

110-36 NEUMIN PRODUCTION
SITE CHARACTERIZATION

NOV 30, 2016

SOIL SAMPLING

12 SOIL SAMPLE ANALYTICAL FIELD SCREENING
RESULTS TABLE

WATER SAMPLING

TW3 INSTALLED @ PT #110; POND AREA

DEPTH 15'

3/4" PVC SLOTTED CASING

STATIC WATER LEVEL: N.M.

EVALUATE BASED ON WATER QTY

OR FILL DIRTYNESS

$$J = \pi \left(\frac{1.5}{2} \right)^2 \times 15 = .44 \text{ FT}^3 =$$

$$1 \text{ WELL V} = \pi \left(\frac{7.5}{2} \right)^2 \times 15 = .05 \text{ FT}^3 = 0.4 \text{ GAL}$$

SWELL = 2 GAL

ACTUAL BAILING: BAILED DRY
EVACUATED +/- 3 GALLON TO
ACHIEVE CLARITY.

TW4 TANK BATTERY AREA

DEPTH 15'

3/4" PVC SLOTTED CASING

STATIC WATER LEVEL: N.M.

EVALUATE BASED ON FULL WELL
DEPTH

SWELL V = 2 GAL

ACTUAL BAILING: BAILED FILL DRYNESS
13 X TO ACHIEVE CLARITY
+/- 3.5 GAL

110-36 NEUMIN PRODUCTION
SITE CHARACTERIZATION

NOV 30, 2016

TW5 Well Head Area

DEPTH 15'

3/4" SLOTTED PVC CASING

STATIC WATER LEVEL: N.M.

EVALUATE BASED UPON TW3:4

MIN = 2 GAL

ACTUAL BAILING: BAILED DRY

13 X FILL CLARITY

+/- 3 GAL

TABLE 1
SOIL SAMPLE FIELD SCREENING RESULTS
CONDUCTIVITY CONCENTRATIONS
H.C. DREW MANUAL
CALCASIEU PARISH, LOUISIANA

SAMPLE I.D.	SAMPLE DEPTH (ft.)	FIELD SCREENING		DATE	TIME		TEMP °F	REMARKS
		BACKGROUND CL	ACTUAL CL		SAMPLE (CST)	TEST (CST)		
B1-S1	2.5	0	90	11/30/2016	--	10:40 AM	--	STIFF CLAY (DARK BROWN)
B1-S2	5	0	46	11/30/2016	--	10:40 AM	--	STIFF CLAY (TAN/GRAY)
B1-S3	7.5	0	71	11/30/2016	--	10:52 AM	--	STIFF CLAY (GRAY W/FE)
B1-S4	10	0	111	11/30/2016	--	10:52 AM	--	SANDY CLAY (TAN/GRAY)
B1-S5	12.5	0	221	11/30/2016	--	11:00 AM	--	SANDY SILT (TAN)
B1-S6	15	0	214	11/30/2016	--	11:00 AM	--	SANDY SILT (TAN)
B2-S1	2.5	0	70	11/30/2016	--	11:10 AM	--	CLAY (DARK GRAY)
B2-S2	5	0	33	11/30/2016	--	11:13 AM	--	CLAY (DARK GRAY)
B2-S3	7.5	0	87	11/30/2016	--	11:19 AM	--	SILTY CLAY (GRAY)
B2-S4	10	0	162	11/30/2016	--	11:22 AM	--	SANDY CLAY (ORANGE)
B2-S5	12.5	0	113	11/30/2016	--	11:30 AM	--	SANDY WET CLAY (ORANGE)
B2-S6	15	0	114	11/30/2016	--	11:31 AM	--	SANDY CLAY (GRAY & ORANGE)
B3-S1	2.5	0	109	11/30/2016	--	1:34 PM	--	STIFF CLAY (BROWN W/FE)
B3-S2	5	0	127	11/30/2016	--	1:35 PM	--	STIFF CLAY (BROWN W/FE)
B3-S3	7.5	0	228	11/30/2016	--	1:43 PM	--	STIFF CLAY (GRAY & TAN)
B3-S4	10	0	167	11/30/2016	--	1:45 PM	--	SANDY CLAY (TAN)
B3-S5	12.5	0	304	11/30/2016	--	1:52 PM	--	SILTY SAND w/CLAY (TAN & BROWN)
B3-S6	15	0	321	11/30/2016	--	1:53 PM	--	SANDY CLAY (DARK & LIGHT BROWN)
B4-S1	2.5	0	183	11/30/2016	--	11:41 AM	--	SOLID CALY (DARK GRAY)
B4-S2	5	0	77	11/30/2016	--	11:42 AM	--	CLAY (GRAY W/FE)
B4-S3	7.5	0	109	11/30/2016	--	11:47 AM	--	CLAY W/FE (LIGHT GRAY)
B4-S4	10	0	370	11/30/2016	--	11:48 AM	--	SANDY SILT (TAN)
B4-S5	12.5	0	217	11/30/2016	--	11:54 AM	--	SILTY SAND (ORANGE)
B4-S6	15	0	384	11/30/2016	--	11:55 AM	--	STIFF CLAY (ORANGE & GRAY)
B5-S1	2.5	0	88	11/30/2016	--	10:15 AM	--	STIFF CLAY (GRAY/TAN)
B5-S2	5	0	30	11/30/2016	--	10:15 AM	--	STIFF CLAY (GRAY/TAN)
B5-S3	6-7	0	--	11/30/2016	--	--	--	SILTY SAND
B5-S4	7-5	0	54	11/30/2016	--	10:22 AM	--	STIFF CLAY (GRAY/TAN)
B5-S5	10	0	54	11/30/2016	--	10:22 AM	--	STIFF CLAY (GRAY/TAN)
B5-S6	12.5	0	878	11/30/2016	--	10:34 AM	--	SILTY CLAY
B5-S7	15	0	253	11/30/2016	--	10:31 AM	--	SILTY SAND
B6-S1	2.5	0	132	11/30/2016	--	2:05 PM	--	STIFF CLAY (DARK GRAY)
B6-S2	5	0	95	11/30/2016	--	2:07 PM	--	ELASTIC CLAY (GRAY & ORANGE)
B6-S3	7.5	0	60	11/30/2016	--	2:14 PM	--	STIFF CLAT W/FE (GRAY)
B6-S4	10	0	525	11/30/2016	--	2:15 PM	--	SAND (TAN & BROWN)
B6-S5	12.5	0	72	11/30/2016	--	2:24 PM	--	STIFF CLAY (GRAY)
B6-S6	15	0	224	11/30/2016	--	2:25 PM	--	SILTY CLAY (RED)
B7-S1	2.5	0	177	11/30/2016	--	2:35 PM	--	STIFF CLAY (LIGHT & DARK BROWN)
B7-S2	5	0	178	11/30/2016	--	2:36 PM	--	SILTY CLAY (GRAY)
B7-S3	7.5	0	148	11/30/2016	--	3:02 PM	--	SILTY CLAY (GRAY)
B7-S4	10	0	364	11/30/2016	--	3:04 PM	--	SANDY CLAY (GRAYISH BROWN)
B7-S5	12.5	0	588	11/30/2016	--	3:05 PM	--	STIFF SILTY CLAY (ORANGE & GRAY)
B7-S6	15	0	684	11/30/2016	--	3:06 PM	--	STIFF SILTY CLAY (ORANGE & GRAY)

