



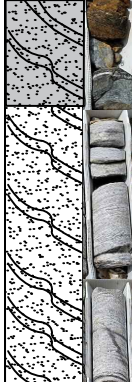

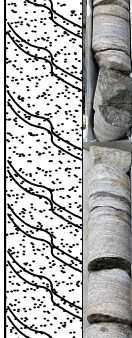

PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-3B	ELEVATION: 1025.73	DATE STARTED: 5/2/17
COORDINATES: 33.6902870, -84.4420030	DATE COMPLETED: 9/19/17	
DRILLING METHODS: WIRE LINE	PAGE 1 OF 14	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #1	60				60 - START RUN #1				
					ENCOUNTERED GROUT FROM OUTER CASING AND WOOD PLUG USED DURING HOLLOW STEM AUGER INSTALLATION OF OUTER CASING 60-62.5 FEET.				
	62	40%	0%	SOFT	WEATHERED SCHIST WITH IRON STAINING 62.5 TO 64 FEET	SLIGHT TO MODERATE			
	64			MED. HARD	AMPHIBOLITE GNEISS, DARK GREY WITH WHITE BANDING, FRACTURE ZONE WITH IRON STAINING AT 64 FEET	FRESH			FRACTURE ZONE WITH NO ODOR
RUN #2					65 - END OF RUN #1 / START RUN #2				
	66				PEGMATITE ZONE, WHITE AND GREY, FELDSPAR AUGENS, STRESS-STRAIN DEFORMATION				
					FRACTURE ZONE AT 66 FEET.	FRESH			FRACTURE ZONE WITH NO ODOR
	68	100%	35%	MED. HARD	GRADES TO BIOTITE GNEISS, GREY, BLACK, WHITE, WITH FRACTURE ZONES AT 67, 67.5, 68, AND 68.5 FEET.	SLIGHT TO MODERATE			FRACTURE ZONE WITH NO ODOR
	70				HIGHLY FRACTURED ZONE WITH IRON STAINING AT 69 - 70 FEET.				FRACTURE ZONE WITH NO ODOR
					70 - END OF RUN #2				

NOTES:

DUE TO SCALING AND SIZING ISSUES, THE DEPTH INTERVAL FOR CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.

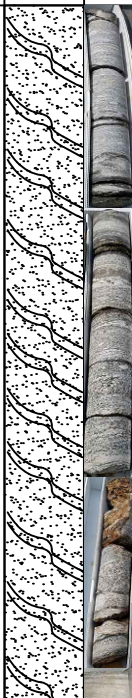



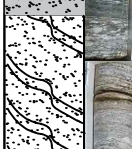



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DRILLING METHODS: WIRE LINE	PAGE 2 OF 14	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #3	70	26%	0%	SOFT	70 - START RUN #3	MODERATE			LITTLE/NO RECOVERY
	72				LITTLE RECOVERY - HIGHLY WEATHERED SCHIST, ORANGE WITH DEFINED IRON STAINING.				
RUN #4	74	92%	40%	MED. HARD	GRADES TO AMPHIBOLITE/HORNBLLENDE GNEISS AT 75 FEET, GREY, WHITE	FRESH			FRACTURE ZONE WITH NO ODOR
	76				75 - END OF RUN #3 / START RUN #4 BIOTITE GNEISS, GREY, WHITE, BANDED FELDSPARS, EXTENDING TO 80 FEET				
RUN #4	78	92%	40%	MED. HARD	FRACTURES AT 75.5, 76.5, 77, 77.5, 78.5, 79, AND 80 FEET	FRESH			FRACTURE ZONE WITH NO ODOR
	80				BLACK BIOTITE AND MICACEOUS LENSES AT 80 FEET 80 - END OF RUN #4	SLIGHT			

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CORE SIZE: HQ	PAGE 3 OF 14
ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #5	80	95%	59%	HARD	80 - START RUN #5 BIOTITE GNEISS, GREY, WHITE, FELDSPAR AUGENS AND SOME MAFIC BANDING EXTENDING TO 85 FEET.	FRESH			FRACTURE ZONE WITH NO ODOR
	82				HORIZONTAL FRACTURE ZONES AT 80 TO 81				FRACTURE ZONE WITH NO ODOR
	84				QUARTZ SEAM AT 82 FEET, FRACTURE ZONE 82 TO 83 FEET				FRACTURE ZONE WITH NO ODOR
					VERTICAL FRACTURE ZONE AT 84 FEET WITH IRON STAINING FOLLOWED BY HORIZONTAL FRACTURE AT 84 TO 85 FEET				FRACTURE ZONE WITH NO ODOR
RUN #6	86	100%	67%	MED. HARD	85 - END OF RUN #5 / START RUN #6 BIOTITE GNEISS, GREY, WHITE, BANDED FELDSPARS, EXTENDING TO 90 FEET	SLIGHT			FRACTURE ZONE WITH NO ODOR
					WEATHERED AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, BLACK, GREEN (CHLORITE-RICH) WITH MICA LENSES, IRON STAINING, APPARENT RETROGRADE METAMORPHISM				FRACTURE ZONE WITH NO ODOR
	88				VERTICAL SEAM FRACTURE (UNBROKEN) AT 88 FEET, GRADES BACK TO BIOTITE GNEISS AT 88.5 FEET	FRESH			FRACTURE ZONE WITH NO ODOR
					VERTICAL FRACTURE ZONE TO APPROXIMATELY 90 FEET	SLIGHT			FRACTURE ZONE WITH NO ODOR
	90				90 - END OF RUN #6				

