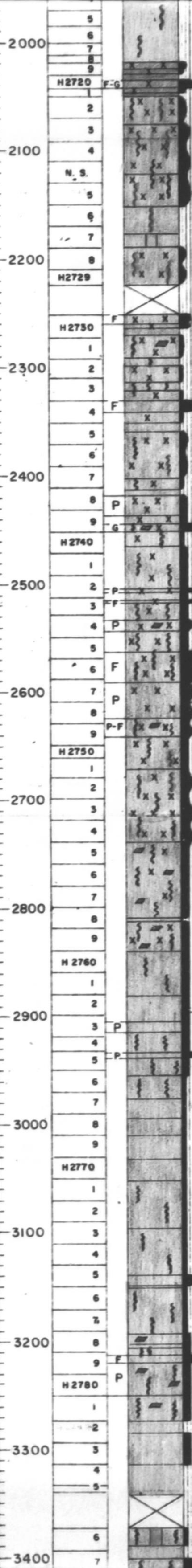
G R O U P

V E R A

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345.0'



DOL, M-DK GR, VF-FX, LT & DK GR WTHD.

WH-LT GR, CK (EUMERAL), FAIR IN-X FOR.

DK GR, MOR-FX, M-TNK SSS, MAG & CA VHS, DK GR WTHD.

M-DK GR, F-FX, M-TNK SSS, MAG & CA VHS, M-DK GR WTHD.

DK & LT GR (BANDED), MOR-X, SSS, CA VHS, M & LT GR BANDED WTHD.

CALO, GR SSS, MOR-X, SSS, GR SSS WTHD.

DK GR, MOR-FX, THK SSS, CA VHS, DK GR WTHD.

DK GR, F-FX (EUM), THK SSS, FAIR IN-X FOR, DK GR WTHD.

DK GR, VFX, THK SSS, STRES & PATCHES WH DOL (MAG), DK GR WTHD.

DK GR, SF, VF & MOR-X, THK 1st-3rd SSS, MAG VHS, GR WTHD.

LT GR, M-CK, TH-M SSS, FAIR IN-X FOR.

DK GR, VF-FX, THK SSS, TH VHS MAG & CA, DK GR WTHD.

DK & LT GR (BANDED), VF-MOR-X, MAG VHS, DK & LT GR WTHD.

DK GR, FX, THK 2nd-4th SSS, P IN-X FOR, DK GR WTHD.

WH-LT GR, M-CK, HUY WH DOL VHS, GR IN-X FOR.

DK GR, FX, M-TNK SSS, MAG VHS & XLS, WTHD DK GR.

LT & DK GR, F-CK, P-FAIR IN-X FOR.

LT GR, F-FX, P VHS FOR, MAG XLS & PATCHES, LT GR WTHD.

WH-LT GR, M-CK, THK SSS, FAIR IN-X & VHS FOR.

DK GR, F-FX, THK SSS, P VHS FOR, DK GR WTHD.

DK GR, F-FX, ADD MAG VHS & PATCHES, P-FAIR IN-X FOR.

DK GR WH FW LT GR BANDED, FX, IRREG MAG VHS, DK GR WTHD.

DK GR, F-FX, THK SSS, ADD STRES WH DOL, DK GR WTHD.

DK GR, FX, THK SSS, IRREG VHS, STRES, PATCHES MAG, FW ISOLATED VHS.

DK GR, FX, THK 2nd-5th SSS, WH DOL STRES, PATCHES, DK GR WTHD.DK GR, FG, 1st-5th SSS, SOAT DOL VHS, M-DK GR BANDED WTHD.

M GR, FG, SUC, P IN-X FOR, LT GR WTHD, GRVD, SMOOTH.

M GR-BLK, F-MG, 2nd-1st SSS, DOL VHS, P FOR IN CENTRE.LT-M GR, VFS, 1st-1st SSS, F DOL VHS, LT & M GR WTHD, GRVD.M-DK GR, VFS, SSS, 1st-3rd SSS, FRAC, M-DK GR WTHD, GRVD, SMOOTH.

M-DK GR, VFS, MASS SSS, OCC DOL VHS, M-DK GR WTHD, PITTED, GRVD.

DK GR, VFS, MASS, OCC DOL VHS, DK GR SMOOTH WTHD.

LT-M GR, FG, PATCHES DOL, DK-M GR BANDED WTHD.

M-DK GR, F-MG, 1st TO MASS SSS, PATCHES & VHS OF DOL, P-FAIR IN-X FOR.DK GR SSS, MIC, SSS, 1st-3rd SSS, LT GR FLY WTHD.M GR, FG, SSS, 2nd-1st SSS, LT-M GR FLY WTHD, PITTED.

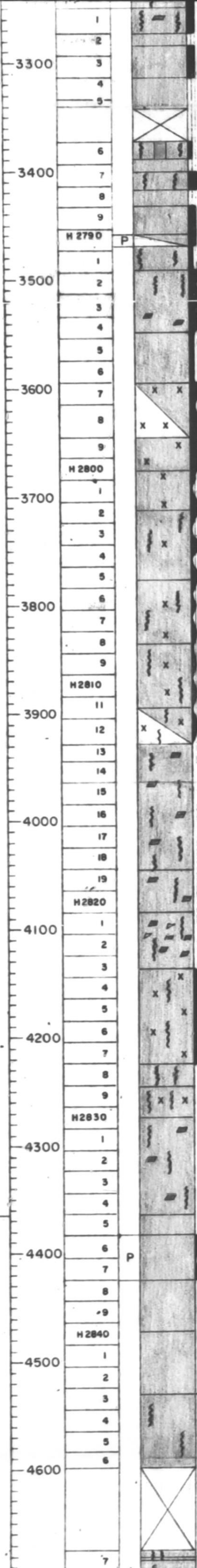
DK GR SSS, MOR-X, SSS, MASS, FRAC, M GR NKLY WTHD.

DK GR, ARG, VFS, OCC DOL VHS, MASS, DK GR WTHD.

DK GR, F-MG, SSS, MASS SSS, DOL VHS, DK GR BLKY WTHD.

3 of

23450'



OK OR BRN, MIC, DMS, 1st-2nd SSS, LT OR PLTY WTHD.
M OR, PG, DMS, 2nd-1st SSS, LT-M OR PLTY WTHD, PITTED.
OK OR BRN, MOR-X, DMS, MASS, FRAG, M OR NKLY WTHD.
OK OR, ARG, VFG, OCC SOL VNS, MASS, OK OR WTHD.
OK OR, F-MG, DMS, MASS SSS, SOL VNS, OK OR SLKY WTHD.
M-OK OR, PG, P 1st-X FOR AT BASE.

M-OK OR, M-VPD, MASS SSS, SOL STRES, PATCHED.
M-OK OR, VFG, DMS, MASS SSS, M-OK OR BANDED WTHD.

OK OR, M-VPD, DMS, MASS SSS, FRAG, M-OK OR NKLY WTHD.
M-OK OR, FX, THK SSS, M OR WTHD.

M OR, MOR-VPX, THK 2nd-10th SSS, M OR WTHD.
M & LT OR BANDED, MOR-FX, THK SSS, MAG VNS & STRES, LT, M & OK OR BANDED WTHD.

M & LT OR BANDED, MOR-VPX, DMS, 3rd-10th SSS, M OR WTHD.

M & OK OR BANDED, MOR-VPX, DMS, THK 3rd-15th SSS, BARE MAG & CA VNS & INCLD, M & LT OR BANDED WTHD.

M OR, MOR-X, MASS, DMS, THK 3rd-10th SSS, THREE VNS, INCLD & SM PATCHES OF MAG, TR CA, M OR MASS WTHD, FW SOL CORALS.

M-LT OR, MOR-VPX, MASS THK SSS, MINOR MAG VNS & STRES, TR CA, M & LT OR BANDED WTHD.

M OR M1 FW LT OR BANDED, MOR-X, 3rd-10th SSS, MAG VNS, SOL CORALS.

M & LT OR BANDED, MOR-X, DMS, THK SSS, VNS, STRES, SM PATCHES MAG, FW ISOLATED VNS, M & LT OR BANDED WTHD.

LT OR, MOR-X, THK SSS, LT OR WTHD.
LT OR, MOR-FX, THK SSS, P 1st-X FOR IN 1st-2nd ZONES.

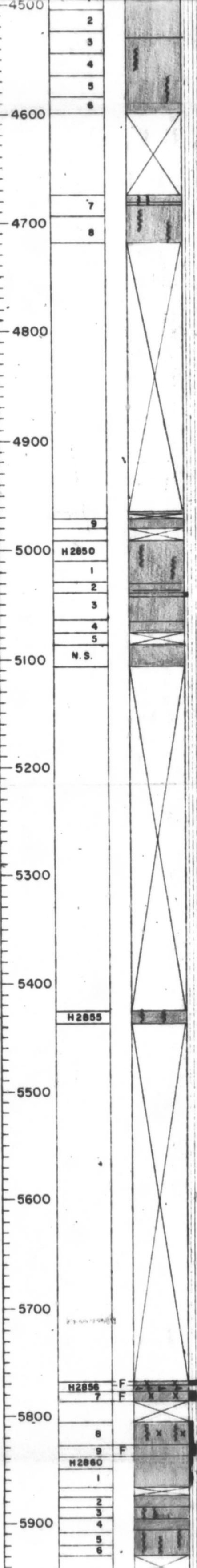
LT OR, MOR-X, DMS, MASS THK 3rd-10th SSS, LT OR MASS WTHD.

AS AS, FW VNS WH SOL, OCC SF WTHD.

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1596.5'



As as, FW VHS WH SOL, OOC SF WTHD.

LT GR, MOR-CRYPTO-X, OA VHS & XLS, LT GR, SF & ORANGE WTHD.

LT GR, MOR-X, M-TH SSS, GR & SF WTHD.

LT GR, MOR-X, SSS, 4th-2nd SSS, OA XLS & VHS, LT GR WTHD.

SHLY AT BASE, GR, MOR-X, 4th-1st SSS, GR, SF & ORANGE WTHD.

LT GR, MOR-X, SSS, 4th-2nd SSS, GR & SF WTHD.

LT GR, MOR-X, TH-M SSS, SSS, LT GR WTHD.

LT GR, MOR-X, THK SSS, IRREG OA VHS, SLESS, GR, SF & OOC ORANGE WTHD.

BREGGIA, SOL, GR GR, MOR-X, PIECES TO 1st IN FX SOL MAT, OA.
DOL, LT GR, FX, THK SSS, OA SLESS, PAIR IN-X POR.

LT GR, VFX, THK SSS, OA VHS, INOLS, SLESS, LT GR WTHD.

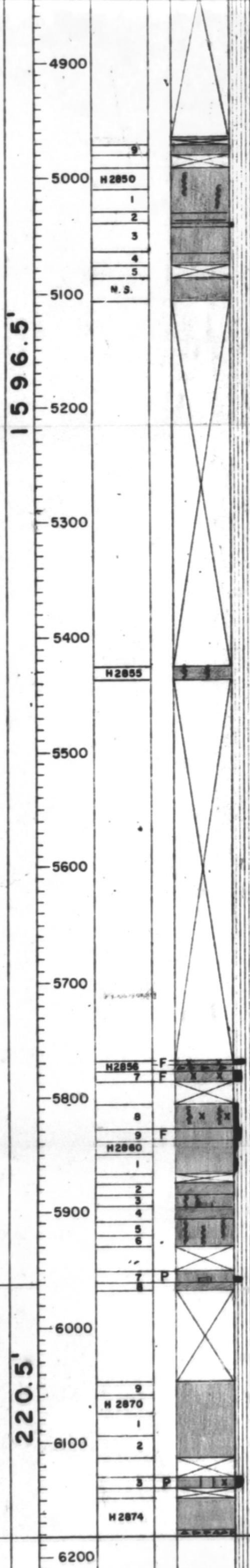
As as, W1 PAIR IN-X & VHS POR.

MOR-VFX, THK SSS, ADD OA, SF & ORANGE WTHD.

LST, LT GR, MOR-X, THK SSS, SF & ORANGE WTHD.

DOL, LT GR, MOR-CRYPTO-X, SSS, THK SSS, OA VHS, STRGS, LT GR WTHD.

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 CAMSELL FM.



LT CR, MOR-X, N-TH SSS, CR & OF WTHD.

LT CR, MOR-X, SSS, 4th-2nd SSS, CR & OF WTHD, LT CR WTHD.

SHLY AT BASE, CR, MOR-X, 4th-1st SSS, CR, OF & ORANGE WTHD.

LT CR, MOR-X, SSS, 4th-2nd SSS, CR & OF WTHD.

LT CR, MOR-X, TH-W SSS, SSS, LT CR WTHD.

LT CR, MOR-X, THX SSS, INTR CR VHS, SLESS, CR, OF & OCC ORANGE WTHD.

BRECCIA, SOL, CR CR, MOR-X, PIECES TO 1st IN FX SOL MAT, CR.
DOL, LT CR, FX, THX SSS, CR SLESS, FAIR IN-X POR.

LT CR, VFX, THX SSS, CR VHS, INOLS, SLESS, LT CR WTHD.
AS AD, W FAIR IN-X & VHS POR.

MOR-VFX, THX SSS, ADD CR, OF & ORANGE WTHD.

LOT, LT CR, MOR-X, THX SSS, OF & ORANGE WTHD.

DOL, LT CR, MOR-CRYPTO-X, SSS, THX SSS, CR VHS, STROG, LT CR WTHD.

CALO AT BASE, MOR-FX, CR VHS, SLESS, P IN-X POR.
LOT, LT CR, MOR-X, W FAIR LENSES SOL AT BASE, LT CR & OF WTHD.

WH-LT CR, MOR-X, SSS, 3rd-15th SSS, LT CR, OF & ORANGE MASS WTHD,
CLIFF FORM.

DOL, CALO, LT CR, VFX, CR VHS, SLESS, P IN-X POR.

LOT, WH-LT CR, MOR-X, THX SSS, LT CR, OF & ORANGE WTHD.

BRECCIA, CR, FX SOL TO 2nd IN MOR-X WH LOT MAT.

TRIAD OIL CO. LTD.

DRG. No. G-1592/35

SECTION 24-35

REPORT No. G.R.-99

LOCATION: EAST LITTLE BEAR HEADWATERS

PARTY No. 24

MAP REFERENCE:	CARACAJOU	R.	LATITUDE	64° 32' 00"
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LONGITUDE 125° 50' 00"

DATE: 5 SEPT. 1961

SCALE: 1" = 100'

AUTHOR: L. M. SPRATT

							SCALE - 1" = 100'	AUTHOR: L. M. SPRATT	
TIME LOG	MAJOR FIELD SUB	FIELD UNITS	DATUM	SAMPLE NO.	POSSIBILITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY	
	TERTIARY	218.4'							
			0				Col., ss & gravel: ss f/co, sh, p sst, c-a, lse w/ ord pedg 2 nd 23 rd		
				H5469			Sh, blk, hard, fm/ordly, wth blk.		
							ss, f/co, sh, p sst, c-a, lse.		
							Col., ss & gravel: ss f/co, sh, p sst, c-a, lse w/ ord pedg, wth sh & sh.		
							Sh, m sh, ordly/sst, w/ sh wood fragm, wth rust sh.		
			100				Col., ss & gravel: ss f/co, lt/m & dk sh-on, p sst, sa/sh w/ ord pedg.		
							Mudst (clay & slt), sst, m sh, wth sh/on, ol slty.		
				H5460			Col., ss & gravel: ss f/no, lt sh & sh, p sst, lse, c-a, wth sh & sh, w/ ord pedg.		
							Sh, hard, m sh & blk, peaty & coaly in pt, w/ fragm no shiny blk hard wood.		
							Ss, m sh, ol congl, abd clay mat, ssd 1/2" in 2 nd bands, wth m sh.		
			200				Ss & gravel col, ss m sh w/ dk sh on ord, md, lse, sa, p sst w/ ord pedg.		
				H5465					

DRG. No. G-1592/36

REPORT No. G. R. 99

PARTY No. 24

LATITUDE 65° 14' 30" N. , LONGITUDE 126° 24' 00" W.

SCALE: 1" = 100'

AUTHOR: E. O'BERTOS & L. SPRATT

TIME LOG	MAJOR FIELD DIVS	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO	POROSITY	GRAPHIC LOG	LITHOLOGY	PALAEONTOLOGY
	MIDDLE DEVONIAN	HARE INDIAN FM.	457.3' +		H6019 20 21 22 23 24 25 26 27 28 29 6030 31 32 33 34 N.S. 35 36 37 38 39 6040 41 42 43 44 45 46 47 48 49 6050 51 52 53 54 F 55 F H5646 45 44 43 42 41 40 39 38 37 36 35 34 33 32 F 31 30 29 28 27 F 26			BLK, PLTY, TH, BLK & YELL TH PLTY WTHD. VOL? DK GR, ARG, MCR-X, HD, SL PET ODOR. BLK, BIT, TH SDS-PLTY, WI FW HD SANDS TO 4 ⁿ , BLK, BRN & YELL PLTY WTHD WI SL PET ODOR FROM HD SANDS. AS AB WI DISS PYR. BLK, BIT, PLTY, HD, BLK, YELL & SF PLTY WTHD. BLK, BIT, PLTY-FISS, WI FW NOD & LENSES GR PYR ARG LST, BLK & BRN PLTY WTHD. BLK, BIT, PYR LENT TO 0 ⁿ , BRN WTHD, PET SMOEL. BLK, BIT, PLTY-FISS, WI NODS TO 2 ⁿ BLK & DK GR PYR ARG LST, BLK & BRN PLTY & FLKY WTHD, SL PET ODOR FROM LST NOD. BIT, BLK, SL CALC, HD, BRN WTHD. BLK, BIT, PLTY, WI DK GR PYR ARG LST NOD WI PET ODOR. BLK, CALC, PLTY, BLK WTHD. BLK, BIT, PLTY TO 4 ⁿ BEDS WI FW NOD & LENSES DK GR PYR ARG LST, BLK & BRN PLTY WTHD. BLK, BIT, PLTY-FISS, BLK & BRN WTHD. BLK, BIT, FISS-PLTY WI 4 ⁿ SDS DK GR ARG LENDING LST WI SD PET ODOR. CARAMEL BRN, M-TN SDS WI INBDS 2 ⁿ -6 ⁿ DK GR-BLK CALC SH, UPPER 1 ⁿ FOSS. GR BRN, DMS, TNE SDS, WI CA EYES & STROGS, LT GR WTHD, CORALS, BRACHS. BRN-GR BRN, BIONIC, MASS SD, JNTD, H GR SKLY-HSLY WTHD. DK GR-BLK, FG, ADD CA, 1 ⁿ SDS, HKLY WTHD, PET ODOR. DK BRN, MCR-X, WI SCAT FOSS FRAGS, MASS SD, AND GASTROPODS. DK GR-BRN, VFG WI ADD CA VNS & BLEBS, 2 ⁿ -3 ⁿ SDS, TH SKLY WTHD. M GR-BRN, BIONIC, 6 ⁿ SDS, TH SKLY WTHD. M-DK BRN, MCR-X-VFG, 4 ⁿ -1 ⁿ SDS, LT BRN IRREG WTHD. M GR, PT SLTY, 1 ⁿ -6 ⁿ SDS, M GR HOLY WTHD. M GR, CRS FOSS FRAG, 2 ⁿ -4 ⁿ SDS WI INBDS GR CALC SH, TH WTHD. M GR & BRN, PT SLTY, 4 ⁿ -10 ⁿ SDS, LT BRN SKLY WTHD, COL CORALS. GR & BRN, FOSS FRAG, GR-TN WTHD, ADD CORALS. FOSS FRAG, 10 ⁿ SDS, INBD WI ARG LST, PT NOD, GR & BRN WTHD.	LESIONYCHUS CASTANEA, EMANUELLA (M.Dev.) ORBICULOIDEA, STYLIOLENA. WARRENELLA, W. FRANKLINI, STYLIOLENA.
	MIDDLE DEVONIAN	HUME FM.	311.7' +						

TRIAD OIL CO. LTD.

