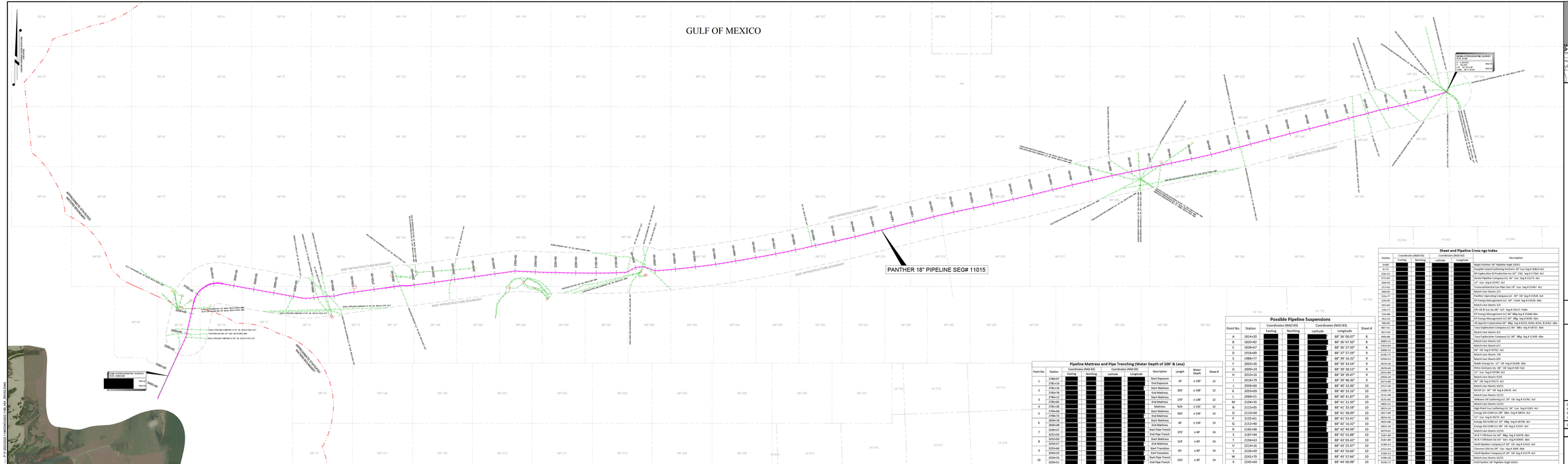

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES FINISHED PIPELINE PER TBS SURVEY
- DENOTES PIPELINES PER BOEM/BSEE RECORDS
- DENOTES EXTENSIVE BLOCK BOUNDARY
- DENOTES STATE/ FEDERAL WATER BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE

NOTES:
SURVEY WAS CONDUCTED ON OCTOBER 21-24 OF 2022 ON BOARD THE DUKE OSTENSIVE VESSEL 150 CLYDEY LTN LONG A 4-MAN SURVEY CREW WITH THE FOLLOWING EQUIPMENT
- KONGSBERG HYPACK
- SONOMIC 2024 MULTIBEAM ECHOSOUNDER
- GEOMETRICS G882 MAG MAGNETOMETER

ALL COORDINATES SHOWN ARE DEPICTED IN THE HORIZONTAL DATUM OF LOUISIANA SOUTH STATE PLANE NAD83.

WHILE REASONABLE EFFORTS ARE MADE TO LOCATE ALL PIPELINES, METAL OBJECTS OR OTHER SUBSURFACE FEATURES, THE ACCURACY OF SUCH SURVEYS IS DEPENDENT ON THE CHARACTERISTICS OF THE OBJECTS BEING SURVEYED AND MAKE IT IMPOSSIBLE TO GUARANTEE TOTAL SUCCESS. ACCORDINGLY IT IS INCUMBENT UPON THE OWNERS, OPERATORS AND CONTRACTORS INVOLVED IN ANY OPERATION TO MAKE THEIR OWN INVESTIGATIONS AND EVALUATION TO CONDUCT THEIR OPERATIONS WITH CARE. CAUTION AND PRECAUTIONARY MEASURES SHOULD BE EXERCISED IN ANY AREA WHERE PIPELINES ARE LOCATED.