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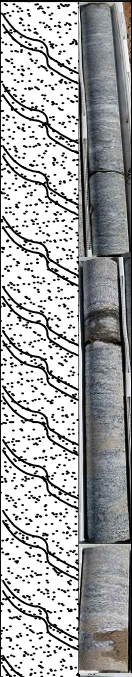

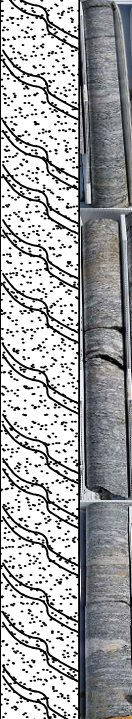

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DRILLING METHODS: WIRE LINE	PAGE 4 OF 14	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #7	90	97%	64%	HARD	90 - START RUN #7 BIOTITE GNEISS, GREY, WHITE, FELDSPAR AUGENS EXTENDING TO 95 FEET.	FRESH			FRACTURE ZONE WITH NO ODOR
	92				HORIZONTAL FRACTURE WITH IRON OXIDE STAINING AT 91.5 FEET WITH MECHANICAL FRACTURE AT 92 FEET				
	94				HORIZONTAL FRACTURE WITH IRON OXIDE STAINING AT 92.5 TO 93 FEET.				
RUN #8	96	100%	100%	HARD	95 - END OF RUN #7 / START RUN #8 BIOTITE GNEISS, GREY, WHITE, BANDED FELDSPARS, MAFIC AUGENS, SOME PINK GARNETS THROUGHOUT RUN	FRESH			FRACTURE ZONE WITH NO ODOR
	98				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 100 FEET				
	100				100 - END OF RUN #8				

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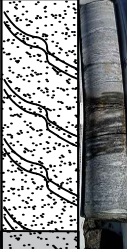



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DRILLING METHODS: WIRE LINE	PAGE 5 OF 14	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #9	100	98%	98%	HARD	100 - START RUN #9 BIOTITE GNEISS, GREY, DARK GREY, WHITE, FELDSPAR AUGENS, MAFIC BANDING, AND PINK, RED GARNETS EXTENDING TO 105 FEET.	FRESH			FRACTURE ZONE WITH NO ODOR
	102				HORIZONTAL FRACTURE WITH IRON STAINING AT 102.5 FEET WITH MECHANICAL FRACTURES OBSERVED 101.5 AND 104 FEET				
RUN #10	104	100%	100%	HARD	105 - END OF RUN #9 / START RUN #10 BIOTITE GNEISS, GREY, WHITE, PINK POTASSIUM FELDSPAR AUGENS AT 106 AND 109.5 FEET, UNBROKEN WITH MAFIC BANDING THROUGHOUT	FRESH			NO FRACTURES
	106				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 110 FEET				
	108				CLEAR MUSCOVITE LENSES AT 110 FEET				
	110				110 - END OF RUN #10				

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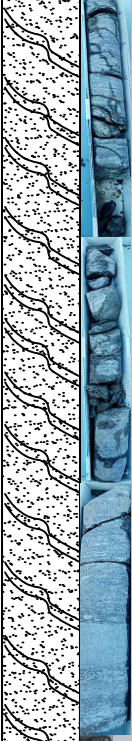

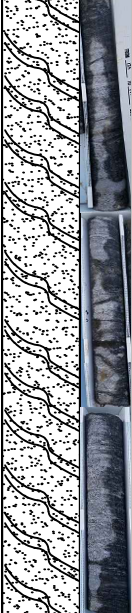

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CORE SIZE: HQ	PAGE 6 OF 14
ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #11	110	95%	61%	HARD	110 - START RUN #11 BIOTITE GNEISS, GREY, DARK GREY, WHITE, FELDSPAR AUGENS, MAFIC BANDING, AND PINK, RED GARNETS EXTENDING TO 115 FEET.	FRESH			FRACTURE ZONE WITH NO ODOR
					HORIZONTAL FRACTURE WITH IRON STAINING AT 111 FEET				
	112				GRADES TO AMPHIBOLITE AT 112 FEET WITH IRON STAINING AND FRACTURE AT 113 AND 113.5 FEET AT APPROXIMATE 45-DEGREE ANGLE				
	114				GRADES BACK TO BIOTITE GNEISS, GREY, WHITE WITH FELDSPAR AUGENS FRACTURES AT 114 AND 114.5 FEET WITH SOME IRON STAINING				
RUN #12		100%	88%	HARD	115 - END OF RUN #11 / START RUN #12 BIOTITE GNEISS, GREY, WHITE, PINK POTASSIUM FELDSPAR AUGENS THROUGHOUT RUN, UNBROKEN WITH NO FRACTURES TO 118 FEET	FRESH			FRACTURE ZONE WITH NO ODOR
	116								
	118				FRACTURE WITH IRON OXIDE STAINING AT 118.5 FEET				
	120				VERTICAL AND HORIZONTAL INTACT FRACTURES ALONG PLANE, NO IRON STAINING 119 TO 120 FEET 120 - END OF RUN #12				

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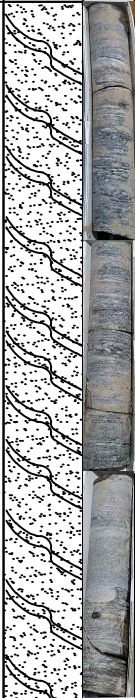