CST : Central Standard Time

TABLE 1
SOIL SAMPLE FIELD SCREENING RESULTS
CONDUCTIVITY CONCENTRATIONS
H.C. DREW MANUAL
CALCASIEU PARISH, LOUISIANA

SAMPLE I.D.	SAMPLE DEPTH (ft.)	FIELD SCREENING		DATE	TIME		TEMP °F	REMARKS
		BACKGROUND CL	ACTUAL CL		SAMPLE (CST)	TEST (CST)		
B8-S1	2.5	0	217	11/30/2016	--	3:12 PM	--	SILTY STIFF CLAY (DARK GRAY)
B8-S2	5	0	251	11/30/2016	--	3:14 PM	--	SANDY CLAY (GRAY)
B8-S3	7.5	0	163	11/30/2016	--	3:22 PM	--	SILTY CLAY (ORANGE & DARK GRAY)
B8-S4	10	0	327	11/30/2016	--	3:24 PM	--	SANDY CLAY (LIGHT BROWN)
B8-S5	12.5	0	302	11/30/2016	--	3:35 PM	--	STIFF SILTY CLAY (LT GRAY & ORANGE)
B8-S6	15	0	222	11/30/2016	--	3:36 PM	--	STIFF SANDY CLAY (LIGHT GRAY)
B9-S1	2.5	0	300	12/1/2016	--	10:01 AM	--	STIFF CLAY (DARK BROWN)
B9-S2	5	0	232	12/1/2016	--	10:02 AM	--	STIFF CLAY (LIGHT GRAY)
B9-S3	7.5	0	501	12/1/2016	--	10:08 AM	--	STIFF CLAY (LIGHT GRAY)
B9-S4	10	0	571	12/1/2016	--	10:09 AM	--	SANDY CLAY (LIGHT GRAY)
B9-S5	12.5	0	1160	12/1/2016	--	10:13 AM	--	SANDY CLAY (LIGHT GRAY)
B9-S6	15	0	858	12/1/2016	--	10:14 AM	--	STIFF CLAY W/FE (ORANGE)
B10-S1	3.5	0	175	12/1/2016	--	9:13 AM	--	STIFF CLAY (DARK BROWN)
B10-S2	5	0	63	12/1/2016	--	9:13 AM	--	STIFF CLAY (DARK BROWN)
B10-S3	7.5	0	79	12/1/2016	--	9:25 AM	--	STIFF CLAY (LIGHT GRAY)
B10-S4	10	0	147	12/1/2016	--	9:27 AM	--	SANDY CLAY (LIGHT GRAY)
B10-S6	12.5	0	240	12/1/2016	--	9:35 AM	--	SANDY CLAY (BROWN & GRAY)
B10-S7	15	0	352	12/1/2016	--	9:36 AM	--	SANDY CLAY (BROWN)
B11-S1	3	0	63	12/1/2016	--	1:50 PM	--	SILTY STIFF CLAY (DARK BROWN)
B11-S2	5	0	45	12/1/2016	--	1:51 PM	--	STIFF CLAY W/FE (DARK BROWN)
B11-S3	7.5	0	35	12/1/2016	--	2:04 PM	--	STIFF SILTY CLAY W/FE (DARK BROWN)
B11-S4	10	0	99	12/1/2016	--	2:05 PM	--	SILTY BROWN CLAY
B11-S5	12.5	0	123	12/1/2016	--	2:15 PM	--	WET SAND (ORANGE)
B11-S6	15	0	132	12/1/2016	--	2:16 PM	--	SILTY CLAY (BROWN)
B12-S1	2.5	0	490	12/1/2016	--	10:43 AM	--	STIFF CLAY (DARK BROWN)
B12-S2	5	0	54	12/1/2016	--	10:44 AM	--	STIFF CLAY W/SILT (DARK BROWN)
B12-S3	8	0	297	12/1/2016	--	10:59 AM	--	SILTY CLAY (DARK BROWN)
B12-S4	10	0	43	12/1/2016	--	11:00 AM	--	SAND (TAN) & CLAY (DARK BROWN)
B12-S5	12.5	0	234	12/1/2016	--	11:06 AM	--	SILTY BROWN CLAY
B12-S6	15	0	147	12/1/2016	--	11:07 AM	--	STIFF CLAY W/SILT (TAN & BROWN)
B13-S1	2.5	0	152	12/1/2016	--	11:19 AM	--	STIFF CLAY W/SILT (DARK BROWN)
B13-S2	5	0	76	12/1/2016	--	11:20 AM	--	STIFF CLAY W/SILT (DARK BROWN)
B13-S3	7.5	0	54	12/1/2016	--	11:30 AM	--	CLAY W/FE NODULES (GRAY)
B13-S4	10	0	60	12/1/2016	--	11:31 AM	--	SILTY SAND & CLAY W/FE (GRAY)
B13-S5	12.5	0	120	12/1/2016	--	11:40 AM	--	SILTY SAND W/SMALL AMOUNTS OF CLAY
B13-S6	15	0	99	12/1/2016	--	11:41 AM	--	SILTY STIFF CLAY W/FE (ORANGE & GRAY)
B14-S1	2.5	0	53	12/1/2016	--	1:10 PM	--	STIFF CLAY (DARK GRAY)
B14-S2	5	0	39	12/1/2016	--	1:11 PM	--	ELASTIC CLAY (GRAY & ORANGE)
B14-S3	7.5	0	66	12/1/2016	--	1:20 PM	--	STIFF CLAY W/FE (GRAY)
B14-S4	10	0	84	12/1/2016	--	1:21 PM	--	SAND (TAN & BROWN)
B14-S5	12.5	0	129	12/1/2016	--	1:33 PM	--	STIFF CLAY (GRAY)
B14-S6	15	0	125	12/1/2016	--	1:34 PM	--	SILTY CLAY (RED)

