



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
7400 LEAKE AVENUE
NEW ORLEANS, LOUISIANA 70118

September 5, 2017

Operations Division
Eastern Evaluation Section

Project Manager
Ben Sherman
(504) 862-2041
Benjamin.C.Sherman@usace.army.mil
SUBJECT: MVN 2017-1075 ES

PUBLIC NOTICE

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: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

**SIX-INCH AND FIVE-INCH PIPELINES IN GULF OF MEXICO OFF OF
JEFFERSON PARISH**

NAME OF APPLICANT: LLOG Exploration Offshore L.L.C. at 1001 Oschsner Blvd, Suite 100, Covington, Louisiana 70433.

LOCATION OF WORK: Mississippi River Canyon and Ewing Bank, Mississippi River Canyon 794 to Ewing Bank 834, Gulf of Mexico, off of Jefferson Parish, Louisiana, as shown on the attached drawings.

CHARACTER OF WORK: Install and maintain a 6" bulk oil pipeline, to transport oil from MC794 Pipeline End Manifold to Ewing Bank 834 Platform "A" and install and maintain a 5" umbilical pipeline from Ewing Bank 834 Platform to MC794 Umbilical Termination Assembly. No special aquatic sites will be affected by this project; no mitigation is anticipated.

The comment period for the Department of the Army Permit will close **15 days** from the date of this 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 must be mailed 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 mailed 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 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.

The decision as to whether a permit will be issued will be based on an evaluation of the impact of the proposed work on navigation and national security.

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, prehistorical, 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.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would 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.

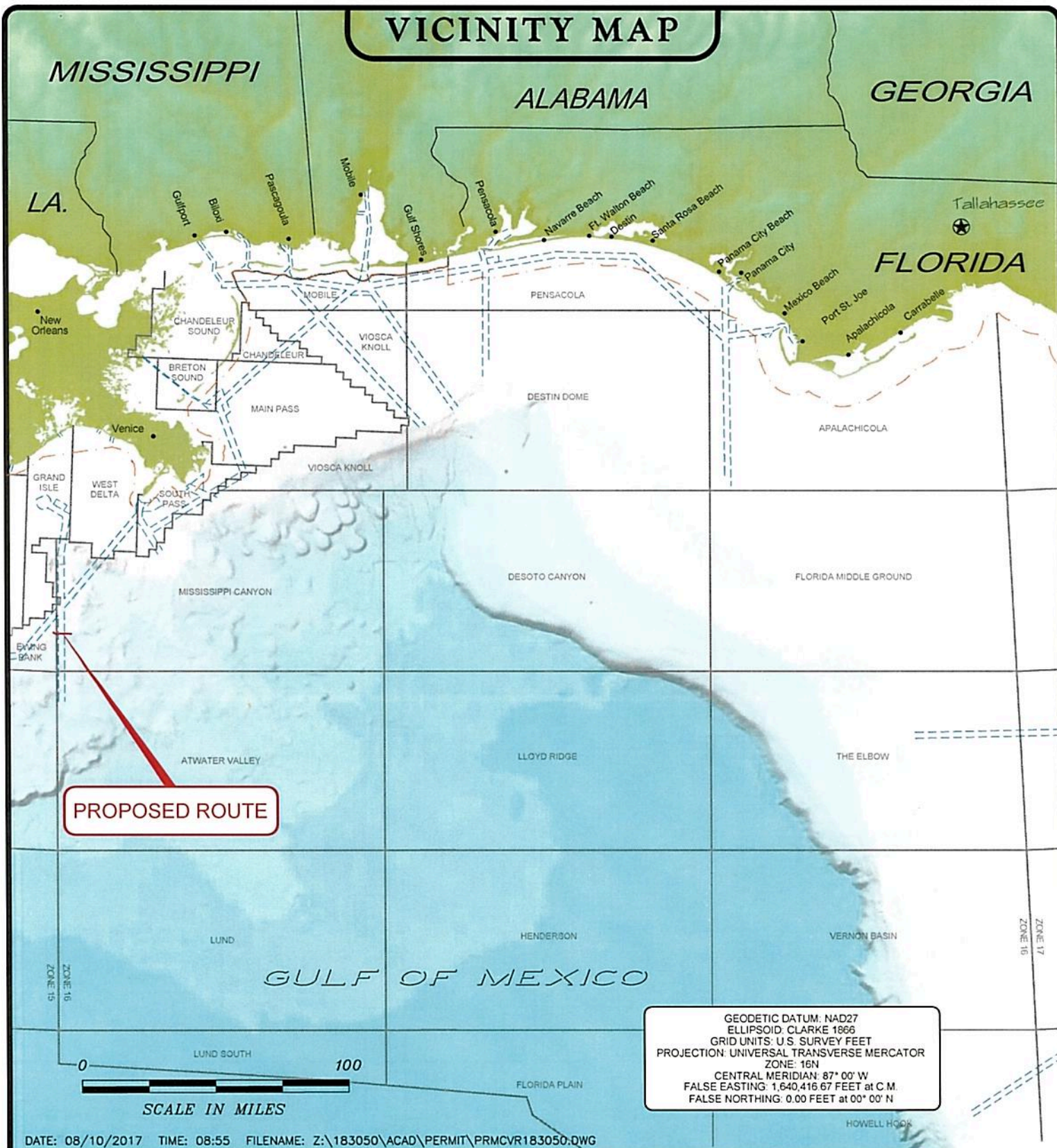
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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.