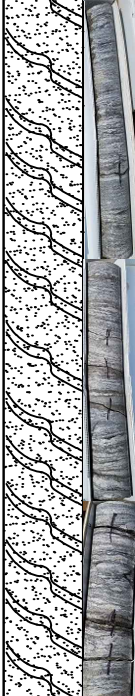

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CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #13	120	100%	71%	HARD	120 - START RUN #13 BIOTITE GNEISS, GREY, DARK GREY, WHITE, PINK POTASSIUM FELDSPAR AUGENS, MAFIC BANDING, INTACT HAIRLINE FRACTURES	FRESH			BLUE COLOR IN PHOTO DUE TO CAMERA FLASH
	122			SOFT TO MED. HARD	MULTIPLE HORIZONTAL AND VERTICAL FRACTURES 121.5 TO 124 FEET, HIGHLY WEATHERED COBBLES	SLIGHT TO MODERATE			FRACTURE ZONE WITH NO ODOR
	124			HARD	SAME GRADES TO GRANITIC GNEISS, GREY, WHITE	FRESH			
RUN #14	126	100%	100%	HARD	125 - END OF RUN #13 / START RUN #14 GRANITIC/BIOTITE GNEISS, GREY, WHITE FELDSPAR AUGENS THROUGHOUT, DEFINED MAFIC FOLIATION	FRESH			NO FRACTURES
	128				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 130 FEET				
	130				130 - END OF RUN #14				

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CORE SIZE: HQ	PAGE 8 OF 14
ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #15	130	100%	100%	HARD	130 - START RUN #15 BIOTITE GNEISS, BLACK, GREY, WHITE, FELDSPAR AUGENS, MAFIC BANDING, NO OBSERVED FRACTURES TO 135 FEET	FRESH			NO FRACTURES
	132				QUARTZ-RICH OR POSSIBLY QUARTZITE ZONE, WHITE, VERY HARD 133.5 TO 134.5 FEET BIOTITE GNEISS, GREY, BLACK TO 135 FEET				
RUN #16	134	100%	100%	HARD	135 - END OF RUN #15 / START RUN #16 BIOTITE GNEISS, GREY, WHITE WITH QUARTZ OR QUARTZITE, VERY HARD, DEFINED MAFIC FOLIATION, RED GARNETS THROUGHOUT	FRESH			NO FRACTURES
	136				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 140 FEET				
	138								
	140				140 - END OF RUN #16				

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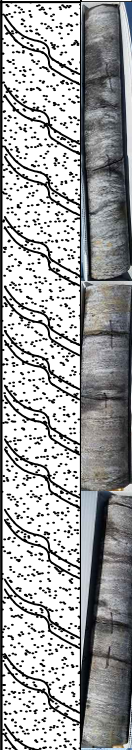

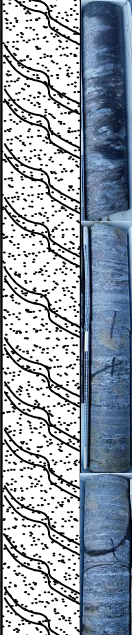

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CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #17	140	100%	90%	VERY HARD	140 - START RUN #17 BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ/FELDSPAR AUGENS, MAFIC FOLIATION, RED, PINK GARNET THROUGHOUT	FRESH			BLUE COLOR IN PHOTO DUE TO CAMERA FLASH
	142				VERTICAL STRESS FRACTURE AT 140.5 FEET (INTACT)				
	144				HORIZONTAL FRACTURE AT 143 AND 144.5 FEET 60-DEGREE BIOTITE BANDING AT 60-DEGREE ANGLE TO VERTICAL AT 144.5 FEET.				FRACTURE ZONE WITH NO ODOR
RUN #18	146	100%	94%	VERY HARD	145 - END OF RUN #17 / START RUN #18 BIOTITE GNEISS, GREY, WHITE WITH QUARTZ/FELDSPAR AUGENS, VERY HARD, DEFINED MAFIC BANDING, RED GARNETS THROUGHOUT, SOME PYRITE, FRACTURE AT 145.5 FEET WITH NO IRON STAINING	FRESH			
	148				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 150 FEET				NO FRACTURES
	150				150 - END OF RUN #18				

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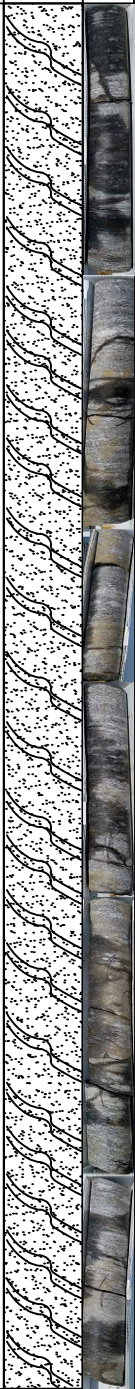

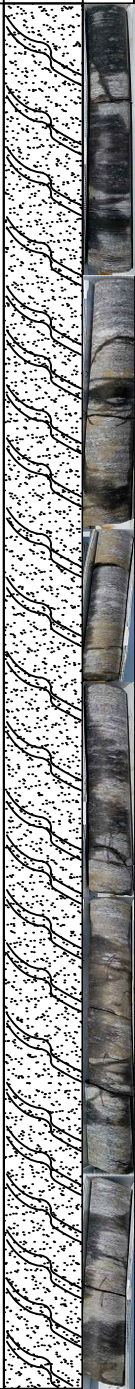

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CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #19	150	100%	100%	VERY HARD	150 - START RUN #19 BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ AND FELDSPAR AUGENS, MAFIC FOLIATION, SOME PYRITE, RED GARNETS AT 159 TO 160 FEET	FRESH			NO FRACTURES
	152				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 155 FEET				
	154								
RUN #20	156	100%	100%	VERY HARD	155 - END OF RUN #19 / START RUN #20 BIOTITE GNEISS, GREY, WHITE WITH QUARTZ/FELDSPAR AUGENS, VERY HARD, DEFINED MAFIC FOLIATION, RED GARNETS	FRESH			BLUE COLOR IN PHOTO DUE TO CAMERA FLASH NO FRACTURES
	158				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 160 FEET				
	160				160 - END OF RUN #20				

