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):	6. LOCATION OF WELL:
	☐ Domestic ☐ Rig Supply ☑ Monitoring	Latitude: 30 ° 11 ′ 36 ″ Longitude: 93 ° 28 ′ 38 ″
	☐ Piezometer ☐ Heat Pump Hole ☐ Heat Pump Supply	
	☐ Recovery ☐ Relief ☐ Abandoned Pilot Hole	Parish: Calcasieu
	Other (please specify)	
	" " "	Physical Address: Gum Island Road
2.	WELL OWNER: Neumin Production Company (c/o ERM)	
	Phone: (504) 831-6700	
		Well is Near, Sulphur Approximately 1.65 miles from
		(Crossroads, Railroad, any Landmark, etc.) From the intersection of
3.	WELL OWNER'S ADDRESS: 3838 N Causeway Blvd, Ste 3000	Gum Island Road and Fabacher Road
	Metairie, LA 70002	
		(Attach a map or sketch or registered plat if Rig Supply to registration)
		(Actually in the or sketch of registered plut if hig supply to registration)
4.	OWNER'S WELL NUMBER OR NAME: MW-1	
		FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
	Serial Number (Rig Supply Only):	SECTION TOWNSHIP RANGE ELEVATION QUAD NO.
		0 1 5 1 0 8 1 1 W
5.	WELL INFORMATION:	
	Date completed: 9/9/2021	
	Depth of Hole: 16 ft. below ground surface  Depth of Well: 13 ft.	7. REMARKS:
	Static water level: 1.65 ft. below ground surface	
	Date Measured: 9/10/2021	
	Casing: 1 in. ☐ Metal ☑ Plastic ☐ Other Length: 8 ft.	
	Screen: 1 in. ☐ Metal ☑ Plastic ☐ Other Slot size: .010 in.	
	Length: 5 ft. Cemented from: 3 ft. to ground surface	

Using: **☑** Pump down Method ☐ Gravity Method

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

FROM	ТО	DESCRIPTION
		See Attached

9. FOR HEAT PUMP ONLY: Avg. Depth:ft. # of Hole:
10. <b>DOES THE NEW WELL REPLACE AN EXISTING WELL</b> ? □Yes ☑No If <b>yes</b> , has owner been informed of state regulations requiring plugging of abandoned wells? □Yes □No
11. NAME OF PERSON WHO DRILLED THE WELL: Bronson Depril
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: 9/9/2021 (Date) by: Walker-Hill Environmental, Inc (Name of Water Well Contractor),  License No. WWC-574
I further acknowledge and agree that by typing my name or placing my mark in the signature space on this document it is my intention to electronically sign the document. Further, the electronic signature shall be considered as an original signature for all purposes and shall have the same force and effect as an original signature. Without limitation, "electronic signature" shall include faxed versions of an original signature or electronically scanned an transmitted versions (e.g., via pdf) of an original signature.
Authorized Signature:
Date:

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### Environmental Resources Management