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

VICINITY MAP



LLDG
exploration

PROP. 6" BULK OIL PIPELINE ROUTE
Block 794, PLEM Hub, Mississippi Canyon Area
to
Block 834, "A" Platform, Ewing Bank Area

PREPARED
BY:

OCEANEERING

OCEANEERING INTERNATIONAL, INC.
730 E. KALISTE SALOOM RD.
LAFAYETTE, LA 70508
(337) 210-0000
LA Reg. No. 747

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: A. Mayet, J. Guidry

FILE: PRMCVR183050.DWG

SHEET 1 of 4

REV.
0

CURVE 1 DATA	
PC1	95+53.79'
X=	717,060.54'
Y=	10,228,350.58'
Lat=	28°09'20.732"N
Lon=	89°51'56.956"W
PT1	101+80.61'
X=	716,434.26'
Y=	10,228,368.33'
Lat=	28°09'20.762"N
Lon=	89°52'03.951"W
PI1	
X=	716,747.86'
Y=	10,228,375.83'
R=	6,000.00'
T=	313.69'
Δ=	05°59'08"
L=	626.81'

MC750
OCS-G-35832
LLOG

MC751
OCS-G-33175
LLOG

UTM ZONE 15 COORDS.

X= 2,659,833.91'
Y= 10,230,192.67'

00+00.00'
PLEM HUB

X= 726,583.34'
Y= 10,227,581.70'
Lat= 28°09'15.340"N
Lon= 89°50'10.461"W

PROPOSED 6" BULK OIL PIPELINE ROUTE
TOTAL LENGTH = 37,056.26' = 7.02 statute miles

47+57.91'
INLINE SLED

X= 721,840.86'
Y= 10,227,964.61'
Lat= 28°09'18.028"N
Lon= 89°51'03.497"W

N85°23'02"W
4,757.91'

S88°37'50"W
9,720.11'

N85°23'02"W
4,795.88'

SEE DETAIL B

OCS-G-34909
Well No. SS002

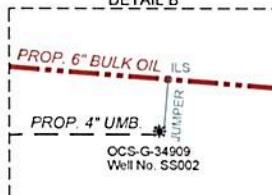
SEE DETAIL A

OCS-G-34909
Well No. SS001

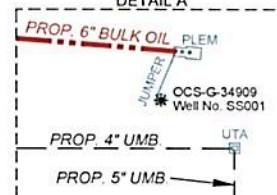
PROP 4" UMBILICAL
PROP 5" UMBILICAL

MC794
OCS-G-34909
LLOG

DETAIL B



DETAIL A



THE PROPOSED ROUTE IS ACCURATELY
REPRESENTED.

FOR PERMITTING ONLY. STATIONING AND
LENGTHS REFER TO HORIZONTAL DISTANCE(S)
ONLY.

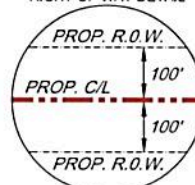
RIGHT-OF-WAY DETAIL

PLAN

0' 2,000'

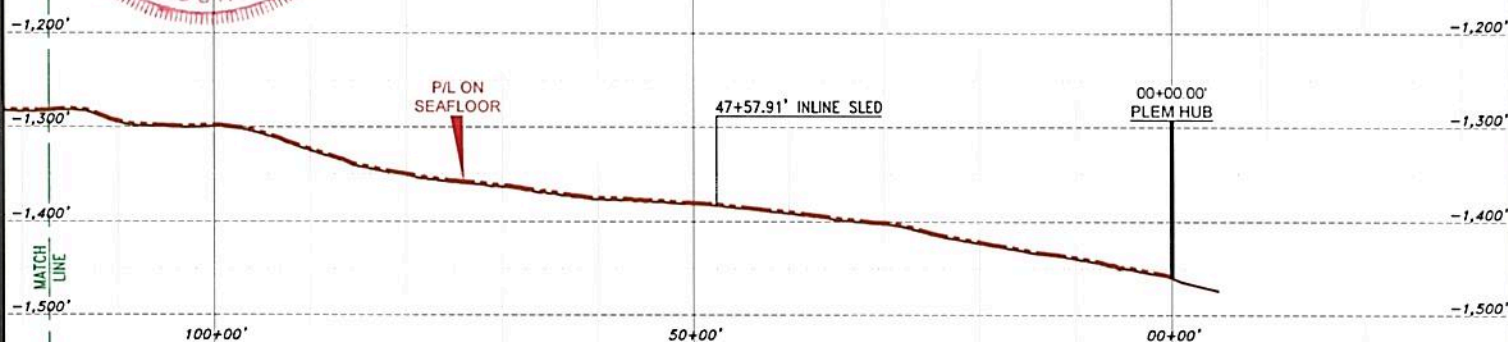
SCALE IN US SURVEY FEET

NADCON version 2.1 utilized for
WGS84-NAD27 conversions.



GEODETTIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 16N
CENTRAL MERIDIAN: 87° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N

RALPH A. COLEMAN
PROFESSIONAL LAND SURVEYOR
LOUISIANA REGISTRATION No. 4691



PROFILE

HORIZONTAL SCALE:
VERTICAL SCALE:

0' 2,000'
0' 200'

DATE: 08/11/2017 TIME: 14:08 FILENAME: Z:\183050\ACAD\PERMIT\PRM183050_6IN-BULK-OIL.DWG

VERTICAL EXAGGERATION = 10

LLOG
exploration

PROP. 6" BULK OIL PIPELINE ROUTE
Block 794, PLEM Hub, Mississippi Canyon Area
to
Block 834, "A" Platform, Ewing Bank Area

PREPARED
BY:

OCEANEERING

OCEANEERING INTERNATIONAL, INC.
730 E. KALISTE SALOOM RD.
LAFAYETTE, LA 70508
(337) 210-0000
LA Reg. No. 747

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: J. Guidry, A. Mayet

FILE: PRM183050_6IN-BULK-OIL.DWG

SHEET 2 of 4

REV.
0

MC749

OCS-G-35831

LLOG

SOUTH OF GULF SAFETY FAIRWAY138+08.54'
ENTER FAIRWAYX= 712,807.36'
Y= 10,228,281.62'
Lat= 28°09'19.054"N
Lon= 89°52'44.411"W**PROPOSED 6" BULK OIL PIPELINE ROUTE**259+72.06'
EXIT FAIRWAYX= 700,650.17'
Y= 10,227,900.17'
Lat= 28°09'12.408"N
Lon= 89°55'00.001"W138+15.91'
BLOCKLINE CROSSINGX= 712,800.00'
Y= 10,228,281.44'
Lat= 28°09'19.051"N
Lon= 89°52'44.493"W← FLOW →
PROP 5" UMBILICALS87°46'02"W
10,294.95'S88°37'50"W
9,720.11'**MC793**
OCS-G-33177
WALTER

CURVE 2 DATA	
PC2	199+00.72'
X=	706,716.92'
Y=	10,228,136.02'
Lat=	28°09'16.179"N
Lon=	89°53'52.351"W
PT2	199+91.11'
X=	706,626.58'
Y=	10,228,133.18'
Lat=	28°09'16.130"N
Lon=	89°53'53.359"W
PI2	
X=	706,671.74'
Y=	10,228,134.94'
R=	6,000.00'
T=	45.20'
Δ=	00°51'47"
L=	90.39'

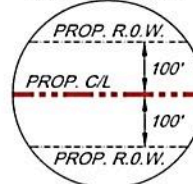
FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

PLAN

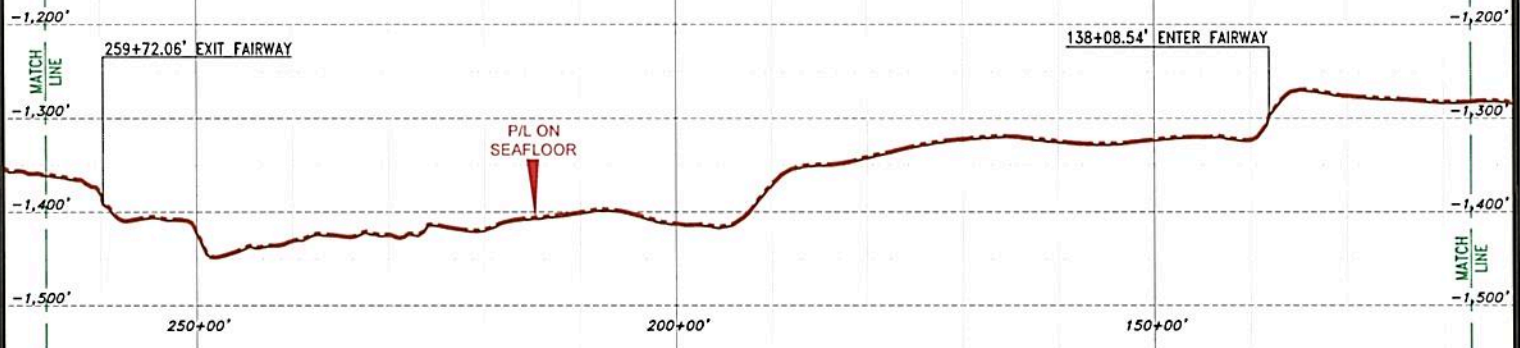
SCALE IN US SURVEY FEET

NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETTIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 16N
 CENTRAL MERIDIAN: 87° 00' W
 FALSE EASTING: 1,640,416.67 FEET at C.M.
 FALSE NORTHING: 0.00 FEET at 00° 00' N

**PROFILE**HORIZONTAL SCALE:
VERTICAL SCALE:

VERTICAL EXAGGERATION = 10

DATE: 08/11/2017 TIME: 14:08 FILENAME: Z:\183050\ACAD\PERMIT\PRM183050_6IN-BULK-OIL.DWG

LLOG
 exploration

PROP. 6" BULK OIL PIPELINE ROUTE
 Block 794, PLEM Hub, Mississippi Canyon Area
 to
 Block 834, "A" Platform, Ewing Bank Area

PREPARED
BY:
OCEANEERING®

OCEANEERING INTERNATIONAL, INC.
 730 E. KALISTE SALOOM RD.
 LAFAYETTE, LA 70508
 (337) 210-0000
 LA Reg. No. 747

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: J. Guidry, A. Mayet

FILE: PRM183050_6IN-BULK-OIL.DWG

SHEET 3 of 4REV.
0

EW790OCS-G-33140
WALTER/NOBLE**EW791**

(Relinquished)

MC749OCS-G-35831
LLOG**MC793**OCS-G-33177
WALTER370+56.26'
WALTER "A" PLATFORMX= 690,624.45'
Y= 10,230,760.97'
Lat= 28°09'38.311"N
Lon= 89°56'52.673"W

UTM ZONE 15 COORDS.

