

# JOINT PUBLIC NOTICE

June 8, 2020

United States Army  
Corps of Engineers  
New Orleans District  
Attn: Regulatory Branch  
7400 Leake Avenue  
New Orleans, Louisiana 70118

State of Louisiana  
Department of Environmental Quality  
Attn: Water Quality Certification Sec.  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

Project Manager: James W. Little, Jr.  
(225) 342-3099 / fax: (225) 342-9439  
James.little@usace.army.mil  
Permit Application Number:  
MVN-2005-02218-WII

Project Manager:  
Elizabeth Hill  
(225) 219-3225 / fax: (225) 219-3156  
WQC Application Number:  
WQC 200603-02

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [ ] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [ X ] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

The application has also been mailed to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

## **CONSTRUCT TWO WELLSITES, ACCESS ROADS AND APPURTENANT STRUCTURES IN IBERVILLE PARISH**

**NAME OF APPLICANT:** Texas Brine Company, LLC, c/o Miller Engineers & Associates, Inc.,  
Attn: Mr. Joel Miller, 601 Main Street, Franklin, Louisiana 70538.

**LOCATION OF WORK:** In Iberville Parish, North 30.129764, West -91.236447, located off of Louisiana Highway 404, west of White Castle, Louisiana, as shown on the attached vicinity map.

**CHARACTER OF WORK:** Clear, grade, fill and/or excavate and construct a new 36 foot wide by 280 foot long access road, a 30 foot wide by 190 foot long access road, one 1-inch pipeline, one 4-inch pipeline, one 6-inch pipeline, one 10-inch pipeline, one 20-inch pipeline, and two 300 foot by 400 foot drill pads. Approximately 24,631 cubic yards of sand material, 4,072 cubic yards of limestone, and 328 cubic yards of onsite temporary excavation will be used for the access roads, wings and drill pads. Approximately 5.04 acres of forested wetlands and 0.01 acres of emergent wetlands would be impacted by project implementation. The applicant proposes to purchase compensatory mitigation acres at CEMVN approved mitigation banks in the area.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be submitted so as to be received before or by the last day

of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing, faxing, or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, pre-historical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Based on the Information & Planning Consultation for Endangered Species in Louisiana (IPaC), as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, the proposed project was evaluated under the determination key on June 3, 2020 and it has been determined that the proposed project will “Not likely to adversely Affect” the Pallid Sturgeon (*Scaphirhynchus albus*). Also, the proposed project is within the range of the Louisiana black bear (*Ursus americanus luteolus*). The Louisiana Black Bear was listed as a threatened subspecies in 1992. Due to recovery, it was officially removed from the List of Endangered and Threatened Species on March 11, 2016 (effective April 11, 2016). Although the Louisiana Black Bear is no longer protected under the ESA it remains protected under Louisiana State law. Please go to the following site for more information <http://www.fws.gov/southeast/pdf/fact-sheet/louisiana-black-bear-post-delisting-consultation.pdf>.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction or alteration of N/A acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, before a permit is issued.

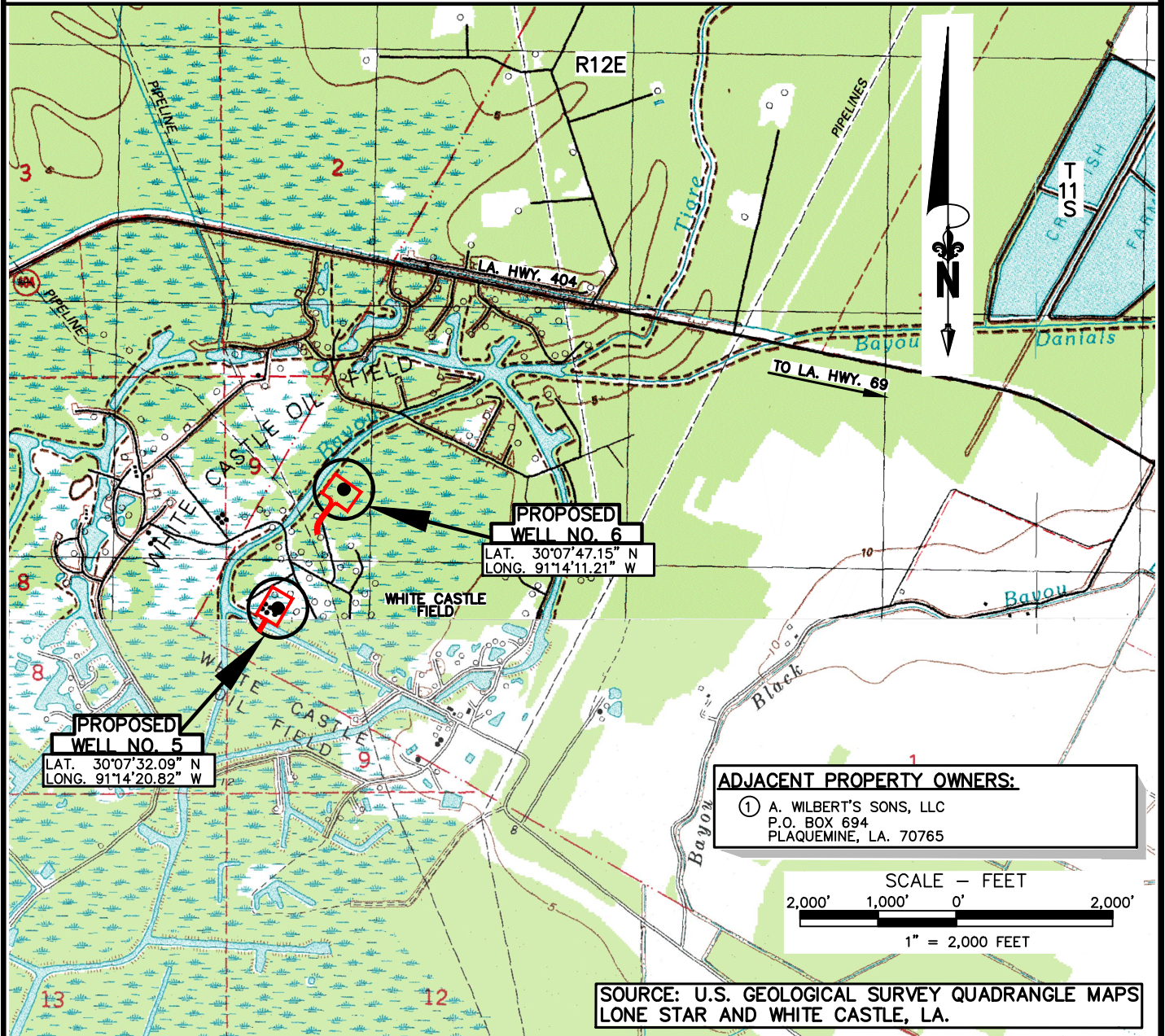
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

John M. Herman  
Chief, Central Evaluation Section  
Regulatory Branch

Enclosure

IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E



**NOTE:**

THIS DRAWING WAS PREPARED SOLELY FOR ACQUISITION OF REGULATORY PERMITS AND DO NOT REPRESENT ENGINEERING OR CONSTRUCTION PLANS. PROPERTY LINES SHOWN ARE FROM COMPILED DATA ACQUIRED FROM ASSESSOR RECORDS AND DO NOT REPRESENT A BOUNDARY SURVEY.