CST : Central Standard Time

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CONDUCTIVITY CONCENTRATIONS
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CALCASIEU PARISH, LOUISIANA

SAMPLE I.D.	SAMPLE DEPTH (ft.)	FIELD SCREENING		DATE	TIME		TEMP °F	REMARKS
		BACKGROUND CL	ACTUAL CL		SAMPLE (CST)	TEST (CST)		
B15-S1	3	0	236	12/1/2016	--	2:24 PM	--	SILTY CLAY W/GRAVEL (BROWN)
B15-S2	5	0	145	12/1/2016	--	2:25 PM	--	SILTY CLAY W/GRAVEL (BROWN)
B15-S3	7.5	0	167	12/1/2016	--	2:40 PM	--	STIFF CLAY W/FE (GRAY)
B15-S4	10	0	266	12/1/2016	--	2:41 PM	--	SILTY CLAY (BROWN)
B15-S5	12.5	0	196	12/1/2016	--	2:52 PM	--	SANDY CLAY W/FE (BROWN)
B15-S6	15	0	113	12/1/2016	--	2:53 PM	--	SILTY CLAY (GRAY & ORANGE)

CST : Central Standard Time

TABLE 1
SOIL SAMPLE FIELD SCREENING RESULTS
CONDUCTIVITY MEASUREMENTS
H.C. DREW MANUAL
CALCASIEU PARISH, LOUISIANA

SAMPLE I.D.	SAMPLE DEPTH (ft.)	FIELD SCREENING ACTUAL	DATE	TIME		TEMP °F	REMARKS
				SAMPLE (CST)	TEST (CST)		
B16-S1	0-2.5	106	2/9/2018	11:35 AM	11:38 AM	65.8	Stiff Clay (Brown)
B16-S2	2.5-5	37	2/9/2018	11:38 AM	11:41 AM	66.5	Silty Clay (Grey)
B16-S3	5-7.5	47	2/9/2018	11:28 AM	11:33 AM	67.1	Silty Clay (Brownish Grey)
B16-S4	7.5-10	67	2/9/2018	11:33 AM	11:35 AM	67.6	Silty Clay w/Sand (Grey)
B16-S5	10-12.5	103	2/9/2018	11:41 AM	11:45 AM	68.2	Sandy Clay (Orangish Brown)
B16-S6	12.5-15	316	2/9/2018	11:45 AM	11:48 AM	68.4	Sandy Clay (Orange)
B17-S1	0-2.5	85	2/9/2018	11:00 AM	11:03 AM	64.4	Stiff Clay (Brown)
B17-S2	2.5-5	46	2/9/2018	11:03 AM	11:06 AM	64.3	Stiff Clay (Grey)
B17-S3	5-7.5	38	2/9/2018	11:06 AM	11:12 AM	64.5	Silty Clay (Grey)
B17-S4	7.5-10	42	2/9/2018	11:12 AM	11:14 AM	64.9	Sandy Clay (Brownish Grey)
B17-S5	10-12.5	68	2/9/2018	11:14 AM	11:17 AM	65.2	Sandy Clay (Grey)
B17-S6	12.5-15	270	2/9/2018	11:17 AM	11:21 AM	65.4	Sandy Clay (Brown)
B18-S1	0-2.5	72	2/9/2018	10:35 AM	10:40 AM	62.6	Stiff Clay (Grey)
B18-S2	2.5-5	58	2/9/2018	10:40 AM	10:42 AM	62.7	Stiff Clay (Grey)
B18-S3	5-7.5	39	2/9/2018	10:42 AM	10:48 AM	62.8	Silty Clay (Brownish Grey)
B18-S4	7.5-10	63	2/9/2018	10:48 AM	10:50 AM	62.9	Silty Clay (Brownish Grey)
B18-S5	10-12.5	120	2/9/2018	10:50 AM	10:53 AM	63.7	Silty Clay w/Sand (Grey)
B18-S6	12.5-15	124	2/9/2018	10:53 AM	10:55 AM	63.7	Sandy Clay (Orangish Grey)
B19-S1	0-2.5	189	2/19/2018	10:41 AM	10:42 AM	76.4	Stiff Clay (Brown)
B19-S2	2.5-5	168	2/19/2018	10:45 AM	10:46 AM	76.8	Silty Clay (Brownish Grey)
B19-S3	5-7.5	232	2/19/2018	10:52 AM	10:56 AM	77.0	Silty Clay (Grey)
B19-S4	7.5-10	263	2/19/2018	10:58 AM	10:59 AM	77.2	Silty Clay (Grey)
B19-S5	10-12.5	205	2/19/2018	11:03 AM	11:05 AM	77.4	Clayey Silt (Grey)
B19-S6	12.5-15	295	2/19/2018	11:07 AM	11:08 AM	78.2	Clayey Silt (Brown)
B19-S7	15-18	276	2/19/2018	11:12 AM	11:13 AM	78.8	Clayey Sand (Grey)
B20-S1	0-2.5	45	2/9/2018	11:48 AM	11:56 AM	68.9	Stiff Clay (Brown)
B20-S2	2.5-5	46	2/9/2018	11:56 AM	11:58 AM	69.1	Silty Clay (Orangish Grey)
B20-S3	5-7.5	48	2/9/2018	11:58 AM	12:01 PM	69.2	Silty Clay (Grey)
B20-S4	7.5-10	72	2/9/2018	12:01 PM	12:03 PM	69.4	Silty Clay w/Sand (Grey)
B20-S5	10-12.5	68	2/9/2018	12:03 PM	12:07 PM	69.4	Sandy Clay (Orange)
B20-S6	12.5-15	93	2/9/2018	12:07 PM	12:09 PM	69.4	Sandy Clay (Orange)
B21-S1	0-2.5	60	2/9/2018	12:09 PM	12:16 PM	69.4	Stiff Clay (Brown)
B21-S2	2.5-5	22	2/9/2018	12:16 PM	12:20 PM	69.4	Silty Clay (Grey)
B21-S3	5-7.5	70	2/9/2018	12:30 PM	12:36 PM	69.4	Silty Clay (Orangish Grey)
B21-S4	7.5-10	69	2/9/2018	12:36 PM	12:40 PM	69.1	Silty Clay (Orangish Grey)
B21-S5	10-12.5	93	2/9/2018	12:40 PM	12:48 PM	69.1	Sandy Clay (Brown)
B21-S6	12.5-15	173	2/9/2018	12:48 PM	12:51 PM	69.1	Sandy Clay (Brown)

CST : Central Standard Time

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SOIL SAMPLE FIELD SCREENING RESULTS
CONDUCTIVITY MEASUREMENTS
H.C. DREW MANUAL
CALCASIEU PARISH, LOUISIANA