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RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #21	160	100%	100%	VERY HARD	160 - START RUN #21 BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ AND FELDSPAR AUGENS, MAFIC BANDING, SOME PYRITE, RED GARNETS THROUGHOUT	FRESH			NO FRACTURES
	162				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 165 FEET				
RUN #22	164	100%	100%	VERY HARD	165 - END OF RUN #21 / START RUN #22 BIOTITE GNEISS, GREY, WHITE WITH QUARTZ AND FELDSPAR AUGENS, VERY HARD, DEFINED MAFIC BANDING, RED GARNETS AND SOME PYRITE	FRESH			NO FRACTURES
	166				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 170 FEET				
	170				170 - END OF RUN #22				

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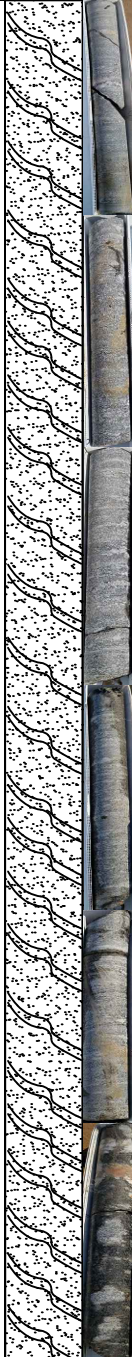

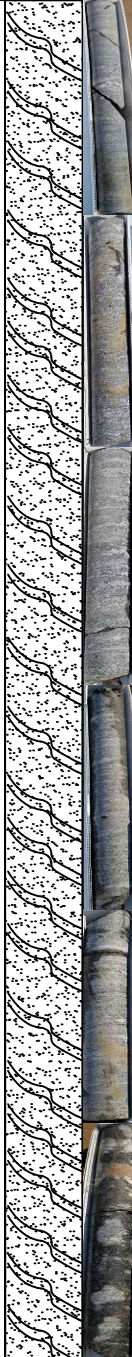

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RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #23	170	100%	100%	VERY HARD	170 - START RUN #23	FRESH			NO FRACTURES
	172				BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ AND FELDSPAR AUGENS, MAFIC BANDING, RED GARNETS THROUGHOUT				
RUN #24	174	100%	100%	VERY HARD	UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 175 FEET	FRESH			FRACTURE ZONE WITH NO ODOR
	176				175 - END OF RUN #23 / START RUN #24				
RUN #24	178	100%	100%	VERY HARD	BIOTITE GNEISS, GREY, BLACK, WHITE, QUARTZ AND FELDSPAR AUGENS, TRACE POTASSIUM FELDSPARS	FRESH			FRACTURE ZONE WITH NO ODOR
	180				AMPHIBOLITE/HORNBLLENDE GNEISS, GREEN, GREY, BLACK, (3-INCH ZONE) AT 177 FEET, EVIDENCE OF RETROGRADE METAMORPHISM				
					FRACTURE ZONE AT 179 AND 179.5 FEET				
					180 - END OF RUN #24				

NOTES:

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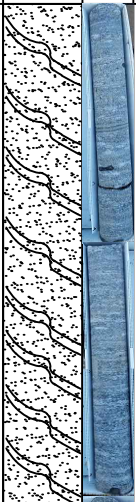

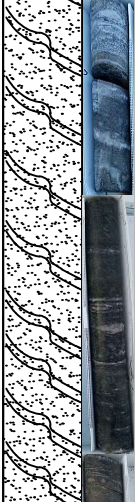

PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-3B	ELEVATION: 1025.73	DATE STARTED: 5/2/17
COORDINATES: 33.6902870, -84.4420030	DATE COMPLETED: 9/19/17	
DRILLING METHODS: WIRE LINE	PAGE 13 OF 14	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #25	180	97%	97%	VERY HARD	180 - START RUN #25 BIOTITE GNEISS, BLACK, GREY, WHITE, PINK, QUARTZ AND POTASSIUM FELDSPARS THROUGHOUT	FRESH			NO FRACTURES
	182				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 185 FEET				
RUN #26	184	100%	100%	VERY HARD	185 - END OF RUN #25 / START RUN #26 BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ AND FELDSPAR AUGENS THROUGHOUT	FRESH			NO FRACTURES
	186				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 190 FEET LARGE QUARTZ AUGEN AT 189 FEET				
	188								
	190				190 - END OF RUN #26				

NOTES:

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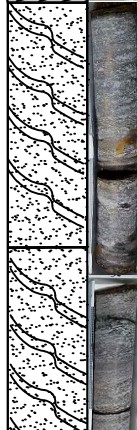

PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-3B	ELEVATION: 1025.73	DATE STARTED: 5/2/17
COORDINATES: 33.6902870, -84.4420030	DATE COMPLETED: 9/19/17	
DRILLING METHODS: WIRE LINE	PAGE 14	OF 14
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 19.82 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #27	190	97%	97%	VERY HARD	190 - START RUN #27 BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ AND FELDSPAR AUGENS THROUGHOUT, SOME RED GARNETS	FRESH			BLUE COLOR IN PHOTO DUE TO CAMERA FLASH
	192				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 195 FEET				NO FRACTURES
RUN #28	194	100%	100%	VERY HARD	195 - END OF RUN #27 / START RUN #28	FRESH			NO FRACTURES
	196				BIOTITE GNEISS, BLACK, GREY, WHITE, QUARTZ AND FELDSPAR AUGENS THROUGHOUT				NO FRACTURES
	198				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 200 FEET				
	200				200 - END OF RUN #28				

NOTES:

DUE TO SCALING AND SIZING ISSUES, THE DEPTH INTERVAL FOR CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.