DRG. No. G-1592/20

SECTION 24-20

REPORT No. G.R. 99

LOCATION: BLACKWATER LAKE

PARTY No. 24

MAP REFERENCE: WRIGLEY AND BLACKWATER
LAKE - MAP SHEETS

LATITUDE 63° 59' 30" N

LONGITUDE 123° 22' 30" W

DATE: AUGUST 8, 1961

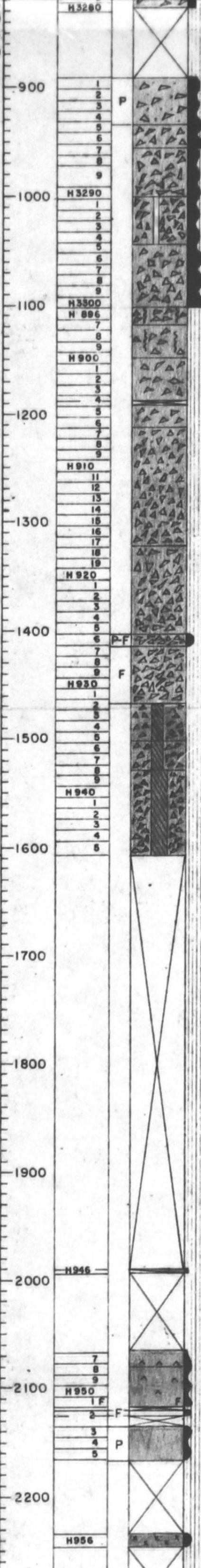
SCALE: 1" = 100'

AUTHOR: E. O'Bertos & L.Spratt

DEVONIAN										LITHOLOGY		PALAEONTOLOGY	
TIME LOG	MAJOR FIELD DIVS.	FIELD UNITS	THICKNESS	DATUM	SAMPLE NO.	POROSITY	GRAPHIC LOG	CRT. OR FILL SIZE					
	HUME F.		96.9'		H 3246								
					7								
					8								
					H 3250								
					1								
					2								

M I D D L E B E A R R O C K S I L U R I A N F M.

1510.



LT-W GR, BREC, P-MG, SUG, OL FRI, MASS SSS, P-IR-X FOR.

H GR-BRN, BREC, P-OG, WI GA, MASS SSS, LT GR MASS WTHD, FITTED.

LT GR, BREC, PG, WI ADD P-MG GA, INCLD SLTY LST, MASS SSS.

LOT BREC, LT-W BRN & GR MOTT, WI INCLD PG LT GR LST, MASS SSS, LT GR WTHD, FITTED.

LOT BREC, LT GR, MOR-X, MASS, NON-SSS, CA VUG, STAGS, SOLUTION VUGS, LT GR MASS WTHD.

LOT BREC, LT GR, MOR-X, WI SPARRY GA, MASS, NON-SSS, BREC APP, SOLUTION VUGS, LT GR MASS WTHD.

LOT BREC, LT GR, MOR-X, MASS, NON-SSS, SPARRY GA, BREC APP ONLY,

LOT BREC, LT GR, MOR-X TO SUG, WI ADD SPARRY GA, PIECES LOT TO 4th IN LOT & CA MAT, ONE VUGS ON SURF, LT GR, OF & ORANGE WTHD.

LOT BREC, LT GR-WH, MOR-FX, WI ADD SPARRY GA, P-FAIR IN-X & VUG FOR.

LOT BREC, LT GR-WH, MOR-X WI FX MAT, FAIR ONE VUG FOR.

LOT BREC, GYP, LT GR, MOR-X, ADD POCKETS, PATCHES WH GYP (30%), ONE FRAG LOT TO 6th, MOR-SSS, LRG SOLUTION VUGS, LT GR & OF CAV WTHD.

LOT BREC, GYP, LT GR-WH, MOR-X, WI POCKETS INTL FILLINGS WH GYP (30-40%), ADD SOLUTION VUGS, LT GR-WH MASS CAV WTHD.

DOL, GR BRN, MOR-VFG, SUG, GR BRN WTHD.

DOL, LT GR, VFX-PG, 6th-2nd SSS, INREG PATCHES SIL FOSD, LT GR SLKY WTHD. GR-GR BRN, VP-PG, M-TNK SSS, PATCHES SIL FOSD, GR-GR BRN WTHD.

As AS, FAIR-ONE VUG FOR.

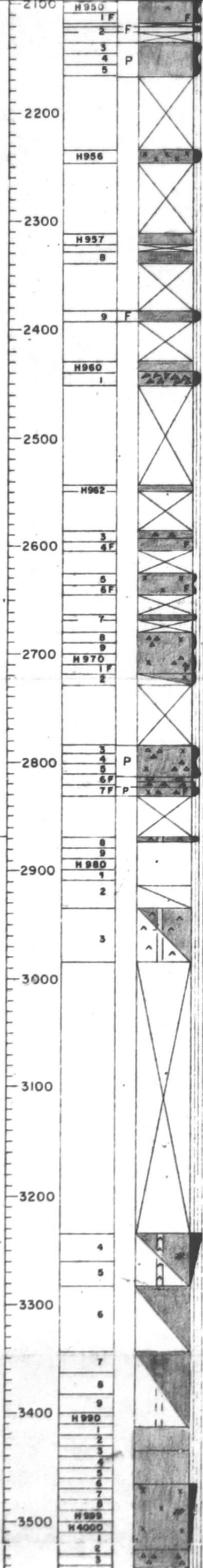
LT GR, VP-PG, 1st-3rd SSS, P VUG FOR, GR-GR BRN WTHD.

LT GR BRN, VP-FX, 6th-2nd SSS, PM SCAT VUGS, GR BRN WTHD.

FAVORITES SP.

(SIL OR DEV)

AN ORDOVICIAN & G R O U P K I N D L E F M.



As as, FAIR-ONE VUG POR.

Lt or, VF-PG, 1'-3' sds, P VUG POR, OR-OR ORN WTHD.

Lt or ORN, VF-PX, 6"-2' sds, PM SCAT VUGS, OR ORN WTHD.

Lt or, MOR-X, sds, M sds, LT OR WTHD.

Lt or & TAN, AS AS.

GR-OR ORN, VF-PG, FAIR P VUG POR, OR ORN WTHD, SUL OOR.

Lt or-OR TAN, MOR-X, sds, M-TNK sds, OR ORN WTHD.

BRO SOL, VF-PG, PHAS 3-8, TR OR MAT, BK OR ORN WTHD.

Lt or, MOR-X, TNK sds, ASD SOL VUGS, LT OR MASS WTHD.

OR ORN, MOR-X, M-TNK sds, BK OR OR PATCHES AT TOP, LT OR BLKY WTHD, ASD CORALS, SOME SIL.

Lt or ORN, MOR-VFX, sds, TNK sds, PM VUGS, BK OR WTHD, ASD CORALS.

Lt or ORN, MOR-VFX, TNK sds, IRREG PATCHES LT OR OR, LT OR ORN BLKY WTHD, SOL CORALS.

As as, NO OR.

Lt or ORN, VF-PX, TNK sds, W PATCHES NO LT & BK OR OR, P VUG POR.

NOB AT TOP, OR ORN, MOR-VFX, NOB & PATCHES BK OR OR, AS AS, VF-PX, P VUG POR, CORALS, BRACH.

SL sdy, BK OR, NO ORN, VF-PG, R F-OR QTZ ORN DISP.

GR-OR ORN, TAN, MOR-CRYPTO-X, M-TNK sds, OR BLKY WTHD.

SL sdy, LT OR, MAUVE, ORN, TNK sds, DISP M-OR R QTZ ORN, LT OR, MAUVE & ORN WTHD.

SL SIL, M ORN, MOTT PURPLE, OORRE, M-MOR-X, 6"-1' sds, ORN-PINKTON BLKY WTHD.

PINK-ORN, MOR-CRYPTO-X, MOTT, TNK sds, BUFF BLKY WTHD.

As as, PM TH SANDS APP SL ANG.

As as, TH sds AT BASE, PURPLE WTHD, BRITTLE.

DOL MIC, sds, M-BK OR, TNK sds, SF BLKY WTHD.

M-OR OR, MOR-VX, SL MOTT, TH-TNK sds, PTH.

SL ORN, BK OR, NO, TH-TNK sds, M ORN BLKY & PLTY WTHD.

FAVOSITES SP. (SIL OR DEV)

FAVISTINA 2 spp.

STREPTELAGMA AFF. S. TRILOBATUM
WHITEAVES (LATE ORD)

CATENIPORA SP. (LATE ORD)

MAIPORA SP. (LATE ORD)

BIGNORNIA SP.

CATENIPORA AFF. C. RUBRA SINCLAIR & BOLTON
(LATE ORD)

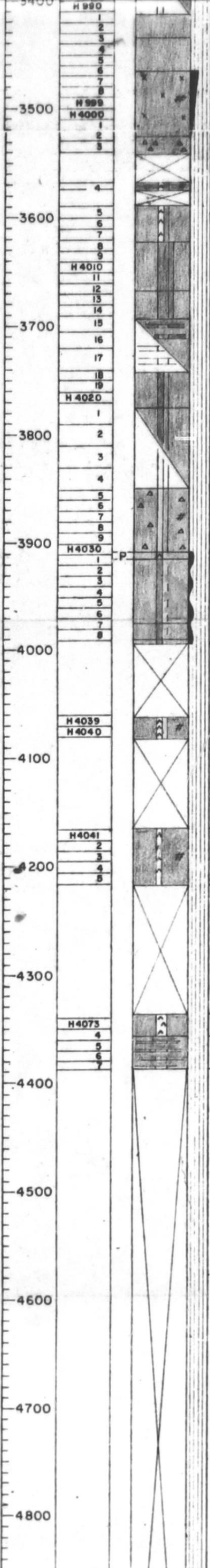
SARCINULA

CATENIPORA SP.

ORTHO BRACH (PROD ORD)

OVER F.M. ? ?

1518.6'



As ab, TH BDD AT BASE, PURPLE WTHD, SHITTLE.
DOL MIC, DNG, M-DK GR, THK BDD, SF BLKY WTHD.

H-DK GR, MOR-FR, SL MOTT, TH-THK BDD, PYR.

SL DNG, DK GR, MDC, TH-THK BDD, M DNG BLKY & PLTY WTHD.

DOL MIC, SL SIL & ARG, DK GR, TH-THK BDD, RUSTY BRN BLKY WTHD.

CALC, ORDS TO LST MIC, DK GR, SL ARG, M-TH BDD, BRN WTHD.

LST MIC, M-DK GR, & DOL MIC, CALC, GR BRN INDD, TH BDD, M BRN-BF
RULY WTHD, SL RECESSIVE.

LST MIC, M-DK GR, SL DOL & ARG, M-TH BDD, BRN PLTY & RULY WTHD,
SL RECESSIVE.

DOL MIC, LT-M GR & BRN, THK-TH BDD, TR GR & BR BDD, SL ARG,
M BRN PLTY-RULY WTHD.

LT-M GR & BRN, VP-FX, SL VUGGY POR.

M-LT GR & BRN, MOR-VPX, SL ARG, PLTY BR BDD, R, FROS, CRS,
M BRN BLKY WTHD.

SIL & GLTY, GR & BRN, MOR-CRYPTO-X, THK BDD, LT BRN BLKY WTHD.

DOL MIC, SL SIL, V DK GR, MAGS, WTHD M BRN BLKY, PYR.

SIL, GR BRN, MOR-X, DNG, 8th-3rd BDD, GR SF WTHD.

SL SDY IN INDD, GR BRN, MOR-X, THK BDD, SF, GR SF BLKY WTHD.

C A M B R I A N ? ?
S A L I N E R I V E R F M .
C A M B R I A N ? ?
M T . C A P F M .

990.0' +

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SST, WH-LT GR, SIL, SL CALC, M-CG, ILL-SORT, S-R TO S-A, ADD INTL NEM.
SST, QTZOSE, GR WH, P-CG, CALC, INDS WI GRN GR SH (30%), NEM.
SH, DK GR, BRN STND, THK BDD, GR WH & BRN WYND.
SST, GYP, QTZOSE, P-CG, WH INTL GYP, THK BDD, GR WYND.
SST, GR, P-CG, SL SIL, INDS WI DK GR SH.
SH, DK GR, WI INDS & LENSES GR QTZIC FG SST, DK GR & BRN WYND.
SST, GR, SIL, FG, ARG, WI PTGS & INDS DK GR SH (30%), DK GR & BRN WYND.
SH, DK GR, FISS, SL CALC, WI LENSES & INDS DK GR MOR-X SIL LST, ADD
PYR, PW BRACHD.
SH, GRN GR, NON-CALC, WI RARE TH SANDS GR FG CALC SST, TRILOBITES.
SH, GRN-GRN GR, PT FISS, NON-CALC, RD BRN & GR FLKY & PLTY WYND.
SH, OLIVE GRN WI PATCHY RD STND, RARE LENSES & TH SANDS WH
QTZIC SST (5%), RDISH BRN & GRN WYND.
SH, OLIVE GRN, FISS, NON-CALC, RDISH BRN & GRN WYND.

TRILOBITE FRAGS (MID OR LATE CAMP)

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FM.

CAP

MT.

MT. CLARK FM.

990.0' +

316.7' +

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5400	H4096	7
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SST, WH-LT GR, SIL, SL CALO, M-OG, ILL-SORT, S-R TO S-A, ADD INTL NEM.

SST, QTZOE, GR WH, P-OG, CALO, INDS WI GRN GR SH (30%), NEM.

SH, BK GR, BRN STND, THK BDD, GR WH & BRN WTHD.

SST, GYP, QTZOE, P-OG, WH INTL GYP, THK BDD, GR WTHD.

SST, GR, P-OG, SL SIL, INDS WI BK GR SH.

SH, BK GR, WI INDS & LENSES GR QTZIO FG SST, BK GR & BRN WTHD.

SST, GR, SIL, FG, ARG, WI PTGS & INDS BK GR SH (30%), BK GR & BRN WTHD.

SH, BK GR, FISS, SL CALO, WI LENSES & INDS BK GR MOR-X SIL LOT, ADD
PYR, PW BRACHD.

SH, GRN GR, NON-CALO, WI RARE TH BANDS GR FG CALO SST, TRILOBITES.

TRILOBITE FRAGS (MED OR LATE CAMB)

SH, GRN-GRN GR, PT FISS, NON-CALO, RD BRN & GR FLKY & PLTY WTHD.

SH, OLIVE GRN WI PATCHY RD STND, RARE LENSES & TH BANDS WH
QTZIO SST (5%), RDISH BRN & GRN WTHD.

SH, OLIVE GRN, FISS, NON-CALO, RDISH BRN & GRN WTHD.

SST, QTZOE, WH (PK & MAUVE STND), FG, ILL-SORT WI SIL MAT, THK BDD,
FOR AT TOP, GR DP & PK SLKY WTHD.

SST, QTZOE, WH (PK & DP STND), FG, QTZ GND, TH BDD, SLKY WTHD.

SST, QTZOE, WH WI PK TINGE, FG SIL MAT, THK BDD, LT GR & PK SLKY WTHD.

SST, QTZOE, WH (DP & PK STND), FG, THK BDD, GR & PKISH GR WTHD.

SST, QTZOE, WH WI PK TINGE, FG WI PW ORG GND, SIL MAT.

SST, QTZIO, WH WI RD & PK TINGE, FG, 6"-4" BDD, PKISH GR & PK SLKY WTHD.

SST AS AD, SIL MAT.

DRG No. G-1592/18

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 125° 38' 00" W

SCALE: 1" = 100'

AUTHOR: L. M. SPRATT

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SH (MUDST), M GR, V RDLY, SDG V TH, WTHD M GR, WI TH SDG SBT,
SDG 1/8"-4", VFG/SLTY, M GR, FRM, PLTY.

SH, M GR, FISS, 1/8"-1/4", WTHD V RDLY, M GR, WI SLTST, M GR, LAM,
SDG 1/2"-3", FRM, WTHD M GR, SLKY, PLTY.

SH (MUDST), FISS, M GR, PLTY, WTHD M GR WI SBD.

WI TH SBD M GR SLTST.

M GR, PLTY & FISS, WTHD M GR, WI 2"-2 1/2" SBD (MINOR FOLDING).

M GR, FRM, PLTY, WI TH SBD SLTST, M GR, WTHD M GR, RDLY
(MINOR FOLDING - OVERTURNED FOLDS IN PT).

M GR, FISS, PLTY, SDG 1/8"-3/4", WI 2"-6" SBD SLTST, M GR, FRM,
WTHD M GR-SRN, SLKY.

M GR, FISS, PLTY, SLTY & FRM IN PT, WTHD LT/M SRN, SDG 1/8"-1"
(MINOR FOLDING).

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M GR, FISS, PLTY, SLTY & FRM IN PT, WTHD LT/M GRN, SHDD 1/8"-1"
(MINOR FOLDING).

M GR, FISS, SPLTRY, WTHD M GR-GRN, SHDD, 1/8"-1".

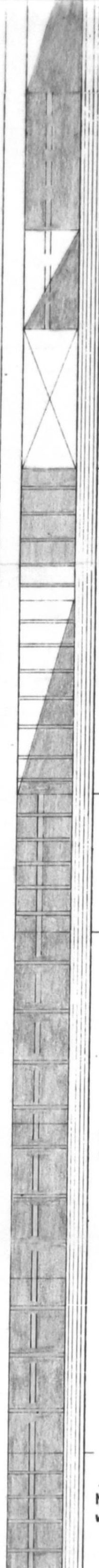
M GR, SPLTRY & PLTY, SHDD 1/8"-1/2", WTHD M GR-GRN, ROLY,
WI 1"-2" SHDS SLTST, FRM, M GR, WTHD M GR-GRN, PLTY.

M GR, FISS, SPLTRY/CROLY, SHDD 1/8"-3/4", SLTY, FRM IN PT,
WTHD M GR-GRN.

M GR, FISS, SPLTRY, SHG 1/8"-3/4", WTHD M GR-GRN.

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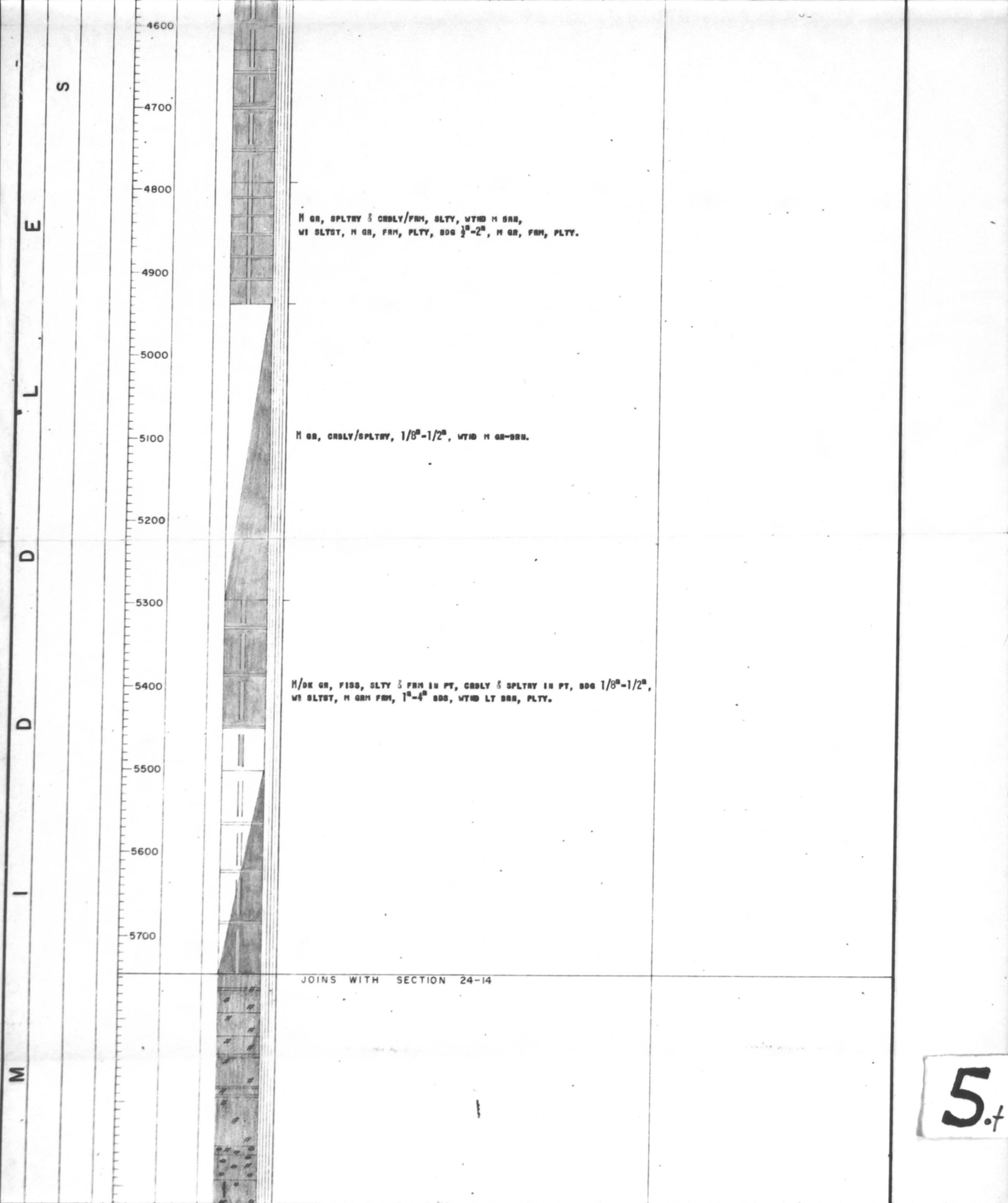
M GR, FISS, SPLTRY/CBLY, SLTY & FRM IN PT, SDG 1/8"-2",
WTND LT/M GRN-GR, SDG SL FOLDED.