X= 2,623,756.26'
Y= 10,231,590.73'370+01.28'
PLETX= 690,670.35'
Y= 10,230,791.25'
Lat= 28°09'38.622"N
Lon= 89°56'52.169"WS56°35'09"W
54.99'

SEE DETAIL C

304+60.92'
BLOCKLINE CROSSINGX= 696,164.64'
Y= 10,227,727.85'
Lat= 28°09'09.634"N
Lon= 89°55'50.018"WN42°09'27"W
1,471.35'S87°46'02"W
10,294.95'

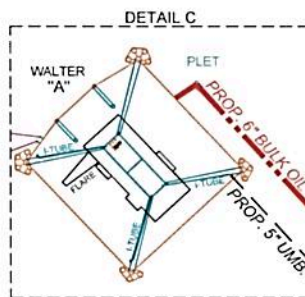
PROP 5" UMBILICAL

296+65.06'
ZONE CROSSINGX= 696,959.97'
Y= 10,227,756.30'
Lat= 28°09'10.105"N
Lon= 89°55'41.149"W

UTM ZONE 15 COORDS.

X= 2,630,233.13'
Y= 10,228,902.67'

CURVE 3 DATA

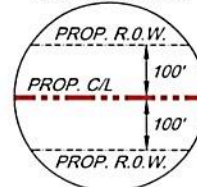
PC3 302+86.06'
X= 696,339.44'
Y= 10,227,732.11'
Lat= 28°09'09.718"N
Lon= 89°55'48.068"WPT3 355+29.92'
X= 691,657.88'
Y= 10,229,700.53'
Lat= 28°09'28.069"N
Lon= 89°56'40.851"WPI3
X= 693,538.93'
Y= 10,227,622.93'R= 6,000.00'
T= 2,802.64'
Δ= 50°04'31"
L= 5,243.86'**EW834**OCS-G-27982
WALTER**EW835**OCS-G-33707
WALTERPROPOSED 6" BULK OIL PIPELINE ROUTE
TOTAL LENGTH = 37,056.26' = 7.02 statute milesFOR PERMITTING ONLY. STATIONING AND
LENGTHS REFER TO HORIZONTAL DISTANCE(S)
ONLY.**PLAN**

0' 2,000'

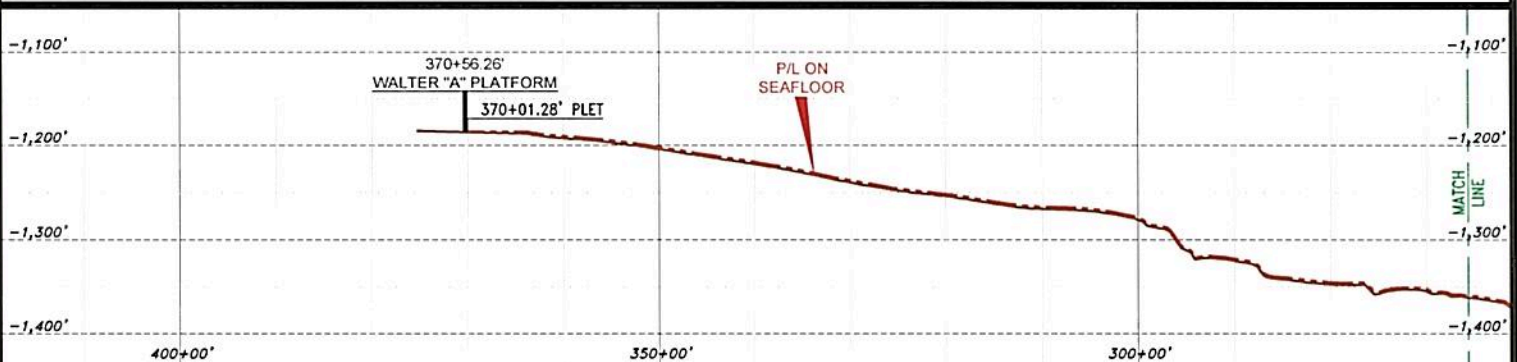
SCALE IN US SURVEY FEET

NADCON version 2.1 utilized for
WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
 ELLIPSOID: CLARKE 1866
 GRID UNITS: U.S. SURVEY FEET
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ZONE: 16N
 CENTRAL MERIDIAN: 87° 00' W
 FALSE EASTING: 1,640,418.67 FEET at C.M.
 FALSE NORTHING: 0.00 FEET at 00° 00' N

**PROFILE**

HORIZONTAL SCALE:

VERTICAL SCALE:

0' 2,000'
0' 200'

VERTICAL EXAGGERATION = 10

DATE: 08/11/2017 TIME: 14:08 FILENAME: Z:\183050\ACAD\PERMIT\PRM183050_6IN-BULK-OIL.DWG

LLOG
 exploration

PREPARED
BY:**OCEANEERING**

OCEANEERING INTERNATIONAL, INC.
 730 E. KALISTE SALOOM RD.
 LAFAYETTE, LA 70508
 (337) 210-0000
 LA Reg. No. 747

PROP. 6" BULK OIL PIPELINE ROUTE
 Block 794, PLEM Hub, Mississippi Canyon Area
 to
 Block 834, "A" Platform, Ewing Bank Area