			Manual Esta				Project No.: 0494259
Location:			Parish, Lous	siana		401	Coordinates: UTM 15N 454053.78, 3340330.6
Surface Elev.:		11.86'	1 .		Boring T.D.		Boring Dia.: 3.25"
Date St	tarted:	9/7/2021 Date Comple			ted: _9	/7/2021	Well Dia./Materials:1" Prepack PVC
Drilling	Company	: Wall	ker-Hill Envi	ronmental		Drille	er:Jacob Stocksdale
Drilling	Method:		Push Geopr				Grouting Method: Portland Cement
Logged	by: _	Micha	el Goodmai	n, GIT		Soil	Sample Method: Acetate Liner
DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	WELL CONSTRUCTION	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	PID (PPMV)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0 —			2.2/4.0	Top: 0.19 Bottom: 0.71	0-2: 0.1 2-4: 0.0	0-4	0-2.2': CLAY: (7.5YR 4/2), medium to soft, dry, plastic, no odor 2.2-4': NO RECOVERY
5 — —			2.8/4.0	Top: 1.09 Bottom: 0.77	4-6: 0.0 6-8: 0.1	4-8	4-4.6': CLAY: soft, damp, carry down slop 4.6-5.2': CLAY: Brown (10YR 5/3), medium, dry, no odor 5.2-6.8': CLAYEY SILT: Light brownish gray (10YR 6/2), stiff, dry, no odor 6.8-8': NO RECOVERY
10 —			4.0/4.0	Top: 0.77 Middle: 0.27 Bottom: 1.16	8-10: 0.1 10-12: 0.1	8-12	8-8.9': SILTY CLAY: Pale brown (10YR 6/3) medium, no odor 8.9-9.4': SILT: Pale brown (10YR 6/3) loose, wet, no odor 9.4-10.1': SILTY SAND: Brownish yellow (10YR 6/6), loose, wet, no odor, very fine grain sand 10.1-12': CLAY: Light yellowish brown (10YR 6/4), medium, dry, no odor, wet silt at 10.6-10.7
- - 15 -			4.0/4.0	Top: 1.66 Middle: 1.26 Bottom: 1.55	12-14: 0.1 14-16: 0.1	12-16	12-16': CLAY: Pale brown (10YR 6/3), medium to soft, moist, no odor, orange mottling
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#### **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):	6.	LOCATION OF WELL:
	☐ Domestic ☐ Rig Supply ☑ Monitoring		Latitude: 30 ° 11 ′ 32 ″ Longitude: 93 ° 28 ′ 40 ″
	☐ Piezometer ☐ Heat Pump Hole ☐ Heat Pump Supply		
	☐ Recovery ☐ Relief ☐ Abandoned Pilot Hole		Parish: Calcasieu
	$\square$ Other (please specify)		
			Physical Address: Gum Island Road
2.	WELL OWNER: Neumin Production Company (c/o ERM)		
	Phone: <u>(</u> 504 <u>)</u> 831-6700		
			Well is Near, Sulphur Approximately 1.65 miles from
			(Crossroads, Railroad, any Landmark, etc.) From the intersection of
3.	WELL OWNER'S ADDRESS: 3838 N Causeway Blvd, Ste 3000		Gum Island Road and Fabacher Road
	Metairie, LA 70002		
			(Attach a map or sketch or registered plat if Rig Supply to registration)
			( , , , , , , , , , , , , ,
4.	OWNER'S WELL NUMBER OR NAME: MW-2		
		Г	FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
		-	
	Serial Number (Rig Supply Only):		
			0 1 5 1 0 8 1 1 W
5.	WELL INFORMATION:	_	
	Date completed: <u>9/9/2021</u>		
	Depth of Hole: 16ft. below ground surface	7	DEMARKS.
	Depth of Well: 13 ft.	7.	REMARKS:
	Static water level: 2.76 ft. below ground surface		
	Date Measured: 9/10/2021		
	Casing: $\underline{1}$ in. $\square$ Metal $\square$ Plastic $\square$ Other Length: $\underline{8}$ ft.		
	Screen: $\underline{1}$ in. $\square$ Metal $\square$ Plastic $\square$ Other Slot size: $\underline{.010}$ in.		
	Length: 5 ft. Cemented from: 3 ft. to ground surface		
	Using: ☑ Pump down Method ☐ Gravity Method		

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

FROM	ТО	DESCRIPTION
		See Attached

9. FOR HEAT PUMP ONLY: Avg. Depth:ft. # of Hole:
10. <b>DOES THE NEW WELL REPLACE AN EXISTING WELL</b> ? □Yes ☑No If <b>yes</b> , has owner been informed of state regulations requiring plugging of abandoned wells? □Yes □No
11. NAME OF PERSON WHO DRILLED THE WELL: Bronson Depril
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: 9/9/2021 (Date) by: Walker-Hill Environmental, Inc (Name of Water Well Contractor),  License No. WWC-574
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Authorized Signature:
Date:

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## **ERM** Environmental Resources Management