THIS DRAWING MAY NOT REPRESENT ALL HAZARDS WITHIN THE PROJECT AREA. IN ADDITION PIPELINES DEPICTED IN THIS MAP MAY BE LOCATED IN A LOCATION OTHER THAN WHICH THEY ARE SHOW

REVISIONS NOTE: TO SHEET 6, 15, AND 16 WERE DISCOVERED BY SUBMAN RUBBLE. REVISIONS ADDED TO REVISION DOCUMENT TITLED "19 OF 06, SCS, NO. 11015 REMOVAL, TRENCHING REPORT"

SCALE 1" = 2000'
0 2000 4000 6000 8000 10000 12000 14000 16000

Pipeline Mattress and Pipe Trenching (Water Depth of 200' & Less)

Point No.	Station	Coordinates (NAD 83) Easting	Northing	Latitude	Longitude	Description	Length	Water Depth	Sheet #
1	2780+97					Start Exposure	19'	± 138'	12
	2781+16					End Exposure			
2	2781+18					Start Mattress	26'	± 138'	12
	2783+78					End Mattress			
3	2784+12					Start Mattress	170'	± 138'	12
	2785+82					End Mattress			
4	2781+30					Mattress	N/A	± 135'	12
5	2794+68					Start Mattress	500'	± 134'	12
	2799+73					End Mattress			
6	2836+18					Start Mattress	30'	± 134'	13
	2836+48					End Mattress			
7	3249+27					Start Pipe Trench	276'	± 40'	14
	3252+03					End Pipe Trench			
8	3252+03					Start Mattress	134'	± 40'	14
	3253+37					End Mattress			
9	3253+60					Start Transition	65'	± 40'	14
	3254+25					End Transition			
10	3254+25					Start Pipe Trench	526'	± 40'	14
	3259+51					End Pipe Trench			

Possible Pipeline Suspensions

Point No.	Station	Coordinates (NAD 83) Easting	Northing	Latitude	Longitude	Sheet #
A	1814+20				88° 36' 00.07"	8
B	1820+82				88° 36' 07.50"	8
C	1838+67				88° 36' 27.50"	8
D	1918+89				88° 37' 53.94"	9
E	1988+77				88° 39' 16.32"	9
F	2003+26				88° 39' 34.54"	9
G	2009+24				88° 39' 38.53"	9
H	2010+16				88° 39' 39.47"	9
I	2018+79				88° 39' 48.36"	9
J	2058+60				88° 40' 32.06"	10
K	2059+69				88° 40' 33.16"	10
L	2068+51				88° 40' 43.87"	10
M	2104+35				88° 41' 21.50"	10
N	2115+05				88° 41' 33.54"	10
O	2119+04				88° 41' 38.09"	10
P	2132+61				88° 41' 53.41"	10
Q	2152+90				88° 42' 16.32"	10
R	2182+68				88° 42' 49.94"	10
S	2187+34				88° 42' 55.80"	10
T	2194+63				88° 43' 03.43"	10
U	2214+16				88° 43' 25.47"	10
V	2236+49				88° 43' 50.66"	10
W	2242+70				88° 43' 57.66"	10
X	2245+54				88° 44' 00.98"	10