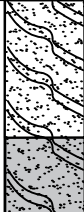





PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 1 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS		
RUN #1	51	80%	69%	MED. HARD	51 - START RUN #1	SLIGHT			FRACTURE ZONE WITH STRONG ODOR		
	53				ENCOUNTERED GROUT FROM OUTER CASING AND WOOD PLUG USED DURING HOLLOW STEM AUGER INSTALLATION OF OUTER CASING					WEATHERED HORNBLLENDE SCHIST, GREY, BLACK, WHITE, SOME MUSCOVITE MICA AND CHALCOPYRITE, WEATHERED FRACTURE ZONES AT 53, 54, 55, AND 56 FEET WITH IRON OXIDE RUST COLORED STAINING WITH STRONG ODOR IN FRACTURE ZONES	CREOSOTE-LIKE OR OIL-LIKE IN APPEARANCE AND ODOR
	55				VERTICAL FRACTURE ZONE EXCEEDING 6-INCHES INTERSECTED BY 45-DEGREE ZONE 53 TO 54 FEET					HORIZONTAL FRACTURES AT 55 AND 56 FEET WITH STRONG ODOR (CREOSOTE-LIKE)	FRACTURE ZONE WITH STRONG ODOR
RUN #2	56	100%	97%	MED. HARD	56 - END OF RUN #1 / START RUN #2	FRESH			FRACTURE ZONE WITH STRONG ODOR		
	57				BIOTITE GNEISS, GREY, BLACK, WHITE WITH FELDSPAR AUGENS AND MAFIC ZONES, TRACE RED GARNETS					FRACTURE ZONE AT 57 FEET WITH STRONG CREOSOTE-LIKE ODOR	FRACTURE ZONE WITH STRONG CREOSOTE-LIKE ODOR
	59				AMPHIBOLITE/HORNBLLENDE GNEISS, GREEN, GREY, BLACK, WITH OPEN FRACTURE AT 59 FEET					GRANITIC GNEISS, GREY, BLACK, WHITE WITH CHALCOPYRITE, FELDSPAR AUGENS, TRACE PINK-RED GARNETS	FRACTURE ZONE WITH STRONG CREOSOTE-LIKE ODOR
	61				AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, BLACK WITH OPEN FRACTURE AT ~61 FEET, STRONG CREOSOTE-LIKE ODOR					61 - END OF RUN #2	FRACTURE ZONE WITH STRONG CREOSOTE-LIKE ODOR

NOTES:

DUE TO SCALING AND SIZING ISSUES, THE DEPTH INTERVAL FOR CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.





PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 2 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #3	61	100%	73%	MED. HARD	61 - START RUN #3 GRANITIC GNEISS, GREY, BLACK, WHITE, FELSPAR AUGENS, RED GARNETS, MAFIC, CHALCOPYRITE, FOLIATION AT 62 FEET	FRESH			FRACTURE ZONE WITH STRONG CREOSOTE-LIKE ODOR
	63				AMPHIBOLITE/HORNBLLENDE GNEISS, BLACK, GREY, GREEN (3-INCHES) AT 63 FEET. OPEN FRACTURES AT 63, 63.5, 64, AND 64.5 FEET WITH STRONG ODOR GRADES BACK TO GRANITIC GNEISS WITH SOME BIOTITE GNEISS LAYERS BENEATH FRACTURE ZONE AT 63 FEET IRON OXIDE RUST COLORED STAINING IN OPEN FRACTURES AT 63.5 AND 66 FEET WITH STRONG ODOR				
RUN #4	65	100%	83%	MED. HARD	66 - END OF RUN #3 / START RUN #4 BIOTITE GNEISS, GREY, BLACK, WHITE WITH SMALL FELDSPAR AND QUARTZ AUGENS, MAFIC FOLIATION THROUGHOUT, TRACE RED GARNETS	SLIGHT			FRACTURE ZONE WITH STRONG CREOSOTE-LIKE ODOR
	67				COMPETENT ROCK TO 69 FEET LARGE FELDSPAR AUGENS AND SHEER PLANES WITH OPEN FRACTURE (ZONE) 69 - 70.5 FEET (PRIMARILY HORIZONTAL FRACTURES WITH SLIGHT VERTICAL FRACTURE AT 70 FEET) OIL OR CREOSOTE-LIKE PRODUCT OBSERVED AT 69 TO 69.5 FEET IRON OXIDE STAINING OBSERVED 70 TO 70.5 FEET WITH STRONG CREOSOTE-LIKE OR OIL-LIKE ODOR				
RUN #4	69	100%	83%	MED. HARD	71 - END OF RUN #4	FRESH			FRACTURE ZONE WITH OIL-LIKE OR CREOSOTE-LIKE NAPL/ STRONG ODOR FRACTURE ZONE WITH OIL-LIKE OR CREOSOTE-LIKE NAPL/ STRONG ODOR
	71								

NOTES:

DUE TO SCALING AND SIZING ISSUES, THE DEPTH INTERVAL FOR THE CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.