M GR, FISS, CBLY & SPLTRY, WTND M GR, RSLY,
WI SLTST, M GR, FRM, PLTY, SDG 1/2" (MINOR FOLDING).

M GR, SLTY & FRM/SPLTRY & CBLY, SDG 1/8"-1", WTND M GR-GRN,
WI SLTST, M GR-GRN, FRM, SDG 1".

M GR, CBLY/SPLTRY, SLTY & FRM IMPT, SDG 1/8"-1/2",
WI SLTST, M GR, PLTY, SDG 1/2" (MINOR FOLDING).

M GR, SPLTRY & CBLY/FRM, SLTY, WTND M GRN,
WI SLTST, M GR, FRM, PLTY, SDG 1/2"-2", M GR, FRM, PLTY.



M GR, SPLTRY & CRDLY/FRM, SLTY, WTHD M GRN,
WI SLTST, M GR, FRM, PLTY, BGS 1^a-2^a , M GR, FRM, PLTY.

M GR, CRDLY/SPLTRY, $1/8^a-1/2^a$, WTHD M GR-GRN.

M/DK GR, FISS, SLTY & FRM IN PT, CRDLY & SPLTRY IN PT, BGS $1/8^a-1/2^a$,
WI SLTST, M GRM FRM, 1^a-4^a BGS, WTHD LT GRN, PLTY.

JOINS WITH SECTION 24-14

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M GR, CRDLY/SPLTRY, 1/8"-1/2", WTID M GR-BRN.

M/DK GR, FISS, SLTY & FRM IN PT, CRDLY & SPLTRY IN PT, SDS 1/8"-1/2",
W/ SLTST, M GRM FRM, 1"-4" SDS, WTID LT BRN, PLTY.

JOINS WITH SECTION 24-14

DRG. No. G-1592/17

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 125° 48' 00" W

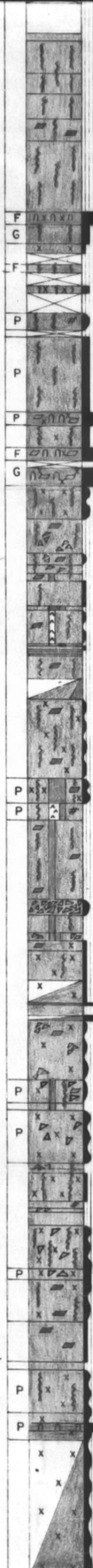
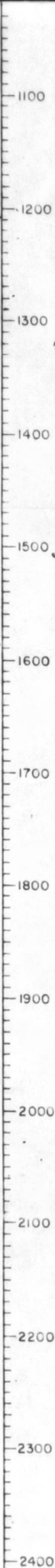
AUTHOR: Pemberton & Spratt

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DE VON IAN GROUP NICARINCA F.M.

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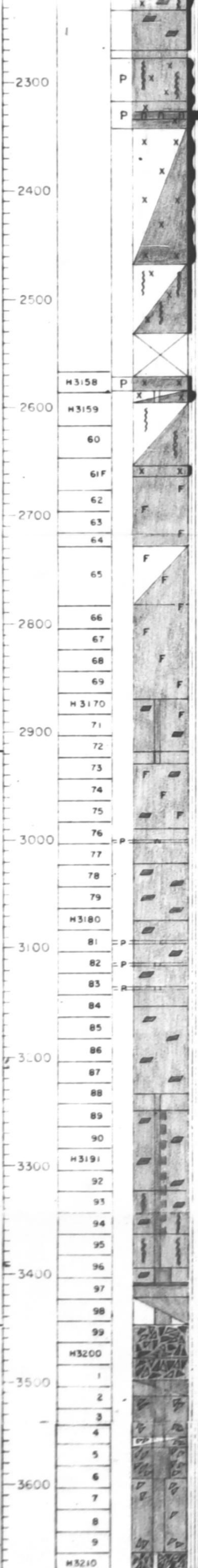
1709.9'



LY GR, SDG THK, WTHD LT GR BLKY.
(MINOR FOLDING)
DK GR, MCR/CRYPTO-X, DNS, SDG 6th-3rd, WTHD LT GR, BLKY & MERINGUE.
LT GR & GR-BRN, SDG 6th-3rd, WTHD LT GR, BLKY, MERINGUE.
M/DK GR, MCR/CRYPTO-X, SDG THK/MASS, WTHD LT GR.
M GR/GR-BRN, SDG 1st-5th, WTHD LT GR, BLKY.
M/LT GR REEF MAT, F IN-X & VUG POR, WTHD LT GR.
M/DK GR, SDG THK, SD IN-X & VUG POR, WTHD DK GR WI SUL ODOR.
M GR, DNS, SDG THK, WTHD DK GR, FW VUGS, SMALL.
M GR, F IN-X POR, WTHD DK GR.
DK GR, FX, ADD CA VNS, STRGRS, INCL, WTHD DK GR.
M/DK GR, SDG 1st-4th, F VUG POR, WTHD DK GR.
DK GR, SDG THK WI CA INCL & VNS, F IN-X & VUG POR, WTHD DK GR.
REEF MASS, WH, MOSTLY CA RIBS & LRG XLS, SCAT F VUG POR.
LT/M GR, SDG THK, FW VUGS, WTHD M GR.
REEF MASS, GR-WH, CA RIBS & LRG XLS, F VUG POR.
REEF MASS, V CRG, CA RIBS, SD VUG POR.
M/DK GR, SDG THK/MASS, WI ADD CA VNS & INCL, WTHD DK GR.
DK GR/BLK, SM BRECC ZNS, WI WH CA, SDG M, WTHD DK GR, BLKY, RSLY.
DK GR, SDG 1st-6th CA PTCHS & VNS.
DK GR/BLK, SDG 6th-1st, WTHD DK GR, BLKY.
DK GR/BLK SHD, WTHD LT/M GR RSLY.
DK GR, SDG 6th-2nd, WTHD DK GR, BLKY.
DK GR-BRN, WTHD LT BRN, TR QTZ XLS.
DK GR, SDG THK/MASS, WTHD DK GR-BRN, BLKY.
DOL, DK GR, & LST LT BRN, SDG THK.
DK GR, SDG MASS, WTHD DK GR, BLKY.
M/DK BRN-GR, SDG MASS, WTHD DK GR, BLKY, TR IN-X & VUG POR.
M/DK BRN, VFX, TR MCR-VUG POR, WTHD DK GR.
DK GR, SDG MASS, WTHD DK GR, BLKY.
MICROBREC, DK GR, VFX NYX WI V DK GR ANG FRAGS (BIOHERM?).
DK GR, SDG MASS, WTHD DK GR, BLKY.
DK GR-BRN, SDG 2nd-6th SL BREC IN PT, WTHD M BRN.
DK GR, SDG M, WTHD M/DK GR, BLKY, FETID ODOR.
DK GR, SL BIT, SDG THK/MASS, WTHD DK GR, BLKY.
CA, WH SPAN, CR.
DK GR, SDG 1st, WTHD M GR, BLKY.
CA, WH.
DK GR, SDG M/MASS, SL BREC IN PT, WI LRG CA MASSES, WTHD DK GR, BLKY.
DK GR, TR MCR-VUG POR, SL BREC IN PT, SDG THK/MASS, WTHD DK GR, BLKY.
DK GR-BRN, SDG 4th-1st, WTHD M BRN, BLKY.
DK GR-BRN, ADD WH CA, OCC SL BREC, TR IN-X & MCR-VUG POR, SDG MASS, WTHD DK GR, BLKY.
M/DK GR-BRN, SL BREC WI CA INFILL, SDG M/THK, WTHD M BRN, BLKY.
V DK GR, SDG THK, WTHD DK GR & BRN, BLKY.
M BRN & GR, SDG MASS, WTHD M BRN, BLKY.
DK GR/M BRN, SDG 2nd-6th, WTHD DK GR, RSLY.
DK GR/BLK, SL BIT, SDG MASS, SL BREC IN PT, FETID ODOR, WTHD DK GR, BLKY.
M/DK BRN, SDG MASS, SL BREC, WTHD M BRN, BLKY.
M BRN, SDG MASS, WTHD M GR-BRN, BLKY.
M & DK GR SHDS, SDG THK/MASS, WTHD BRN & GR, BLKY.
M BRN, SDG 2nd-6th, WTHD LT GR-BRN, CRG RSLY.
DK GR, TR MCR-VUG POR, SDG THK/MASS, WTHD DK GR, BLKY.
WH CRG CA BIOHERM.
M-DK BRN, SCAT MCR-VUG POR, SDG MASS, WTHD DK GR, POKED, BLKY.

M I D D L E N A H A N N I A R N I C S O M B R E F M.

528.2'



M & DK GR ENDS, SDG THK/MASS, WTHD BRN & GR, BLKY.

M BRN, SDG 2nd-6th, WTHD LT GR-BRN, CRS RSLY.

DK GR, TR MCR-VUG POR, SDG THK/MASS, WTHD DK GR, BLKY.

WH CRS CA BIONEEM.

M-DK BRN, SCAT MOR-VUG POR, SDG MASS, WTHD DK GR, POCKED, BLKY.

DK GR-BRN, SDG MASS, WTHD M GR, BLKY.

LT/DK GR, SUC, TR MCR-VUG POR, SDG MASS, WTHD GR, BLKY (WI BIOTOMAL MASS).

M/DK GR-BRN, TR MCR-VUG POR, SDG MASS, WTHD LT/M GR BLKY.

DK GR, SDG MASS, WTHD LT/DK GR, BLKY.

M BRN, SDG MASS, WTHD M GR, BLKY.

DK BRN-GR, WI SCAT CORALS (?) & WH VCK CA, SDG MASS, WTHD DK GR, BLKY.

DK GR, WI CK CA, SCAT CORALS (?), SDG THK/MASS, WTHD DK GR/BLK.

LT BRN/DK GR, TR MCR-VUGS, SDG THK, WTHD LT BRN/DK GR, BLKY.

DK GR/M GR-BRN, SCAT CORALS (?), SL BREC IN PT WI CA, SDG MASS, WTHD DK GR, BLKY.

BF, SL SIL, TR MCR-VUG POR & SCAT CH PTCHS, WTHD DK GR, BLKY.

DK GR, SDG MASS, WTHD DK GR, BLKY.

DK GR, SDG MASS, WTHD DK GR, BLKY.

DK GR, SDG MASS, WTHD DK GR, BLKY, WI 2nd SDS SLTY M BRN DOL, SL SUC WI TR P-P POR, SDG THK.

DK GR, SDG MASS, WTHD GR, BLKY.

M BRN-M GR, SDG THK, WTHD M BRN/GR, RSLY.

M/DK GR-BRN, TR ORI FRAGS, SCAT BREC, SDG MASS, WTHD GR, BLKY.

LT/M BRN, POSS POSS INCL, WTHD M GR, BLKY.

DOL/LST, DK GR, SDG MASS, WTHD GR, BLKY.

ST, FERR, M BRN.

M BRN, SDG MASS, WTHD GR, BLKY.

DOL/LST, M BRN & GR, SDG MASS.

LST MTK, M BRN, FRAGS OF DK GR & BRN LST & DOL, SDG TH/MASS, WTHD M GR & LT BRN, BLKY.

SDG MASS.

LT/M BRN, SDG THK, WTHD GR BLKY.

LT/M BRN, SDG MASS, SL BREC.

BF, SDG 4th-1st, WTHD BF, BLKY.

LT/M BRN, WI FRAGS BRN LST & DOL, SDG MASS, WTHD BF, BLKY.

LT/M BRN, SL BREC IN PT, SDG MASS, WTHD LT BRN, BLKY & RSLY.

AMPHIPORA OR COENITES SP. (SIL OR DEV)

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DOL/LST, M BRN & GR, SDG MASS.

LST MTK, M BRN, FRAGS OF BK GR & BRN LST & DOL, SDG TH/MASS, WTHD M GR & LT BRN, BLKY.

SDG MASS.

LT/M BRN, SDG THK, WTHD GR BLKY.

LT/M BRN, SDG MASS, SL BREC.

BF, SDG 4th-1st, WTHD BF, BLKY.

LT/M BRN, W/ FRAGS BRN LST & DOL, SDG MASS, WTHD BF, BLKY.

LT/M BRN, SL BREC IN PT, SDG MASS, WTHD LT BRN, BLKY & RDLY.

DOL & LST BREC, SL SLTY, BF/BRN, W/ LT BRN FRAGS, SDG MASS, WTHD GR, BLKY.

LT/M BRN, SDG MASS, WTHD M GR, BLKY.

LT/M GR & BRN, SDG MASS, WTHD LT GR, HKLY, BLKY.

M/DK GR, SDG MASS, WTHD M GR, HKLY, BLKY.

M/DK GR, BREC IN PT, SDG THK, WTHD LT GR, HKLY, BLKY.

LST BREC, MTK MCR-X, LT/M BRN, FRAGS CRYPTO-X M BRN LST, FERR, SDG MASS, WTHD RUST-RED, BLKY. W/ CA PTCHS.

WTHD M GR, BLKY.

M GR, SDG THK, WTHD M/DK GR, BLKY.

LST BREC AS AG.

V LT BRN, SL SUC, SL BREC IN PT, SDG MASS, WTHD BF, RDLY.

M GR/BRN, SL BREC, SDG THK, WTHD M GR, BLKY.

LST BREC, M BRN, SDG MASS, WTHD M GR, BLKY.

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DOL MIC, BF, DNS, SDG TH,
INSD DOL MIC, CALC, DK GR,
INSD LST, DK GR, SL NOD, MCR/CRYPTO-X, WTHD BF & DK GR.

M/DK GR, SL ARG, SDG TH, WTHD BF & GR, PLTY.

M/DK GR, SDG 1st-5th, WTHD BF, PLTY.
DK GR, SDG TH, WTHD KNOBBY, GR, RSLY.
DOL INSD LST, M/DK GR, FW VUGS, WTHD DK GR, RSLY.
M/DK GR, SDG TH/M, WTHD M GR, RSLY.

M GR-BRN & DK GR BND, SDG TH/M, SL VUGGY, WTHD RSLY, PLTY.

DK GR, SDG TH, WTHD DK GR, RSLY.
M/DK GR-BRN, SDG M, WTHD BF BLKY.

DK GR, FOSS, CORALS?, SDG TH.

DK GR, WTHD NOD, PLTY, WI ARG PTGS (MINOR FOLDING).

M/DK GR, WTHD BF, RSLY, SDG TH.

M/DK GR, SDG MASS, WTHD GR, BLKY.

DK GR, SDG MASS, WTHD DK GR, PITTED, GROOVED, FRACTURED, JOINTED.

DK GR, FOSS IN PY, SDG MASS, JOINTED, WTHD M GR PITTED, SIL REPL
IN PY, FOSS = COL CORALS.

DK GR, SDG MASS, WTHD M GR, PITTED.

DK GR WI PTCHS WH DOL & LT GR ON STRGS, SDG MASS, RESISTANT,
WTHD M & DK GR, MOTT & PITTED.

DK GR, MASS SDG, WTHD M GR, PITTED.

LT/M GR & BRN VF BND, SUC, SDG MASS, WTHD LT & DK GR BND (APP SDY).

DK GR, WH DOL STRGS, SDG MASS, WTHD DK GR, PITTED.

M/DK GR, WTHD M/DK GR, SL PITTED, SDG MASS.

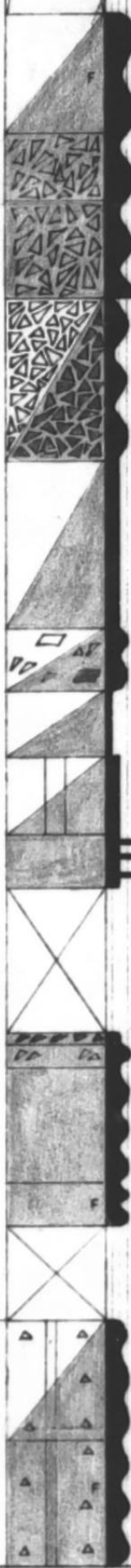
FAVOSITES 2 spp. (SIL-M. DEV)

W H I T T A K E R &

2093.7'

7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
8400

2
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H880
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H870
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H860
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3F
2
1
H850
H849



M/DK GR, TI, WI DOL STRGRS, FRAGS, LEACHED SURF VUGS, SDG MASS, FRAC, WTHG EXTENSIVE, M & DK GR PITTED, SCAT COL & CUP CORALS.

SOL CORAL (SIL OR YOUNGER)

DOL BRECC, LT/DK GR, LEACHED VUGS, SDG MASS, WTHD EXT, M GR & DK GR PITTED, FRAC IN PT, WI COL CORAL.

CATENIPORA SP. (ORD OR SIL)

LST & DOL BRECC, LST LT GR, F/MX, WI LEACHED VUGS, DOL M/DK GR, SDG MASS, WTHG EXT, LT/DK GR PITTED, WI CA & DOL STRGRS, WH.

M/DK GR, SDG MASS, WTHD M & DK GR PITTED, WI DOL STRGRS.

LT GR, SL BRECC, SDG MASS, WTHD LT GR PITTED, INSD DOL, DK GR, & LST, DK GR, WI TH BND LIM & MAG, WTHD DK GR & RUST.

DK GR DOL STRGRS, SDG MASS, WTHD DK GR PITTED.

LT GR, SURF VUGS, SDG MASS, WTHD LT GR PITTED.

DK GR, WI CRS WH DOL, SDG MASS, WTHD WH & DK GR MOTT.

LST & DOL BRECC, LT GR & DK GR, SDG MASS, WTHG EXT, PITTED DK & LT GR.

M/DK GR, SDG MASS, WTHD DK GR PITTED.

DK GR WI WH DOL IN SWIRLS, SDG MASS, WTHD WH & BLK PITTED.

M/DK GR, P IN-X POR, SCAT LT GR CH, WI WH DOL, SDG 4¹ & MASS, WTHD M GR WI LT GRN PTCHS. FOSS - COL CORALS.