SAMPLE I.D.	SAMPLE DEPTH (ft.)	FIELD SCREENING ACTUAL	DATE	TIME		TEMP °F	REMARKS
				SAMPLE (CST)	TEST (CST)		
B22-S1	0-2.5	72	2/9/2018	9:58 AM	10:01 AM	61.7	Stiff Clay (Brown)
B22-S2	2.5-5	50	2/9/2018	10:01 AM	10:05 AM	61.7	Silty Clay (Brown)
B22-S3	5-7.5	66	2/9/2018	10:05 AM	10:11 AM	61.7	Silty Clay (Greyish Brown)
B22-S4	7.5-10	94	2/9/2018	10:11 AM	10:13 AM	61.7	Sandy Clay (Grey)
B22-S5	10-12.5	124	2/9/2018	10:13 AM	10:16 AM	61.7	Sandy Clay (Grey)
B22-S6	12.5-15	126	2/9/2018	10:16 AM	10:22 AM	61.7	Silty Clay w/Sand (Orange)
B23-S1	0-2.5	132	2/9/2018	9:35 AM	9:40 AM	60.4	Stiff Clay (Brown)
B23-S2	2.5-5	83	2/9/2018	9:40 AM	9:43 AM	60.4	Silty Clay (Grey)
B23-S3	5-7.5	45	2/9/2018	9:43 AM	9:45 AM	60.5	Silty Clay (Grey)
B23-S4	7.5-10	58	2/9/2018	9:45 AM	9:48 AM	60.6	Sandy Clay (Greyish Brown)
B23-S5	10-12.5	68	2/9/2018	9:45 AM	9:53 AM	61.7	Sandy Clay (Orangish Grey)
B23-S6	12.5-10	103	2/9/2018	9:53 AM	9:56 AM	61.7	Sandy Clay (Orangish Grey)
B24-S1	0-2.5	83	2/8/2018	1:00 PM	1:05 PM	58.3	Stiff Clay (Brown)
B24-S2	2.5-5	43	2/8/2018	1:05 PM	1:10 PM	58.8	Stiff Clay (Brown)
B24-S3	5-7.5	66	2/8/2018	1:10 PM	1:15 PM	58.8	Silty Clay (Grey)
B24-S4	7.5-10	57	2/8/2018	1:15 PM	1:20 PM	58.8	Silty Clay (Grey)
B24-S5	10-12.5	87	2/8/2018	12:30 PM	12:35 PM	56.5	Silty Clay (Grey)
B24-S6	12.5-15	148	2/8/2018	12:35 PM	12:40 PM	56.5	Sandy Clay (Orange)
B25-S1	0-2.5	97	2/9/2018	9:05 AM	9:08 AM	59.2	Stiff Clay (Grey)
B25-S2	2.5-5	41	2/9/2018	9:08 AM	9:10 AM	59.7	Silty Clay (Tan)
B25-S3	5-7.5	38	2/9/2018	9:10 AM	9:14 AM	59.9	Silty Clay (Orangish Grey)
B25-S4	7.5-10	40	2/9/2018	9:14 AM	9:18 AM	59.9	Clay (Tan)
B25-S5	10-12.5	91	2/9/2018	9:18 AM	9:22 AM	59.9	Sandy Clay (Orangish/Grey)
B25-S6	12.5-15	71	2/9/2018	9:22 AM	9:26 AM	60.1	Silty Clay (Orange)
B26-S1	0-2.5	159	2/19/2018	10:05 AM	10:07 AM	75.5	Stiff Clay (Brown)
B26-S2	2.5-5	45	2/19/2018	10:11 AM	10:10 AM	75.5	Silty Clay (Greyish Brown)
B26-S3	5-7.5	97	2/19/2018	10:16 AM	10:18 AM	75.5	Silty Clay (Grey)
B26-S4	7.5-10	100	2/19/2018	10:22 AM	10:21 AM	75.6	Silty Clay (Brownish Grey)
B26-S5	10-12.5	213	2/19/2018	10:27 AM	10:28 AM	75.8	Silty Clay w/Sand (Brown)
B26-S6	12.5-15	259	2/19/2018	10:30 AM	10:35 AM	76.1	Sandy Clay (Orangish Brown)
B26-S7	15-18	82	2/19/2018	10:35 AM	10:40 AM	76.1	Sandy Clay (Orangish Grey)
B27-S1	0-2.5	210	2/8/2018	1:30 PM	1:35 PM	59.4	Stiff Clay (Brown)