Sheet and Pipeline Cross ngs Index

Station	Coordinates (NAD 83) Easting	Northing	Latitude	Longitude	Description
0+00					Begin Panther 18" Pipeline Segt 11015
9+75					Oceanline Inland Gathering Partners, GP Gas Segt # 50014 Act
134+72					BP Exploration & Production Inc GC~ CSN. Segt # 7 Unk Act
173+81					Destin Pipeline Company LLC 36" Gas. Segt # 11171 Act
204+91					12". Gas Segt # 19767 Act
217+62					Transcontinental Gas Pipe Line 24" Gas Segt # 11367 Act
268+05					Match Line Sheets 2/3
326+77					Panther Operating Company LLC 59" Oil Segt # 15928 Act
526+95					GP Energy Management LLC 34" Cond Segt # 15636 Abn
541+45					Match Line Sheets 3/4
726+77					GPL Oil & Gas Inc 06" ~G/C. Segt # 19171 Pabn
729+80					GP Energy Management LLC 06" 8Bg Segt # 15686 Abn
762+31					GP Energy Management LLC 04" 8Bg Segt # 81365 Abn
784+85					Hi Apache Corporation 04" 8Bg Segt # 81719, 81366, 81921, & 81922 Abn
807+55					Tana Exploration Company LLC 06" 8Bn~ Segt # 18715 Abn
815+00					Match Line Sheets 4/5
840+84					Tana Exploration Company LLC 06" 8Bg Segt # 15449 Abn
1089+13					Match Line Sheets 5/6
1363+91					Match Line Sheets 6/7
1608+12					04" OE Segt # 19762 Act
1636+75					Match Line Sheets 7/8
1910+52					Match Line Sheets 8/9
2024+36					Noble Energy Inc 12" OE Segt # 36106 Abn
2029+68					Petro Ventures Inc 06" OE Segt # 836 Out
2033+84					12". Gas Segt # 19784 Act
2050+36					Match Line Sheets 9/10
2073+89					06" OE Segt # 19171 Act
2077+71					Match Line Sheets 10/11
2100+78					MASA LLC 10" OE Segt # 49143 Act
2325+00					Match Line Sheets 11/12
2535+48					Williams Oil Gathering LLC 10". OE Segt # 51762 Act
2800+12					Match Line Sheets 12/13
2811+24					High Point Gas Gathering LLC 34" Gas Segt # 4281 Act
2817+44					Energy XXI GOM LLC 08". 8Bn~ Segt # 08076 Act
2819+45					12" Gas Segt # 20215 Act
2843+00					Energy XXI GOM LLC 10". 8Bg Segt # 08796 Act
2903+16					Energy XXI GOM LLC 08" OE Segt # 15547 Act
3079+62					Match Line Sheets 13/14
3167+89					W & T Offshore Inc 04" 8Bg Segt # 60478 Abn
3187+89					W & T Offshore Inc 03" Serv Segt # 30945 Abn
3190+17					Shell Pipeline Company LP 30" OE Segt # 51531 Act
3252+15					Chevron USA Inc 04" Gas Segt # 3669 Abn
3260+73					Shell Pipeline Company LP 20" OE Segt # 81379 Act
3290+20					Match Line Sheets 14/15
3424+72					End Panther 18" Pipeline Segt# 11015

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A CENTURY OF SOLUTIONS
4700 Hollywood Blvd., Houston, TX 77035
(800)888-TBSD - bsmith.com

DRAWN BY:	GA.	PROJECTION:	LA-S (1702)
APPROVED BY:	MTE	GEO. DATUM:	NAD83
DATE:	11/22/22	VERT. DATUM:	NAVD88
JOB NO.:	2022.1186	GRID UNITS:	US SURVEY FEET