? CATENIPORA SP. (ORD OR SIL)

DRG. No. G-15924

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 125° 01' 40" W

AUTHOR: E. O'BERTOS

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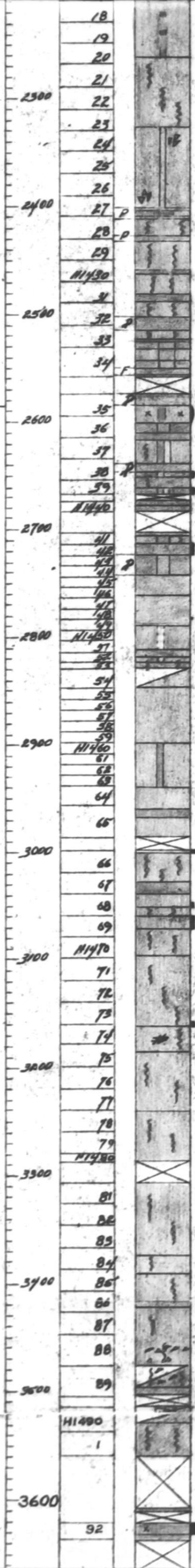
1199.9' +



OK GR, OCC LT GR IN SANDS, MOR-X, SHD, THK SHD, QA VNO, LT-GR GR SHD
WTHG.

E L D F M. E L I L

S O M B



CALO IN SANDS, DK GR, MOR-X, THK SSS, DK & M GR WTHD.

DK GR, OCC LT GR IN SANDS, MOR-X, SSS, THK SSS, CA VHS, LT-DK GR SSSD WTHD.

AS AD WI VERY VN SSSD, DK GR SOL PHASE IN LT GR SOL MTK.

LOT, SOL AT BASE, LT-DK GR, MOR-X, ASD CA, P VHS FOR, SF & GR WTHD.
M-DK GR, MOR-X, WI ASD CA IN VHS ETC., M-DK GR WTHD.
LT GR WI NO & HAVE STUS, MOR-X, P FOR, SF & RD SF WTHD.
DK GR, MOR-X, SSS, THK SSS, WI ASD EUN CA, DK GR WTHD.
DK GR, MOR-CRYPTO-X, THK SSS, SSS, DK GR WTHD.
LT GR WI SF & RD STUS, MOR-X, PW VHS, SF & RUST WTHD.
M-DK GR, MOR-X, CA VHS, XLS, SLESS, DK GR WTHD.
LT GR-WH, MOR-X WI ORG XLS IN VHS, P FOR, SF RUSTY WTHD.

LOT AND GRSS TO SOL CALO, GR & RUST, MOR-X, TH SSS, GR, OR & YELL WTHD.
LOT, SOL & ANG, OR & SF, MOR-X, M-TH SSS, LT & DK GR WTHD.

LT GR, MOR-X, THK SSS, SOL P VHS FOR, LT GR WTHD.
PT ANG, LT GR & SF, MOR-X-VFS, M-TH SSS, YELL & SF WTHD.

PT ANG & SLTY, GR & SF, TH-W SSS, CA VHS ETC., SF, YELL & GR WTHD.
BF, VFS, DK GR P DISF QZ, SF WTHD.

LT & DK GR, MOR-X TO ODLITH, DK GR-GR SF WTHD.

M GR, MOR-X, THK SSS, M GR WTHD.
LT GR-GR SF, MOR-X-VFS, TH SSS, SF WTHD, RECESSIVE.
LT-M GR, MOR-X, P VHS FOR, LT & M GR WTHD.

LT GR, MOR-CRYPTO-X, SSS, M-TH SSS, LT GR & SF WTHD.

AS AD, SBY IN TH ZONES 1st-2nd THK.

LT GR & SF, SL SLTY IN PT, MOR-X, THK SSS, LT GR & SF WTHD.

LT GR, MOR-X, THK 3rd-5th SSS, SSS, LT GR & SF WTHD.

SL SOL, LT-M GR, MOR-X, 1st-3rd SSS, LT GR & SF WTHD.

LT GR, MOR-CRYPTO-X, M-THK SSS, LT GR & SF WTHD.
LT-M GR, MOR-X, 4th-5th SSS, LT GR WTHD.
LT GR, MOR-CRYPTO-X, THK 2nd-5th SSS, LT GR & SF WTHD.

LT-M GR, MOR-X, THK 2nd-4th SSS, CA VHS, LT GR WTHD.
LT GR, MOR-X, M-THK SSS, LT GR WTHD.
LT GR, MOR-X, & VFS, GR, M SSS, GR, SF & RUST WTHD.
LT GR, MOR-X, SSS, 6th-3rd SSS, CA VHS, LT GR & SF WTHD.

LT GR, DK GR AT TOP 8th, MOR-X, SSS, 8th-3rd SSS, CA VHS & INCLS, LT GR & SF WTHD.

LT GR, MOR-X, THK SSS, CA VHS, SLESS, STUS, LT GR & SF WTHD, PYR.

LT-M GR, MOR-X, SSS, THK 8th-3rd SSS, CA VHS, LT-M GR & SF WTHD.

LT GR WI PW DK SANDS, MOR-X, SSS, THK SSS, ASD CA VHS, LT & DK GR, SF, RUST & PR WTHD.

LT & DK GR, MOR-X, THK 3rd-10th SSS, CA VHS, GR & SF WTHD.

LOT SSSD, LT & DK GR, SSS.

DK GR, MOR-X,
LT GR-WH, MOR-X, SSS, THK SSS, CA VHS, SLESS, LT GR WTHD.

WH, FX, TH SSS, SF & WH WTHD.

M

L

E

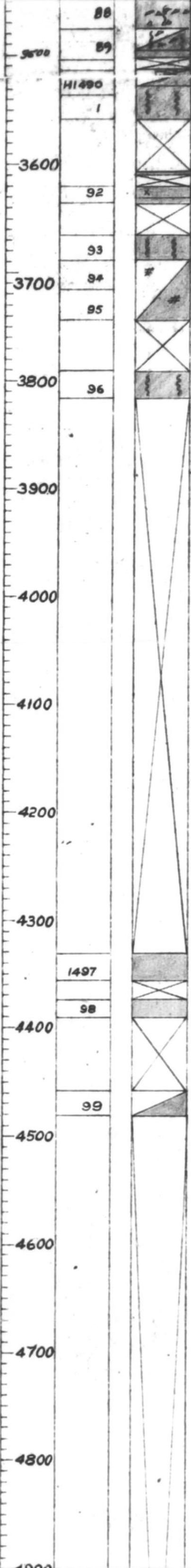
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LOT 880, LT & GR GR, GND.

LT GR, MCR-X.

LT GR-MR, MCR-X, GND, THK BDD, CA VNG, GLESS, LT GR WTHD.

MR, FX, TH BDD, SF & MR WTHD.

LT-M GR, MCR-X, MASS THK BDD, CA VNG, LT GR BLKY WTHD.

AS AB, M-THK BDD, LT GR & SF WTHD, SCAT PYR OUBES.

LT GR, MCR-X, THK MASS BDD, CA VNG, GLESS, LT GR & SF WTHD.

LT & M GR, MCR-X-SUBLITH, M-TH BDD, LT GR & SF WTHD.

LT GR, MCR-X, TH BDD, 1800 W/ M-GR GR MCR-X LST, SF PLTY WTHD.

LT GR, MCR-X, TH $\frac{1}{2}$ "-6" BDD, CA, SF & LT GR PLTY WTHD.

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4700
4800
4900
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5200
5300
5400
5500
5600
5700
5800
5900
6000

1500

1501

1502

1503

1504F

DK GR, MCR-X, TH IRREG 0th-1st SSS, FW CA VMS, DK GR WTHD.

DK GR, MCR-X, IRREG 1st-4th SSS, CA VMS & INCLS, DK GR WTHD.

AS AB.

NOS, DK GR, MCR-CRYPTO-X, IRREG 1st-4th SSS, DK GR WTHD, BRACHIO, GASTROPODS, CORALS.

5.

Z

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4800

4900

5000

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5200

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5400

5500

5600

5700

5800

5900

6000

6100

1500

1501

1502

1503

1504F

DK GR, MGR-X, TH IRREG 0th-1st SDS, FW CA VNS, DK GR WTHD.

DK GR, MGR-X, IRREG 1st-4th SDS, CA VNS & INCLS, DK GR WTHD.

AS AB.

NGO, DK GR, MGR-CRYPTO-X, IRREG 1st-4th SDS, DK GR WTHD, BRACHS, GASTROPODS, CORALS.

5.

A

M.

F

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6300

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6700

6800

6900

7000

7100

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1600

1

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9

DK GR, MCR-X, DMS, 2nd-2nd SDS, CA VNS, GR & GR SF WTHD.

DK GR, MCR-CRYPTO-X, THK SDS, ASD CA VNS, STRGS, DK GR MASS WTHD.

DK GR-BLK, MCR-CRYPTO-X, DMS, TH 1st-6th SDS, GR-GR SF WTHD.

NOD, DK GR-BLK, MCR-CRYPTO-X, IRREG 1st-6th SDS, CA VNS, XLS & BLESS, DK GR & GR SF WTHD, BRACHS.

NOD, DK GR-BLK, MCR-CRYPTO-X, IRREG 1st-6th SDS, CA VNS, STRGS, BLESS, DK GR & GR SF WTHD.

PT SDS, DK GR-BLK, MCR-CRYPTO-X, 1st-6th SDS, WI WISPS GR CALO SH ALONG SDS PLANES, CA VNS, GR SF WTHD, BRACHS.

"CAMAROTOECHIA" SP. (SIL OR DEV)

DK GR-BLK, MCR-X, TH IRREG 1st-6th SDS, CA VNS ETC, DK GR & GR SF WTHD, BRACHS.

"CAMAROTOECHIA" SP. (SIL OR DEV)

DK GR, MCR-X, TH IRREG 1st-4th SDS WI WISPS GR CALO SH (LESS THAN 5%) ALONG SDS PLANES, CA VNS, GR SF WTHD.

NOD, DK GR, MCR-X, WI IRREG PTGS GR CALO SH (5%), TH 1st-4th IRREG SDS, CA VNS & STRGS, DK GR SF WTHD.

NOD, DK GR-BLK, WI WISPS & PTGS GR CALO SH, 1st-4th IRREG SDS, DK GR-GR SF WTHD.

ARG, DK GR, MCR-X, WI PTGS & GRADATIONS DK GR SH, 1st-1st SDS, GRN & GR WTH.

NOD, DK GR, BIOFRAG, WI IRREG PTGS GR CALO SH, TH 1st-4th SDS, ASD BRACHS.

STRAIGHT CEPHALOPOD (PROD SIL OR DEV) BRACHIOPOD

DK GR-BLK, MCR-X, IRREG 1st-8th SDS WI PM CALO SH PTGS, CA VNS, GR & SF WTHD.

AS AS, PT SDS.

LT-M GR, MCR-X, THK 2nd-5th SDS, CA VNS, STRGS, INCLS, LT GR BLKY WTHD.

M-GR GR, MCR-X, 6th-5th SDS, CA VNS, M-GR GR & MAUVE WTHD.

NOD BY SDS, DK GR, MCR-X, 6th-3rd IRREG P SDS, HWY CA VNS, DK GR, RUST & MAUVE WTHD, CORALS, BRACHS.

"CAMAROTOECHIA" SP. (Dev) FAVORITES SP.

DK GR-BLK, MCR-X, THK MASS SDS, ASD CA VNS, XLS, STRGS, DK GR, RUST & MAUVE WTHD.

DK GR, MCR-X, THK 3rd-10th SDS, CA VNS & INCLS, GR & RUST WTHD, CORALS.

AS AS, 1st-3rd SDS, DK GR, RUST & MAUVE WTHD.

DK GR, MCR-X, IRREG 6th-2nd SDS, CA VNS, STRGS & INCLS, DK GR, MAUVE & RUST WTHD.

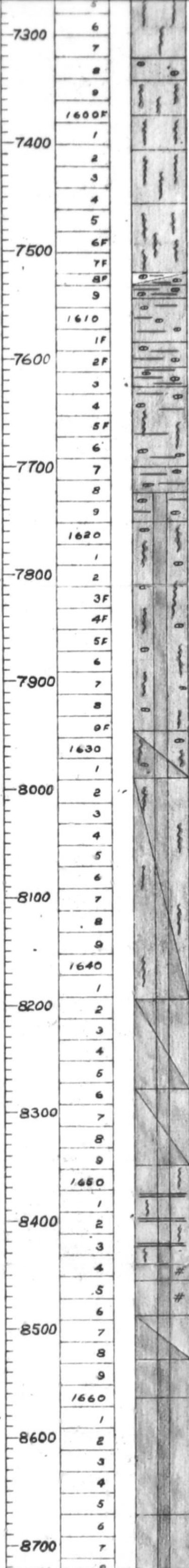
AS AS, PT SDS.

M-GR GR & BLK, MCR-X, 4th-2nd SDS, CA VNS, INCLS, DK GR, RUST, MAUVE & PR WTH, CORALS.

FAVORITES SP. (Dev)

604

3786.7'



DK GR, MOR-X, THREE 5"-2" SSS, CA VNS, STROG & INCLD, DK GR, MAUVE & RUST WTHD.

AS AB, PT NOS.

MOR GR & BLK, MOR-X, 4"-2" SSS, CA VNS, INCLD, DK GR, RUST, MAUVE & PH WTH, CORALS.

FAYOSITES SP. (Dev)

DK GR, MOR-X-SUBLITH, THK SSS, ASD CA VNS, LT GR & RUST BLKY WTHD, RESISTANT.

M GR, MOR-X-SUBLITH, THK 2"-10" SSS, CA VNS, LT GR & RUST BLKY WTHD, RESISTANT.

ATRYPA SP. (PROG DEV)

NOD, DK GR, MOR-X, 1"-4" SSS WI INSDS & PTGS OR CALO SH (20%), GR & SF WTHD, BRACHS.

NOD, DK GR, MOR-X, IRREG 1"-4" SSS WI PTGS CALO SH & ARG LOT (5-10%).

OF. SCHUCHERTELLA SP. (PROG DEV)
OF. GYPIDULA SP.

AS AB WI SH & ARG LOT (20%), GR & GR SF NOD WTHD, ASD BRACHS.

AS AB WI SH & ARG LOT (10%).

AS AB, GR, RUST & SF WTHD, BRACHS.

ATRYPA SP. (Dev)

ARG & NOD, MOR-X, 1"-4" SSS, GR CALO SH PTGS, RUST & GR WTHD, BRACHS.

"CAMAROTOECHIA" SP. (Dev)
ATRYPA SP.

ARG, DK GR, MOR-X, THK SSS, WI PW 2"-4" NOD INSDS DK GR MORO-X LOT, THREE CA VNS, GR SF & RUST WTHD, CORALS & BRACHS.

ATRYPA SP. (Dev)
ATRYPA SP. (LATE SIL OR DEV)

ARG GRDS TO CALO SH, DK GR, THK SSS WI PW NOD SSS DK GR CRYPTO-X LOT, CA VNS, RUST, SF & GR WTHD.

SCHUCHERTELLA SP. (LATE SIL OR DEV)

ARG, GRDS TO CALO SH, DK GR, TH 1"-2" SSS, IRREG CA VNS, RUST, SF & DULL GR WTHD.

ARG, GRDS TO CALO SH, MOR-X, TH-THK SSS, GR SF & RUST WTHD.

CALO, DK GR, FRM, THK SSS, PW GRADATIONS TO ARG LOT, CA VNS, GR SF WTHD.

CALO, DK GR, TH 1"-2" SSS TO FISS, FRM, DK GR & SF PLTY WTHD.

CALO, DK GR, GRDS TO ARG LOT, TH-THK SSS, GR SF & RUST PLTY WTHD.

CALO, DK GR, TH-THK SSS, PT FISS, GR & GR SF PLTY WTHD.

3786.7'

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7400	1	
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7500	6F	
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7600	12F	
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7700	17	
	18	
	19	
	1020	
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7800	2	
	3F	
	4F	
	5F	
	6	
7900	7	
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	1030	
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8000	2	
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8100	7	
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8300	7	
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8400	2	
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8500	7	
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	1060	
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8600	2	
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	6	
8700	7	
	8	

DK GR, MCR-X, IRREG 5th-2nd SSS, CA VHS, STROG & INCLD, DK GR, MAUVE & RUST WTHD.

As AS, PT SSS.

M-GR GR & SLK, MCR-X, 4th-2nd SSS, CA VHS, INCLD, DK GR, RUST, MAUVE & PR WTH, CORALS.

FAYOSITES SP. (Dev)

DK GR, MCR-X-SUBLITH, THK SSS, AND CA VHS, LT GR & RUST SLKY WTHD, RESISTANT.

M GR, MCR-X-SUBLITH, THK 2nd-10th SSS, CA VHS, LT GR & RUST SLKY WTHD, RESISTANT.

NOD, DK GR, MCR-X, 1st-4th SSS WI ISSDS & PTGS OR CALO SH (20%), GR & SF WTHD, BRACHS.

ATRYPA SP. (PROG DEV)

NOD, DK GR, MCR-X, IRREG 1st-4th SSS WI PTGS CALO SH & ARG LOT (5-10%).

OF. SCHUCHERTELLA SP. (PROG DEV)
OF. GYPIDULA SP.

As AS WI SH & ARG LOT (20%), GR & GR SF SSS WTHD, AND BRACHS.

As AS WI SH & ARG LOT (10%).

As AS, GR, RUST & SF WTHD, BRACHS.

ATRYPA SP. (Dev)

ARG & SSS, M-GR GR, 1st-4th SSS, GR CALO SH PTGS, RUST & GR WTHD, BRACHS.

"CAMAROTOCCHIA" SP. (Dev)
ATRYPA SP.

ARG, DK GR, MCR-X, THK SSS, WI PW 2nd-4th SSS ISSDS DK GR MCR-X LOT, IRREG CA VHS, GR SF & RUST WTHD, CORALS & BRACHS.

ATRYPA SP. (Dev)
ATRYPA SP. (LATE SIL OR DEV)

ARG GRDS TO CALO SH, DK GR, THK SSS WI PW NOD SSS DK GR CRYPTO-X LOT, CA VHS, RUST, SF & GR WTHD.

SCHUCHERTELLA SP. (LATE SIL OR DEV)

ARG, GRDS TO CALO SH, DK GR, TH 1st-2nd SSS, IRREG CA VHS, RUST, SF & DULL GR WTHD.

ARG, GRDS TO CALO SH, M-GR GR, TH-THK SSS, GR SF & RUST WTHD.

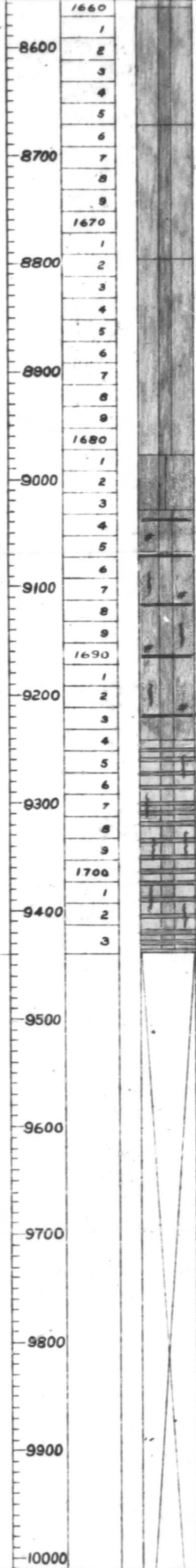
CALC, DK GR, FRM, THK SSS, PW GRADATIONS TO ARG LOT, CA VHS, GR SF WTHD.

CALC, DK GR, TH 1st-2nd SSS TO FISS, FRM, DK GR & SF PLTY WTHD.

CALC, DK GR, GRDS TO ARG LOT, TH-THK SSS, GR SF & RUST PLTY WTHD.

CALC, DK GR, TH-THK SSS, PT FISS, GR & GR SF PLTY WTHD.

D



CALC, DK GR, TH-YNK SDD, PT FISS, GR & GR SF PLTY WTHD.

SL CALC, FISS, DK GR-BLK, BRITTLE & HD, DK GR & GR SF WTHD.

CALC, FISS, DK GR-BLK WI BARE 1st-2nd SANDS DK GR, MCR-X LST WI SCAT PYR, DK GR & GR SF LOOSE WTHD, F DISS PYR.