\* SEE SHEET 13 OF 13 FOR GENERAL NOTES AND REFERENCES.

THIS DRAWING WAS PREPARED SOLELY FOR USE BY TEXAS BRINE CO. L.L.C., IN CONJUNCTION WITH THE SPECIFIC PROJECT DESIGNATED IN THE TITLE BLOCK. USE FOR ANY OTHER PURPOSE, OR USE BY ANY OTHER PARTY SHALL BE AT USER'S SOLE RISK WITHOUT ANY LIABILITY TO MILLER ENGINEERS & ASSOCIATES.

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M.E. & A. DWG. NO. 14346 C.O.E. SHEET 1 OF 13

PREPARED BY:



Miller Engineers & Associates, Inc.

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JOEL J. MILLER  
LA. LICENSE NO. 29638



TEXAS BRINE  
COMPANY, LLC

C.O.E. PERMIT APPLICATION FOR  
PROPOSED BRINE WELLS 5 & 6

AT WHITE CASTLE FIELD  
**VICINITY MAP**

IBERVILLE PARISH  
LOUISIANA

SHEET 1 OF 13

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E

(W) DENOTES PFO PALUSTRINE FOREST WETLANDS (±2.13 ACRES THIS SHEET)(PERM. IMPACTS)

(NW) DENOTES NON WETLANDS (±0.75 ACRES THIS SHEET)

----- CROWN OF ACCESS ROAD

..... TOE OF FILL

----- DENOTES PROPOSED PIPING (±900') (THIS SHEET)  
(SEE SEC. "C-C" SHEET 6 OF 11 FOR PIPE SIZES)

AREA TO BE FILLED TO +5.5' WELL PAD 5 = (±11,380 C.Y.)  
 AREA OF WETLAND IMPACTS WELL PAD 5 = (±2.02 AC.)  
 AREA OF WETLAND IMPACTS PIPE CORRIDOR = (±0.11 AC.)  
 TOTAL AREA OF PERM. IMPACTS THIS SHEET = (±2.88 AC.)  
 (WET AND NON-WET ACRES)  
 AREA OF PIPING EXC. & BACKFILL IMPACTS NATIVE MATERIAL  
 = (0.03 AC.) & (149 C.Y.) (THIS SHEET)



**PROPOSED BRINE WELL #5**  
 X=3,310,617.951  
 Y=591,173.626  
 LAT. 30.1255798° N  
 LONG. 91.2391180° W

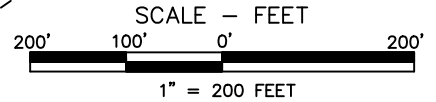
EXISTING BAYOU

EXISTING WELL PAD

EXISTING WELL PAD 11

- FOR PROFILE SECTION "A-A"  
SEE SHEET 4 OF 13
- FOR PROFILE SECTION "B-B"  
SEE SHEET 5 OF 13
- FOR PROFILE SECTION "C-C"  
SEE SHEET 6 OF 13
- FOR PROFILE SECTION "G-G"  
SEE SHEET 10 OF 13

**NOTE:**  
 THE FORESTED WETLANDS WILL BE PERMANENTLY IMPACTED AS A RESULT OF THE PROPOSED PROJECT. THE TREES WILL BE REMOVED BY CHIPPING



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M.E. & A. DWG. NO. 14346 C.O.E. SHEET 2 OF 13

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TEXAS BRINE  
 COMPANY, LLC

C.O.E. PERMIT APPLICATION FOR  
 PROPOSED BRINE WELLS 5 & 6  
 AT WHITE CASTLE FIELD

**PROPOSED BRINE WELL #5**

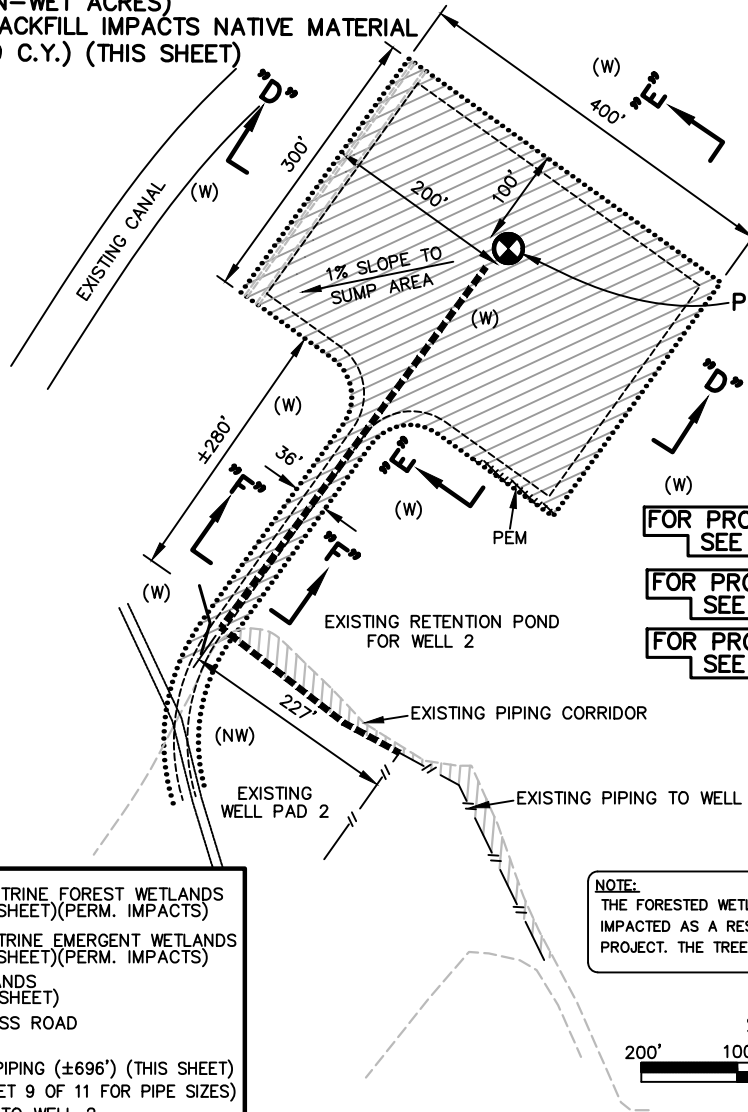
IBERVILLE PARISH  
 LOUISIANA

SHEET 2 OF 13

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E

AREA TO BE FILLED TO +5.5' WELL PAD 6 & PROP. ACCESS = (±13,251 C.Y.)  
 AREA OF WETLAND IMPACTS WELL PAD 6 = (±2.75 AC.)  
 AREA OF WETLAND IMPACTS PROPOSED ACCESS = (±0.17 AC.)  
 TOTAL AREA OF PERM. IMPACTS THIS SHEET = (±2.92 AC.)  
 (WET AND NON-WET ACRES)  
 AREA OF PIPING EXC. & BACKFILL IMPACTS NATIVE MATERIAL  
 = (0.04 AC.) & (179 C.Y.) (THIS SHEET)



