

PROJECT: <u>DEL-315-4.99</u>	DRILLING FIRM / OPERATOR: <u>ODOT / BINKLEY</u>	DRILL RIG: <u>ACKER XLS TRACK</u>	STATION / OFFSET: <u>1265+09, 21' RT.</u>	EXPLORATION ID <u>B-001-0-17</u>
TYPE: <u>LANDSLIDE</u>	SAMPLING FIRM / LOGGER: <u>ODOT / AJ</u>	HAMMER: <u>AUTO</u>	ALIGNMENT: <u>CL SR 315</u>	
PID: <u>102124</u> SFN: <u>N/A</u>	DRILLING METHOD: <u>3.25" HSA / NQ2</u>	CALIBRATION DATE: <u>6/1/17</u>	ELEVATION: <u>796.1 (ft)</u> EOB: <u>19.0 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>7/11/17</u> END: <u>7/11/17</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>40.206485, -83.059277</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
TOPSOIL (4")	796.1																	
DENSE TO VERY DENSE, BROWN AND GRAY, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP	795.3	1																
		2	10	25	85	78	SS-1A	-	55	12	7	18	8	19	17	2	3	A-2-4 (0)
		3		32														
		4	28	11	31	72	SS-2A	-	-	-	-	-	-	-	-	-	4	A-2-4 (V)
@5.0' - 9.2'; ENCOUNTERED BOULDERS/COBBLES		5		10														
		6																
		7	0			33	NQ2-1											CORE
		8																
<b>LIMESTONE</b> , GRAY, SLIGHTLY WEATHERED, STRONG TO VERY STRONG, THIN BEDDED, CRYSTALLINE, FOSSILIFEROUS, SLIGHTLY STYOLITIC, JOINT, MODERATELY FRACTURED, NARROW, VERY ROUGH; BLOCKY, GOOD; RQD 76%, REC 98%. @ 10.1' - 10.4'; $\gamma = 169$ pcf; $Q_u = 11,424$ psi	786.9	9																
		10																
		11																
		12	80			98	NQ2-2											CORE
		13																
		14																
@ 15.8' - 16.2'; $\gamma = 168$ pcf; $Q_u = 20,033$ psi		15																
@16.6' - 17.9'; HIGH ANGLE PARTIALLY HEALED FRACTURE		16																
		17	70			97	NQ2-3											CORE
		18																
@18.2' - 18.5'; HIGH ANGLE MODERATELY WEATHERED FRACTURE	777.1	19																
		EOB																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 10/9/24 13:43 - X:\GINT\PROJECTS\2017 COMPLETE\600385.GPJ

NOTES: LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM CONSULTANT SURVEY TIN. HOLE DRY BEFORE CORING.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT: <u>DEL-315-4.99</u>	DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>1268+15, 8' RT.</u>	EXPLORATION ID <u>B-002-0-17</u>
TYPE: <u>LANDSLIDE</u>	SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CL SR 315</u>	
PID: <u>102124</u> SFN: <u>N/A</u>	DRILLING METHOD: <u>3.25" HSA / NQ2</u>	CALIBRATION DATE: <u>6/1/17</u>	ELEVATION: <u>798.1 (ft)</u> EOB: <u>16.3 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>7/11/17</u> END: <u>7/11/17</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77</u>	LAT / LONG: <u>40.207172, -83.059899</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV. 798.1	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (12")	797.1	1																
STIFF, REDDISH BROWN WITH BLACK, <b>SILTY CLAY</b> , SOME SAND, TRACE GRAVEL, MOIST		2	3	12	39	SS-1A	2.00	6	8	14	37	35	38	16	22	20	A-6b (12)	
@3.5'; SOME GRAVEL AND STONE FRAGMENTS		3	6															
		4	2	15	96	83	SS-2A	1.00	-	-	-	-	-	-	-	22	A-6b (V)	
		5	60															
<b>LIMESTONE</b> , BROWNISH GRAY, MODERATELY WEATHERED, VERY STRONG, THIN BEDDED, CRYSTALLINE, FOSSILIFEROUS, JOINT, FRACTURED, OPEN, VERY ROUGH; BLOCKY, FAIR; RQD 0%, REC 100%. @8.8' - 10.6'; HIGH ANGLE RUST STAINED FRACTURE	791.8	6	60/2"		83	SS-3A	-	-	-	-	-	-	-	-	-	12	A-6b (V)	
		7																
		8																
		9																
@10.6'; THIN CLAY SEAM	787.3	10																
<b>LIMESTONE</b> , GRAY, SLIGHTLY WEATHERED, VERY STRONG, THIN BEDDED, CRYSTALLINE, FOSSILIFEROUS, SLIGHTLY STYOLITIC, JOINT, MODERATELY FRACTURED, NARROW, VERY ROUGH; BLOCKY, GOOD; RQD 91%, REC 100%. @ 11.7' - 12.0'; $\gamma = 170$ pcf; Qu = 18,630 psi @14.4' - 15.2'; PYRITIC @ 14.7' - 15.1'; $\gamma = 169$ pcf; Qu = 23,148 psi		11	49		100	NQ2-1											CORE	
		12																
		13																
		14																
		15																
	781.8	16																
		EOB																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 10/9/24 13:43 - X:\GINT\PROJECTS\2017 COMPLETE\600385.GPJ