SH, CALC, DK GR, WI TH INDS & LENSES DK GR MCR-X LST, TH SDD, CA YNS, GR & GR SF GR WTHD.

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8

9

1730

1

2

11100

3

4

5

6

11200

7

8

9

1740

11300

1

2

GRAPTOLITES, BLK CALC, FISS-TH SOD, BLK WTHD, SIGS PYR.

ARG, DK GR-BLK, TH SOD, CA VHS, DK GR-BLK WTHD, ARG PYR POCKETS.
GRAPTOLITES BLK CALC TH SOD, BLK PLTY WTHD, PYR POCKETS.

DK GR-BLK, CRYPTO-X, WI INDS BLK SH, DK GR WTHD, ARG PYR.

CALC, BLK, TH SOD-FISS WI 4th-8th INDS (30%) BLK ARG LOT, PYR, GRAPTOLITES.ARG, BLK, 4th-8th SOD WI PTGS & INDS BLK CALC SH, GRAPTOLITES.

CALC, BLK, TH SOD, WI FW INDS BLK ARG LOT, BLK WTHD, GRAPTOLITES.

CALC, BLK, FISS-TH SOD, BLK FLY & PLTY WTHD, ARG PYR, GRAPTOLITES.

GRAPTOLITES, BLK, CALC, TH 1st/8th - 1/2nd SOD WI FW 2nd-4th BLK LOT INDS.DK GR-BLK, MOR-CRYPTO-X, 1st-8th SOD WI INDS & PTGS BLK CALC SH.

SH, CALC, BLK, TH SOD WI INDS DK GR-BLK TH LOT, GR-BLK WTHD.

CALC, BLK, TH SOD, WI FW INDS BLK CRYPTO-X LOT, TH DK GR PLTY WTHD.

BLK, MOR-X, M-TH SOD, WI INDS & PTGS BLK CALC SH (30%).

CALC, BLK, TH SOD-FISS, WI INDS TO 6th BLK MOR-X LOT, PYR.

DOL, BLK, ORDS TO SHLY DOL, TH IRREG SOD, DK GR RSLY WTHD.

ARG, MOR-X, DK GR-BLK, 1st-8th SOD, CA VHS, RSLY WTHD.

ARG, BLK, TH-M SOD, FW TH PTGS BLK CALC SH, DK GR RSLY WTHD.

V ARG, V DK GR, 6th SOD, LOWER 2nd LOT SOD, FX, WI M-CRS BND SD GRAINS.V DK GR-BLK, 1st-4th SOD, SCAT WH CA SPARS, M GR PLTY-RSLY WTHD.DOL, BLK, PLTY SOD, WI FW 4th SOD DK GR ARG DOL.

INDS & INDS BLK SH & DOL AS AS.

SL PLTY MIO, V DK GR, 1st-6th SOD, CUT WI ARG WH DOL STRGS, FW LENSES
BLK SH, V DK GR PLTY WTH.

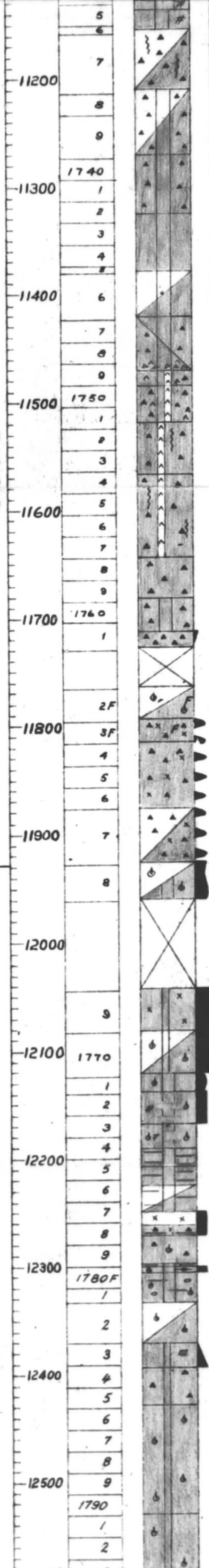
ARG TO V SHLY AT TOP, DK GR-BLK, CRYPTO-X, BLK RSLY WTHD.

MIO, V DK GR, SOD, FW PTGS & LENSES BLK SH, BLKY & RSLY WTHD.

ARG, MIO, V DK GR, RARE IRREG CH SOD & LENSES, 6th-1st SOD, M GR BLKY WTHD.MONOGRAFTUS UNCINATUS (M. HILSONI ZONE)
MONOGRAFTUS M. DUSTUSMONOGRAFTUS SOHEMICUS (LOWER LUDLOVIAN)MONOGRAFTUS VOMERINUS (NEWLOOKIAN)MONOGRAFTUS SP. CF. M. ORIENTONIENSIS
(UPPER LLANDOVERIAN)MONOGRAFTUS SPIRALIS (UPPER LLANDOVERIAN)

9

V I C I T I T A K E R L E D D E M I D D E 8333.2'



ARG TO V SHLY AT TOP, DK GR-BLK, CRYPTO-X, BLK RGLY WTHD.

MIO, V DK GR, DMS, FW PTCHS & LENSES BLK CH, BLKY & RGLY WTHD.

ARG, MIO, V DK GR, NARE IRREG CH BBS & LENSES, 6"-1' BBS, M GR BLKY WTHD.

1740

11300

1

2

3

4

5

11400

6

7

8

9

1750

11500

1

2

3

4

5

6

7

8

9

1760

11700

1

M GR, CRYPTO-MOR-X, WI LIMY ZONES, THK BDD, SL BIOFRAG, HORN, CHAIN & COLONIAL CORALS.

2F

3F

11800

4

5

6

7

11900

8

ARG, DK GR, VF-MX, LOC BIOFRAG, M-THK BDD, LT GR BLKY WTHD, FW CORALS.

12000

9

12100

1770

1

2

3

4

5

6

7

8

9

12200

1780F

1

2

3

4

5

6

7

8

9

12300

1790

1

2

SL ARG, V DK GR, MCR-X, IRREG TH-M BDD, TR AT TOP, WTHD DK GR, RGLY, FEW BRACHS.

PALAEOFAVOSITES SP.
FAVISTINA SP.
CATENISPORAS SP. (LATE ORD)
STREPTELADMA SP.
CP. BIGNONNIA SP.

? DINORTHIS SP. (M. OR LATE ORD)
STROPHOMENA SP.

STROPHOMENA SP. (M. OR LATE ORD)

V I C I H W R A T A K E D L E N I D D 8333.2

11200	5	7
	8	
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1740	1	
11300	2	
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11400	6	
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1750	1	
11500	2	
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11600	6	
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1760	1	
11700	2F	
	3F	
	4	
	5	
	6	
11800	7	
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11900		
12000		
12100	9	
1770	1	
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12200	5	
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	9	
12300	1780F	
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12400	4	
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12500	9	
	1790	
	1	
	2	

ARG TO V SHLY AT TOP, OK GR-SLK, CRYPTO-X, SLK RSLY WTHD.

MIO, V OK GR, DMS, FM PTCHS & LENSES SLK CH, SLKY & RSLY WTHD.

ARG, MIO, V OK GR, NARE IRREG CH SDS & LENSES, 6"-1' SDS, M GR SLKY WTHD.

ARG, ORDS TO SH, DOL, GR, TH SDS, WI BLK CH INSDS, SOTT F BREO, HEALD WI QZ & CA, M BRN & GR PLTY WTHD.

ARG, SIL MIO, OK GR, DOL & QZ VHS & PTCHS, FM CH PTCHS, OK GR SLKY WTHD.

SIL, OK GR, MIO, IRREG TH-M SDS, CH & WH DOL VHS.

AS AS, TH-THK SDS, NON-SIL.

ARG MIO, V OK GR, DMS, WI SCAT SLK CH LENSES, TH SDS, M GR-BRN RSLY WTHD.

MIO, V OK GR, VFX, AT TOP, 30% BLK CH LENSES.

M GR, CRYPTO-MOR-X, WI LIMY ZONES, THK SDS, SL BIOFRAG, HORN, CHAIN & COLONIAL CORALS.

MIO, OK GR, LOC F-MX, FM BLK CH PTCHS, WTHD M GR SLKY, CORALS.

ARG, OK GR, VF-MX, LOC BIOFRAG, M-THK SDS, LT GR SLKY WTHD, FM CORALS.

SL ARG, M-OK GR, CX, PT SL BIOFRAG, THK SDS-MASS, M GR RSLY WTHD, FM P PRES CORALS.

ARG, V OK GR, F-MX, CHI, M-THK SDS.

M-OK GR, MX, SL BIOFRAG, M-THK SDS, ARG PTCHS, M GR RSLY WTHD.

AS AS, TH WAVY SDS, LOC MOR-X.

ARG, MIO, V OK GR, 1"-3" SDS WI RUM SLK CALO GR PTCHS, PLTY WTHD.

SPARITE, MX, OK GR, IRREG M SDS, LT GR SLKY WTHD.

AS AS, M-TH SDS, FM BLK CH PTCHS, AT BASE, SLK CH MASSED.

AS AS WI BLK CH LENSES, SL BIOFRAG, V OK GR WTHD.

ARG, F-MX, PT BIOFRAG, V OK GR, FM CH PTCHS, BRYOZOANS, BRACHS, CHI.

AS AS WI BRACHS, BRYOZOANS & CORALS, WTHD RSLY.

MIO, FOS, WTHD M GR, RSLY.

SL ARG, OK GR, MOR-X, SCMS F-MX, TH SDS, TH SDS NOD WTHD.

SL ARG, V OK GR, MOR-X, IRREG TH-M SDS, TH GR AT TOP, WTHD OK GR, RSLY, FEW BRACHS.

PALAEOPAVOSITES SP.
FAVISTINA SP.
CATENIPORA SP. (LATE ORD)
STREPTELADMA SP.
CP. BIGHORNIA SP.

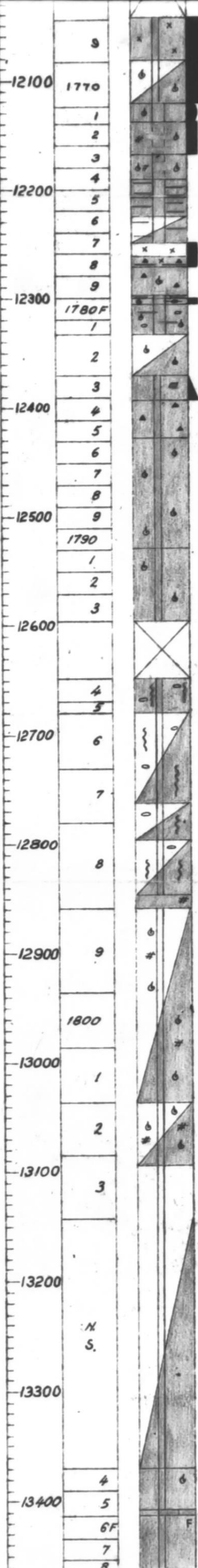
? DINORTHIS SP. (M. OR LATE ORD)
STROPHOMERA SP.

STROPHOMERA SP. (M. OR LATE ORD)

C I H W V D R O O

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W
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1540.8' +



SL ARG, M-DK GR, CX, PT SL BIOFRAG, THK BDD-MASS, M GR RGLY WTHD, FW P PRES CORALS.

ARG, V DK GR, F-MX, CRI, M-TNK BDD.

M-DK GR, MX, SL BIOFRAG, M-TNK BDD, ARG PTCHS, M GR RGLY WTHD.

AS AS, TH WAVY BDD, LOC MCR-X.

ARG, MIC, V DK GR, 1st-3rd BDD W/ HUM BLK CALO ON PTGS, FLTY WTHD.

SPARITE, MX, DK GR, IRREG M BDD, LY GR BLKY WTHD.
AS AS, M-TN BDD, FW BLK ON PTGS, AT BASE, BLK CH MASSES.
AS AS W/ BLK CH LENSES, SL BIOFRAG, V DK GR WTHD.

ARG, F-MX, PT BIOFRAG, V DK GR, FW CH PTGS, BRYOZOANS, BRACHS, CRI.
AS AS W/ BRACHS, BRYOZOANS & CORALS, WTHD RGLY.

MIC, FOS, WTHD M GR, RGLY.

SL ARG, DK GR, MCR-X, SOME F-MX, TH BDD, TH BDD NOD WTHD.

SL ARG, V DK GR, MCR-X, IRREG TH-M BDD, TR CH AT TOP, WTHD DK GR, RGLY, FEW BRACHS.

SL ARG, MIC, V DK GR, 1st-1st BDD, WH CA VNG, WTHD RGLY, M GR, SL NOD.

V DK GR-BLK, MIC, THK BDD, M GR BLKY WTHD, TR PYR.

SL ARG, MIC, V DK GR, BDD, FW BIOFRAG ZONES, TH-TNK BDD, WTHD M-DK GR, OCC PH, RGLY, TR PYR.

AS AS, APPEARS THK BDD, M GR BLKY, OCC SL PK WTHD.

SL ARG, MIC, V DK GR-BLK, TH-TNK BDD, OCC SL BIOFRAG, GR BLKY, OCC SL PK WTHD.

V CALO, V DK GR, LAM, WTHD GR & RD, FLTY.

SL ARG, V DK GR, MIC, BDD, M-TNK BDD, WTHD GR BLKY, FW GASTS & BRACHS.

? DINORTHIS SP. (M. OR LATE ORD)
STROPHOMENA SP.

STROPHOMENA SP. (M. OR LATE ORD)

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T.R. 184

PRELIMINARY GEOLOGICAL REPORT ON THE
MACKENZIE AND FRANKLIN MOUNTAINS
AREA, N.W.T., SURVEY PARTY #24, 1961.

by E. O'Bertos

November, 1961.



39-1-3-5

Abstracted for
Geo-Science Data Index

Date _____

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WITH LOCK GRIP FASTENER—CAN. PAT. NO. 212663

Size	Capacity	1"	2"	3"	4"	5"
4" x 9 1/2"	No.	501V—502V—503V—504V—505V				
4 1/2" x 10 1/2"	"	511V—512V—513V—514V—515V				
5" x 11 1/4"	"	521V—522V—523V—524V—525V				
7" x 10 1/2"	"	531V—532V—533V—534V—535V				
9 1/2" x 11 1/4"	"	541V—542V—543V—544V—545V				
9 1/2" x 14 1/4"	"	551V—552V—553V—554V—555V				
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T.R. 184

PRELIMINARY GEOLOGICAL REPORT ON THE
MACKENZIE AND FRANKLIN MOUNTAINS AREA, N.W.T.,
SURVEY PARTY #24, 1961.

by

E. O'Bertos

Abstracted for
Geo-Science Data Index

Date _____

November, 1961.

INTRODUCTION

Survey Party #24, under E. O'Bertos, completed a stratigraphic and reconnaissance structural survey in the Franklin and Mackenzie Mountains and the intervening Mackenzie plains. Work was conducted northward from 62° to 64° N. latitude and 123° to 126° W. longitude, thence northwestward from 64° to $65^{\circ} 30'$ and 125° to 128° . The area covered, as shown in Fig. 1, is approximately 11,000 square miles and adjoins the coverage in 1960 by Survey Party #23.

The party consisted of three geologists, three geological assistants, one draftsman, three aircraft personnel and one cook. It was supported in the field by a Bell G-2 helicopter and a Cessna 185 float plane. A total of $160\frac{1}{2}$ geologist days were worked. Five base camps were used and included Wrigley, Bell Weather, Dal and Mirror lakes, and the Mackenzie River near the mouth of the Blackwater. Structural traverses were done on foot and by helicopter. A canoe was used to descend the Willow Lake River from a point two miles below Gun Rapids to its mouth.

Thirty-six stratigraphic sections were measured, totalling over 140,000 feet. Most were sampled in ten foot intervals and all were searched for fossil material. Concentration was on the Devonian, but complete Cambrian to Middle Devonian sections were measured at five localities, and a thick Pre-Cambrian sedimentary section at one locality.

STRATIGRAPHY

Pre-Cambrian

On Cap Mountain, in the McConnell Range, a thick section of predominantly varicoloured siliceous shale and slate with some siltstone

and quartzite, totalling over 6,000 feet, was measured. This underlies 700 feet of orthoquartzite of the Cambrian Mount Clark formation. Similar shales were seen to underlie quartzite or quartzitic sandstones north of Blackwater Lake and on the Imperial River in the core of the Imperial Anticline. The Pre-Cambrian sediments are very thin or absent in wells drilled about 85 miles east of the Franklin Mountains.

Cambrian

In the Franklin Mountains between Cap Mountain and Blackwater Lake, Williams made a threefold division of the Cambrian into the Mount Clark, Mount Cap and Saline River formations. This division in the area appears sound on a lithologic basis. On Cap Mountain, the Mount Cap and Saline River formations are very poorly exposed; the Mount Clark quartzites form the dip slope. Six miles northwest of Blackwater Lake, both the Mount Clark and Mount Cap formations are fairly well exposed in an overthrust block. The Saline River formation is best observed along the Saline River ten miles east of the Mackenzie. The Cambrian forms fairly extensive surface exposures in the Franklins north of the Saline River.

Mount Clark formation

On Cap Mountain the Mount Clark is 695 feet thick and consists of fine to medium grained sandstones and orthoquartzite with scolithus near the base. The base of the formation is marked by a thin quartz pebble conglomerate bed. Six miles northwest of Blackwater Lake, a similar siliceous sandstone was measured, but the base is not exposed. It is underlain by dark grey weathering shales of the Pre-Cambrian. Eighty-five miles to the west, near the Redstone River, a thick 2,800 foot section of fine grained quartzite with minor siliceous slates and dolomite was measured in the core of an anticline. The base was not exposed. No fossils were

found in any of the sections but the Mount Clark is thought to be Lower Cambrian based on the age of the overlying formations.

Mount Cap formation

The Mount Cap formation is best exposed along a small creek six miles northwest of Blackwater Lake. Its total thickness is about 900 feet and consists of an upper unit, 200 to 300 feet thick, of interbedded ill-sorted fine to coarse grained sandstones and dark grey shales with minor dark grey limestones. A lower unit, 600 to 700 feet thick, consists of greenish grey shale with some thin sandstone lenses. A brachiopod fauna from the limestone beds and trilobites from the top of the shale unit have not as yet been identified. The trilobites may belong to the genus Albertella which is exclusively of Middle Cambrian age. The Mount Cap formation is very poorly exposed on the west side of Cap Mountain and no thickness could be measured. On the Imperial River, dark grey and greenish grey shales and fine grained sandstones and siltstones overlies quartzites and are believed to be a correlative of the Mount Cap formation.

Saline River formation

Numerous exposures of red highly gypsiferous shale and gypsum were seen along the Saline River about ten miles east of the Mackenzie. These are overlain by creamy buff calcareous shales and argillaceous limestones. Total thickness is between 200 and 300 feet. The Saline River forms the saddle on the west side of Cap Mountain and is tree covered. Thirty miles southwest of the Mackay Range, in a canyon along the Little Bear River, are gypsiferous dark shales, and gypsum underlying carbonates of the Ronning Group. Below the gypsiferous beds is a 20 to 50 foot exposure of light grey to white, coarse crystalline halite which weathers by recent wind and water into jagged pinnacle form. The presence of salt

in the subsurface underlying carbonates of the Ronning Group has been attested by the Imperial Vermilion Ridge No. 1 well which drilled near 1,000 feet of salt. This well is located on the north side of Vermilion Creek east of the Mackenzie River.

Ordovician and Silurian

The oldest rocks that were seen in the North Nahanni River - Root River area are exposed in the core of a large anticline in the Whittaker Range of the Mackenzie Mountains. These consist of 600 feet of grey and brownish grey fine grained and sandy dolomite and dolomitic fine grained sandstone. These beds are underlain by 400 feet of black argillaceous to silty cryptocrystalline limestone. Correlation of these rocks with other sections is uncertain. They may be present near Marten Creek on the Redstone River where 1,000 feet of siliceous and sandy dolomite and dolomitic sandstone, and 900 feet of dark argillaceous limestone, overlie a thick quartzite section of possible Cambrian age.