**PROPOSED BRINE WELL #6**  
 X=3,311,460.801  
 Y=592,695.904  
 LAT. 30.1297636° N  
 LONG. 91.2364478° W

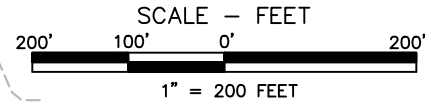
FOR PROFILE SECTION "D-D"  
SEE SHEET 7 OF 13

FOR PROFILE SECTION "E-E"  
SEE SHEET 8 OF 13

FOR PROFILE SECTION "F-F"  
SEE SHEET 9 OF 13

(W) DENOTES PFO PALUSTRINE FOREST WETLANDS (±2.91 ACRES THIS SHEET)(PERM. IMPACTS)  
 (W) DENOTES PEM PALUSTRINE EMERGENT WETLANDS (±0.01 ACRES THIS SHEET)(PERM. IMPACTS)  
 (NW) DENOTES NON WETLANDS (±0.00 ACRES THIS SHEET)  
 - - - - - CROWN OF ACCESS ROAD  
 ..... TOE OF FILL  
 - - - - - DENOTES PROPOSED PIPING (±696') (THIS SHEET) (SEE SEC. "F-F" SHEET 9 OF 11 FOR PIPE SIZES)  
 - - - - - EXISTING PIPING TO WELL 2

**NOTE:**  
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 M.E. & A. DWG. NO. 14346 C.O.E. SHEET 3 OF 13

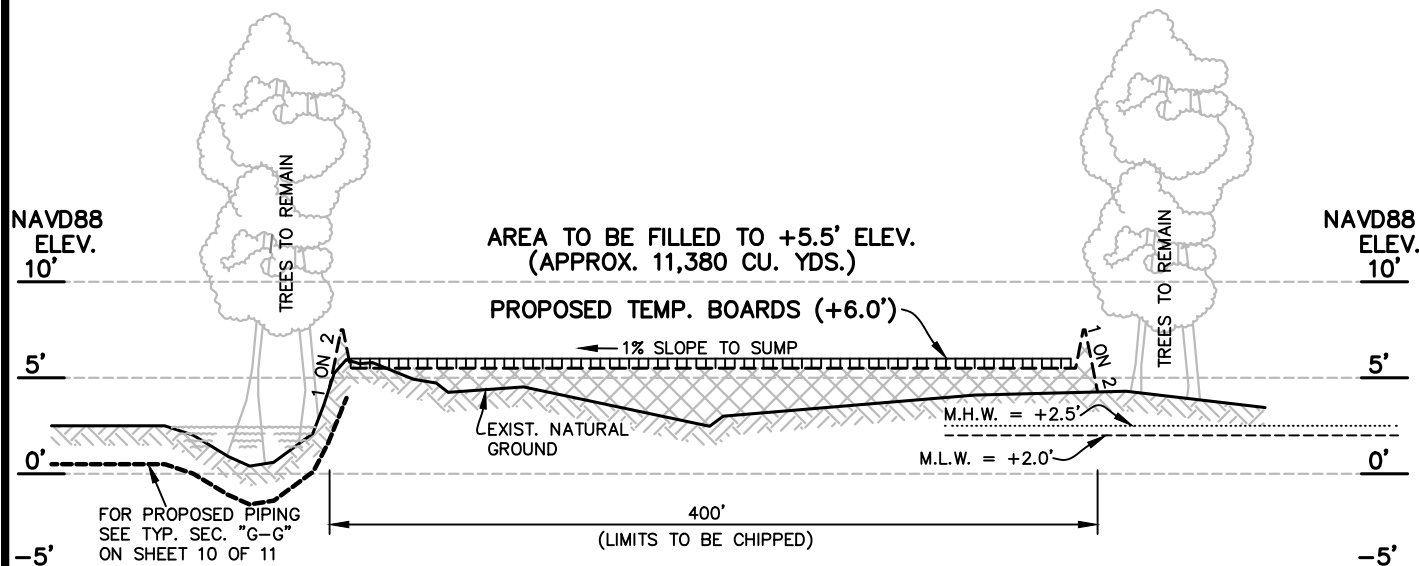
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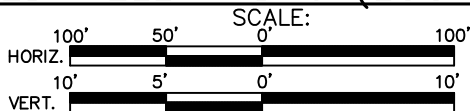
TEXAS BRINE COMPANY, LLC  
 C.O.E. PERMIT APPLICATION FOR  
 PROPOSED BRINE WELLS 5 & 6  
 AT WHITE CASTLE FIELD  
**PROPOSED BRINE WELL #6**  
 IBERVILLE PARISH  
 LOUISIANA  
 SHEET 3 OF 13

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E



TYPICAL SECTION "A-A"  
PROPOSED WELL PAD 5 (LOOKING WEST)



**NOTE:**  
THE 96 RIG SUPPORT PILES ARE NOT SHOWN ON PROFILE VIEWS DUE TO EACH PAD HAS A DIFFERENT RIG ORIENTATION.

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M.E. & A. DWG. NO. 14346 C.O.E. SHEET 4 OF 13

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AT WHITE CASTLE FIELD

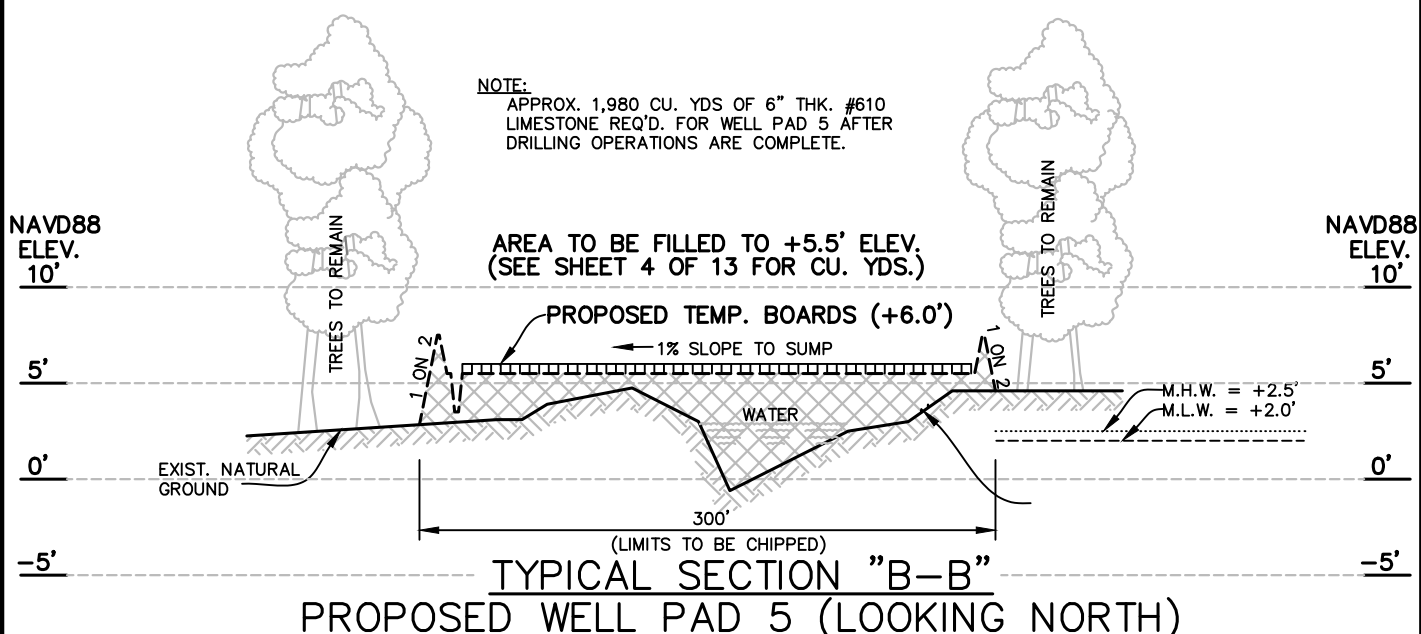
TYPICAL SEC. "A-A"  
PROPOSED WELL PAD 5