B27-S2	2.5-5	91	2/8/2018	1:35 PM	1:40 PM	59.4	Stiff Clay (Brown)
B27-S3	5-7.5	63	2/8/2018	1:40 PM	1:45 PM	59.4	Silty Clay (Brown)
B27-S4	7.5-10	149	2/8/2018	1:45 PM	1:50 PM	60.3	Silty Clay (Brown)
B27-S5	10-12.5	136	2/8/2018	1:50 PM	1:55 PM	60.3	Silty Clay (Orange)
B27-S6	12.5-15	144	2/8/2018	1:55 PM	2:00 PM	60.3	Sandy Clay (Brown)

CST : Central Standard Time

TABLE 1
SOIL SAMPLE FIELD SCREENING RESULTS
CONDUCTIVITY MEASUREMENTS
H.C. DREW MANUAL
CALCASIEU PARISH, LOUISIANA

SAMPLE I.D.	SAMPLE DEPTH (ft.)	FIELD SCREENING ACTUAL	DATE	TIME		TEMP °F	REMARKS
				SAMPLE (CST)	TEST (CST)		
B28-S1	0-2.5	90	2/8/2018	2:35 PM	2:40 PM	61.7	Stiff Clay (Brown)
B28-S2	2.5-5	88	2/8/2018	2:40 PM	2:45 PM	61.7	Clay (Grey)
B28-S3	5-7.5	109	2/8/2018	2:45 PM	2:50 PM	61.7	Silty Clay (Orangish Grey)
B28-S4	7.5-10	100	2/8/2018	2:50 PM	2:55 PM	61.7	Sandy Clay (Orange)
B28-S5	10-12.5	81	2/8/2018	2:55 PM	3:00 PM	61.7	Sandy Clay (Orange)
B28-S6	12.5-15	123	2/8/2018	3:00 PM	3:05 PM	61.9	Clayey Sand (Grey)
B29-S1	0-2.5	120	2/19/2018	9:23 AM	9:25 AM	73.4	Silty Clay (Brown)
B29-S2	2.5-5	83	2/19/2018	9:28 AM	9:29 AM	73.5	Silty Clay (Brown)
B29-S3	5-7.5	132	2/19/2018	9:38 AM	9:35 AM	73.6	Silty Clay (Grey)
B29-S4	7.5-10	97	2/19/2018	9:40 AM	9:39 AM	74.1	Silty Clay w/Sand (Grey)
B29-S5	10-12.5	95	2/19/2018	9:47 AM	9:50 AM	75.2	Silty Clay w/Sand (Brown)
B29-S6	12.5-15	77	2/19/2018	9:52 AM	9:53 AM	75.3	Silty Clay w/Sand (Brown)
B29-S7	15-18	169	2/19/2018	9:58 AM	10:01 AM	75.4	Silty Clay w/Sand (Brown)
B30-S1	0-2.5	116	2/8/2018	4:30 PM	4:35 PM	61.5	Stiff Clay ((Brown)
B30-S2	2.5-5	50	2/8/2018	4:35 PM	4:40 PM	61.5	Stiff Clay (Brown)
B30-S3	5-7.5	85	2/8/2018	4:40 PM	4:45 PM	61.5	Silty Clay (Greyish Brown)
B30-S4	7.5-10	91	2/8/2018	4:45 PM	4:50 PM	61.3	Silty Clay (Orangish Brown)
B30-S5	10-12.5	66	2/8/2018	4:50 PM	4:55 PM	61.3	Silty Clay (Brown)
B30-S6	12.5-15	146	2/8/2018	4:55 PM	5:00 PM	61.3	Silty Clay w/Wet Sand (Brown)
B31-S1	0-2.5	97	2/8/2018	4:10 PM	4:13 PM	62.4	Stiff Clay (Brown)
B31-S2	2.5-5	100	2/8/2018	4:13 PM	4:15 PM	62.4	Stiff Clay (Brown)
B31-S3	5-7.5	85	2/8/2018	4:15 PM	4:18 PM	62.4	Silty Clay (Grey)
B31-S4	7.5-10	35	2/8/2018	4:18 PM	4:20 PM	62.4	Silty Clay (Orangish Grey)
B31-S5	10-12.5	50	2/8/2018	4:20 PM	4:25 PM	62.4	Silty Clay (Orangish Brown)
B31-S6	12.5-15	97	2/8/2018	4:25 PM	4:30 PM	61.5	Silty Slay w/Sand (Orange)