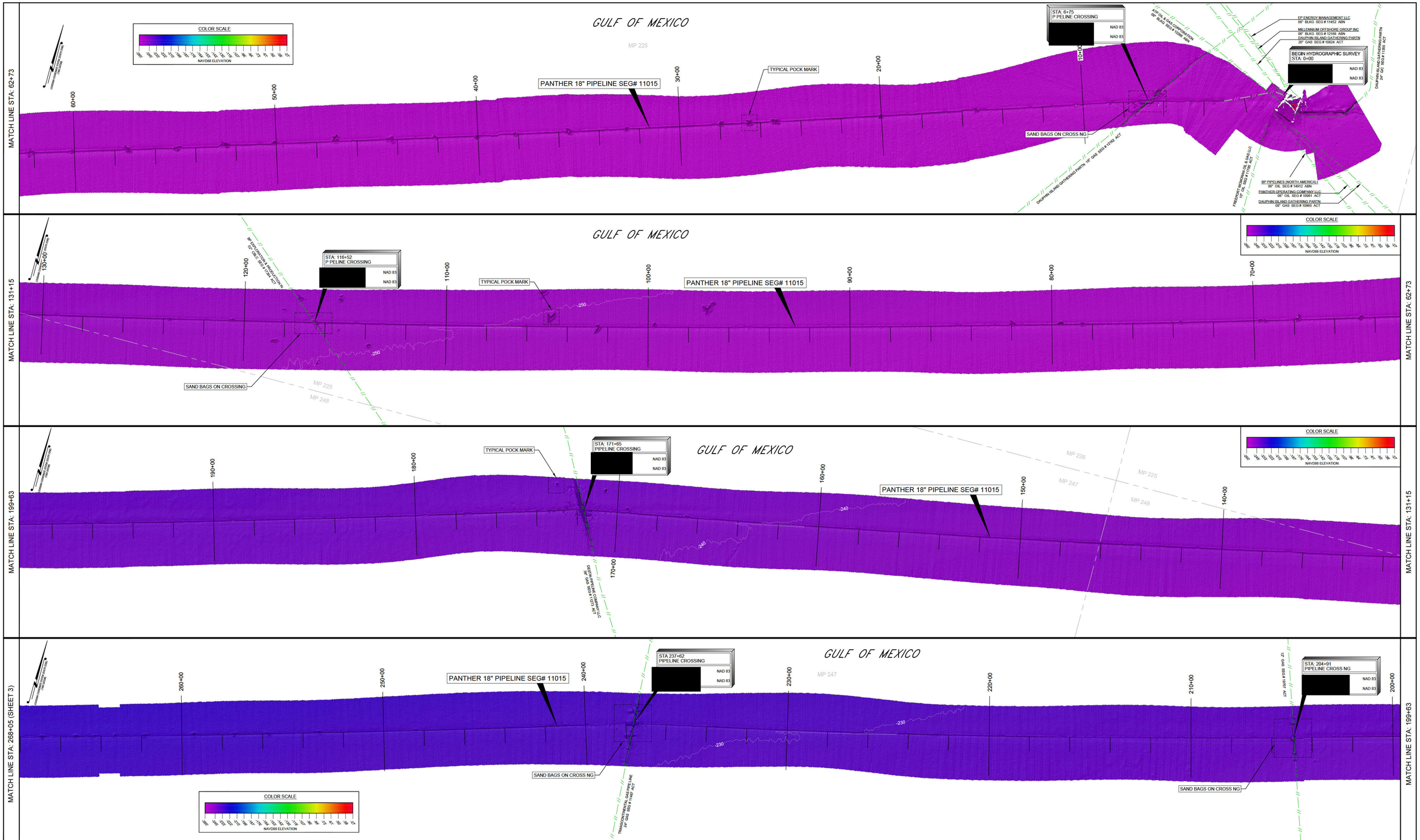
DRAWING NAME: 2022.1186_HYS.dwg SHEET NO: 1 OF 17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MPOS-010320_0



LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

TBS T. BAKER SMITH
A CENTURY OF SOLUTIONS
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		

PROJECTION: LA-S (1702)
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 2 OF 17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MPOG-010326_R

MATCH LINE STA: 336+45

GULF OF MEXICO

330+00 320+00 310+00 300+00 290+00 280+00 270+00

PANTHER 18" PIPELINE SEG# 11015

TYPICAL POCK MARK

-220 -220 -220

MP 246 MP 247

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 268+05 (SHEET 2)

MATCH LINE STA: 404+85

GULF OF MEXICO

400+00 390+00 380+00 370+00 360+00 350+00 340+00

PANTHER 18" PIPELINE SEG# 11015

TYPICAL POCK MARK

MP 246

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 336+45

MATCH LINE STA: 473+25

GULF OF MEXICO

470+00 460+00 450+00 440+00 430+00 420+00 410+00

TYPICAL POCK MARK

PANTHER 18" PIPELINE SEG# 11015

-210 -210

MP 245 MP 246

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 404+85

MATCH LINE STA: 541+65 (SHEET 4)