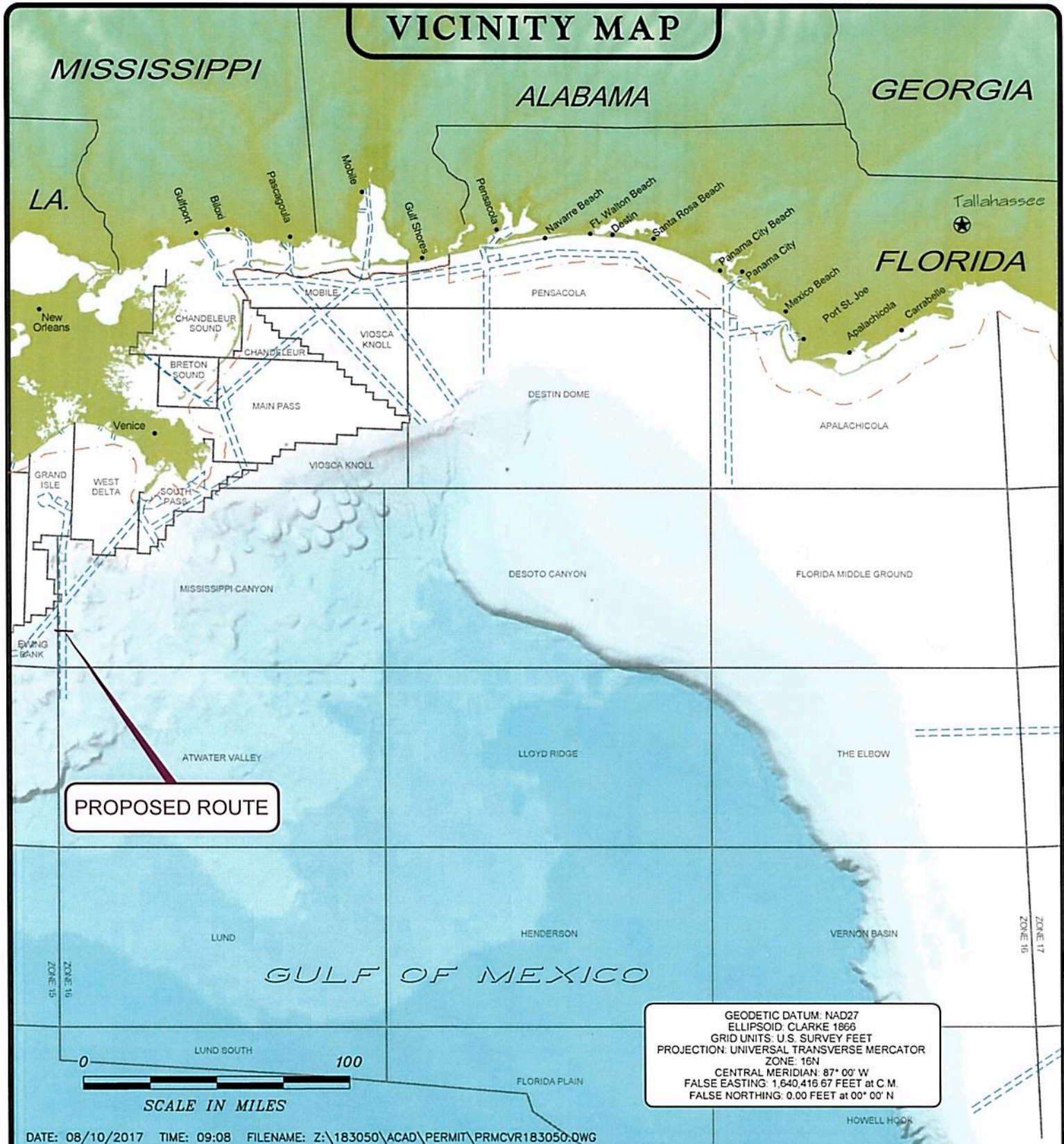
JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: J. Guidry, A. Mayet

FILE: PRM183050_6IN-BULK-OIL.DWG

SHEET 4 of 4REV.
0



LLOG
exploration

PROPOSED 5" UMBILICAL ROUTE
Block 834, "A" Platform, Ewing Bank Area
to
Block 794, UTA, Mississippi Canyon Area

PREPARED BY:

OCEANEERING

OCEANEERING INTERNATIONAL, INC.
730 E. KALISTE SALOOM RD.
LAFAYETTE, LA 70508
(337) 210-0000
LA Reg. No. 747

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: A. Mayet, J. Guidry

FILE: PRMCVR183050.DWG

SHEET 1 of 4

REV.
0

EW790OCS-G-33140
WALTER/NOBLE

UTM ZONE 15 COORDS.

X= 2,623,886.16'
Y= 10,231,425.97'

00+00.00'

WALTER "A" PLATFORM

X= 690,746.04'

Y= 10,230,590.00'

Lat= 28°09'36.649"N

Lon= 89°56'51.270"W

EW791

(Relinquished)

MC749

OCS-G-35831

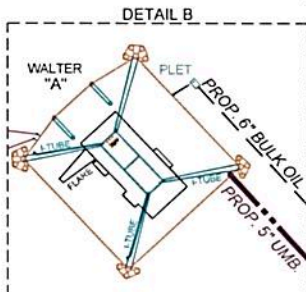
LLOG

**MC793**

OCS-G-33177

WALTER

CURVE 1 DATA	
PC1	12+70.49'
X=	691,598.75'
Y=	10,229,648.19'
Lat=	28°09'27.537"N
Lon=	89°56'41.497"W
PT1	65+14.35'
X=	696,280.31'
Y=	10,227,679.77'
Lat=	28°09'09.186"N
Lon=	89°55'48.714"W
PI1	
X=	693,479.80'
Y=	10,227,570.58'
R=	6,000.00'
T=	2,802.64'
Δ=	50°04'31"
L=	5,243.86'