Project:		HC Drew N	/lanual Esta	te 15 No. 1			Pro	ject No.:	0494259
Locatio	n:	Calcasieu l	Parish, Lous	siana			Cod	ordinates:	UTM 15N 453984.58, 3340198.0
Surface	Elev.:	12.02'			Boring T.D.	16'	Boring Dia	a.:3	.25"
Date St	arted:	9/7/202	1	Date Complet	ted:9	/7/2021	Well Dia./Materials:	1" Pr	repack PVC
Drilling	Company	: Wal	ker-Hill Env	ironmental		Drille	er:Jacob Stocksdale		
Drilling	Method:	Direct	Push Geopi	obe			Grouting Method	: <u> </u>	Portland Cement
Logged	by:	Micha	el Goodma	n, GIT		Soil	Sample Method: Ace	tate Liner	
DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	WELL	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	PID (PPMV)	DESCRIPTION INTERVAL (FEET)	;	SOIL DESC	CRIPTION
0 —			3.7/4.0	Top: 1.10 Middle: 1.15 Bottom: 1.45	0-2: 0.1 2-4: 0.1	0-4	no odor		wn (10YR 3/2), medium, dry, plastic, y, plastic, orange and yellow mottling,
5 —			4.0/4.0	Top: 1.32 Middle: 1.37 Bottom: 1.57	4-6: 0.1 6-8: 0.2	4-8	odor, yellow mottling, very lit	tle Mn nodu	
- 10 -			4.0/4.0	Top: 0.82 Middle: 0.15 Bottom: 0.57	8-10: 0.1 10-12: 0.1	8-12		vnish yellov	th gray (10YR 5/6), soft, damp, no odor v (10YR 6/6), loose, wet, no odor R 6/3), stiff, damp, no odor
_ _ _ 15 —			4.0/4.0	Top: 1.24 Middle: 1.25 Bottom: 1.77	12-14: 0.1 14-16: 0.0	12-16	12-16': SILTY CLAY: Brown ( plastic, poorly sorted, some		soft with some stiff zones, damp, CO3 nodules at 13.2'
20 — — 25 — — 30 —									

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- 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):	6. LOCATION OF WELL:
	□ Domestic □ Rig Supply ☑ Monitoring	Latitude: <u>30 ° 11 ′ 31 </u> " Longitude: <u>93 ° 28 ′ 37 </u> "
	☐ Piezometer ☐ Heat Pump Hole ☐ Heat Pump Supply	<u> </u>
	☐ Recovery ☐ Relief ☐ Abandoned Pilot Hole	Parish: Calcasieu
	☐ Other (please specify)	
		Physical Address: Gum Island Road
2.	WELL OWNER: Neumin Production Company (c/o ERM)	
	Phone: (504 ) 831-6700	
		Well is Near, Sulphur Approximately 1.65 miles from
		(Crossroads, Railroad, any Landmark, etc.) From the intersection of
3.	WELL OWNER'S ADDRESS: 3838 N Causeway Blvd, Ste 3000	Gum Island Road and Fabacher Road
	Metairie, LA 70002	
		(Attacks and a state of the state of the 180° C and the state of the s
		(Attach a map or sketch or registered plat if Rig Supply to registration)
4.	OWNER'S WELL NUMBER OR NAME: MW-3	
		FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
	Serial Number (Rig Supply Only):	SECTION TOWNSHIP RANGE ELEVATION QUAD NO.
5.	WELL INFORMATION:	
	Date completed: 9/9/2021	
	Depth of Hole: 16ft. below ground surfaceft.	7. REMARKS:
	Static water level: 2.15 ft. below ground surface	
	Date Measured: 9/10/2021	
	Casing: 1 in. ☐ Metal ☑ Plastic ☐ Other Length: 8 ft.	
	Screen: 1 in. □ Metal ☑ Plastic □ Other Slot size: .010 in.	
	Length: 5 ft. Cemented from: 3 ft. to ground surface	

Using: **☑** Pump down Method ☐ Gravity Method

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

FROM	ТО	DESCRIPTION
		See Attached

9. FOR HEAT PUMP ONLY: Avg. Depth:ft. # of Hole:
10. <b>DOES THE NEW WELL REPLACE AN EXISTING WELL</b> ? □Yes ☑No If <b>yes</b> , has owner been informed of state regulations requiring plugging of abandoned wells? □Yes □No
11. NAME OF PERSON WHO DRILLED THE WELL: Bronson Depril
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: 9/9/2021 (Date) by: Walker-Hill Environmental, Inc (Name of Water Well Contractor),  License No. WWC-574
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Authorized Signature: 547
Date:

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## **ERM** Environmental Resources Management

Project:	<u> </u>	HC Drew N	Manual Esta	te 15 No. 1			Project No.: 0494259
Location: Calcasieu Parish, Lousiana					Coordinates: UTM 15N 454076.85, 3340181.2		
Surface Elev.:         12.03'         Boring T.D.:         16'         Boring T.D.:					Boring Dia.:3.25"		
Date Started: 9/7/2021				0/7/0004			Well Dia./Materials: 1" Prepack PVC
Drilling	Compan	y: Wal	ker-Hill Env	ironmental		Drill	ler: Jacob Stocksdale
Drilling	Method:	Direct	Push Geop	robe			Grouting Method: Portland Cement
Logged	by: _	Micha	ael Goodma	n, GIT		Soil	Sample Method: Acetate Liner
DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	WELL	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	PID (PPMV)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0 -			2.7/4.0	Top: 0.74 Bottom: 1.50	0-2: 0.1 2-4: 0.0	0-4	0-1.6': CLAY: Very dark gray (10YR 3/1), medium, dry, no odor  1.6-2.7': CLAY: Pale brown (10YR 6/3), medium, dry, yellow mottling, mixed with gray organic material, slight odor 2.7-4': NO RECOVERY
5 — — —	10	3.7/4.0	Top: 1.51 Middle: 1.41 Bottom: 0.77	4-6: 0.0 6-8: 0.0	4-8	4-4.9': CLAY: Light grayish brown (10YR 6/2), medium, dry, no odor 4.9-5.6': SILTY CLAY: Light grayish brown (10YR 6/2), medium, dry, no odor 5.6-6': CLAY: Light grayish brown (10YR 6/2), medium, dry, no odor 6-7.7': SILTY CLAY: Light grayish brown (10YR 6/2), medium, dry, no odor 7.7-8': NO RECOVERY	
10 — —		4.0/4.0	Top: 1.10 Middle: 0.14 Bottom: 0.65	8-10: 0.0 10-12: 0.0	8-12	8-9.3': SILTY CLAY: Pale brown (10YR 6/3), stiff, dry, no odor 9.3-11.3': SILTY SAND: Pale brown (10YR 6/3), loose, wet, no odor 11.3-12': SILTY CLAY: Pale brown (10YR 6/3), medium, damp, no odor, Mn staining, orange mottling	
- 15 -			4.0/4.0	Top: 0.90 Middle: 1.04 Bottom: 0.96	12-14: 0.0 14-16: 0.0	12-16	12-16': SILTY CLAY: Pale brown (10YR 6/3), alternating soft and stiff, damp, poorly sorted, no odor
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Conservation, click on Ground Water Information.

1.	USE OF WELL (Check appropriate box):	6. LOCATION OF WELL:
	☐ Domestic ☐ Rig Supply ☑ Monitoring	Latitude: 30 ° 11 ′ 33 ″ Longitude: 93 ° 28 ′ 38 ″
	☐ Piezometer ☐ Heat Pump Hole ☐ Heat Pump Supply	
	☐ Recovery ☐ Relief ☐ Abandoned Pilot Hole	Parish: Calcasieu
	□ Other (please specify)	
	"	Physical Address: Gum Island Road
2.	WELL OWNER: Neumin Production Company (c/o ERM)	
	Phone: (504 ) 831-6700	
		Well is Near, Sulphur Approximately 1.65 miles from
		(Crossroads, Railroad, any Landmark, etc.) From the intersection of
3.	WELL OWNER'S ADDRESS: 3838 N Causeway Blvd, Ste 3000	Gum Island Road and Fabacher Road
	Metairie, LA 70002	
		(Attach a map or sketch or registered plat if Rig Supply to registration)
		(Actually a map of sketch of registered placifying supply to registration)
4.	OWNER'S WELL NUMBER OR NAME: MW-4	
		FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
	Serial Number (Rig Supply Only):	SECTION TOWNSHIP RANGE ELEVATION QUAD NO.
		0 1 5 1 0 8 1 1 W
5.	WELL INFORMATION:	
	Date completed: 9/9/2021	
	Depth of Hole: 16ft. below ground surface  Depth of Well: 14ft.	7. <b>REMARKS</b> :
	Static water level: 2.88 ft. below ground surface	
	Date Measured: 9/10/2021	
	Casing: 1 in. ☐ Metal ☑ Plastic ☐ Other Length: 9 ft.	
	Screen: 1 in. □ Metal ☑ Plastic □ Other Slot size: .010 in.	
	Length: 5 ft. Cemented from: 4 ft. to ground surface	