NOTES: LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM CONSULTANT SURVEY TIN. HOLE DRY BEFORE CORING.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 75 LB. BENTONITE CHIPS

PROJECT: <u>DEL-315-4.99</u>	DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>1271+12, 10' RT.</u>	EXPLORATION ID <u>B-003-0-17</u>
TYPE: <u>LANDSLIDE</u>	SAMPLING FIRM / LOGGER: <u>ODOT / CHUDZIK</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CL SR 315</u>	
PID: <u>102124</u> SFN: <u>N/A</u>	DRILLING METHOD: <u>3.25" HSA / NQ2</u>	CALIBRATION DATE: <u>6/1/17</u>	ELEVATION: <u>800.3 (ft)</u> EOB: <u>18.0 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>7/11/17</u> END: <u>7/11/17</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77</u>	LAT / LONG: <u>40.207922, -83.060309</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV. 800.3	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (14") & BASE (2")	799.0	1																
STIFF, REDDISH BROWN WITH BLACK, <b>SILTY CLAY</b> , SOME SAND, LITTLE GRAVEL, DAMP		2	2	6	50	SS-1A	1.50	18	11	13	27	31	33	17	16	22	A-6b (7)	
@3.5'; REDDISH BROWN TO DARK BROWN		3																
		4	2	13	61	SS-2A	2.00	-	-	-	-	-	-	-	-	19	A-6b (V)	
	794.3	5																
DENSE, BROWN, <b>SANDY SILT</b> , LITTLE STONE FRAGMENTS, LITTLE CLAY, DAMP	792.3	6	15															
		7	16	33	78	SS-3A	1.50	19	13	14	40	14	NP	NP	NP	16	A-4a (4)	
	792.3	8	10															
<b>LIMESTONE</b> , BROWNISH GRAY, MODERATELY WEATHERED, STRONG TO VERY STRONG, THIN BEDDED, FOSSILIFEROUS, JOINT, MODERATELY FRACTURED, OPEN, VERY ROUGH; BLOCKY, GOOD; RQD 0%, REC 100%.	790.1	9																
<b>LIMESTONE</b> , GRAY, SLIGHTLY WEATHERED, MODERATELY STRONG TO STRONG, THIN BEDDED, CRYSTALLINE, FOSSILIFEROUS, JOINT, MODERATELY FRACTURED, OPEN, VERY ROUGH; BLOCKY, VERY GOOD; RQD 64%, REC 100%.		10																
@ 10.5' - 10.8'; $\gamma = 169$ pcf; $Q_u = 12,062$ psi		11																
@ 13.4' - 13.7'; $\gamma = 171$ pcf; $Q_u = 6,365$ psi		12																
@15.3' - 18.0'; HIGH ANGLE FRACTURE		13	50		100	NQ2-1											CORE	
		14																
		15																
		16																
		17																
	782.3	18																
		EOB																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 10/9/24 13:43 - X:\GINT\PROJECTS\2017 COMPLETE\600385.GPJ