SEE DETAIL B

S42°09'27"E
1,270.49'63+96.08'
BLOCKLINE CROSSING

X= 696,162.10'

Y= 10,227,676.33'

Lat= 28°09'09.123"N

Lon= 89°55'50.032"W

EW834

OCS-G-27982

WALTER

EW835

OCS-G-33707

WALTER

PROPOSED 5" UMBILICAL ROUTE
TOTAL LENGTH = 38,382.98' = 7.27 statute miles71+94.53'
ZONE CROSSING

X= 696,959.97'

Y= 10,227,706.27'

Lat= 28°09'09.610"N

Lon= 89°55'41.135"W

UTM ZONE 15 COORDS.

X= 2,630,235.60'

Y= 10,228,852.69'

THE PROPOSED ROUTE IS ACCURATELY
REPRESENTED.

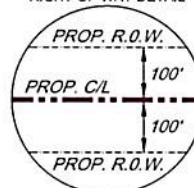
RALPH A. COLEMAN
PROFESSIONAL LAND SURVEYOR
LOUISIANA REGISTRATION No. 4691

FOR PERMITTING ONLY. STATIONING AND
LENGTHS REFER TO HORIZONTAL DISTANCE(S)
ONLY.**PLAN**

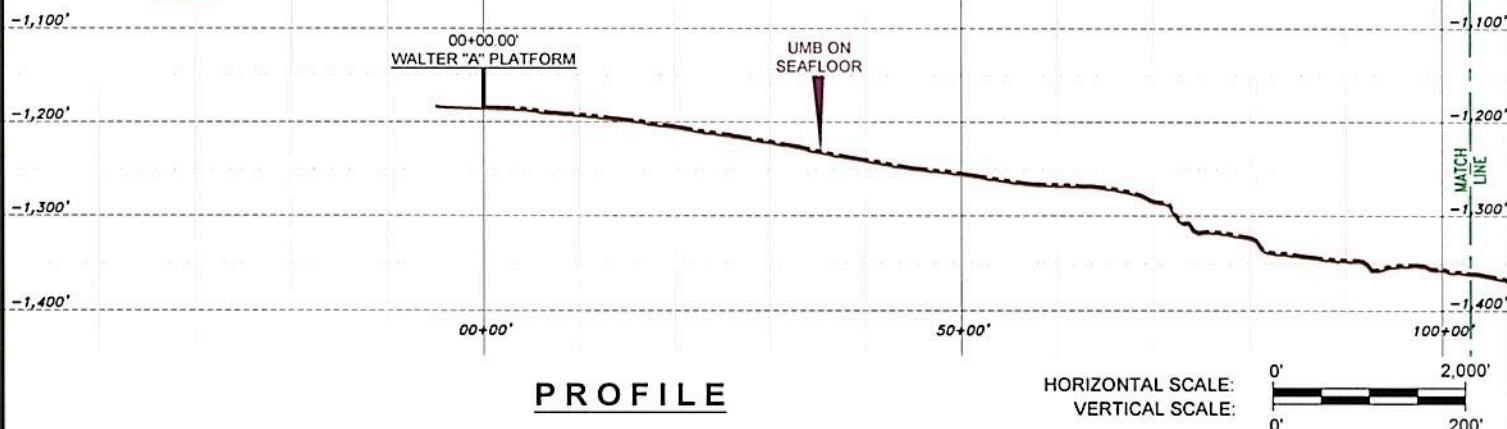
SCALE IN US SURVEY FEET

NADCON version 2.1 utilized for
WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETTIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 16N
CENTRAL MERIDIAN: 87° 00' W
FALSE EASTING: 1,640,418.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N

**PROFILE**HORIZONTAL SCALE:
VERTICAL SCALE:

DATE: 08/11/2017 TIME: 10:07 FILENAME: Z:\183050\ACAD\PERMIT\PRM183050_5IN-UMB.DWG

VERTICAL EXAGGERATION = 10

LLOG
exploration

PROPOSED 5" UMBILICAL ROUTE
Block 834, "A" Platform, Ewing Bank Area
to
Block 794, UTA, Mississippi Canyon Area

PREPARED
BY:

OCEANEERING

OCEANEERING INTERNATIONAL, INC.
730 E. KALISTE SALOOM RD.
LAFAYETTE, LA 70508
(337) 210-0000
LA Reg. No. 747

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: J. Guidry, A. Mayet

FILE: PRM183050_5IN-UMB.DWG

SHEET 2 of 4

REV.
0

MC749

OCS-G-35831

LLOG

SOUTH OF GULF SAFETY FAIRWAY

PROPOSED 5" UMBILICAL ROUTE

108+87.53'
ENTER FAIRWAY

X= 700,650.18'
Y= 10,227,850.14'
Lat= 28°09'11.913"N
Lon= 89°54'59.987"W

230+52.30'
EXIT FAIRWAY

X= 712,807.35'
Y= 10,228,174.32'
Lat= 28°09'17.992"N
Lon= 89°52'44.383"W

230+44.91'
BLOCKLINE CROSSING

X= 712,800.00'
Y= 10,228,175.16'
Lat= 28°09'17.999"N
Lon= 89°52'44.465"W

N88°37'50"E
5,262.18'