CST : Central Standard Time

MAIL ORIGINAL TO:
Louisiana Dept. of Natural Resources
Attn: Ground Water Resources
P.O. Box 94275
Baton Rouge, LA 70804-9275
(225) 342-8244 Ph.
(225) 242-3505 Fax

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION, ENVIRONMENTAL DIVISION
WATER WELL REGISTRATION SHORT FORM (DNR-GW-1S)

ONLINE ACCESS:
1) Go to <http://sonris.com/>
2) Click on **Data Access** in the left hand panel.
3) Under the section labeled **Conservation**, click on **Ground Water Information**.

1. **USE OF WELL** (Check appropriate box):
- Domestic Rig Supply Monitoring
 Piezometer Heat Pump Hole Heat Pump Supply
 Recovery Relief Abandoned Pilot Hole
 Other (please specify) _____

2. **WELL OWNER:** NEUMIN PRODUCTION COMPANY
Phone: (361) 987-8920

3. **WELL OWNER'S ADDRESS:** PO BOX 769
POINT COMFORT, TX 77978

4. **OWNER'S WELL NUMBER OR NAME:** TW #3

Serial Number (Rig Supply Only): N/A

5. **WELL INFORMATION:**
Date completed: 12/01/16
Depth of Hole: 15 ft. below ground surface
Depth of Well: 15 ft.
Static water level: * ft. below ground surface
Date Measured: 12/01/16

Casing: 3/4 in. Metal Plastic Other Length: 10 ft.
Screen: 3/4 in. Metal Plastic Other Slot size: .010 in.
Length: 10 ft. Cemented from: 10 ft. to ground surface
Using: Pump down Method Gravity Method

6. **LOCATION OF WELL:**
Latitude: 30 ° 11 ' 35 " Longitude: 93 ° 28 ' 39.3 "
Parish: CALCASIEU
Physical Address: N/A
Well is Near, Vinton, LA Approximately 2 miles from (Crossroads, Railroad, any Landmark, etc.) NE of Fabacher Rd and Gum Island Rd Int.

(Attach a map or sketch or registered plat if Rig Supply to registration)

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY													
SECTION		TOWNSHIP			RANGE		ELEVATION		QUAD NO.				
1	5	1	0	S	1	1	W	1	5	1	7	7	A

7. **REMARKS:** *UNABLE TO BE DETERMINED

8. **DRILLER'S LOG:**
(Description and color of cuttings, such as shale, sand, etc. in feet below ground surface)

FROM	TO	DESCRIPTION
0	6	GRAY & TAN CLAY
6	8	GRAY TAN SILTY CLAY
8	12	GRAY CLAY
12	15	SANDY CLAYEY SILT

9. **FOR HEAT PUMP ONLY:** Avg. Depth: _____ ft. # of Holes: _____
10. **DOES THE NEW WELL REPLACE AN EXISTING WELL?** Yes No
If yes, has owner been informed of state regulations requiring plugging of abandoned wells? Yes No
11. **NAME OF PERSON WHO DRILLED THE WELL:** Trevella Lee

*I certify that this work was done and completed in accordance with Rules and Regulations of the State of Louisiana, including Chapter XII of Title 51, Public Health – Sanitary Code, if applicable, on: 12/01/16 (Date) by: ACADIAN ENGINEERS (Name of Water Well Contractor), License No. WWC- 444
Authorized Signature: _____ Date: _____*

FOR OFFICE USE ONLY

PARISH	WELL NO.	GEOLOGIC UNIT	
LATITUDE	LONGITUDE	SECTION	
TOWNSHIP	RANGE	ELEVATION	QUAD NO.
REGISTERED BY: _____	DATE: _____		
INSPECTED BY: _____	DATE: _____		
REMARKS: _____			

MAIL ORIGINAL TO:
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Attn: Ground Water Resources
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Baton Rouge, LA 70804-9275
(225) 342-8244 Ph.
(225) 242-3505 Fax

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION, ENVIRONMENTAL DIVISION
WATER WELL REGISTRATION SHORT FORM (DNR-GW-1S)

ONLINE ACCESS:
1) Go to <http://sonris.com/>
2) Click on **Data Access** in the left hand panel.
3) Under the section labeled **Conservation**, click on **Ground Water Information**.