NOTES: LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM CONSULTANT SURVEY TIN. HOLE DRY BEFORE CORING.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

PROJECT: <u>DEL-315-4.99</u>	DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>1272+67, 8' RT.</u>	EXPLORATION ID <u>B-004-0-17</u>
TYPE: <u>LANDSLIDE</u>	SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CL SR 315</u>	
PID: <u>102124</u> SFN: <u>N/A</u>	DRILLING METHOD: <u>3.25" HSA / NQ2</u>	CALIBRATION DATE: <u>6/1/17</u>	ELEVATION: <u>800.7 (ft)</u> EOB: <u>20.3 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>7/12/17</u> END: <u>7/12/17</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77</u>	LAT / LONG: <u>40.208312, -83.060530</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV. 800.7	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (12")	799.7	1																
VERY STIFF, BROWN, SANDY SILT, SOME CLAY, SOME STONE FRAGMENTS, DAMP		2	4	6	13	67	SS-1A	2.50	21	13	17	28	21	23	15	8	14	A-4a (3)
@3.5'; REDDISH BROWN		3																
		4	2	4	12	67	SS-2A	2.50	-	-	-	-	-	-	-	-	16	A-4a (V)
		5		5														
		6	6	8	21	89	SS-3A	4.00	-	-	-	-	-	-	-	-	15	A-4a (V)
@8.5'; HARD, REDDISH BROWN AND BROWN		7		8														
		8																
		9	6	8	19	89	SS-4A	4.50	21	8	14	32	25	27	17	10	11	A-4a (4)
	790.4	10		7														
LIMESTONE, LIGHT GRAY, MODERATELY WEATHERED, VERY STRONG, THIN BEDDED, CRYSTALLINE, FOSSILIFEROUS, BEDDING, MODERATELY FRACTURED, OPEN, VERY ROUGH; BLOCKY, GOOD; RQD 79%, REC 100%. @ 10.5' - 10.8'; $\gamma = 168$ pcf; $Q_u = 16,772$ psi @13.9'; VERY THIN CLAY SEAM		11																CORE
		12																
		13	65		100	NQ2-1												CORE
@16.0'; 1.0" CLAY SEAM @ 16.3' - 16.6'; $\gamma = 170$ pcf; $Q_u = 19,032$ psi @17.0'; 45° FRACTURE @17.2'; 45° FRACTURE		14																
		15																
		16																
@19.5' - 19.9'; HIGH ANGLE HEALED FRACTURE	780.4	17		93		100	NQ2-2											CORE
		18																
		19																
		20																
		EOB																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 10/9/24 13:43 - X:\GINT\PROJECTS\2017 COMPLETE\600385.GPJ

NOTES: LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM CONSULTANT SURVEY TIN. HOLE DRY BEFORE CORING.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 75 LB. BENTONITE CHIPS

# WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation  
Office of Geotechnical Engineering  
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER:	<u>102124</u>
DATE STARTED:	<u>07-10-2017</u>
DATE COMPLETED:	<u>07-10-2017</u>

SURFACE ELEVATION:	<u>789.3</u>
WATER ON COMPLETION:	<u>none observed</u>
HAMMER WEIGHT:	<u>35 lbs.</u>
CONE AREA:	<u>10 sq. cm</u>

HOLE #:	<u>D-001-1-17</u>
CREW:	<u>K. Mcleish, J. Binkley, &amp; A. Jalbrzikowski</u>
PROJECT:	<u>DEL-315-4.99</u>
LAT/LONG:	<u>40.206251,-83.059053</u>
LOCATION:	<u>Delaware County, Ohio</u>