In the headwaters of the English Chief River, 2,700 feet of dark argillaceous and silty limestone overlie the oldest beds mentioned above. These beds can be easily correlated with 1,500 feet of similar limestone exposed in the core of an anticline at the northern end of the Manetoe Range. Succeeding units between the two sections can be readily correlated and lithologies and thicknesses are somewhat similar. The argillaceous limestones are overlain by 830 feet of siliceous, cherty and argillaceous dolomite on the Manetoe Range which corresponds to a somewhat thicker unit of argillaceous dolomite on the English Chief River. A thick section of argillaceous and platy limestones and black graptolitic shales grading upwards into dark thin bedded argillaceous platy and nodular limestones, and finally into clean light grey thick bedded limestones, overlie the dolomite unit and underlie the darker weathering dolomites of the North Nahanni River

formation. The entire sequence can be divided into several units and is 8,500 and 8,600 feet thick on the English Chief River and the Northern Manetoe Range respectively. Graptolites belonging to the Upper Silurian M. nilssoni zone have been identified from both sections. Correlations with areas to the south are better than with areas to the north or northwest. The entire sequence may be more or less equivalent to G.S.C. map units 5 and 6 of Douglas (paper 60-19) in the Tundra Ridge and Sunblood and Cathedral Mountain regions. Rapid thinning of these Silurian units must take place northward. The graptolitic black shales and thick dark grey shales and argillaceous limestones are absent near Marten Creek south of the Redstone River. The upper thick bedded light grey limestones are present, however, and are underlain by dark thin bedded limestone containing black shale partings and an abundant brachiopod fauna. This apparent rapid thinning northward is probably caused by disconformable relationships as well as decreased deposition.

In the Franklin Mountains and northern Mackenzie Mountains, the Ordovician - Silurian rocks are in the order of 2,000 to 3,000 feet in thickness and have been referred to by Hume as the Ronning Group. A subdivision of the Ronning into the upper Mount Kindle formation and the lower Franklin Mountain formation can generally be made with little difficulty. The Mount Kindle consists of grey and brown dolomites and cherty dolomites containing an abundant coral fauna, especially in the lower part. The Franklin Mountain consists of siliceous and sandy dolomites and is unfossiliferous. A disconformity is apparent between the Ronning and the overlying Bear Rock formation.

Lower and Middle Devonian

North Nahanni River formation

The North Nahanni River formation in the North Nahanni - Root Rivers area consists of between 3,000 and 4,000 feet of dark and light grey

banded fine to medium grained dolomites, grading to light grey crypto-grained dolomite in the lower part. To the north and east the North Nahanni thins and is gradually replaced laterally by a coarse breccia of limestone and dolomite of the Bear Rock formation. The Bear Rock is over 1,000 feet thick in the Franklin Mountains and between 500 and 700 feet thick in the Mackenzie Mountains west of Fort Norman and Norman Wells. The presence of anhydrite in the Bear Rock in the subsurface, and sometimes gypsum in the surface, indicates it is probably a collapse breccia. Fossils are extremely rare in the North Nahanni and always poorly preserved. In areas where part of the formation shales out, fossils are more abundant and have been identified as Middle Devonian (Douglas G.S.C. paper 60-19). The Bear Rock is overlain by the Middle Devonian Hume formation. A disconformity may be present but no period of substantial erosion seems evident between the two.

Hume formation

In the Canyon Ranges of the Mackenzies, this formation can be divided into three units. An upper cliff forming, thick bedded grey and brown clastizic limestone from 300 to 350 feet thick contains abundant corals, brachiopods, a few trilobites, and other forms. Leiorhynchus castanea is commonly found in the upper 10 to 20 feet of the Hume, or in the basal shales immediately overlying, and is of Middle Devonian age. A middle unit about 800 feet thick comprises interbedded argillaceous and clastizic dark limestone and dark grey calcareous shale. Fossils are abundant in the middle unit, and Middle Devonian forms have been recognized. The lower unit of about 500 feet in thickness consists of grey, medium bedded, sometimes argillaceous cryptocrystalline limestone, and fossils are generally scarce. Complete sections of the Hume were measured at a number of localities. It is just over 1,600 feet thick in the Canyon Ranges of

the Mackenzies, but it thins eastward and northward to just over 500 feet in the Franklin Mountains and the Carcajou area west of the Mackenzie River. In these latter areas, a three-fold division of the Hume is not always possible. No disconformity is present above the Hume and the contact with the overlying shales is often sharp, but sometimes even somewhat gradational.

Hare Indian - Kee Scarp - Canol formations

These formational names as proposed by H.G. Bassett are preferred to the old Fort Creek terminology. In the general Carcajou River, Little Bear River and Norman Wells area, the Hare Indian consists of black shales, commonly bituminous, with argillaceous petroliferous limestone nodules in the lower part. The thickness varies from about 500 to 600 feet. The Middle Devonian Leiorhynchus castanea fauna has been recovered from the basal twenty feet of the Hare Indian near a west tributary to Landry Creek (Root River area) and also on Katherine Creek (Carcajou River area). In the Canyon Ranges, few sections of Hare Indian were observed. The shale is black, platy and generally not as bituminous as in the Carcajou - Norman Wells area.

The Kee Scarp formation, although not observed, is exposed at Kee Scarp, six miles east of Norman Wells. It is reported to range in thickness from zero to a maximum of 800 feet at exposures south of Imperial Anticline on Mountain River. The lower limestone beds of the Kee Scarp formation are brownish grey, commonly argillaceous and interbedded with shale. They carry the Stringocephalus sp. and are regarded as the "platform" beds on which the upper Kee Scarp is built. The upper Kee Scarp limestones are light grey, poorly bedded, and are composed mainly of branching corals and stromatoporoids. The Kee Scarp has been correlated with the producing limestone section of the Norman Wells field.

The Canol formation overlies the Kee Scarp or, where the Kee Scarp is not present, the Hare Indian formation. It is overlain by the Imperial sandstones and shales of Upper Devonian age. The Canol consists of dark grey and greenish grey fissile shale about 200 feet thick. The thickness can vary and is determined somewhat by the buildup of the underlying Kee Scarp, if present.

Upper Devonian

Imperial formation

Several good sections of the Imperial formation may be measured, as for example on Imperial River and Grotto Creek. It is predominantly a greenish grey and grey argillaceous fine grained sandstone and siltstone with interbedded shales. The total thickness is about 1,800 feet where it is not severely truncated by the Pre-Cretaceous unconformity. On a lithologic basis, the Imperial may be correlated with the upper part of Hume's D3 unit in the North Nahanni River region to the south.

Grumbler formation

The Grumbler overlies the Imperial formation and occurs in discontinuous outcrops in the Mackenzie Plains west of the southern Franklin Mountains. It is a brown fossiliferous limestone 85 feet thick, and due to its more resistant character forms small topographic highs.

Succeeding units are present in the southern Mackenzie Plains but were not examined. The Upper Devonian thickens appreciably southward from the Norman Wells - Carcajou River area. A major unconformity separates the Upper Devonian from the overlying Cretaceous.

Cretaceous and Tertiary

Cretaceous sediments cover the Upper Devonian in the Mackenzie Plains northward from about the Redstone River. The Cretaceous has been

divided, in ascending order, into the Sans Sault Group, Slater River, Little Bear and East Fork formations. Composite thickness of the Cretaceous west of Fort Norman is over 3,500 feet. No Cretaceous sections were measured by the party due to lack of time.

Unconsolidated sands and gravels of the Tertiary overlie the Cretaceous or Upper Devonian in many local areas and along major rivers. In the headwaters of the East Little Bear River, a 215 foot section of Tertiary was measured. It is composed of unconsolidated sands and gravels with thin carbonaceous or coaly beds.

STRUCTURAL GEOLOGY

The area covered is divided into three physiographic units. The Franklin Mountains, east of the Mackenzie, average 15 miles in width and extend from the region of Fort Good Hope in the north to the Willow Lake River in the south, where the structural elements pass beneath the surface. They consist of west dipping fault blocks that trend north-south to 64° N. latitude, then swing to the northwest north of 64° N. The Mackenzie Plain lies west of the Franklins. It averages 40 miles in width and forms a low lying area with elevations in the order of 1,500 feet. Exposures are poor and consist chiefly of soft Upper Devonian and Cretaceous rocks. Outcrops along the rivers and creeks which cut across strike indicate that considerable folding and some faulting are present throughout the Mackenzie Plain. The Mackenzie Mountains trend north to 65° N. latitude, then swing northwest where they merge with the Ogilvie Mountains on the Yukon plateau. Folding is the predominant structural feature of the Mackenzies and the intensity increases towards the west, where faulting is associated.

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ECONOMIC GEOLOGY

Closed structures appear to be present in the Mackenzie Plain and several have been drilled with no success (i.e. Big Bend Anticline on the Redstone River, Loon Creek Anticline west of Norman Wells).

Porosity appears to be generally lacking in the stratigraphic column in the area under discussion. Some porosity is usually present in the upper coarsely recrystallized dolomite unit of the North Nahanni River formation and other thin scattered zones throughout the formation. Stratigraphic traps could arise where these porous zones are replaced updip by evaporites. Best porosity was found during the season in a section measured near the North Redstone River where small biohermal reefs are present scattered throughout the upper part of the North Nahanni River formation.

Excellent petroleum source beds are evident in the Hare Indian and Canol formations over a large area north of the Keele River where the shales are often highly bituminous. Numerous oil and gas seepages are present along the Mackenzie and rivers that flow into it.

Among the minerals that could have economic value are iron, salt and gypsum. Transportation problems do not warrant development of these deposits at this time.



E. O'Bertos

DRG. No G-1592/1

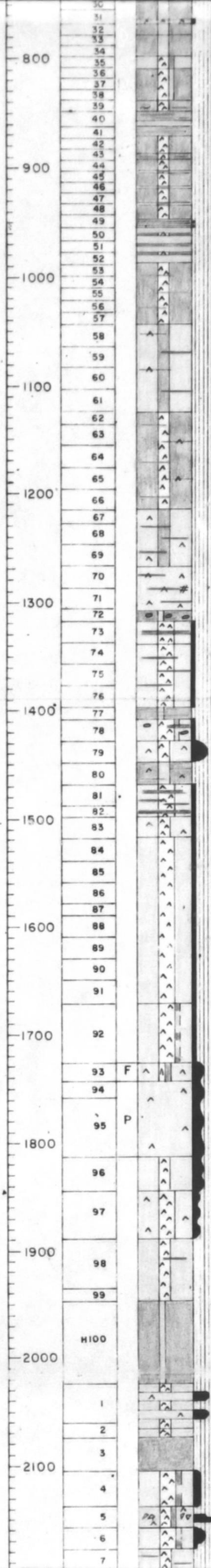
REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 123° 13' 00" W

AUTHOR: L. M. SPRATT

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CLR QZ G, V QZIC, LT/M GR
M GR, FRM, FISS/PLTY, SDG 1/8"-1/4", WYND M GR.
M GRN, PLTY, IRREG SDG, WYND MUST BRN.
M GR BRN, FRM, PLTY, 1/2" SDG, WYND M/DK GR BRN.
M GR BRN, V SIL, WI V TH LAM VFG SST & HRD SLTST, SDG 1/8"-1/2",
WYND M GR BRN, TH GLAUC IN SST.
TAN, RD-BRN, FRM/HRD, WYND M/DK GR, INSD WI M GR, FISS, FRM, WI
TH SDG LT GR VFG SST.
M GR-BRN, HRD, SDG 3/8"-1", WYND M GR-BRN.
SH, HRD, 1/2" SDG, WYND M GRN-GR, WI SDGS M GR SLTST, HRD,
WYND M GRN-GR, 1/2" SDG.
SLTST, M GR-BRN, HRD, SST, VFG, QZIC, WYND LT & M GR SHDD.
M GR-BRN, HRD, WI TH SDGS SH, M GR, HRD, SIL, WYND M GR, WI
TH LYRS HAEM, RD-BRN.
SH, M/DK GR, SIL, HRD, WI TH SLTST SDGS, M GR, HRD, WYND BRN & GR,
SDG 1/2"-3/4", X-SDG IN SLTST, OCC HAEM LYRS.
M GR-BRN, HRD, VF SDGS, FE STNG, WI TH M GR SH SDGS, WYND M GR
& BRN, SDG 1/2", WI TH STGS LT GR VFG SST, QZIC, SL CONTORTED.
M GR, SIL 1/2"-1" SDG, HRD, WYND M/DK GR, WI LT GR SLTST &
SDGS VFG QZIC SST.
LT & M GR VF SDGS, SDG 1/2", WYND M GR, WI TH SDGS SH, GR BRN &
DK GR, SDG 1/2"-1".
M GR, HRD, SDG 1", WI TH SH SDGS, M GR, SIL, HRD, WYND M GR-BRN,
WI SDGS VF SDGS SLTST, LT & M GR, HRD, QZIC.
SH, GRN-GR, SFT, WI MO BLK LIM NODS, FE STNG RD & BRN IN TH LYRS,
QZITE, LT & M GR SHDD, HRD. SLTY IN PT.
QZITE, IRREG SDGS, LT & M GR & TAN, WI SH SDGS, M GR, FRM,
SDGS QZIC SLTST IN PT.
M GR, SLTY, FRM, FISS, IRREG SDG 1/4"-3/8" WI V TH STGS LT GR
SLTST & LT GR VFG SST.
LT & M GR VF SDGS IN PT, SDGS ARG & SLTY IN PT, WYND M GR.
ORTHQZITE, CLR & LT GR, MINOR LT BRN STNG, F/MG QZ G FUSED, CEM
WI SIL CEM, HRD, WYND LT GR TO WNT.
M GR, SLTY, SDG 1/2" QZ G, CLR, R, WI TH SDGS SLTST, M GRN, HRD,
SDG 1/2", WYND M GR-BRN.
QZITE, CLR, LT GR, LT BRN, WYND LT GR & BRN, WI SH, M GR, 1/2" TH,
WYND M GR.
ORTHQZITE, CLR, LT GR & LT BRN, FUSED QZ GRNS & SIL CEM, LT GR
SPELD WI DK GR, HRD, WYND M GR & TAN.
QZITE, CLR & LT BRN, QZ GRNS FUSED & CEM, BRN FE STNG IN PT,
WYND LT & M GRN, SDGS IMPURE & NVLY FE STNG IN PT, WYND M GR -BRN
& WNT.
QZITE, LT BRN & ROSE, LT & M GR SHDD IN PT, HRD, WYND M GR & BRN.
SST, P CEM, FRI, A, P SRTG, LT GR & BRN, WYND M GRN.
SST, ROSE & CLR & WI RD & TAN CEM, SL FRI IN PT, P SRTG,
WYND ROSE, TAN & BRN.
SST, GRN & TH, QZIC, WI PTCHS F/M/CG SST, P SRTG, S-R, WI HAEM
CEM, WYND TAN & BRN.
QZITE, QZ G FUSED & CEM, LT GR, CLR & TAN, WYND LT GR & BRN.
LT & M GR, SHDD IN PT, QZIC, V HRD, SDG 1/2" REG, WI TH LT BRN
SH SDG, WYND M GR-BRN.
M GRN-GR, FISS, SDG 1/4" IRREG, WYND M GR-BRN.
M GR-BRN, QZIC, HRD, WYND M/DK GR, 1/2" SDG.
HRD SST CEM, P/CG, P SRTG, S-A, A, R, FE CEM IN PT, CLR & TAN
QZ G IN RD-BRN MTK, WYND M GR & MUST BRN, P SDG.
GR-MAUVE & M BRN, HRD, FISS, SDG 1/2"-1", WYND BRN & MAUVE.
QZITE, LT GR & SF, FE SPKS, HRD, SDGS ARG & FERR IN PT, M RD-BRN,
WYND LT BRN & M RD-BRN.
M GR-BRN, HRD, QZIC, SDG 1/2"-1" REG, WI TH SD QZ BRN, M/CG CLR
QZ G, OCC VCG QZ FRGS, WYND LT GR & BRN.
QZITE, CLR WI PTCHS MAUVE.
LT BRN, QZIC, SHDD WI LT GR, WI TH BRN SH SDGS.

N

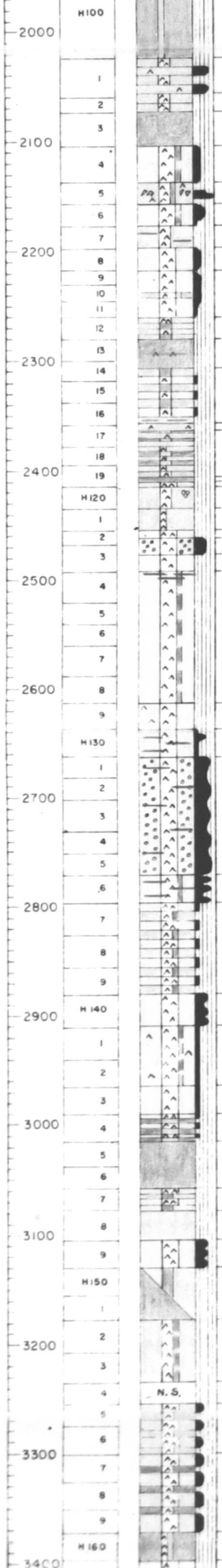
A

I

R

B

M



M BRN-GR, FISS, SDG $\frac{1}{2}$ " IRREG, WTHD M GR-BRN.

M GR-BRN, QTZIC, HRD, WTHD M/DK GR, $\frac{1}{2}$ " SDG.
 (HDD SST OGL, P/CG, P SRTG, S-A, A, R, FE CEM IN PT, CLR & TAN
 QTZ G IN RD-BRN MTK, WTHD M GR & RUST BRN, P SDG.

GR-MAUVE & M BRN, HRD, FISS, SDG $\frac{1}{2}$ "- $\frac{1}{4}$ ", WTHD BRN & MAUVE.

QTZITE, LT GR & SF, FE SPKS, HRD, BCMG ARG & FERR IN PT, M RD-BRN,
 WTHD LT BRN & M RD-BRN.

M GR-BRN, HRD, QTZIC, SDG $\frac{1}{2}$ "- $\frac{1}{4}$ " REG, WI TH SD QTZ BREC, M/CG CLR
 QTZ G, OCC VCG QTZ FRGS, WTHD LT GR & BRN.

QTZITE, CLR WI PTCHS MAUVE.

LT BRN, QTZIC, SHDD WI LT GR, WI TH BRN SH BND.

QTZITE, LT & M GR, F SHDD, OCC M/CG IN PT, HRD, SDG $\frac{1}{2}$ "- $\frac{1}{4}$ " REG,
 WTHD M GR-BRN.

QTZITE, LT GR & M GR-BRN, SDG $\frac{1}{2}$ " REG, WTHD M/DK GR,
 GRDG TO SLTST, LT GR & LT BRN, M BRN, RUST BRN & RD, WTHD RD-BN
 & BRN.

M BRN, QTZIC, HRD.

GR-MAUVE, FISS, & TAN $\frac{1}{8}$ " SDG WI $\frac{1}{2}$ " SHD SLTST.

SLTST/VFG SST, ADD ARG & FERR CEM MTL, RD-BRN STRK, M RD-MAUVE,
 SPT/FRM, INDD SLTST, TAN, M BRN, RUST BRN, QTZIC, HRD, SDG $\frac{1}{2}$ ",
 WTHD MAUVE & TAN.

LT/M BRN, HRD, INDD SH, M BRN, SLTY, FRM, WTHD LT/M BRN.

SH, BRICK RD, FISS, $\frac{1}{8}$ " PLTY.

QTZITE, M BRN, FUSED QTZ G, HRD, WTHD M/DK BRN.

M GR-BRN, QTZIC, HRD, WTHD M GR-BRN, WI V TH VN SIDERITE, BOTRYOIDAL,
 BLK, HRD.

LT GRN-BRN, FRM/HRD, WTHD M BRN & RUST.

QTZITE, LT BRN & GR, FUSED CLR QTZ G, W CEM WI SIL CEM.

QTZ OGL, CLR QTZ G IN RD-BRN VFG QTZIC MTK, WTHD DK BRN-RD.