Using: **☑** Pump down Method ☐ Gravity Method

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

FROM	ТО	DESCRIPTION
		See Attached

9. FOR HEAT PUMP ONLY: Avg. Depth:ft. # of Hole:
10. <b>DOES THE NEW WELL REPLACE AN EXISTING WELL</b> ? □Yes ☑No If <b>yes</b> , has owner been informed of state regulations requiring plugging of abandoned wells? □Yes □No
11. NAME OF PERSON WHO DRILLED THE WELL: Bronson Depril
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Authorized Signature: 547
Date:

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### Environmental Resources Management

Project:	-		Manual Esta				Project No.: 0494259
Locatio			Parish, Lous	siana		401	Coordinates: UTM 15N 454047.49, 3340237.8
Surface		12.67'	4		Boring T.D.		Boring Dia.: 3.25"
Date St	arted:	9/8/202	1	Date Complet	ted:9	/8/2021	Well Dia./Materials: 1" Prepack PVC
Drilling	Company	r: Wal	ker-Hill Envi	ronmental		Drille	er:Jacob Stocksdale
Drilling Method: Direct Push Geoprobe				robe			Grouting Method: Portland Cement
Logged by: Michael Goodman, GIT				n, GIT		Soil	Sample Method: Acetate Liner
ОЕРТН (FEET)	LITHOLOGY (GRAPHIC LOG)	WELL	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	PID (PPMV)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0 —	0000		3.1/4.0	Top: 0.73 Bottom: 1.59	0-2: 0.0 2-4: 0.0	0-4	0-0.7': GRAVEL: 0.7-3.1': CLAY: Very dark brown (10YR 2/2), stiff, dry, plastic, no odor, transitio to 10YR 5/3 at bottom with yellow mottling 3.1-4': NO RECOVERY
5 — —			4.0/4.0	Top: 1.36 Middle: 1.32 Bottom: 1.11	4-6: 0.0 6-8: 0.0	4-8	4-8': CLAY: Grayish brown (10YR 5/2), stiff, dry, plastic, no odor, yellow mottlin
_ _ 10 — _			4.0/4.0	Top: 0.31 Middle: 0.38 Bottom: 1.12	8-10: 0.0 10-12: 0.0	8-12	8-9.2': SILTY CLAY: Brown (10YR 5/3), stiff, dry, no odor 9.2-9.5': SILTY CLAY: Dark gray (10YR 4/1), very soft, slight odor 9.5-10.1': CLAYEY SILT: Brown (10YR 5/3), stiff, packed damp, no odor 10.1-11.5': SANDY SILT: Yellowish brown (10YR 5/6), firm, wet, no odor 11.5-12': CLAYEY SILT: Light yellowish brown (10YR 6/4), moist, no odor, with sand
15		3.7/4.0	Top: 1.55 Middle: 2.06 Bottom: 1.78	12-14: 0.0 14-16: 0.0	12-16	12-16': SILTY CLAY: Pale brown (10YR 6/3), medium to stiff, moist, no odor, poorly sorted, $CaCO_3$ nodules at 14'	
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30 —							



Monitoring Well Locations
HC Drew Manual Estate "15" No. 1
Neumin Production Company North Choupique Oil & Gas Field Calcasieu Parish, Louisiana

Imagery basemap via ArcGIS Online.

Environmental Resources Management www.erm.com ERM