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm <sup>2</sup>	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		NON-COHESIVE	COHESIVE
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	2	8.9	••				2	VERY LOOSE	SOFT
- 1 ft	3	13.3	•••				3	VERY LOOSE	SOFT
-	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
-	7	31.1	•••••••				8	LOOSE	MEDIUM STIFF
- 2 ft	25	111.0	•••••••••••••••••••				25+	DENSE	HARD
-									
-									
- 3 ft									
- 1 m									
-									
- 4 ft									
-									
-									
- 5 ft									
-									
-									
- 6 ft									
- 2 m									
-									
-									
- 7 ft									
-									
-									
- 8 ft									
-									
-									
- 9 ft									
-									
-									
- 10 ft									
- 3 m									
-									
-									
-									
- 11 ft									
-									
-									
- 12 ft									
-									
-									
- 13 ft									
- 4 m									

Latitude & Longitude from OGE handheld GPS unit. Elevation from Consultant Survey terrain file.

# WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation  
 Office of Geotechnical Engineering  
 1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 102124  
 DATE STARTED: 07-10-2017  
 DATE COMPLETED: 07-10-2017

HOLE #: D-002-1-17  
 CREW: K. Mcleish, J. Binkley, & A. Jalbrzikowski  
 PROJECT: DEL-315-4.99  
 LAT/LONG: 40.206890,-83.059607  
 LOCATION: Delaware County, Ohio

SURFACE ELEVATION: 786.8  
 WATER ON COMPLETION: none observed  
 HAMMER WEIGHT: 35 lbs.  
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm <sup>2</sup>	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		NON-COHESIVE	COHESIVE
-	3	13.3	•••				3	VERY LOOSE	SOFT
-	10	44.4	••••••••••				12	MEDIUM DENSE	STIFF
- 1 ft	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
-	4	17.8	•••••				5	LOOSE	MEDIUM STIFF
-	6	26.6	••••••				7	LOOSE	MEDIUM STIFF
- 2 ft	6	26.6	••••••				7	LOOSE	MEDIUM STIFF
-	14	62.2	••••••••••••				17	MEDIUM DENSE	VERY STIFF
-	12	53.3	••••••••••				15	MEDIUM DENSE	STIFF
- 3 ft	25	111.0	••••••••••••••••••••••••				25+	DENSE	HARD
- 1 m									
-									
- 4 ft									
-									
- 5 ft									
-									
- 6 ft									
- 2 m									
- 7 ft									
-									
- 8 ft									
-									
- 9 ft									
-									
- 3 m 10 ft									
-									
- 11 ft									
-									
- 12 ft									
-									
- 4 m 13 ft									

Latitude & Longitude from OGE handheld GPS unit. Elevation from Consultant Survey terrain file.

# WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation  
Office of Geotechnical Engineering  
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 102124  
DATE STARTED: 01-07-2020  
DATE COMPLETED: 01-07-2020

HOLE #: D-002-2-19  
CREW: Jalbrzikowski, Hesler, Bloor & Painter  
PROJECT: DEL-315-4.99  
LAT/LONG: 40.206955, -83.059849  
LOCATION: DEL-315-4.99 BMP location Southbound

SURFACE ELEVATION: 797.2  
WATER ON COMPLETION: None observed.  
HAMMER WEIGHT: 35 lbs.  
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm <sup>2</sup>	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		NON-COHESIVE	COHESIVE
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
- 1 ft	4	17.8	•••••				5	LOOSE	MEDIUM STIFF
-	14	62.2	•••••••••••••••				17	MEDIUM DENSE	VERY STIFF
-	8	35.5	••••••••				10	LOOSE	STIFF
- 2 ft	4	17.8	•••••				5	LOOSE	MEDIUM STIFF
-	3	13.3	•••				3	VERY LOOSE	SOFT
-	25	111.0	•••••••••••••••				25+	DENSE	HARD
- 3 ft	Refusal at 82cm (25 blows/2cm) ~EL. 792.9 ft.								
- 1 m									
-	4 ft								
-	5 ft								
-	6 ft								
- 2 m	7 ft								
-	8 ft								
-	9 ft								
- 3 m	10 ft								
-	11 ft								
-	12 ft								
- 4 m	13 ft								

# WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation  
Office of Geotechnical Engineering  
1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 102124  
DATE STARTED: 01-07-2020  
DATE COMPLETED: 01-07-2020

HOLE #: D-002-3-19  
CREW: Jalbrzikowski, Hesler, Bloor & Painter  
PROJECT: DEL-315-4.99  
LAT/LONG: 40.207421, -83.060146  
LOCATION: DEL-315-4.99 BMP location Southbound

SURFACE ELEVATION: 800.2  
WATER ON COMPLETION: None observed.  
HAMMER WEIGHT: 35 lbs.  
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm <sup>2</sup>	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		NON-COHESIVE	COHESIVE
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	2	8.9	••				2	VERY LOOSE	SOFT
- 1 ft	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
-	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
-	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
- 2 ft	4	17.8	•••••				5	LOOSE	MEDIUM STIFF
-	4	17.8	•••••				5	LOOSE	MEDIUM STIFF
-	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
- 3 ft	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
- 1 m	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
-	4	15.4	••••				4	VERY LOOSE	SOFT
- 4 ft	6	23.2	•••••				6	LOOSE	MEDIUM STIFF
-	22	84.9	••••••••••••••••				24	MEDIUM DENSE	VERY STIFF
-	15	57.9	••••••••••				16	MEDIUM DENSE	VERY STIFF
- 5 ft	12	46.3	••••••••••				13	MEDIUM DENSE	STIFF
-	9	34.7	••••••••				9	LOOSE	STIFF
-	12	46.3	••••••••••				13	MEDIUM DENSE	STIFF
- 6 ft	9	34.7	••••••••				9	LOOSE	STIFF
-	25	96.5	••••••••••••••••				25+	MEDIUM DENSE	VERY STIFF
- 2 m	Refusal at 195cm (25 blows/5cm) ~EL. 793.3 ft.								
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m	10 ft								
<p>Hand Auger Sample Collected:</p> <p>0.0' - 0.6': Topsoil</p> <p>0.6' - 1.6': Brown SILTY CLAY, some sand, trace little gravel and stone fragment, moist.</p> <p style="padding-left: 40px;">0.6'-1.0': G%: 14 CS%: 12 FS%: 15 ML%: 28 CL%: 31 LL: 40 PL: 23 PI: 17 M%: 23</p> <p style="padding-left: 40px;">1.3'-1.6': G%: 6 CS%: 7 FS%: 15 ML%: 34 CL%: 38 LL: 38 PL: 22 PI: 16 M%: 27</p> <p>1.3' 1.6': Brown and orangish brown</p> <p>6.4': Refusal</p>									
- 4 m	13 ft								



# WILDCAT DYNAMIC CONE LOG

The Ohio Department of Transportation  
 Office of Geotechnical Engineering  
 1600 West Broad Street, Columbus, Ohio 43223

PROJECT NUMBER: 102124  
 DATE STARTED: 01-07-2020  
 DATE COMPLETED: 01-07-2020

HOLE #: D-002-4-19  
 CREW: Jalbrzikowski, Hesler, Bloor & Painter  
 PROJECT: DEL-315-4.99  
 LAT/LONG: 40.207911, -83.060409  
 LOCATION: DEL-315-4.99 BMP location Southbound

SURFACE ELEVATION: 800.9  
 WATER ON COMPLETION: None observed.  
 HAMMER WEIGHT: 35 lbs.  
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm <sup>2</sup>	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		NON-COHESIVE	COHESIVE
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
- 1 ft	3	13.3	•••				3	VERY LOOSE	SOFT
-	3	13.3	•••				3	VERY LOOSE	SOFT
-	2	8.9	••				2	VERY LOOSE	SOFT
- 2 ft	5	22.2	•••••				6	LOOSE	MEDIUM STIFF
-	6	26.6	•••••				7	LOOSE	MEDIUM STIFF
-	6	26.6	•••••				7	LOOSE	MEDIUM STIFF
- 3 ft	3	13.3	•••				3	VERY LOOSE	SOFT
- 1 m	4	17.8	••••				5	LOOSE	MEDIUM STIFF
-	20	77.2	••••••••••••••••				22	MEDIUM DENSE	VERY STIFF
- 4 ft	13	50.2	••••••••••				14	MEDIUM DENSE	STIFF
-	27	104.2	••••••••••••••••				25+	MEDIUM DENSE	VERY STIFF
-	17	65.6	••••••••••				18	MEDIUM DENSE	VERY STIFF
- 5 ft	25	96.5	••••••~				25+	MEDIUM DENSE	VERY STIFF
-	Difficult driving on an apparent root. Location offset 5 ft. from original drive location which encountered large rocks and roots.								
- 6 ft									
- 2 m									
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									