GULF OF MEXICO

MP 245

540+00 530+00 520+00 510+00 500+00 490+00 480+00

EP ENERGY MANAGEMENT LLC
04" COND SEG # 11636 ABN

STA: 526+77
SUB SEA T E IN
NAD 83
NAD 83

PANTHER 18" PIPELINE SEG# 11015

-210 -210 -210 -210 -210 -210

STA: 526+95
SUB SEA T E IN
NAD 83
NAD 83

PANTHER OPERATING COMPANY LLC
10" OIL SEG # 11928 ACT

TYPICAL POCK MARK

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 473+25

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REVISIONS	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

T. BAKER SMITH
A CENTURY OF SOLUTIONS
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	3	OF	17

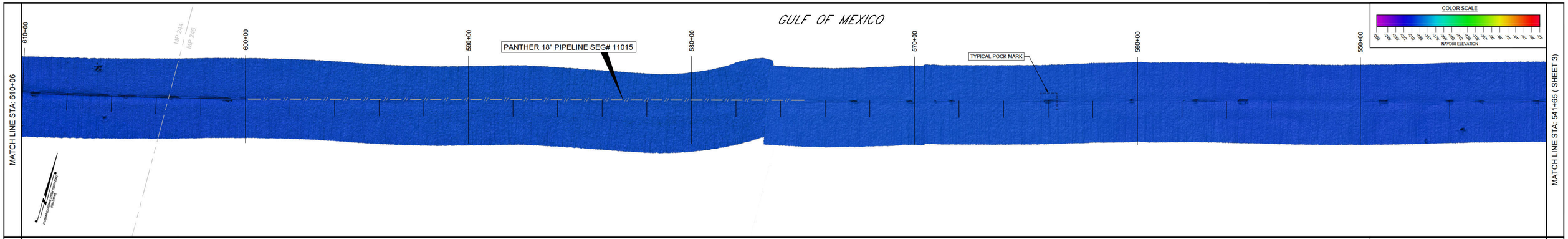
2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

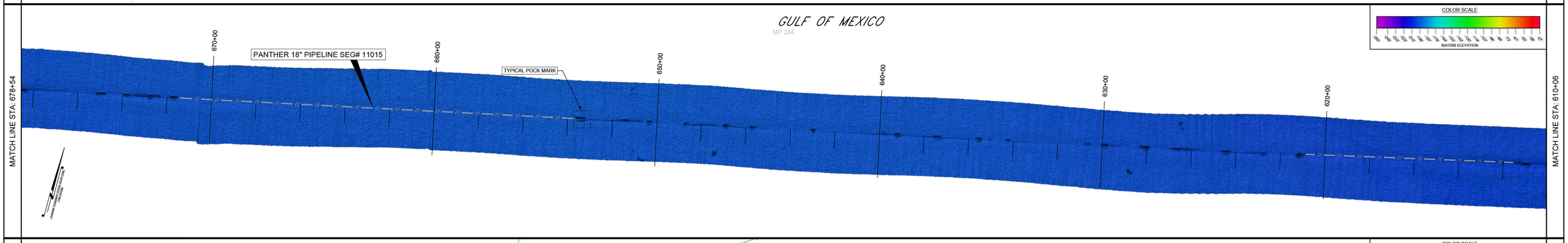
MPOG-010327_R

MATCH LINE STA: 610+06



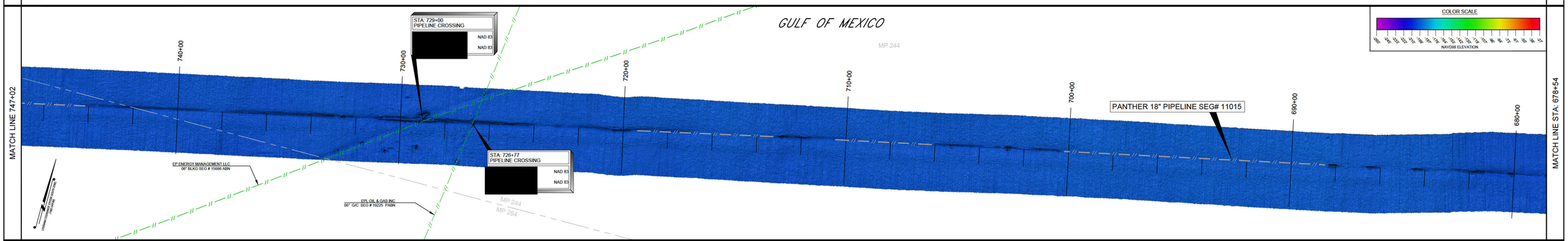
MATCH LINE STA: 541+65 (SHEET 3)