IBERVILLE PARISH  
LOUISIANA

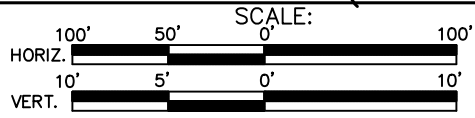
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SHEET 4 OF 13

IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E

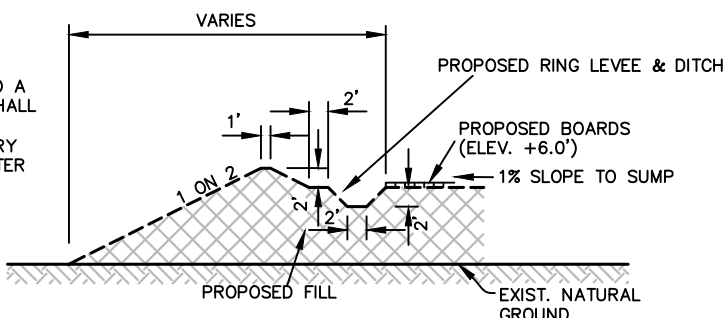


TYPICAL SECTION "B-B"  
PROPOSED WELL PAD 5 (LOOKING NORTH)

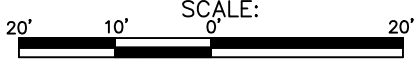


NOTES:

1. DITCHES ON PROPOSED PAD SHALL SLOPE TO A RETAINING SUMP AREA AND ANY RUN OFF SHALL BE REMOVED FROM SITE.
2. SUMP, DITCHES & RING LEVEE ARE TEMPORARY FOR DRILLING OPERATIONS AND REMOVED AFTER COMPLETION OF DRILLING.



DETAIL



NOTE:

THE 96 RIG SUPPORT PILES ARE NOT SHOWN ON PROFILE VIEWS DUE TO EACH PAD HAS A DIFFERENT RIG ORIENTATION.

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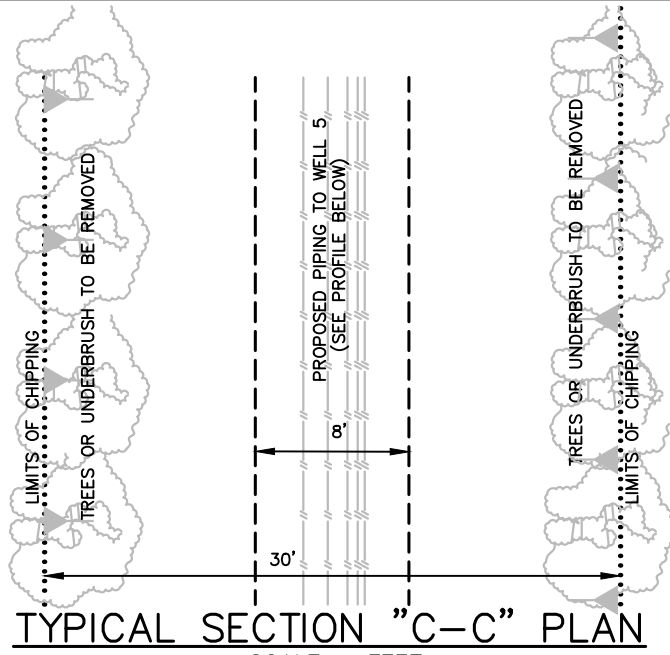
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C.O.E. PERMIT APPLICATION FOR  
PROPOSED BRINE WELLS 5 & 6  
AT WHITE CASTLE FIELD  
**TYPICAL SEC. "B-B"**  
**PROPOSED WELL PAD 5**  
IBERVILLE PARISH  
LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

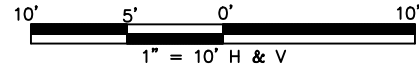


IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E



TYPICAL SECTION "C-C" PLAN

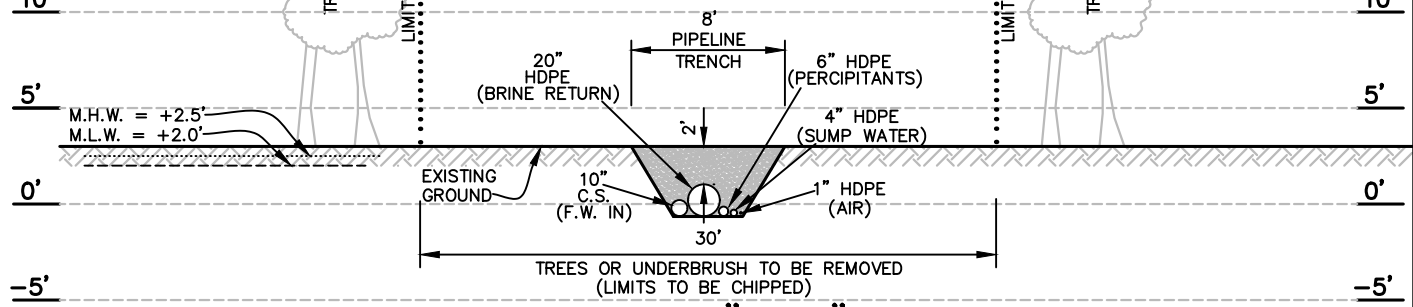
SCALE - FEET



**NOTE:**  
APPROX. 149 CU. YDS. OF NATIVE MATERIAL TO BE EXCAVATED & BACKFILLED FOR PIPING TO WELL 5.

NAVD88  
ELEV.  
10'

NAVD88  
ELEV.  
10'



TYPICAL SECTION "C-C" PROFILE

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M.E. & A. DWG. NO. 14346 C.O.E. SHEET 6 OF 13

PREPARED BY:  
**ME & A**  
Miller Engineers & Associates, Inc.