B-001-0-17



Run #:	Depth		Recovery		RQD	
NQ2-1	5.5'	9.0'	14/42	33%	0/42	0%
NQ2-2	9.0'	14.0'	59/60	98%	48/60	80%

DEL-315-4.99 PID 102124

B-001-0-17



Run #:	Depth		Recovery		RQD	
NQ2-3	14.0'	19.0'	58/60	97%	42/60	70%
DEL-315-4.99 PID 102124						

B-002-0-17



Run #:	Depth		Recovery		RQD	
NQ2-1	6.2'	16.2'	120/120	100%	59/120	49%

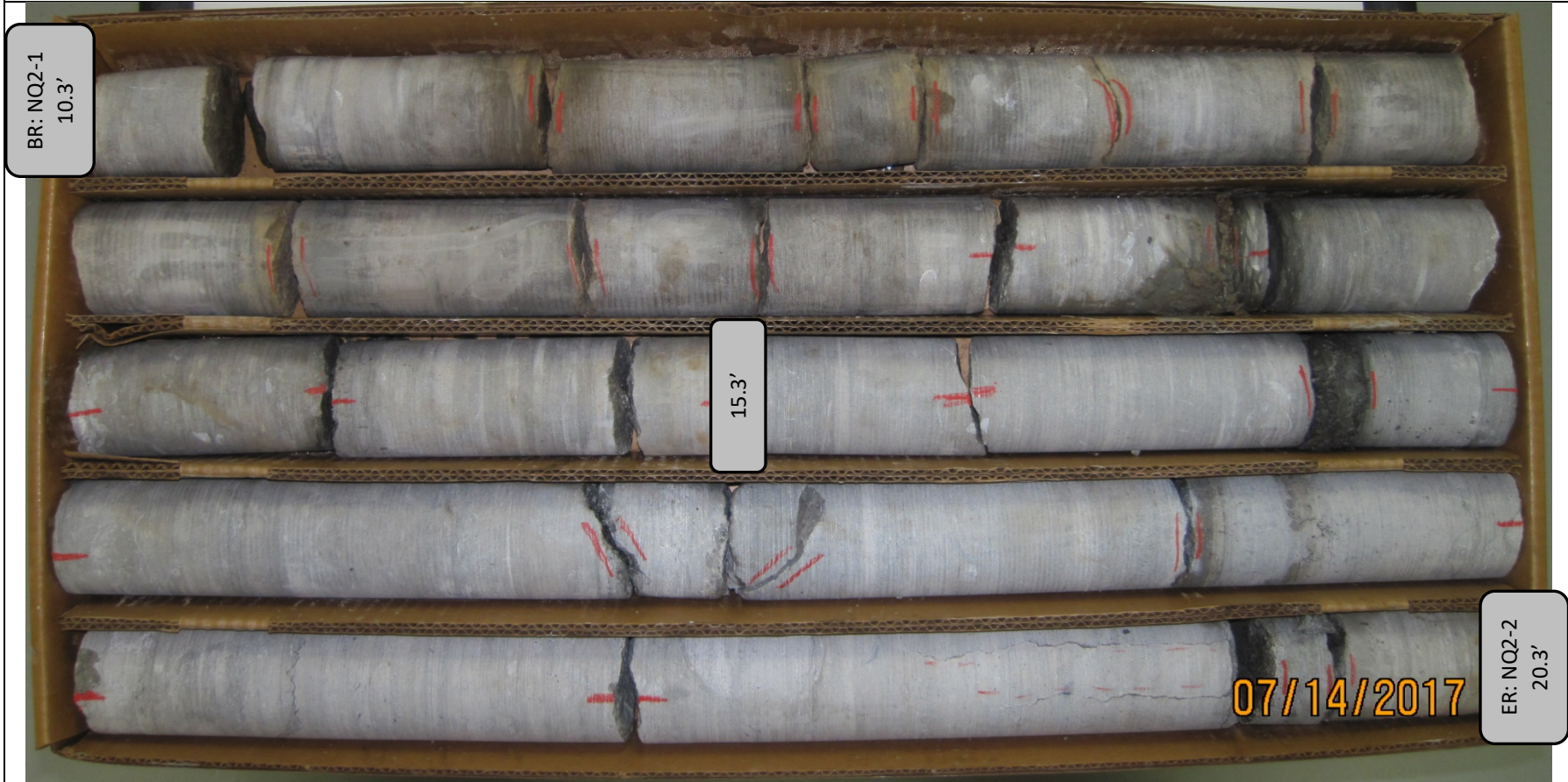
DEL-315-4.99 PID 102124

B-003-0-17



Run #:	Depth		Recovery		RQD	
NQ2-1	8.0'	18.0'	120/120	100%	60/120	50%
DEL-315-4.99 PID 102124						

B-004-0-17

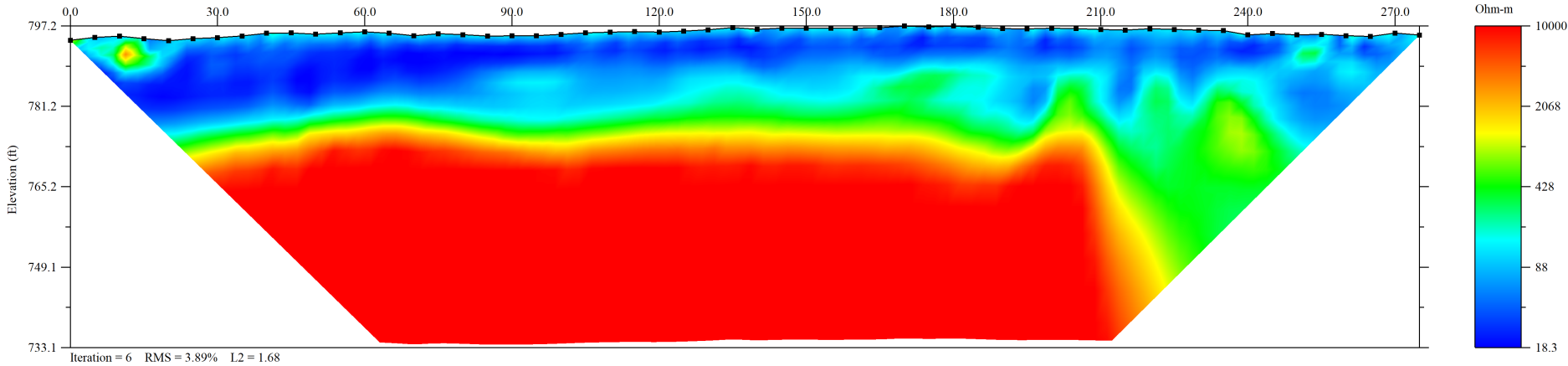


Run #:	Depth		Recovery		RQD	
NQ2-1	10.3'	15.3'	60/60	100%	39/60	65%
NQ2-2	15.3'	20.3'	60/60	100%	56/60	93%