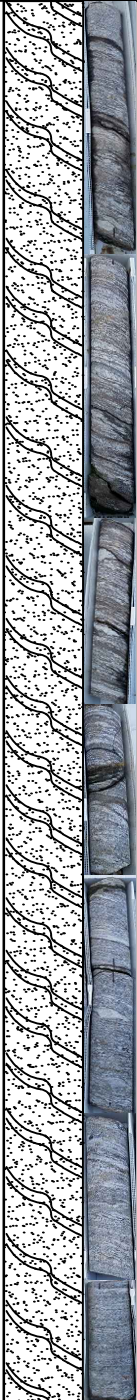

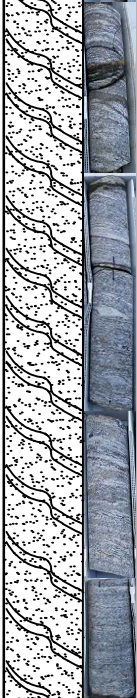

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BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 3 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #5	71	100%	83%	MED. HARD	71 - START RUN #5 GRANITIC GNEISS, GREY, WHITE, BLACK, SMALL FELDSPAR AUGENS WITH TRACE PINK POTASSIUM FELDSPAR AUGENS, SOME RED-PINK GARNETS OPEN FRACTURES (ZONE) AT 71.5 TO 75.5 FEET	FRESH			OIL OR CREOSOTE-LIKE NAPL / STRONG ODOR
	73				IRON OXIDE STAINING IN ZONES AT 72, 73, 73.5, 74 AND 75.5 FEET WITH STRONG ODOR AND OIL-LIKE OR CREOSOTE-LIKE NAPL OBSERVED HORIZONTAL AND VERTICAL FRACTURES EXTEND 71.5 TO 73.5 FEET 45-DEGREE OPEN FRACTURE ZONE AT 75.5 FEET WITH STRONG ODOR				
RUN #6	75	100%	59%	MED. HARD	76 - END OF RUN #5 / START RUN #6 BIOTITE GNEISS, GREY, BLACK, WHITE WITH FELDSPAR AND QUARTZITE AUGENS AND MAFIC-RICH ZONES ALTERNATING WITH GRANITIC GNEISS, RED GARNETS VERTICAL FRACTURE ZONE FROM 76 TO 77 FEET WITH IRON OXIDE STAINING, SLIGHT ODOR	FRESH			SLIGHT ODOR
	77				AMPHIBOLITE/HORNBLende GNEISS, GREY, BLACK (6-INCHES) AT 78.5 FEET GRADES TO GREY, BLACK, WHITE, GRANITIC GNEISS WITH FELDSPAR AND QUARTZITE AUGENS AND MAFIC FOLIATION, CHALCOPYRITE MINERALS VISIBLE AT 80 FEET OPEN FRACTURES AT 77.5, 78, 79.5, AND 80 FEET WITH IRON OXIDE STAINING AND SLIGHT ODOR				
	81				81 - END OF RUN #6				FRACTURE ZONE WITH SLIGHT ODOR

NOTES:

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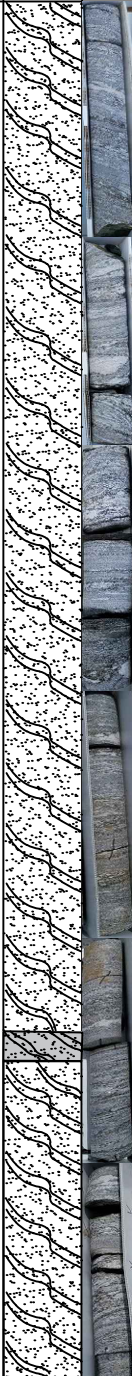

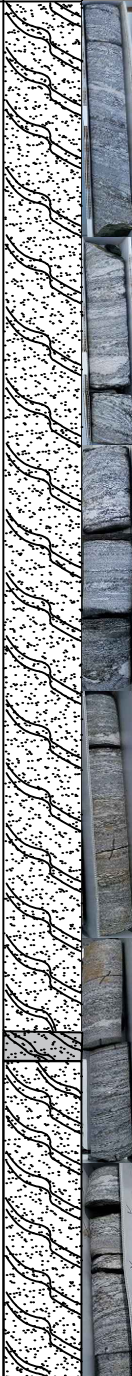

PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 4 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #7	81	100%	98%	MED. HARD	81 - START RUN# 7 BIOTITE GNEISS, GREY, BLACK, WHITE, SOME QUARTZ AND FELDSPAR AUGENS, RED GARNETS MECHANICAL FRACTURES OBSERVED SOLID/COMPETENT ROCK TO 84.5 FEET	FRESH			BLUE COLOR IN PHOTO DUE TO CAMERA FLASH
	83			HARD	OPEN FRACTURES AT 84.5 AND 86 FEET WITH NO IRON STAINING, SLIGHT ODOR	SLIGHT			FRACTURE ZONE WITH SLIGHT ODOR
	85			MED. HARD					
RUN #8	87	100%	98%	HARD	86 - END OF RUN #7 / START RUN #8 BIOTITE GNEISS, GREY, BLACK, WHITE WITH LARGE FELDSPAR AND QUARTZ AUGENS AND MAFIC ZONES, RED GARNETS, SOME LAYERS OF GRANITIC GNEISS HORIZONTAL FRACTURE ZONE FROM 86.5 TO 87 FEET WITH IRON OXIDE STAINING SOLID/COMPETENT ROCK TO 91 FEET	SLIGHT			FRACTURE ZONE WITH NO ODOR
	89								
	91				91 - END OF RUN #8	FRESH			