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**TEXAS BRINE COMPANY, LLC**

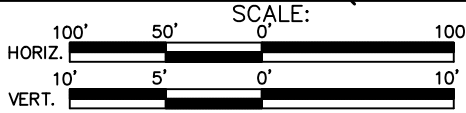
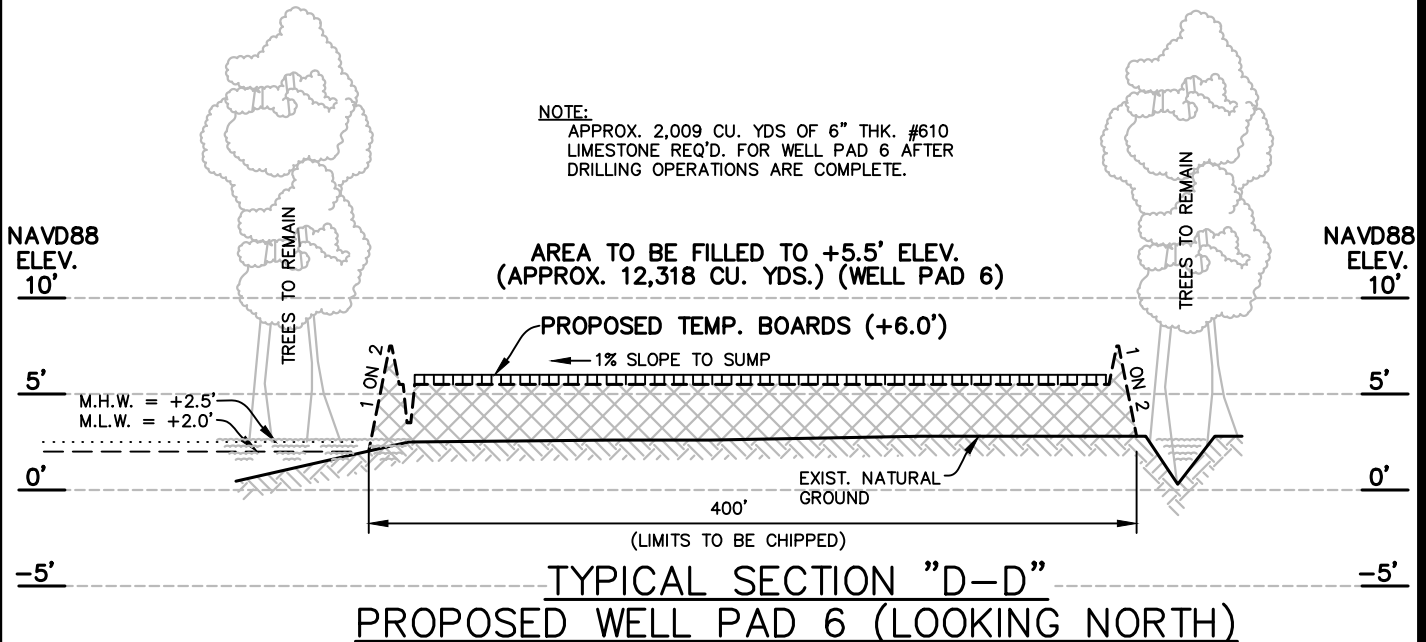
C.O.E. PERMIT APPLICATION FOR  
PROPOSED BRINE WELLS 5 & 6  
AT WHITE CASTLE FIELD

**TYPICAL CROSS SEC. "C-C"**  
**FOR PROPOSED PIPING**  
IBERVILLE PARISH  
LOUISIANA

SHEET 6 OF 13

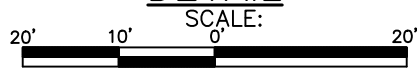
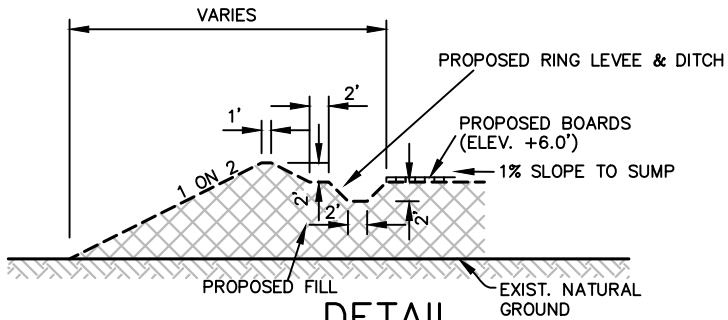
REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

**IBERVILLE PARISH, LOUISIANA**  
SEC. 1, T11S-R12E



**NOTES:**

1. DITCHES ON PROPOSED PAD SHALL SLOPE TO A RETAINING SUMP AREA AND ANY RUN OFF SHALL BE REMOVED FROM SITE.
2. SUMP, DITCHES & RING LEVEE ARE TEMPORARY FOR DRILLING OPERATIONS AND REMOVED AFTER COMPLETION OF DRILLING.



**NOTE:**

THE 96 RIG SUPPORT PILES ARE NOT SHOWN ON PROFILE VIEWS DUE TO EACH PAD HAS A DIFFERENT RIG ORIENTATION.

**NOTE:**

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M.E. & A. DWG. NO. 14346 C.O.E. SHEET 70F 13

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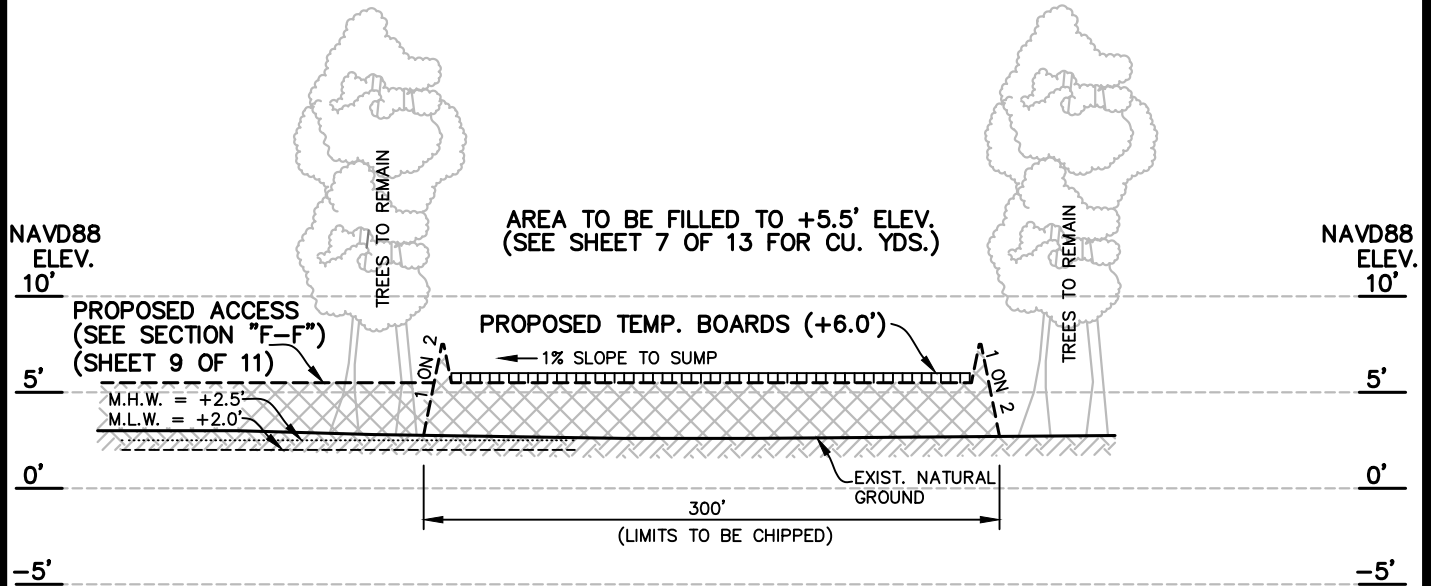
**TEXAS BRINE  
COMPANY, LLC**

C.O.E. PERMIT APPLICATION FOR  
PROPOSED BRINE WELLS 5 & 6  
AT WHITE CASTLE FIELD  
**TYPICAL SEC. "D-D"**  
**PROPOSED WELL PAD 6**  
IBERVILLE PARISH  
LOUISIANA