QTZITE, PK & SF, FUSED CLR QTZ G, HRD, WTHD LT BRN.

QTZITE, LT GR, DK BRN-RD, LT BRN SPKLD WI DK BRN, WI TH BND
 OF YELL-BRN SH AT TOP, QTZITE BCMG SL COLIC & ARG IN PT,
 WTHD M GR-BRN & DK RD-BRN.

QTZITE, LT GR & M BRN-RD SHDD IRREG, OCC CG QTZ G & FRGS,
 WTHD M GR & DK RD.

QTZITE, VFG, CLR QTZ G FUSED WI OCC MG R QTZ G, LT & M BRN MOTT,
 WI RD-BRN ADD QTZITE WI SCAT M/CG CLR QTZ FRGS, WTHD M GR-BRN &
 DK RD-BRN.

QTZ OGL, LT & M BRN-RD, HRD, WTHD LT/M BRN & GR,
 WI TH DK BRN-RD SH BND.

QTZITE, BRK RD/DK RD-BRN, COLIC IN PT, ARG & FERR CEM,
 WI TH BND DK RD ARGILLITE, WTHD DK RD-BRN.

QTZITE INDD SLTST, HRD, RD-BRN & LT GR, SDG $\frac{1}{2}$ "- $\frac{1}{4}$ " REG,
 WTHD RD-BRN, DK BRN & RUST BRN, TR MG QTZ G IN QTZITE.

QTZITE, TAN, WTHD LT YELL-BRN.

QTZITE, RD-BRN, VFG/SLTY, ARG IN PT, OCC SCAT FG QTZ G,
 SDG $\frac{1}{2}$ " IRREG, WTHD RUST & RD.

LT GR & BRN, HRD, SDG $\frac{1}{2}$ "- $\frac{1}{4}$ " REG, WTHD DK BRN-RD, SF.

LT GR & SF, HRD, INDD RD SLTY SH, SPT/FRM, WTHD DK BRN-RD.

ARGILLITE, DK BRN-RD, HRD, CONCH FRAC, PLTY IN PT, WTHD M RD.

QTZITE, TAN, HRD, INDD IRREG WI SLTST, DK BRN-RD, HRD, WTHD
 DK BRN-RD.

SLTST, DK BRN-RD, VF MIC, V FERR, WTHD M BRN-RD.

LT BRN & M RD, HRD, WTHD LT/M BRN & DK BRN-RD.

SLTST, M/DK BRN-RD, GRDG TO BRN-RD ARGILLITE, SDG $\frac{1}{2}$ " REG,
 WTHD DK BRN-RD.

M & DK BRN-RD SHDD, SDG $\frac{1}{2}$ ", V FERR, WTHD BRN-RD.

QTZITE, CLR & M RD-BRN, INDD SLTST, M RD-BRN, HRD, V FERR,
 WTHD M/DK BRN-RD.

QTZITE, CLR & RD-BRN QTZ G, W FUSED, HRD, WTHD M GR-RD,
 INDD DK RD BRN & QTZIC LT GR-BRN SH, WTHD RD & LT GR.

LT GR-BRN, SLTY, & M RD BRN, QTZIC, PLTY IRREG SDG, WTHD GR &
 RD-BRN.

M

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3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700

H160

N.S.

H170

H180

H190

H200

N.S.

WTHD M/DK BRN-RD.

QZITE, CLR & RD-BRN QZ G, W FUSED, HRD, WTHD M GR-RD,
IMDS DK RD SH & QZITE LT GR-BRN SH, WTHD RD & LT GR.

LT GR-BRN, SLTY, & M RD BRN, QZITE, PLTY IRREG SDG, WTHD GR
RD-BRN.

CLR & RD-BRN, WTHD RUST BRN, WI TH SH SDGS, M GR, WTHD DK GR-BRN.

LT BRN & M GR, SDG $\frac{1}{4}$ "- $\frac{1}{2}$ ", WI TH SDGS BRN-RD QZITE.

ARGILL, DK RD-BRN, HRD, SDG $\frac{1}{2}$ " IRREG, WTHD RUST-BRN & BRN-RD.

ARGILL, M/DK GR, HRD, MASS, WI TH SH SDGS, WTHD DK GR.

QZITE, M GR-BRN, HRD, SDG $\frac{1}{4}$ ", WTHD DK GR-BRN, WI TH SDGS SLTST,
M GR, HRD, SDG $\frac{1}{4}$ ".

SLTST, TAN, QZITE, HRD, WTHD M BRN.
SH, M GR, PLTY, V FRM, WTHD DK GR.

M GRN-GR & M RD-BRN, HRD, SDG $\frac{1}{4}$ "- $\frac{1}{2}$ ", WTHD GR & BRN, WI SDGS SH,
M BRN-RD, WTHD M RD & MAUVE.

BRK RD, HRD, SDG IRREG, WTHD DK RD, WI TH SDGS M GR-RD SH,
SDG $\frac{1}{4}$ "- $\frac{1}{2}$ ", WI SDGS ARGILL, M RD, HRD, SLATE-LIKE.

ARG, GRDG TO SLTST, SDG $\frac{1}{2}$ "- $\frac{1}{4}$ " REG.

ARGILL, LT/M GR, SCAT MAG VNS, CLR CG XLS.
M BRN, WTHD M GR-RD.

LT GR WI IRREG PTONG BRK RD SH & VOG GRN-RD SH, CALC,
SURFACE LEACHING OF SHALE.

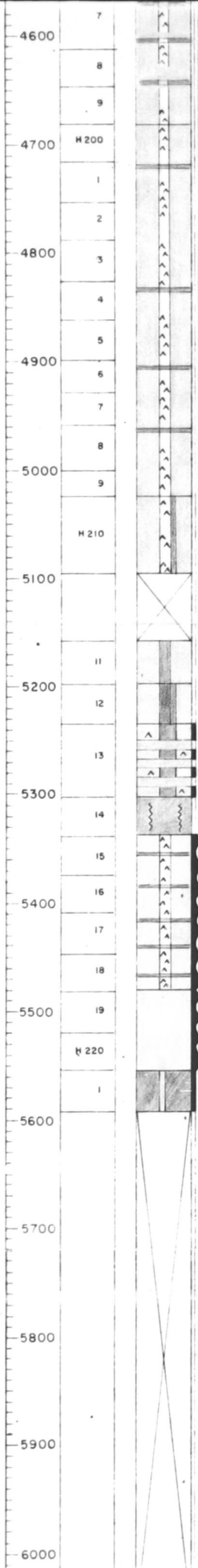
ARGILL, LT BRN-GR, WTHD TAN.

M GR, HRD, SDG $\frac{1}{4}$ " REG, WTHD M BRN.

SH, BRK RD & DK RD, SLTY, FRM, WTHD DK RD.

SH, M BRN-RD, PLTY, FIRM, WTHD DK RD-BRN, WI SDGS RD SLTST,
SDG $\frac{1}{4}$ "- $\frac{1}{2}$ ", WTHD DK BRN-RD.

DK RD, HRD, SDG $\frac{1}{2}$ ", WTHD DK RD,
GRDG TO SLTY RD SH IN PT, WTHD M GR-RD.



M BRN-RD & BKK RD, SDG $\frac{1}{2}$ "-1", WTHD M RD, WI TH BNDG BR-RD SH, PLTY, WTHD BK GR-RD.

GR, QZTIC & RD ARGILL, HRD, SDG $\frac{1}{2}$ "-1", WTHD M/DK BRN-RD.

BKK RD, FRM/HRD, SDG IRREG, WTHD M GR-RD.

LT/M GR, SL CALC, WTHD BRN-GR & YELL-BRN.

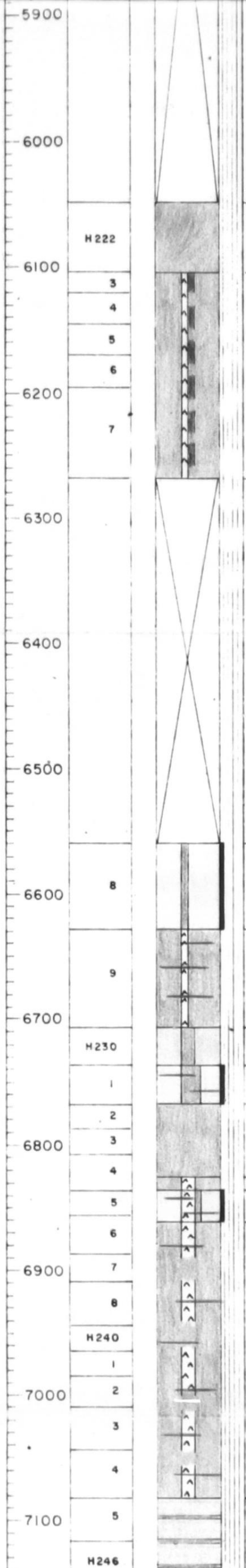
SST, S-A, P CEM, ARG & FERR MTX, RD, INBD RD SLTST, SDG $\frac{1}{2}$ ", WTHD M GR-RD.

DK BRN-RD, FRM, WI VMS ARG SST, M GR, VFG, A, MASS, WTHD M RD.

M GR BRN & GRN-GR, HRD, SDG $\frac{1}{2}$ "-2", WTHD M BRN-GR, WI BNDG SH, BK GR-RD, WTHD M BRN-RD.

M GRN-GR, WI IRON BRN SPKS, A/S-A, P SORTING, SDG IRREG, WTHD M RD & GR.

LT/M GR, CRS XLNE, SCAT FLTG SD GRNS, VFG, TH SDG, WTHD TAN & GR.



SH, M GRN-RD, HRD, PLTY, BDG $\frac{1}{2}$ "-1", WTHD GR-RD.

SH, M GR & TAN, BDG $\frac{1}{4}$ "-1", HRD, WTHD TAN.

M BRN WI IRON BRN SPKS, P SRTG, S-A, P CEM WI ARG CEM IN PT, BDG $\frac{1}{2}$ "/MASS IRREG, WTHD M GR.

SH, M/DK GR, BDG $\frac{1}{2}$ "-1", FRM, WTHD M/DK GR, WI TH BNDS BF FRM SH, WTHD TAN.

SLTST, M/DK GR, $\frac{1}{2}$ " IRREG BDG, WTHD DK BRN-GR.

SST, IMPURE, M GR, IRREG BDG, WI TH BNDS GRN-GR SIL MUDST, HRD, BDG $\frac{1}{4}$ "-2", WTHD M GR.

SH, DK BRN-GR, BDG $\frac{1}{4}$ "-3/4" IRREG, FIRM, WTHD M/DK IRON GR.

LT/M GRN-GR, SIL, HRD, VF BNDD, BDG $\frac{1}{4}$ "-3/4" REG.

SST, M GRN-GR, BDG $\frac{1}{2}$ ", WTHD GR WI TH BNDS DK GR SH.

SH, M/DK GR, FRM/HRD, GRDG TO ARGILLITE IN PT, WI TH BNDS F BNDD LT GR MUDST, SIL, WTHD GR.

M GRN-GR, HRD, BDG 1", WTHD M GR WI TH BNDS DK GR SH, WTHD GR.

DRG. No. G-1592/2

REPORT No. G.R.-99

PARTY No. 24

LONGITUDE 123° 36' 00" W

AUTHOR: R.L. PEMBERTON

1 OF 2

M I D D L E D E V O N I A N

F.M.

H U M E

F.M.

R O C K

B E A R

UPPER

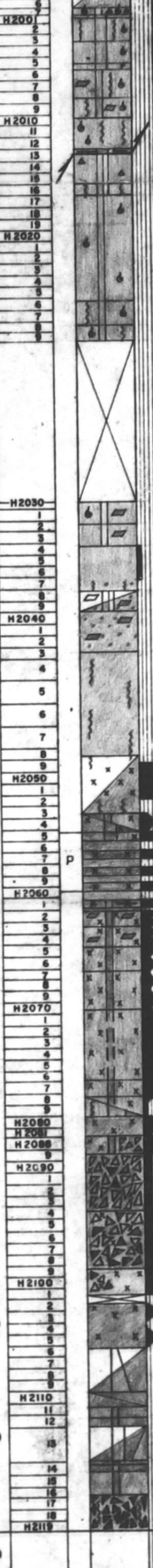
MIDDLE

LOWER

180.4'

578.5'

623.7' +



DE-V OR CR, M-THE SSS, IRREG RUSTY BRN CR MASSES.
SL GLTY, LT CR, BRN CRTY MASSES.
MASS CUP CORALS.

LOC SL SPARRY, ADD CUP CORALS, WTH M-LT CR RSLY, SL RECEDING.
CRUDE CRD SDC.

RARE CR SPARRY PATCHES, M-OR BRN, FM VERT CA STROS, SCAT CUP CORALS, MASS.

SL BIOPHAC, CORALLINE MASSES.
BIT PYOS - FAULT - HORIZONTAL MOVEMENT, DIRECTION UNKNOWN.
V BR CR, COLONIAL CORALS, SCAT BR CR CRTY PATCHES, MASS.
V FM CUP CORALS, MASS, SCAT CR VEG. SDC SL VEGGY.

SCAT CRD & OTHER FOS FRAG, BR CR, MASS, MUCH VERT WH CA FRAG FILLING, WTH M-OR CR, SLKY-RSLY.

F FOS FRAGS, BR CR, MASS, WTH M-OR CR.
SL CA VEG.

DE BRN CR, DSD, RARE SPARRY PATCHES, SLKY WTH.

M BRN, SPARRY, NO CR SDC, HAS CRUSTED APP.
DE CR, SCAT CR VEG, MASS, WTH M CR, SLKY.
M BRN, SPARRY, ADD CR WH CA PATCHES, F SDC, WTH LT CR CRUMPLY.
DE CR BRN, M-OR PATCHES, SL SDC, F CA STROS, MASS.

DE CR, SDC, SCAT CR VEG, FOS MASS, SDC M-THE SSS, LT-M CR SLKY WTH.

WH CR CR MASS.

DE CR, DSD, CA VEG, MASS-THE SSS, WTH SLKY-RSLY.
GROS PY LST, M-OR, WH CR, MASS, WTH SLKY, M CR, LST & DOL OPTER F INSD.
DOL, M BRN, SPARRY, LST IRREG CARDED, SCAT IR-X FOR, F INSD.
MASS, WTH M-OR CR RSLY.
CARDED DOL, LST & WH CR, F SDC, WTH RSLY, SCAT IR-X FOR IN M-LNE DOL PATCHES.
DE CR & BRN, DSD, SPARRY STRO, THE SSS, WTH M CR, SLKY.
SPARITE, F-M, IN BIT MATTER, MASS, WTH M CR.
DE CR & BRN, SDC, SPARRY STRO, THE SSS, WTH M CR SLKY.
M BRN WH MUCH CR AS GLESS & PATCHES IN TOP, THE SSS, RSLY.

SPARITE, M BRN, SLK BIT INFILLING.

SPARRY, SOME SLK BIT MATTER, MUCH CR IN MASSES, STROS & LENSES, MASS, NO VEG SDC, WTH M CR, RSLY.

GROS TO DOL SPARITE, VF SDC, CRUC CRN, F CA VEG.
SPARRY, BIT, V BR CR, F-MO, DSD, MASS.
MUCH WH VOR CR.

SPARITE, DIRTY CRN, WH CA BRUCIA FILLING, MASS, NO SDC.

SPARITE, M CR & BRN, TH BIT, MUCH WH CA INFILLING.

BIT SPARITE, V BR CR, F SDC, BRUC WH WH CA INFILLING.

M-OR CR, FM 1st SDC, WTH CR, SLKY & RSLY.

DE CR, DSD, WELL SDC, SDC 1st-3rd THK, WTH M-OR CR, SLKY.

DE CR, DSD, WELL SDC, 1st-4th SDC, WTH BR CR, SLKY.
DE CR, DSD, M-THE SSS, RSLY, M CR WTH.

GROS PLY TO DOL, M-OR CR, MICHSTE, M-THE SSS.

M BRN, SL SPARRY, WH TH LST BREAKS, MASS, WTH BRN & CR, RSLY.

BRUC, DOL NEG, SL CALC, M CR & BRN, MINOR LST, DOL, M-OR CR, MUCH CA VEG.

DRG. No. G-1592/3

REPORT No. G.R.-99

PARTY No. 24

LONGITUDE 123° 43' 00" W

SCALE: 1" = 100'

AUTHOR: E. O'BERTOS

1 OF 2

1519.8' +

INREG VNS OF WH ON MAG.

• DRG. No. G-1592/4

REPORT No. G.R. 99

PARTY No. 24

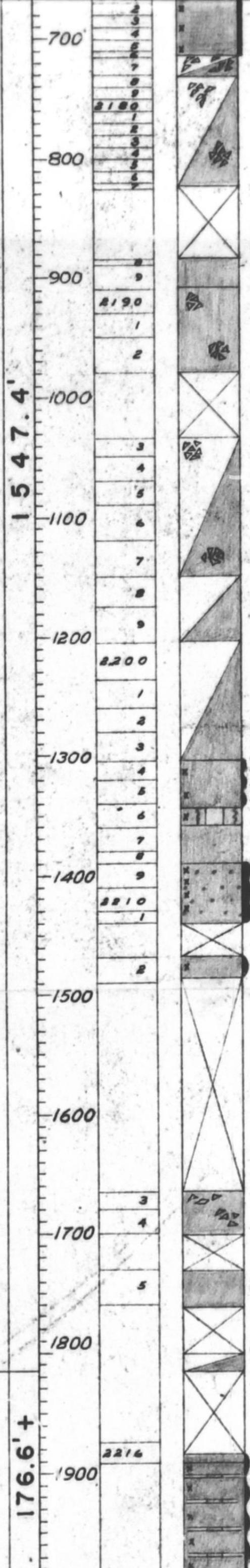
LATITUDE 63° 16' 50" N. LONGITUDE 123° 12' 00" W.

AUTHOR: L. M. SPRATT

1 OF 2

ORD. & SIL. 3
MT. KINDLE FM.

M I D D L E
B E A R
R O C K
F M.



M BRN, MASS BRECCIA, WTHD LT GR, PITTED, RDLY.

M BRN, MASS BRECCIA, WTHD LT GR, PITTED.

M GR & BRN, WTHD LT GR, EXT PITTED & WI LEACHED VUGS.

M BRN, MASS BRECCIA, WTHD LT GR, PITTED.

M BRN, DND, MASS BRECCIA, WTHD LT GR, PITTED, WI MINOR DK BRN MOD-X LAY.

M BRN, DND, MASS, WTHD LT GR, PITTED.

M GR, DND, WTHD PITTED, HKLY, RDLY, LT GR, MASS.

M BRN, MASS, WTHD LT GR, PITTED.

INDL IN BRN, M GR 1st-2nd BRN, VAN ATTITUDE, FOLDED, DIES LOCALLY.

M GR-BRN, MASS, WTHD LT GR, PITTED.

LT/M BRN WI SPARRY OA, WTHD PITTED, LT GR, MASS BRN.

M BRN, DND IN PT, MASS, WTHD PITTED, LT GR.

M BRN, DND, WTHD PITTED, LT GR, MASS BRN.

M BRN, MASS, WTHD PITTED, LT GR.

M BRN, DND 1st-2nd IN PT, MASS IN PT, JNTD, WTHD LT GR-BRN, RDLY-PLY, WITH BANDS OF DOL SLTST, LT/M BRN, TH BRN.

DRG. No. G-1592/5

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 123° 23' W

AUTHOR: E. O'BERTOS

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TRIAD OIL CO. LTD.