NOTES:

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BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 5 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #9	91				91 - START RUN #9 GRANITIC GNEISS, GREY, WHITE, BLACK, PINK POTASSIUM FELDSPAR AUGENS THROUGHOUT WITH LARGE FELDSPAR AUGENS AT 93 FEET	FRESH			BLUE COLOR IN PHOTO DUE TO CAMERA FLASH
	93	100%	100%	HARD	OPEN HORIZONTAL FRACTURE AT 93.5 FEET WITH IRON OXIDE STAINING				FRACTURE ZONE WITH NO ODOR
	95				OPEN HORIZONTAL FRACTURE AT 94.5 FEET WITH IRON OXIDE STAINING				FRACTURE ZONE WITH NO ODOR
RUN #10	96				96 - END OF RUN #9 / START RUN #10 GRANITIC GNEISS, GREY, BLACK, WHITE WITH FELDSPAR AND QUARTZ AUGENS AND MAFIC ZONES, RED GARNETS, SOME LAYERS OF BIOTITE GNEISS	FRESH			
	97	100%	97%	HARD	AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, BLACK, (4 TO 6-INCHES) AT 99 FEET				
	99				GRADES TO GREY, BLACK, WHITE, GRANITIC GNEISS WITH SOME FELDSPAR AND QUARTZ AUGENS AND MAFIC FOLIATION				
					OPEN HORIZONTAL FRACTURE ZONE AT 100 TO 100.5 FEET WITH IRON OXIDE STAINING				FRACTURE ZONE WITH NO ODOR
	101				101 - END OF RUN #10				

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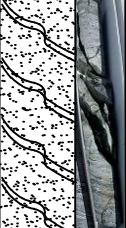

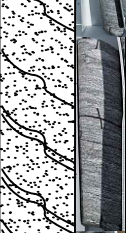

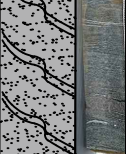

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BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 6 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #11	101				101 - START RUN #11 GRANITIC GNEISS, GREY, WHITE, BLACK, FELDSPAR QUARTZ AND PINK POTASSIUM FELDSPAR AUGENS WITH SOME MAFIC FOLIATION	FRESH			NO FRACTURES
	103	100%	100%	HARD	GRANITIC GNEISS, UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 106 FEET				
RUN #12	105				106 - END OF RUN #11 / START RUN #12 GRANITIC GNEISS, GREY, BLACK, WHITE, WITH FELDSPAR AND QUARTZ AUGENS AND MAFIC ZONES, RED GARNETS, SOME LAYERS OF AMPHIBOLITE/HORNBLENDE GNEISS	FRESH			FRACTURE ZONE WITH NO ODOR
	107	100%	90%	HARD	HORIZONTAL OPEN FRACTURE ZONE 108.5 TO 109 FEET				
	109				AMPHIBOLITE/HORNBLENDE GNEISS, GREY, BLACK, GREEN (4-INCHES THICK) AT 110 FEET GRADES BACK TO GRANITIC GNEISS WITH SOME SMALL QUARTZ AUGENS				
	111				SOLID/COMPETENT ROCK TO 111 FEET, GRADING BACK TO GREY, BLACK AMPHIBOLITE/HORNBLENDE GNEISS AT 111 FEET 111 - END OF RUN #12				

NOTES:

DUE TO SCALING AND SIZING ISSUES, THE DEPTH INTERVAL FOR CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.

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BORING NUMBER: MW-8B	ELEVATION: 1033.20
COORDINATES: 33.6903052, -84.4415680	DATE STARTED: 5/19/17
DRILLING METHODS: WIRE LINE	DATE COMPLETED: 9/22/17
CORE SIZE: HQ	PAGE 7 OF 11
ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #13	111	100%	73%	MED. HARD	111 - START RUN #13 GRANITIC GNEISS, GREY, WHITE, BLACK, FELDSPAR, QUARTZ, AND PINK POTASSIUM FELDSPAR AUGENS WITH SOME MAFIC FOLIATION	SLIGHT			FRACTURE ZONE WITH NO ODOR
	113				VERTICAL/HIGH ANGLE FRACTURE ZONE AT 111 TO 112 FEET				
	115				ISOLATED/HAIRLINE FRACTURE AT 113 AND 114 FEET				
RUN #14	116	100%	100%	HARD	SOLID/COMPETENT ROCK TO 116 FEET	FRESH			FRACTURE ZONE WITH NO ODOR
	117				116 - END OF RUN #13 / START RUN #14 GRANITIC/BIOTITE GNEISS, GREY, BLACK, WHITE WITH FELDSPAR AND QUARTZ AUGENS AND MAFIC ZONES, RED GARNETS				
	119				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 121 FEET				
	121				AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, GREEN, BLACK				NO FRACTURES
					121 - END OF RUN #14				

NOTES:

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BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 8 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #15	121				121 - START RUN #15 AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, BLACK, GREEN				
					GRANITIC GNEISS, GREY, WHITE, BLACK, FELDSPAR, QUARTZ, SOME BIOTITE AND PINK POTASSIUM FELDSPAR AUGENS WITH MAFIC FOLIATION AT 122 FEET				
	123	100%	100%	HARD	QUARTZ AUGENS AT 124 AND 126 FEET	FRESH			NO FRACTURES
	125				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 126 FEET				
RUN #16					126 - END OF RUN #15 / START RUN #16				
	127				BIOTITE GNEISS, GREY, WHITE, BLACK, SOME MAFIC FOLIATION THROUGHOUT, LARGE QUARTZ AUGENS AT 128.5 AND 130 FEET				
	129	100%	100%	HARD	UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 131 FEET	FRESH			NO FRACTURES
	131				131 - END RUN #16				