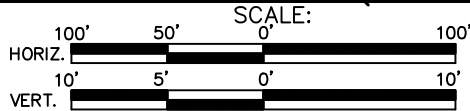
SHEET 7 OF 13

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0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

**IBERVILLE PARISH, LOUISIANA**  
SEC. 1, T11S-R12E



**TYPICAL SECTION "E-E"**  
**PROPOSED WELL PAD 6 (LOOKING WEST)**



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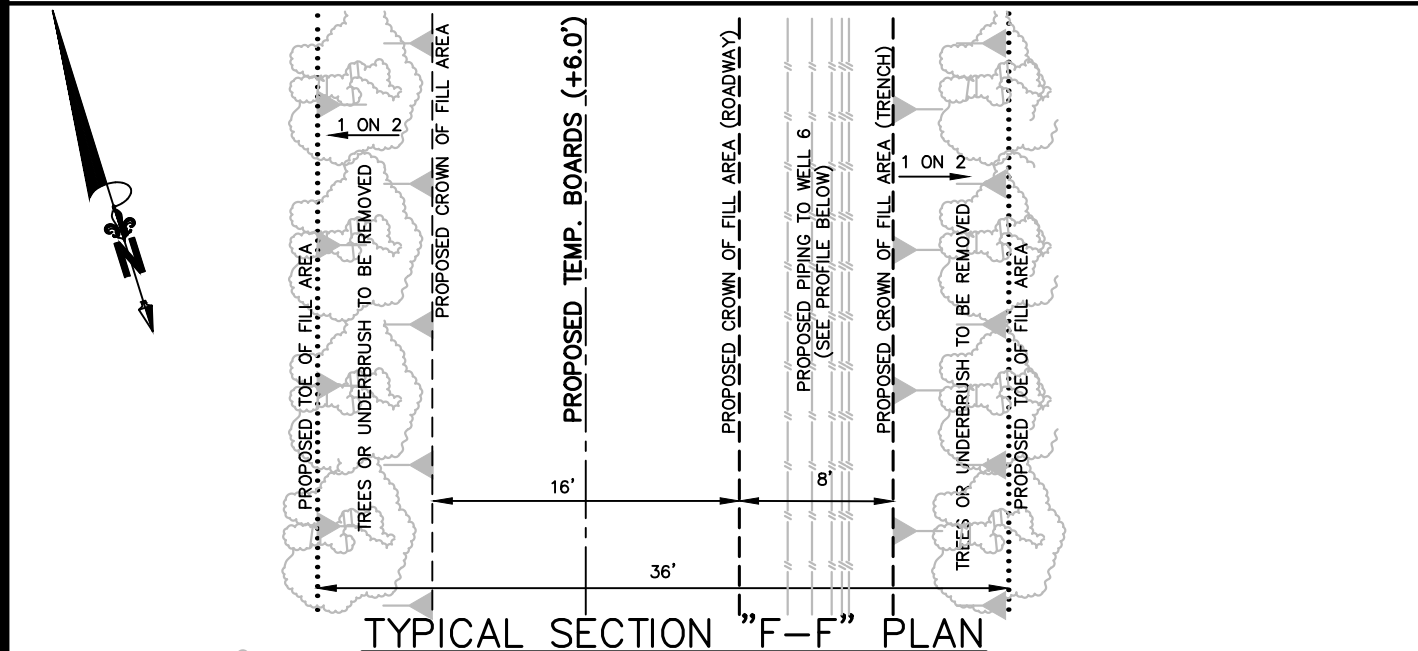
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**TYPICAL SEC. "E-E"**  
**PROPOSED WELL PAD 6**  
IBERVILLE PARISH  
LOUISIANA

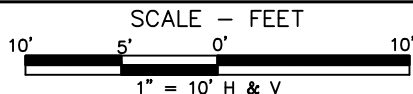
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0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

SHEET 8 OF 13

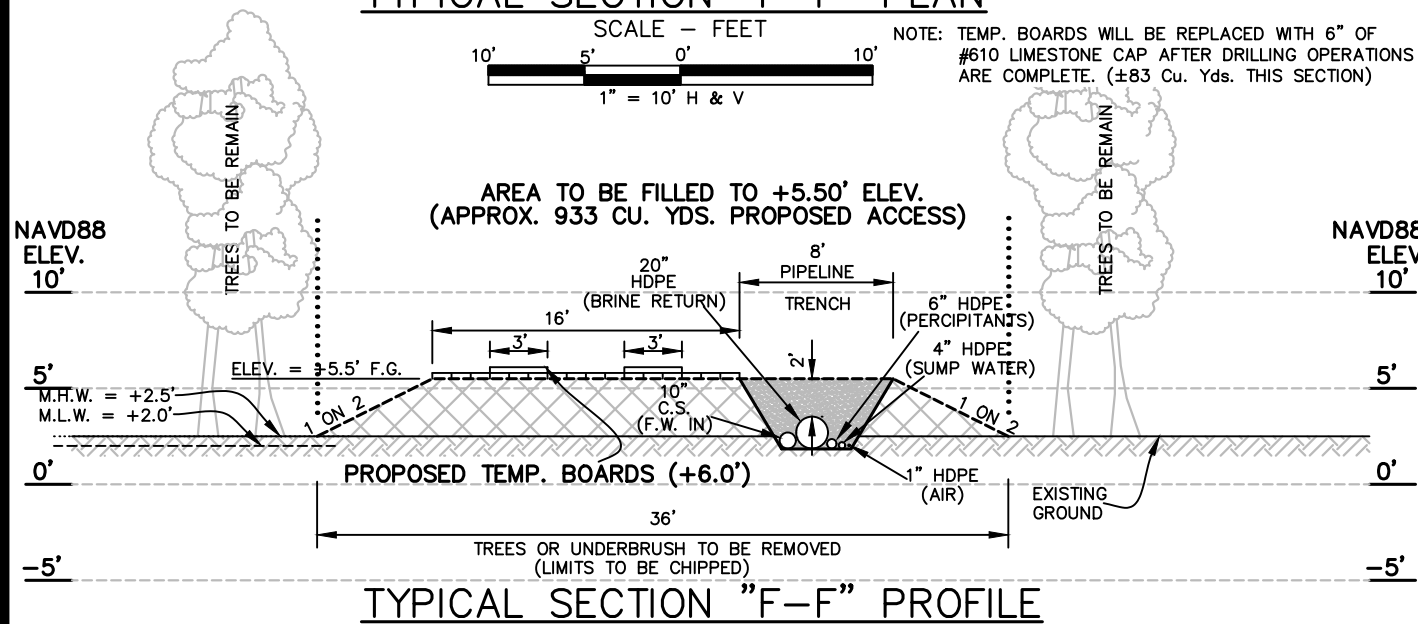
IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E



TYPICAL SECTION "F-F" PLAN



NOTE: TEMP. BOARDS WILL BE REPLACED WITH 6" OF #610 LIMESTONE CAP AFTER DRILLING OPERATIONS ARE COMPLETE. (±83 Cu. Yds. THIS SECTION)