1. **USE OF WELL** (Check appropriate box):
 Domestic Rig Supply Monitoring
 Piezometer Heat Pump Hole Heat Pump Supply
 Recovery Relief Abandoned Pilot Hole
 Other (please specify) _____

2. **WELL OWNER:** NEUMIN PRODUCTION COMPANY
Phone: (361) 987-8920

3. **WELL OWNER'S ADDRESS:** PO BOX 769
POINT COMFORT, TX 77978

4. **OWNER'S WELL NUMBER OR NAME:** TW #4

Serial Number (Rig Supply Only): N/A

5. **WELL INFORMATION:**
Date completed: 12/01/16
Depth of Hole: 15 ft. below ground surface
Depth of Well: 15 ft.
Static water level: * ft. below ground surface
Date Measured: 12/01/16

Casing: 3/4 in. Metal Plastic Other Length: 10 ft.
Screen: 3/4 in. Metal Plastic Other Slot size: .010 in.
Length: 10 ft. Cemented from: 10 ft. to ground surface
Using: Pump down Method Gravity Method

6. **LOCATION OF WELL:**
Latitude: 30 ° 11 ' 33.9 " Longitude: 93 ° 28 ' 38.7 "
Parish: CALCASIEU
Physical Address: N/A
Well is Near, Vinton, LA Approximately 2 miles from (Crossroads, Railroad, any Landmark, etc.) NE of Fabacher Rd and Gum Island Rd
Intersection

(Attach a map or sketch or registered plat if Rig Supply to registration)

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY				
SECTION	TOWNSHIP	RANGE	ELEVATION	QUAD NO.
1 5	1 0 S	1 1 W	1 3	1 7 7 A

7. **REMARKS:** *UNABLE TO BE DETERMINED

8. **DRILLER'S LOG:**
(Description and color of cuttings, such as shale, sand, etc. in feet below ground surface)

FROM	TO	DESCRIPTION
0	6	GRAY & TAN CLAY
6	8	GRAY TAN SILTY CLAY
8	12	GRAY CLAY
12	15	SANDY CLAYEY SILT

9. **FOR HEAT PUMP ONLY:** Avg. Depth: _____ ft. # of Holes: _____
10. **DOES THE NEW WELL REPLACE AN EXISTING WELL?** Yes No
If yes, has owner been informed of state regulations requiring plugging of abandoned wells? Yes No
11. **NAME OF PERSON WHO DRILLED THE WELL:** Trevella Lee

*I certify that this work was done and completed in accordance with Rules and Regulations of the State of Louisiana, including Chapter XII of Title 51, Public Health – Sanitary Code, if applicable, on: 12/01/16 (Date) by: ACADIAN ENGINEERS (Name of Water Well Contractor), License No. WWC- 444
Authorized Signature: _____ **Date:** _____*

FOR OFFICE USE ONLY

PARISH	WELL NO.	GEOLOGIC UNIT	
LATITUDE	LONGITUDE	SECTION	
TOWNSHIP	RANGE	ELEVATION	QUAD NO.
REGISTERED BY:	DATE:		
INSPECTED BY:	DATE:		
REMARKS:			

MAIL ORIGINAL TO:

Louisiana Dept. of Natural Resources
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION, ENVIRONMENTAL DIVISION
WATER WELL REGISTRATION SHORT FORM (DNR-GW-1S)

ONLINE ACCESS:

- 1) Go to <http://sonris.com/>
- 2) Click on **Data Access** in the left hand panel.
- 3) Under the section labeled **Conservation**, click on **Ground Water Information**.

1. USE OF WELL (Check appropriate box):

- Domestic Rig Supply Monitoring
 Piezometer Heat Pump Hole Heat Pump Supply
 Recovery Relief Abandoned Pilot Hole
 Other (please specify) _____

2. WELL OWNER: NEUMIN PRODUCTION COMPANY

Phone: (361) 987-8920

3. WELL OWNER'S ADDRESS: PO BOX 769

POINT COMFORT, TX 77978

4. OWNER'S WELL NUMBER OR NAME: TW #5

Serial Number (Rig Supply Only): N/A

5. WELL INFORMATION:

Date completed: 12/01/16
Depth of Hole: 15 ft. below ground surface
Depth of Well: 15 ft.
Static water level: * ft. below ground surface
Date Measured: 12/01/16
Casing: 3/4 in. Metal Plastic Other Length: 10 ft.
Screen: 3/4 in. Metal Plastic Other Slot size: .010 in.
Length: 10 ft. Cemented from: 10 ft. to ground surface
Using: Pump down Method Gravity Method

6. LOCATION OF WELL:

Latitude: 30 ° 11 ' 34.9 " Longitude: 93 ° 28 ' 38.1 "

Parish: CALCASIEU

Physical Address: N/A

Well is Near, Vinton, LA Approximately 2 miles from (Crossroads, Railroad, any Landmark, etc.) NE of Fabacher Rd and Gum Island Rd