NOTES:

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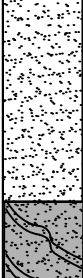

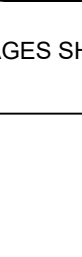
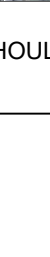
PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 9 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #17	131				131 - START RUN #17				
					BIOTITE GNEISS, GREY, WHITE, LARGE QUARTZ AUGEN AT 132 FEET WITH SOME MAFIC FOLIATION THROUGHOUT, TRACE RED GARNETS				
	133	100%	100%	HARD	AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, BLACK (4-INCHES THICK) AT 133 FEET GRADES TO BIOTITE GNEISS, GREY, WHITE, BLACK	FRESH			NO FRACTURES
	135				UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 136 FEET				
RUN #18					136 - END OF RUN #17 / START RUN #18				
	137				BIOTITE GNEISS, GREY, WHITE, BLACK, SOME MAFIC FOLIATION THROUGHOUT, TRACE RED GARNETS, LARGE QUARTZ AUGENS AT 137 AND 140 FEET				
	139	100%	100%	HARD	UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 141 FEET	FRESH			NO FRACTURES
	141				141 - END RUN #18				

NOTES:

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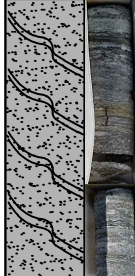

PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH
BORING NUMBER: MW-8B	ELEVATION: 1033.20
COORDINATES: 33.6903052, -84.4415680	DATE STARTED: 5/19/17
DRILLING METHODS: WIRE LINE	DATE COMPLETED: 9/22/17
CORE SIZE: HQ	PAGE 10 OF 11
ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #19	141	100%	100%	HARD	141 - START RUN #19	FRESH			NO FRACTURES
	143				BIOTITE GNEISS, GREY, WHITE, BLACK, SMALL QUARTZ AUGENS WITH SOME MAFIC FOLIATION THROUGHOUT				
RUN #20	145	100%	100%	VERY HARD	UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 146 FEET	FRESH			NO FRACTURES
	147				AMPHIBOLITE/HORNBLLENDE GNEISS, BLACK, GREY AT 146 FEET				
RUN #20	149	100%	100%	VERY HARD	146 - END OF RUN #19 / START RUN #20	FRESH			NO FRACTURES
	151				AMPHIBOLITE/HORNBLLENDE GNEISS, GREY, BLACK GRADES TO WHITE, GREY, BLACK BIOTITE GNEISS WITH SOME QUARTZ AND MAFIC FOLIATION				
RUN #20	151	100%	100%	VERY HARD	AMPHIBOLITE/HORNBLLENDE GNEISS, BLACK, GREY WITH SOME QUARTZ AT 147 FEET	FRESH			NO FRACTURES
	151				QUARTZ WITH SOME GREY, BLACK BIOTITE GNEISS AT 148 FEET				
RUN #20	151	100%	100%	VERY HARD	UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT WHITE QUARTZ AND FELDSPAR PEGMATITE ZONE, ROCK TO 151 FEET	FRESH			NO FRACTURES
	151				QUARTZ GRADES TO GREY, BLACK BIOTITE GNEISS AT 151 FEET				
RUN #20	151	100%	100%	VERY HARD	151 - END RUN #20	FRESH			NO FRACTURES
	151				151 - END RUN #20				

NOTES:

DUE TO SCALING AND SIZING ISSUES, THE DEPTH INTERVAL FOR CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.

PROJECT NUMBER: ER-437	PROJECT NAME: W.C. MEREDITH	
BORING NUMBER: MW-8B	ELEVATION: 1033.20	DATE STARTED: 5/19/17
COORDINATES: 33.6903052, -84.4415680	DATE COMPLETED: 9/22/17	
DRILLING METHODS: WIRE LINE	PAGE 11 OF 11	
CORE SIZE: HQ	ENG/GEO: JPC / KCS	GWL: 26.70 FT-BTOC AT 24 HRS.

RUN NUMBER	DEPTH (FEET)	% RECOVERED	% RQD	HARDNESS	DESCRIPTION	WEATHERING	PROFILE	GRAPHIC	REMARKS
RUN #21	151	100%	100%	VERY HARD	141 - START RUN #19	FRESH			NO FRACTURES
	153				BIOTITE GNEISS, GREY, WHITE, BLACK, SMALL QUARTZ AUGENS WITH SOME MAFIC FOLIATION THROUGHOUT UNBROKEN / NO FRACTURES OBSERVED (ONLY MECHANICAL FRACTURES) - SOLID /COMPETENT ROCK TO 153 FEET 153 - END OF RUN #21 / CORING TERMINATED AT 153 FEET				WATER LOSS
	155								
	157								
	159								
	161								

NOTES: RUN #21 ADVANCED ONLY 2 FEET CORING TERMINATED AT 153 FEET. WATER LOSS OBSERVED IN MUD PAN DURING RUN #21. POTENTIAL WATER-BEARING FRACTURE AT 153 FEET. DUE TO SCALING AND SIZING ISSUES, DEPTH INTERVAL FOR THE CORE IMAGES SHOULD BE CONSIDERED APPROXIMATE.