N87°46'02"E
10,355.70'



PROP 6" BULK OIL

CURVE 2 DATA

PC2 168+70.05'
X= 706,628.15'
Y= 10,228,083.20'
Lat= 28°09'15.636"N
Lon= 89°53'53.328"W
PT2 169+60.44'
X= 706,718.50'
Y= 10,228,086.04'
Lat= 28°09'16.932"N
Lon= 89°53'52.320"W
PI2
X= 706,673.31'
Y= 10,228,084.96'
R= 6,000.00'
T= 45.20'
Δ= 00°51'47"
L= 90.39'

CURVE 3 DATA

PC3 222+22.62'
X= 711,979.17'
Y= 10,228,211.81'
Lat= 28°09'18.169"N
Lon= 89°52'53.636"W
PT3 237+68.07'
X= 713,511.89'
Y= 10,228,050.46'
Lat= 28°09'16.932"N
Lon= 89°52'36.486"W
PI3
X= 712,755.98'
Y= 10,228,230.38'
R= 6,000.00'
T= 77.03'
Δ= 14°45'29"
L= 1,545.45'

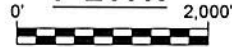
MC793

OCS-G-33177

WALTER

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

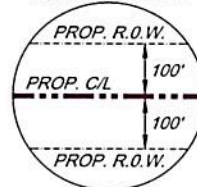
PLAN



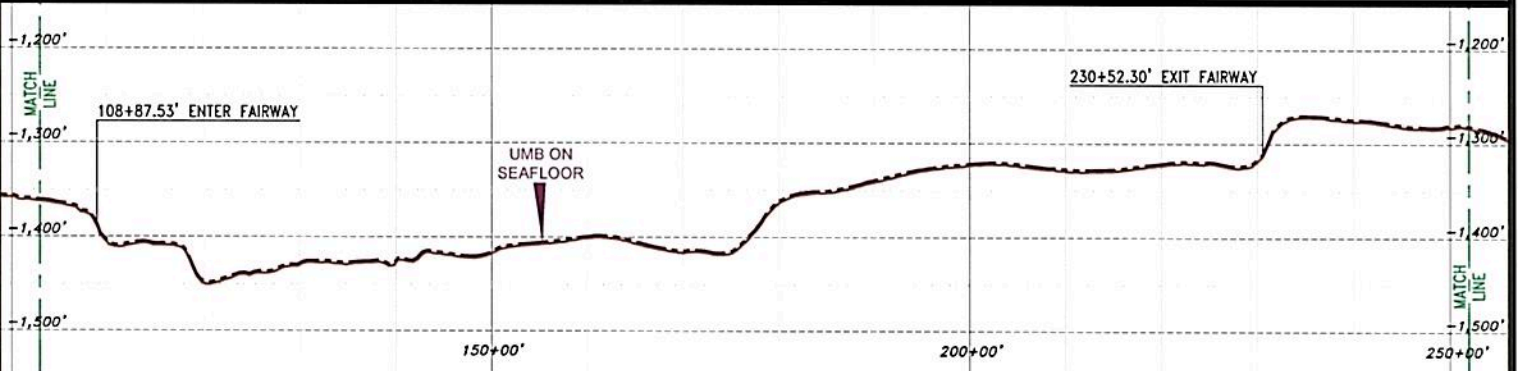
SCALE IN US SURVEY FEET

NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 16N
CENTRAL MERIDIAN: 87° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE

HORIZONTAL SCALE:
VERTICAL SCALE:



VERTICAL EXAGGERATION = 10

DATE: 08/11/2017 TIME: 10:08 FILENAME: Z:\183050\ACAD\PERMIT\PRM183050_5IN-UMB.DWG

LLOG
exploration

PREPARED BY:

OCEANEERING

OCEANEERING INTERNATIONAL, INC.
730 E. KALISTE SALOOM RD.
LAFAYETTE, LA 70508
(337) 210-0000
LA Reg. No. 747

PROPOSED 5" UMBILICAL ROUTE
Block 834, "A" Platform, Ewing Bank Area
to
Block 794, UTA, Mississippi Canyon Area

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: J. Guidry, A. Mayet

FILE: PRM183050_5IN-UMB.DWG

SHEET 3 of 4

REV.
0

MC750

OCS-G-35832

LLOG

MC751

OCS-G-33175

LLOG

DETAIL A

PROP. 6" BULK OIL
PLEM
OCS-G-34909
Well No. S5001

PROP. 4" UMB

PROP. 5" UMB

CURVE 4 DATA

PC4 257+90.49'
X= 715,479.34'
Y= 10,227,582.16'
Lat= 28°09'12.760"N
Lon= 89°52'14.402"W
PT4 271+92.53'
X= 716,868.65'
Y= 10,227,419.10'
Lat= 28°09'11.472"N
Lon= 89°51'58.852"W
PI4
X= 716,164.43'
Y= 10,227,419.10'
R= 6,000.00'
T= 704.23'
Δ= 13°23'19"
L= 1,402.04'