Intersection _____

(Attach a map or sketch or registered plat if Rig Supply to registration)

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY				
SECTION	TOWNSHIP	RANGE	ELEVATION	QUAD NO.
1 5	1 0 S	1 1 W	1 3	1 7 7 A

7. REMARKS: *UNABLE TO BE DETERMINED

8. DRILLER'S LOG:

(Description and color of cuttings, such as shale, sand, etc. in feet below ground surface)

FROM	TO	DESCRIPTION
0	6	GRAY & TAN CLAY
6	8	GRAY TAN SILTY CLAY
8	12	GRAY CLAY
12	15	SANDY CLAYEY SILT

9. FOR HEAT PUMP ONLY: Avg. Depth: _____ ft. # of Holes: _____

10. DOES THE NEW WELL REPLACE AN EXISTING WELL? Yes No
If yes, has owner been informed of state regulations requiring plugging of abandoned wells? Yes No

11. NAME OF PERSON WHO DRILLED THE WELL: Trevella Lee

I certify that this work was done and completed in accordance with Rules and Regulations of the State of Louisiana, including Chapter XII of Title 51, Public Health – Sanitary Code, if applicable, on: 12/01/16 (Date)

by: ACADIAN ENGINEERS (Name of Water Well Contractor), License No. WWC- 444

Authorized Signature: _____ **Date:** _____

FOR OFFICE USE ONLY

PARISH	WELL NO.	GEOLOGIC UNIT	
LATITUDE	LONGITUDE	SECTION	
TOWNSHIP	RANGE	ELEVATION	QUAD NO.

REGISTERED BY: _____ DATE: _____
INSPECTED BY: _____ DATE: _____
REMARKS: _____

MAIL ORIGINAL TO:
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Attn: Ground Water Resources
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES

OFFICE OF CONSERVATION, ENVIRONMENTAL DIVISION

WATER WELL REGISTRATION SHORT FORM (DNR-GW-1S)

ONLINE ACCESS:
1) Go to <http://sonris.com/>
2) Click on **Data Access** in the left hand panel.
3) Under the section labeled **Conservation**, click on **Ground Water Information**.

1. **USE OF WELL** (Check appropriate box):
 Domestic Rig Supply Monitoring
 Piezometer Heat Pump Hole Heat Pump Supply
 Recovery Relief Abandoned Pilot Hole
 Other (please specify) _____
2. **WELL OWNER:** NEUMIN PRODUCTION COMPANY
Phone: (361) 649-5927
3. **WELL OWNER'S ADDRESS:** PO BOX 769
POINT COMFORT, TX 77978-0769
4. **OWNER'S WELL NUMBER OR NAME:** TW #6
Serial Number (Rig Supply Only): N/A
5. **WELL INFORMATION:**
Date completed: 02/08/18
Depth of Hole: 20 ft. below ground surface
Depth of Well: 20 ft.
Static water level: 6 ft. below ground surface
Date Measured: 02/08/18
Casing: 2 in. Metal Plastic Other Length: 10 ft.
Screen: 2 in. Metal Plastic Other Slot size: .010 in.
Length: 20 ft. Cemented from: 10 ft. to ground surface
Using: Pump down Method Gravity Method
6. **LOCATION OF WELL:**
Latitude: 30 ° 11 ' 43.38 " Longitude: 93 ° 28 ' 44.61 "
Parish: CALCASIEU
Physical Address: N/A
Well is Near VINTON, LA _____ miles from (Crossroads, Railroad, any Landmark, etc.) NE OF FABACHER RD & GUM ISLAND ROAD INTERSECTION

8. **DRILLER'S LOG:**
(Description and color of cuttings, such as shale, sand, etc. in feet below ground surface)
- | FROM | TO | DESCRIPTION |
|------|----|--------------------------------|
| 0 | 10 | Brown Silty Clay |
| 10 | 20 | Grey & Brown Silty Clay w/Sand |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| | | |
9. **FOR HEAT PUMP ONLY:** Avg. Depth: N/A ft. # of Holes: N/A
10. **DOES THE NEW WELL REPLACE AN EXISTING WELL?** Yes No
If yes, has owner been informed of state regulations requiring plugging of abandoned wells? Yes No
11. **NAME OF PERSON WHO DRILLED THE WELL:** Trevella Lee

I certify that this work was done and completed in accordance with Rules and Regulations of the State of Louisiana, including Chapter XII of Title 51, Public Health – Sanitary Code, if applicable, on: 02/08/18 (Date) by: ACADIAN ENGINEERS (Name of Water Well Contractor), License No. WWC- 444
Authorized Signature: _____ Date: 02/26/18

(Attach a map or sketch or registered plat if Rig Supply to registration)

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY																
SECTION			TOWNSHIP			RANGE			ELEVATION			QUAD NO.				
0	1	5	1	0	S	1	1	W	0	0	1	3	1	7	7	A

7. **REMARKS:** WELL DRILLED BY SUBCONTRACTOR DEVONIAN GROUP, 148-C EASY ST., LAFAYETTE, LA (WWC-680)

FOR OFFICE USE ONLY	PARISH: _____	WELL NO.: _____	GEOLOGIC UNIT: _____	
	LATITUDE: _____	LONGITUDE: _____	SECTION: _____	
	TOWNSHIP: _____	RANGE: _____	ELEVATION: _____	QUAD NO.: _____
	REGISTERED BY: _____	DATE: _____	INSPECTED BY: _____	DATE: _____