TYPICAL SECTION "F-F" PROFILE

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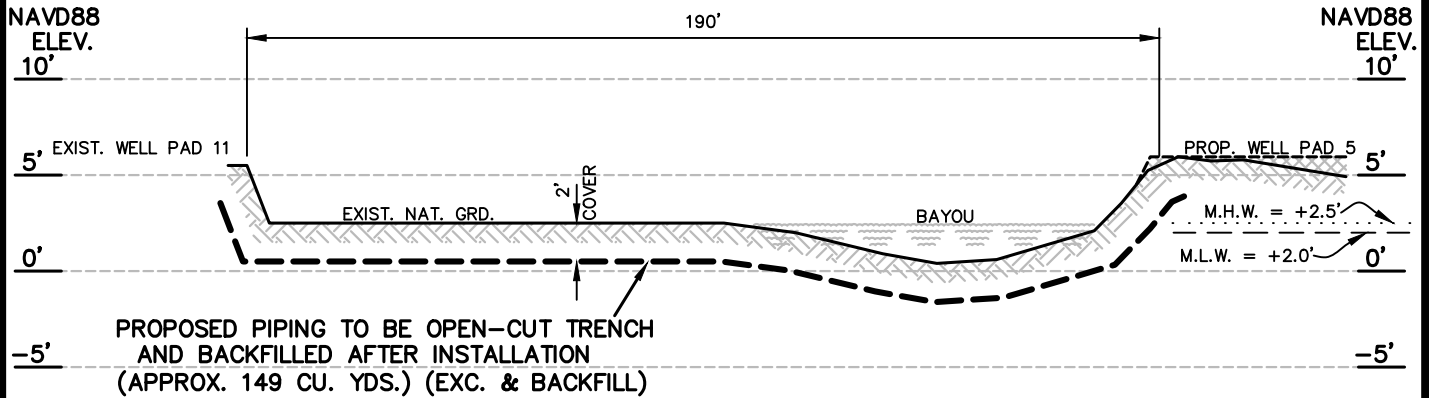
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AT WHITE CASTLE FIELD  
**TYPICAL CROSS SEC. "F-F"**  
**FOR PROPOSED ACCESS**

IBERVILLE PARISH  
LOUISIANA

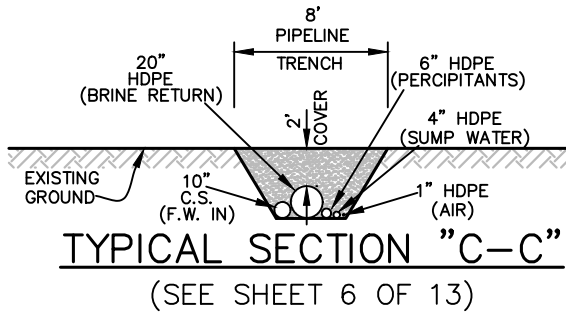
SHEET 9 OF 13

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
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IBERVILLE PARISH, LOUISIANA  
SEC. 1, T11S-R12E



TYPICAL SECTION "G-G"  
PIPING PROFILE TO WELL 5



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TEXAS BRINE  
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C.O.E. PERMIT APPLICATION FOR  
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AT WHITE CASTLE FIELD

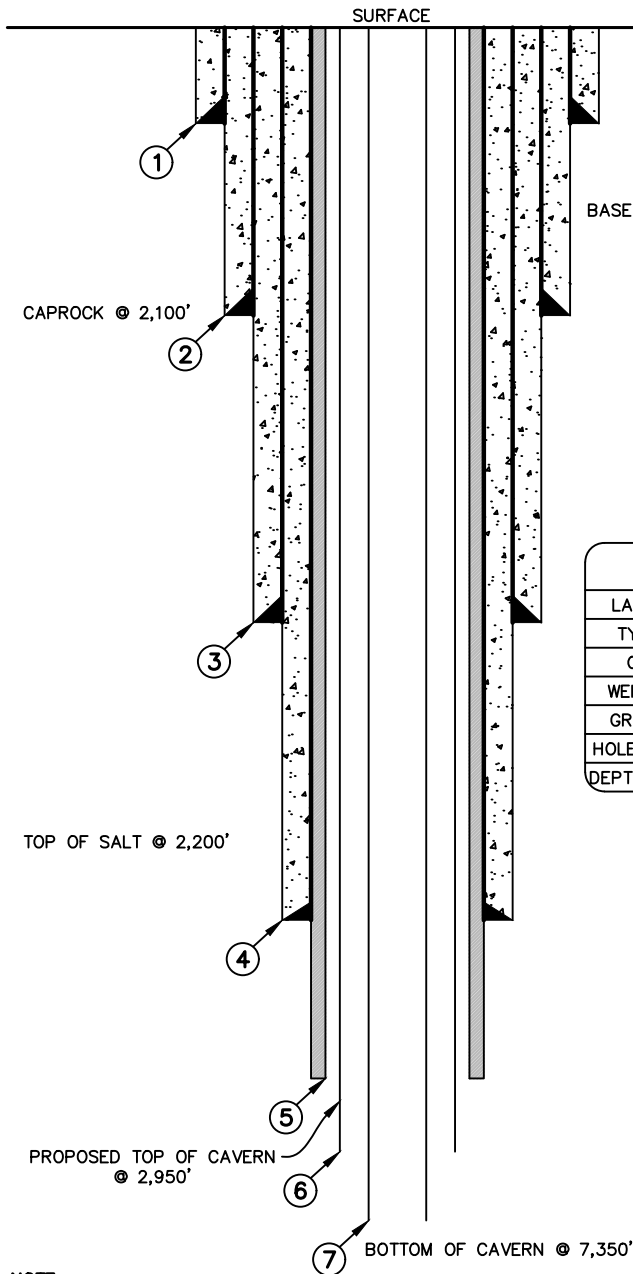
**TYPICAL SEC. "G-G"  
PIPING TO WELL 5**

IBERVILLE PARISH  
LOUISIANA

SHEET 10 OF 13

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
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**IBERVILLE PARISH, LOUISIANA**  
SECTION 1, T11S-R12E



NOTE: ALL DEPTHS REFERENCED TO GROUND LEVEL.

CASING INFORMATION					
LABEL	1	2	3	4	5
TYPE	DRIVE	SURFACE	INTERMEDIATE	INTERMEDIATE	PROTECTION
OD	42"	36"	30"	20"	16"
WEIGHT	437.88 lb/ft	373.80 lb/ft	309.72 lb/ft	133 lb/ft	97 lb/ft
GRADE	API 5LX-52	API 5LX-56	API 5LX-56	L-55, BT & C	HCO-125, BT & C
HOLE SIZE	40"	44"	40"	26"	22"
DEPTH SET	300'	1,200'	2,100'	2,500'	2,800'

TUBING INFORMATION		
LABEL	6	7
TYPE	OUTER HANGING STRING	INNER HANGING STRING
OD	13 3/8"	9 5/8"
WT	0.480"	0.395"
ID	12.415"	8.835"
DRIFT ID	12.250"	8.679"
COD	14.375"	10.625"
WEIGHT	68 lb/ft	40 lb/ft
GRADE	J-55, ERW, BT & C	J-55, ERW, BT & C
HOLE SIZE	17 1/2"	17 1/2"
DEPTH SET	3,300'	7,350'