CURVE 5 DATA

PC5 364+32.76'
X= 726,108.89'
Y= 10,227,419.10'
Lat= 28°09'13.621"N
Lon= 89°50'15.715"W
PT5 365+89.84'
X= 726,208.89'
Y= 10,227,319.10'
Lat= 28°09'12.655"N
Lon= 89°50'14.572"W
PI5
X= 726,208.89'
Y= 10,227,419.10'
R= 100.00'
T= 100.00'
Δ= 90°00'00"
L= 157.08'

CURVE 6 DATA

PC6 371+39.84'
X= 726,208.89'
Y= 10,226,769.10'
Lat= 28°09'07.213"N
Lon= 89°50'14.429"W
PT6 372+96.92'
X= 726,308.89'
Y= 10,226,669.10'
Lat= 28°09'06.247"N
Lon= 89°50'13.287"W
PI6
X= 726,208.89'
Y= 10,226,669.10'
R= 100.00'
T= 100.00'
Δ= 90°00'00"
L= 157.08'

CURVE 7 DATA

PC7 375+46.92'
X= 726,558.89'
Y= 10,226,669.10'
Lat= 28°09'06.305"N
Lon= 89°50'10.496"W
PT7 377+04.00'
X= 726,658.89'
Y= 10,226,769.10'
Lat= 28°09'07.318"N
Lon= 89°50'09.406"W
PI7
X= 726,658.89'
Y= 10,226,669.10'
R= 100.00'
T= 100.00'
Δ= 90°00'00"
L= 157.08'

UTM ZONE 15 COORDS.

X= 2,659,915.99'
Y= 10,230,062.91'
383+82.98'
UTA
X= 726,658.89'
Y= 10,227,448.07'
Lat= 28°09'14.035"N
Lon= 89°50'09.583"W

NAD27 / UTM15N
GRID NORTH

NORTH
678.98'

MC795
OCS-G-35984
LLOG

MC794

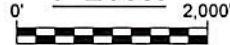
OCS-G-34909

LLOG

PROPOSED 5" UMBILICAL ROUTE
TOTAL LENGTH = 38,382.98' = 7.27 statute miles

FOR PERMITTING ONLY. STATIONING AND LENGTHS REFER TO HORIZONTAL DISTANCE(S) ONLY.

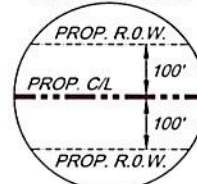
PLAN



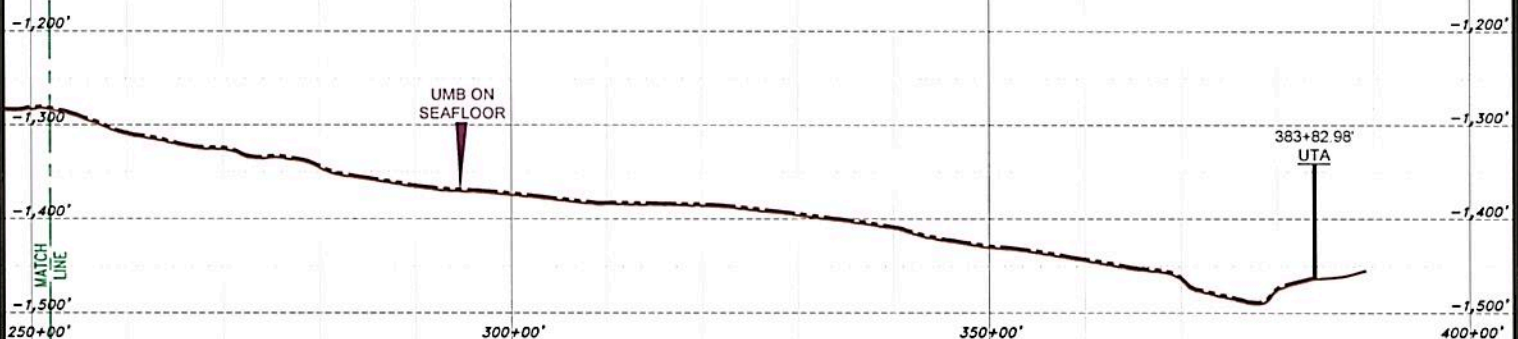
SCALE IN US SURVEY FEET

NADCON version 2.1 utilized for WGS84-NAD27 conversions.

RIGHT-OF-WAY DETAIL



GEODETTIC DATUM: NAD27
ELLIPSOID: CLARKE 1866
GRID UNITS: U.S. SURVEY FEET
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
ZONE: 15N
CENTRAL MERIDIAN: 87° 00' W
FALSE EASTING: 1,640,416.67 FEET at C.M.
FALSE NORTHING: 0.00 FEET at 00° 00' N



PROFILE

HORIZONTAL SCALE:
VERTICAL SCALE:



VERTICAL EXAGGERATION = 10

DATE: 08/11/2017 TIME: 10:08 FILENAME: Z:\183050\ACAD\PERMIT\PRM183050_5IN-UMB.DWG

LLOG
exploration

PREPARED BY:

OCEANEERING

OCEANEERING INTERNATIONAL, INC.
730 E. KALISTE SALOOM RD.
LAFAYETTE, LA 70508
(337) 210-0000
LA Reg. No. 747

PROPOSED 5" UMBILICAL ROUTE
Block 834, "A" Platform, Ewing Bank Area
to
Block 794, UTA, Mississippi Canyon Area

JOB No: 183050

DATE: Aug. 11, 2017

DRAWN: J. Guidry, A. Mayet

FILE: PRM183050_5IN-UMB.DWG

SHEET 4 of 4

REV.
0