DEL-315-4.99 PID 102124

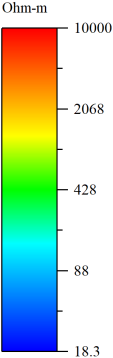
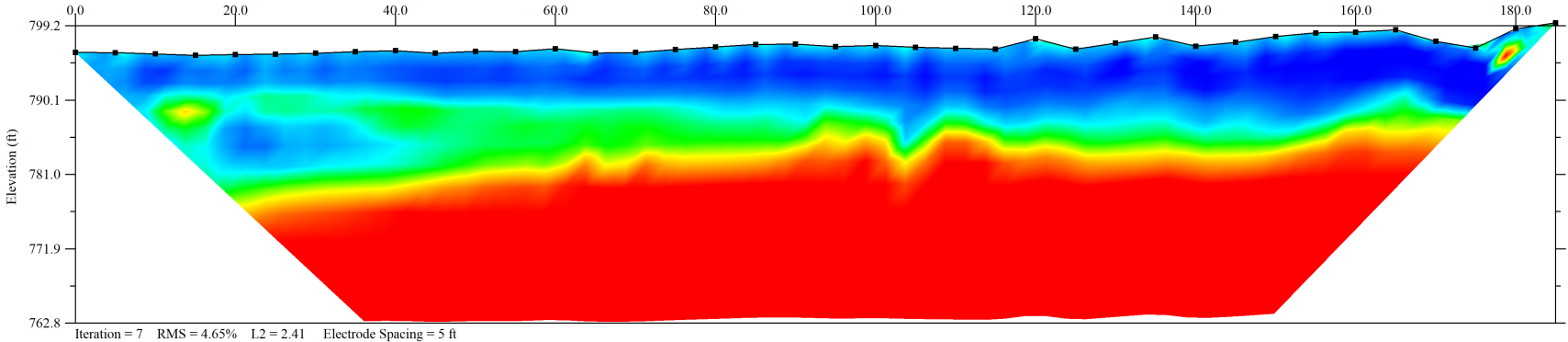
DEL-315-5.0 Line 1 Inverted Resistivity Section

Electrode 1  
South



DEL-315-5.0 Line 2 Inverted Resistivity Section

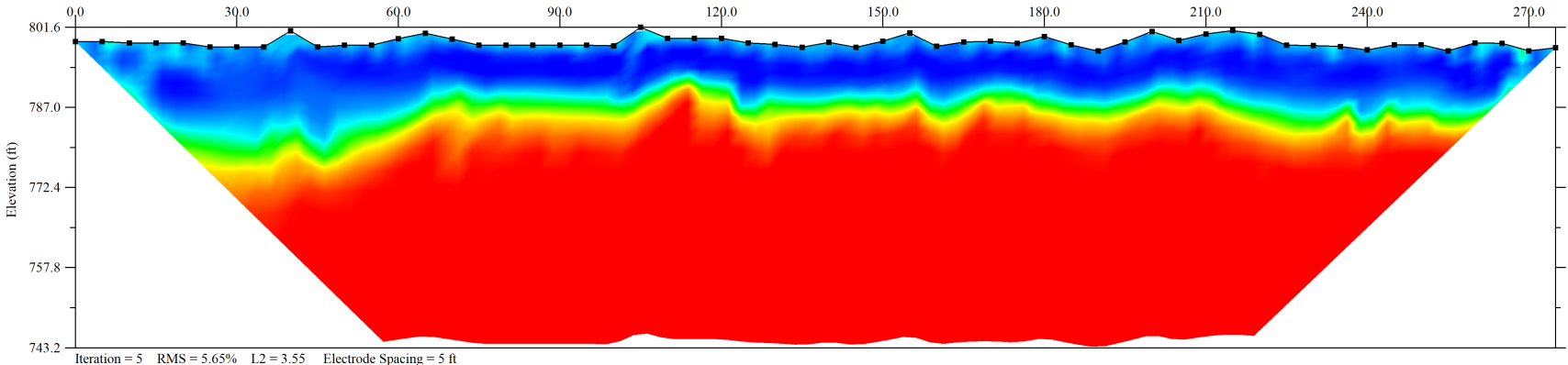
Electrode 1  
South





DEL-315-5.0 Line 3 Inverted Resistivity Section

Electrode 1  
South



Iteration = 5   RMS = 5.65%   L2 = 3.55   Electrode Spacing = 5 ft