**NOTE:**  
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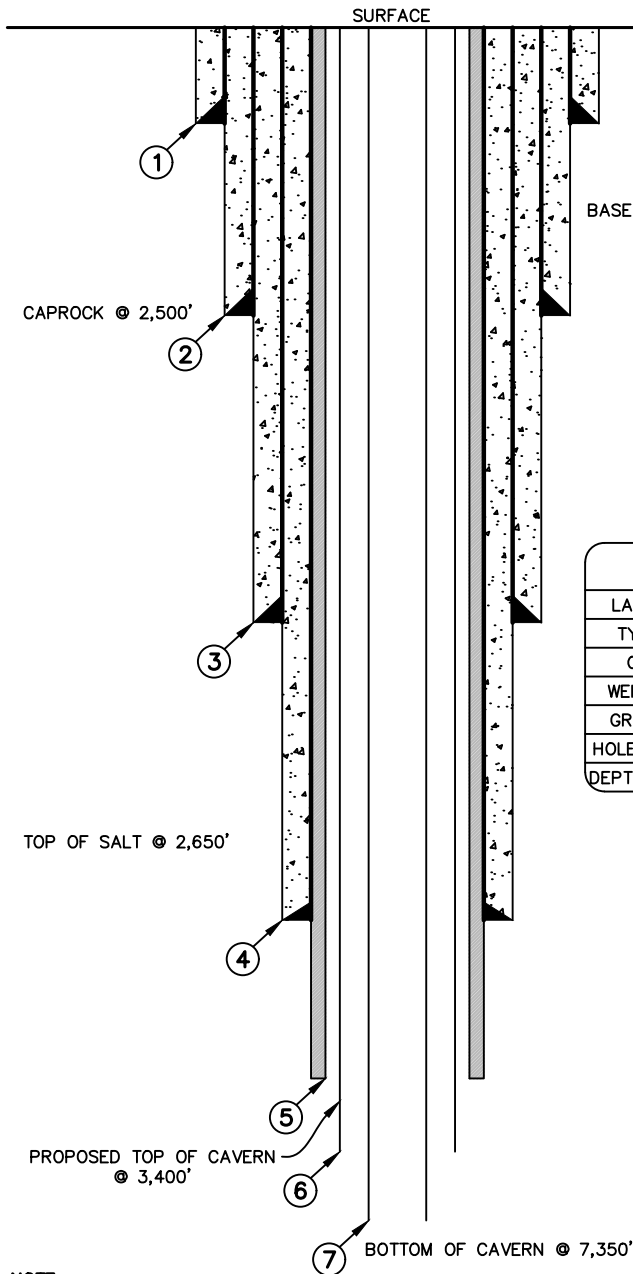
**TEXAS BRINE  
COMPANY, LLC**

C.O.E. PERMIT APPLICATION FOR  
PROPOSED BRINE WELLS 5 & 6  
AT WHITE CASTLE FIELD  
**BELOW GROUND DETAIL  
FOR BRINE WELL #5**  
IBERVILLE PARISH  
LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
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SHEET 11 OF 13

**IBERVILLE PARISH, LOUISIANA**  
SECTION 1, T11S-R12E



NOTE: ALL DEPTHS REFERENCED TO GROUND LEVEL.

CASING INFORMATION					
LABEL	1	2	3	4	5
TYPE	DRIVE	SURFACE	INTERMEDIATE	INTERMEDIATE	PROTECTION
OD	42"	36"	30"	20"	16"
WEIGHT	437.88 lb/ft	373.80 lb/ft	309.72 lb/ft	133 lb/ft	97 lb/ft
GRADE	API 5LX-52	API 5LX-56	API 5LX-56	L-55, BT & C	HCO-125, BT & C
HOLE SIZE	-	44"	40"	26"	22"
DEPTH SET	300'	1,200'	2,500'	2,950'	3,250'

TUBING INFORMATION		
LABEL	6	7
TYPE	OUTER HANGING STRING	INNER HANGING STRING
OD	13 3/8"	9 5/8"
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ID	12.415"	8.835"
DRIFT ID	12.250"	8.679"
COD	14.375"	10.625"
WEIGHT	68 lb/ft	40 lb/ft
GRADE	J-55, ERW, BT & C	J-55, ERW, BT & C
HOLE SIZE	17 1/2"	17 1/2"
DEPTH SET	3,750'	7,350'

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TEXAS BRINE  
COMPANY, LLC

C.O.E. PERMIT APPLICATION FOR  
PROPOSED BRINE WELLS 5 & 6  
AT WHITE CASTLE FIELD  
**BELOW GROUND DETAIL**  
**FOR BRINE WELL #6**  
IBERVILLE PARISH  
LOUISIANA

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	10/23/19	ISSUED DRAWINGS	REK	JJM	JJM

SHEET 12 OF 13

**IBERVILLE PARISH, LOUISIANA**

SEC. 1, T11S-R12E

**NOTES:**

NORTH ARROW AND GRID COORDINATES REFER TO THE LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NORTH AMERICAN DATUM OF 1983 (NAD 83)). BASED ON RTK GPS OBSERVATIONS.

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 88). BASED ON RTK GPS OBSERVATIONS.

DISTANCES IN FEET BY HORIZONTAL MEASUREMENT.

PARISH, SECTION, TOWNSHIP, AND RANGE SCALED FROM REFERENCED U.S.C & G.S. QUADRANGLES, LONE STAR & WHITE CASTLE, LA. 1994

PROPOSED EXCAVATION LOCATIONS AND DIMENSIONS ARE APPROXIMATE BASED ON DATA PROVIDED TEXAS BRINE CO. LLC

SURVEY PARTY CHIEF: HERSHEL SAUCE

DATE OF SURVEY: MAY 8, 2019

**SUMMARY OF CONSTRUCTION EQUIPMENT**

DESCRIPTION	QUANTITY
AMPHIBIOUS TRACK EXCAVATOR (60' REACH) (FOR CHIPPING)	1
NON-AMPHIBIOUS TRACK EXCAVATOR (35' REACH) (FOR PIPELINE WORK)	1
TANDEM & TRACTOR TRAILER DUMP TRUCKS (ACCESS RD & PAD FILL)	1
BULL DOZER/GRADER (ACCESS RD & PAD CONSTRUCTION)	1
LAND BASED DRILLING RIG	1
1/2 TON & 3/4 TON CREW TRUCKS (CONSTRUCTION & DRILLING SUPPORT)	1

**SUMMARY OF ESTIMATED QUANTITIES**

TOTAL SAND VOLUME = 24,631 CU. YDS. (FILL) (WELL PADS & ACCESS)
TOTAL EXC. & BACKFILL VOLUME = 328 CU. YDS. (PIPING) (NATIVE MATERIAL)
TOTAL #610 LIMESTONE VOLUME = 4,072 CU. YDS. (6" THK.) (FILL)
TOTAL WETLAND IMPACTS FROM FILL = 5.05 AC.
TOTAL PROJECT PERMANENT IMPACTS (WET & NON-WET) = 5.80 AC.
TOTAL EXC. & BACKFILL AREA IMPACTS = 0.07 AC. (PIPING)
TOTAL OF RIG SUPPORT PILES REQ'D. = 96
TOTAL CASING CEMENT = 818 CU. YDS.
TOTAL EXCAVATION FOR WELLS FROM DRILLING = 1,296 CU.YDS.

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**GENERAL NOTES  
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LOUISIANA

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SHEET 13 OF 13