DRG. No. G-1592/7

SECTION 24-7

REPORT No. G.R. 99

LOCATION: IVERSON RANGE, NORTH OF ROOT RIVER

PARTY No. 24

MAP REFERENCE: DAHADINNI RIVER LATITUDE, 63° 00' 30" N

LONGITUDE 124° 50' W

DATE: JUNE 12th. 1961

SCALE: 1" = 100'

AUTHOR: E. O'BERTOS

[illegible]

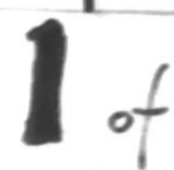
DRG. No. G-1592/6

REPORT No. G.R. 99

PARTY No. 24

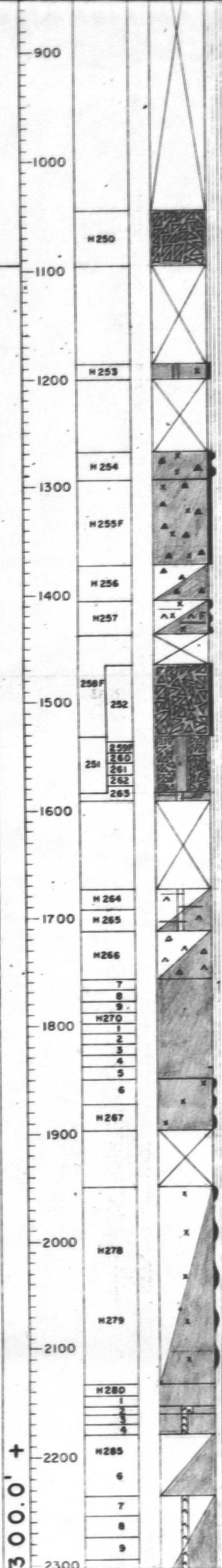
LONGITUDE 123° 13' 00" W

AUTHOR: R.L. PEMBERTON



MID

SILURIAN

AND
ROONING GROUP

LT BRECCIA AS AB.

H GR, SL CALC, THK SSS, WTH GR, SLKY.

DR GR-GRN, BARE FOS FRAGS, H SSS, WTH H GR SLKY, CHAIN & CUP CORALS.

GR, THK SSS, PTCH & LENSES BK GR-SLK GR, WTH GR SLKY & SLKY.

H GRN W/ SLK AND? STRES, HGR-VFX, FM GR PTCH, FM FOS (BRACH, CUP CORALS) & MUCH SIL FOS DEBRIS, FM VUS FILLED W/ W QTZ.

H GR, VFX, SMALL CA LINED VUS, FOCKED, ROUGH WTH.

H-GR GR, HIC, CALC, WTH FOCKY, SLKY, H GR.

H GRN, SSS, BARE ZONES H-GRS & SO GRN, BARE SLTY-AND STRES, GR PTCH, FM VUS FILLED W/ CA & QTZ, WTH SF-H GR, SLKY.

DR GR-H GRN, W/ FLY & H-GRS SO GRN, BARE AND? STRES, 6'-3' SSS, SIL FOS FRAGS, WTH GR GRN, SLKY & SLKY.

H-LT GR & GRN, SSS, FM GR PTCH & QTZ LENSES, H SSS, H GR SLKY WTH.

ROIGN-PURP GR, H-TH SSS, WTH LT GR GRN, SLKY.

AS AB, SOME VFX, H GRN, SL ROIGN & PURP, WTH GRN, SLKY.

H GRN, BK GR, OCC VFX, MASS, WTH GRN & GR, SLKY.

H-GR GR, THK SSS, WTH H OCHRE GRN, SLKY.

DEEP PURP & BK GR, SIL, FERR, HD & BRITTLE, H SSS, WTH PURP, SLKY & OCHRE GRN.

AS AB W/ FM TH PURP FERR DOL SSS, WTH OCHRE & PURP, SLKY.

H-GR GR & GRN, SL SIL, HD & BRITTLE, H SSS, WTH OCHRE, SF, GRN.

2 of

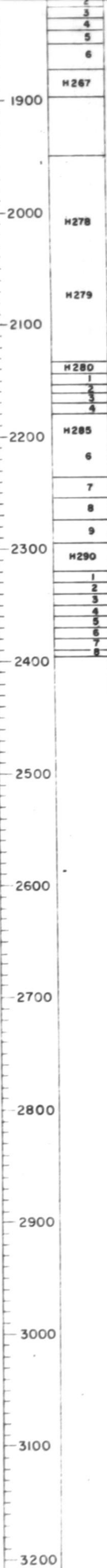
ORDOVICIAN

AND R O N N I N G

?

S A L I N E R. F M S.

1300.0' +



As as, some vfx, m brn, sl, rdish & pur p, wthd brn, rdly.

M brn, dk gr, occ vfx, mass, wthd brn & gr, rdly.

M-dk gr, thk sss, wthd m ochre brn, slky.

DEEP PURP & dk gr, sil, ferr, nd & shittle, m sss, wthd purp, rdly & ochre brn.

As as w/ fm th purp ferr dol sss, wthd ochre & purp, rdly.

M-dk gr & brn, sl sil, nd & shittle, m sss, wthd ochre, sf, brn.

SL sil, m-dk gr, sl ferr, sss, m-thk sss, wthd m gr, rdly.

ORDOV

? ?

C A M B R I A N

M T. C A P & S A L I N E R. F M S.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600

Ties in with Top of section 24-1 CAP MOUNTAIN

4 of 4

DRG No. G-1592/BA

REPORT No. G.R. 99

PARTY No. 24

LONGITUDE 124° 50' 00" W.

AUTHOR: R. L. PEMBERTON

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M.
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1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300

581.9' +

391
2
3
4
5
6
7
399
400
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6
7
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9
410
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7
8
9
420
1
2
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4
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7
8
9
430
1
2



ARG, V DK GR-BLK, S-LITH, 1st-8th SDS, GR PLTY-RSLY WTHD.

BRECC APP AS AB.

ARG, V DK GR, S-LITH, GR DRN RSLY WTHD.
ARG, GRDG TO CALD GR, BLK, FISS & PLTY.
V DK GR, DRG, DK GR DRN WTHD.

V ARG, V DK GR, THK SDS, M GR DRN PLTY & RSLY WTHD.

ARG, DK GR-BLK, M SDS TO MASS, SL FISS, DK GR RSLY WTHD.

BIOSPARITE, SIL, V DK GR, M DRN RSLY WTHD.

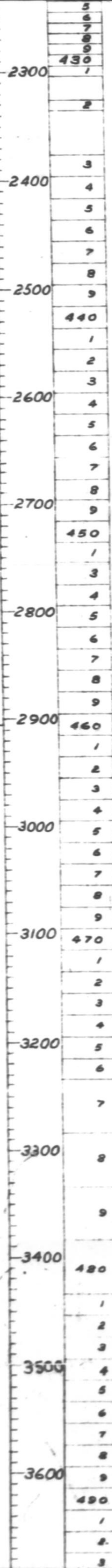
MIO, APP SL ARG?, DK GR-BLK, STRGS BLK CH, QTZ SOL & CA VHS, OLIPP FORM, WTHD DK GR RSLY.

DK GR-BLK, SQAT BLK CH LENSES & STRGS, TR F BRECCIA, M SDS, DK GR RSLY WTHD, SOL & QTZ VHS.

ATRYPA CF. A. ARCTICA WARREN (N. DEV)

I N O V E R N I C A V E R N I C A D I F F E R E N C E S

843.2'



OR GR ROLY WTHD, DOL & QZ VNS.

DOL BRECCIA, OR GR, SL SIL, NO DOL, WTHD OR GR, BLKY & ROLY, DOL, QZ & CA VNS.

AS AD, APP SL ARG, BLK CH PTONG.

SL CALC, GRDS TO LST, V OR GR, BRECC, LENSES & PTONG BLK CH, MASS APP, OR GR BLKY & ROLY WTHD.

SL CALC, PT SL ARG, MGR-X, 1st-1st DOL, SCAT DOL VNS, WTHD OR GR, ROLY.

CALC, GRDS LOC TO LST, TH DOL, BLKY ROLY WTHD.

AS AD, FRAC, DOL VNS & PTONG.

V OR GR-BLK, THK & TH DOL, M-OR GR WTHD, CH BLK PTONG.

CALC, GRDS TO LST AT BASE, MASS & TH DOL ZONES.

ALT DOL & LST, INDDS & INGRDS, OR-M GR, OR BLKY & ROLY WTHD.

HIO, ORANGE ORN-OR GR, PT SL ARG, PT BRECC, OR ORN BLKY WTHD, WH DOL VNS & MASSES.

DOL, GRDS TO CALC DOL, THK DOL, WH DOL VNS & MASSES, OR ORN BLKY WTHD.

AS AD, PT STRONGLY BRECC.

AS AD, NO DOL.

HIO, M GR ORN, DOL, CALC, MASS-THK DOL, WTHD M GR ORN, BLKY.

1782.8'

DOZ. 3 LST INOOD. V LY GR. EARTHY, THK OOD, WTND N BRN, GLKY.

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1782.8'

3500 4
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7
8
9
3600 490
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3
4
5
6
7
8
9
3700 500
1
2
3
4
5
6
7
8
9
3800 510
1
2
3
4
5
6
7
8
9
3900 520
1
2
3
4
5
6
7
8
9
4000 530
1
2
3
4
5
6
7
8
9
4100 540
1
2
3
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5
6
7
8
9
4200 550
1
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3
4
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9
4300 560
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8
9
4400 570
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4500 580
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6
7
8
9
4600 590
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4
5
6
7
8
9
4700 600
1
2
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4
5
6
7
8
9
4800 610
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4
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6
7
8
9
4900 620
1
2

Nic, m gr brn, dms, calc, mass-thk sds, wthd m gr brn, slky.

As ab, w loc m-grs flte qtz grains.

Nic, grds to vfg suc, m gr brn, ca vns, mass.

Nic, m-gr gr, mass, wthd lt gr, slky.
Nic, lt gr brn, calc, pt sdy, mass, m brn slky wthd.
Nic, sl calc, m gr brn, dms, mass, wthd gr brn, slky.
S-lith, m gr brn, dms, mass, wthd m brn, rdy.

Nic, m-gr gr, mass-thk sds, vugs lined w dol & qtz, wthd lt-m gr, slky.

Nic, dk gr, pt calc, & lgt nic, dk-m gr, wthd gr & brn, slky.

Pt calc, v dk gr, fw flte qtz grains 10' from top, wthd gr & brn.

m-gr gr brn, mass, wthd m brn, slky.
Calc, earthy, m-lt gr, wthd lt brn, rdy.
Nic, sl calc, m brn, dms & mass, wthd m brn.

Nic, sl calc, dms, m brn-dk gr, mass, slky.

Nic, sl sil, of brn, p-p for, 3rd-1' sds, m brn wthd.
Sl arg, m-gr gr, m-thk sds, wthd dk gr, slky.

Crd sparry, gr, orange brn, pk mott, mass cliff form.

Nic, v dk gr, 6th-1' sds, wthd gr & brn.

Calc, gr-brn gr, thk-th sds, gr brn slky wthd.

Nic, calc, dk gr, mass.
As ab.

Calc, grds to lgt nic, dk gr-m brn, thk sds, wthd m brn & gr.

Dk gr, sl calc, mass-thk sds, wthd m gr, slky.

Sl calc, dk-m gr, sl earthy, gr rdy wthd.

Dol & lgt indds, v lt gr, earthy, thk sds, wthd m brn, slky.

D

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M

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S

M

4800

4900

5000

5100

5200

5300

5400

5500

5600

5700

5800

5900

6000

6100

6200

550

560

570

580

588

N.S.

N.S.

LST, VARIOOL, PTCHY, SL BRECC, SCAT WH SPAR INCLD, WH CX CA PTCHS.

LST, VARIOOL, LOC BRECC, WI WH CA MASSES (PTCHS).

S
M
A
C

6100

N.S.

6200

6300

6400

N.S.

6500

6600

589

590

6700

6800

6900

7000

3

4

5

6

7

8

9

600

7100

7200

7300

7400

7500

LST BRECC, VARICOL, FRED SL RUSTY BRN, WH CA PTCHS.

BRECC, FRED SALMON GRANGE, SCAT RUSTY STRGS.

SLUMPED OR CRUSHED, BRGS AS AB TO LST, V MUDDY, LT GR, EARTHY, IRREG TH-THK BDD, WYNG LT GR.

LST, EARTHY, AS AB.

LST MIC, ARG IN PT, DMS, M GR-M BRN, TH-M BDD, WYNG LT GR BRN, RBLY.

LST MIC, SL ARG STRGS, DMS, DK GR, SCAT TB VF BLOS PYR, RARE SH FRAGS, SL CA FRAG FILLING, WELL JOINTED, WYNG M GR-M GR, BLKY.

LST MIC, V DK GR-BLK, DMS, SL ARG, TH BDD, CA STRGS.

LST MIC, SL ARG, V DK GR, TH BDD, SH FRAGS, GASTS & BRACHS.

60f

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7500	8	
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	10	
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7700	7	
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7800	2	
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7900	6	
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8300	5	
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8400	10	
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8500	5	
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8600	10	
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8700		

LST MIC, SL ARG STRKS, DMS, DK GR, SCAT TB VF DISS PYR, HARE SH FRAGS, SL CA FRAG FILLING, WELL JOINTED, WTHG M BRN-M GR, BLKY.

LST MIC, V DK GR-BLK, DMS, SL ARG, TH BDD, CA STRGRS.

LST MIC, SL ARG, V DK GR, TH BDD, SH FRAGS, GASTS & BRACHS.

DK GR-BLK, PT SL ARG, 2nd-8th BDD, WTHD DK GR PLTY, RBLY.

AS AB, MOR-CRYPTO-X, MASS-M BDD, WH CA VNG, DK GR WTHD.

MIC, V DK GR, FW GR SPARRY PTONG, ARG STRKS, TH-TNK BDD, WTHD M GR & BRN.

AS AB WE ADD ARG STRKS & PTGS, WTHD AS AB.

ARG AS AB, MIC WI TH BIOFRAG ZONES, M-TN BDD, WTHD BRN & GR, PLTY.

AS AB WE POOR SHELL BDD, CR1 STMS, IRREG TH-TNK BDD.

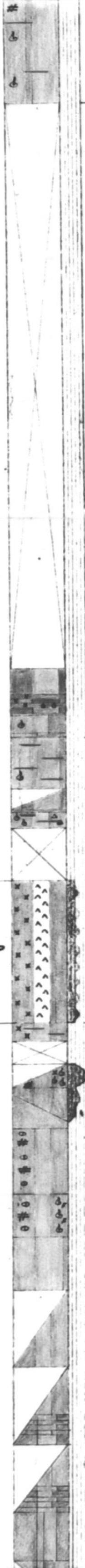
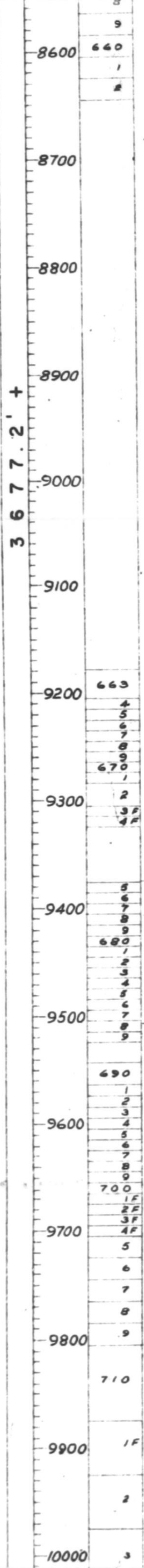
V ARG, V DK GR, TH BDD, BIOFRAG, ADD BRACHS.

MIC, ARG, IRREG BIOFRAG ARG RISS GIVE TH BDD APP.

MIC, ARG AS AB, M-TN BDD, PRED BIOFRAG, SL MOD, BRACHS.

LST, V DK GR, MCR-X, LOC BIOFRAG, ARG ZONES, IRREG 2nd-3rd BDD, WTHD M GR-BRN, RBLY, PLTY, P PRES GASTS & BRACHS, PYR.

A I R M E U R O L L E S I D E



V CALC, V DK GR-BLK, PLTY, INHDD WI 1st DSS V ARG LST, WTHD LT BRN, PLTY.
LST & SH INHDD.
ARG, SL BIOFRAG, V DK GR WI BLK SH PTGS, WTHD PLTY & RGLY.
V ARG, 1st-4th DSS, WI BLK CALC SH PTGS, PLTY WTHD.
V ARG, BLK, GRDG TO SH, DOL, TH DSS, RECEDING.
MIC, ARG, WI BIOFRAG ZONES, SL NOD, V DK GR, SH PTGS, CH NOD, WTHD DK GR, PLTY & RGLY.
SIL, V SL CALC IN PT, FX, RE-XL, 1H-X & VUG POR, VUGS LINED WI CA, QZ & DOL, LT BRN-M GR, MASS, WTHD LT-DK GR, BLKY.
MIC, ARG, TH LENT DSS WI BLK ARG PTGS, DK GR RGLY WTHD.
DK GR, CRG BIOFRAG, F-CX MTX, ARG?, M-TH DSS.
DOL GRDG TO LST, V DK GR, ARG, M-THK DSS, WTHD M BRN & GR, RGLY.
MIC ARG, NOD, IRREG DSS, ARG PTGS.
AS AB, LOC BIOFRAG, FW SHLY ZONES.
MIC, V ARG, V DK GR, NO VIS DSS, WTHD PLTY, RUSTY BRN-GR.
AS AB, WTHD RDISH TO RUSTY BRN, PLTY.
LST AS AB, DOL, GRDG TO DOL, V ARG, M RUSTY BRN WTHD.
AS AB, SOME LESS DOL.
DOL, SL CALC, ARG, MIC, DMS, V DK-DK GR, MASS, BRITTLE, CRG SPLTRY, PLTY, RUSTY BRN WTHD.

FAVOSITES SP.
"CAMAROTOECHIA" SP. (SIL OR DEV)

CONCHIDIUM SP. (SIL, LUDLOW)

S I D E L O

9200 663
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670
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8
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680
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690
1
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3
4
5
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7
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9
700
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2F
3F
4F
9700
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7
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9
9800
710
9900 1F
2
3
10000
4
10100
6
7
10200
8
9
10300
720
1
2
3
4
5
6
7
10400
728
10500



V CALC, V DK GR-BLK, PLTY, INHDD WI 1st BSS V ARG LST, WTHD LT BRN, PLTY.
LST & SH INHDD.
ARG, SL BIOFRAG, V DK GR WI BLK SH PTGS, WTHD PLTY & RGLY.
V ARG, 1st-4th BSS, WI BLK CALC SH PTGS, PLTY WTHD.
V ARG, BLK, GRDG TO SH, DOL, TH BSS, RECEDING.
MIC, ARG, WI BIOFRAG ZONES, SL NOD, V DK GR, SH PTGS, CH NOD,
WTHD DK GR, PLTY & RGLY.
SIL, V SL CALC IN PT, FX, RE-XL, IN-X & YUG POR, VUGS LINED WI CA,
QTZ & DOL, LT BRN-M GR, MASS, WTHD LT-DK GR, BLKY.
MIC, ARG, TH LENT BSS WI BLK ARG PTGS, DK GR RGLY WTHD.
DK GR, CRG BIOFRAG, F-CX MTX, ARG?, M-TH BSS.
DOL GRDG TO LST, V DK GR, ARG, M-THK BSS, WTHD M BRN & GR, RGLY.
MIC, ARG, NOD, IRREG BSS, ARG PTGS.
AS AB, LOC BIOFRAG, FM ONLY ZONES.
MIC, V ARG, V DK GR, NO VIS BSS, WTHD PLTY, RUSTY BRN-GR.
AS AB, WTHD RDISH TO RUSTY BRN, PLTY.
LST AS AB, DOL, GRDG TO DOL, V ARG, M RUSTY BRN WTHD.
AS AB, SOME LESS DOL.
DOL, SL CALC, ARG, MIC, DMS, V DK-GR GR, MASS, BRITTLE, CRG SPLTRY,
PLATY, RUSTY BRN WTHD.
DOL, CALC, AS AB, GRDG LOC TO LST.
DOL GRDG TO LST, OCC WTHG IN TH-M BSS.
DOL, DK GR, CRYPTO-X, V ARG TO SHLY, V P BSS, VF-PLTY, M GR-BRN
WTHG, NRY FRACS.

FAVORITES SP.
"CAMAROTOECHIA" SP. (SIL GR DEV)

CONCHIDIUM SP. (SIL, LUDLOW)