MATCH LINE STA: 678+54



MATCH LINE STA: 610+06

MATCH LINE STA: 747+02



MATCH LINE STA: 678+54

MATCH LINE STA: 815+50 (SHEET 5)

MATCH LINE STA: 747+02

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

T. BAKER SMITH
A CENTURY OF SOLUTIONS
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	4	OF	17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MPOG-010328_R

MATCH LINE STA: 883+98

GULF OF MEXICO

880+00 870+00 PANTHER 18" PIPELINE SEG# 11015 860+00 MP 265 850+00 TANA EXPLORATION COMPANY LLC 06" BLK0 SEG # 12449 ABN 840+00 TYPICAL POCK MARK 830+00 820+00

STA: 840+86
PIPELINE CROSSING
NAD 83
NAD 83

COLOR SCALE
NAVD88 ELEVATION

MATCH LINE STA: 815+50 (SHEET 4)

MATCH LINE STA: 952+40

GULF OF MEXICO

950+00 940+00 930+00 PANTHER 18" PIPELINE SEG# 11015 920+00 910+00 MP 266 MP 265 900+00 890+00

TYPICAL POCK MARK

COLOR SCALE
NAVD88 ELEVATION

MATCH LINE STA: 883+98

MATCH LINE STA: 1020+82

GULF OF MEXICO

1020+00 1010+00 PANTHER 18" PIPELINE SEG# 11015 1000+00 TYPICAL POCK MARK 990+00 MP 266 980+00 970+00 960+00

COLOR SCALE
NAVD88 ELEVATION

MATCH LINE STA: 952+40

MATCH LINE STA: 1089+23 (SHEET 6)

GULF OF MEXICO

1080+00 1070+00 TYPICAL POCK MARK 1060+00 MP 267 MP 266 1050+00 PANTHER 18" PIPELINE SEG# 11015 1040+00 1030+00

COLOR SCALE
NAVD88 ELEVATION

MATCH LINE STA: 1020+82

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

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(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	5	OF	17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MATCH LINE STA: 1157+68

GULF OF MEXICO

MP 267

PANTHER 18" PIPELINE SEG# 11015

TYPICAL POCK MARK

1150+00 1140+00 1130+00 1120+00 1110+00 1100+00 1090+00

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 1089+23 (SHEET 5)

MATCH LINE STA: 1226+17

GULF OF MEXICO

MP 268 MP 267

PANTHER 18" PIPELINE SEG# 11015

TYPICAL POCK MARK

1220+00 1210+00 1200+00 1190+00 1180+00 1170+00 1160+00

-210

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 1157+68

MATCH LINE STA: 1294+63

GULF OF MEXICO

MP 268

STA: 1283+43
SUB-SEA T.E.-IN
NAD 83
NAD 83

TYPICAL POCK MARK

PANTHER 18" PIPELINE SEG# 11015

PANTHER 18" PIPELINE SEG# 20793
AS PER TBS AS-BUILT DWG:
"220538_MP268-289_ASB_S20793-1"

1290+00 1280+00 1270+00 1260+00 1250+00 1240+00 1230+00

-210

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 1226+17

MATCH LINE STA: 1363+03 (SHEET 7)

GULF OF MEXICO

MP 269 MP 268

MP 268

TYPICAL POCK MARK

PANTHER 18" PIPELINE SEG# 11015

1360+00 1350+00 1340+00 1330+00 1320+00 1310+00 1300+00

-210

COLOR SCALE

NAVD88 ELEVATION

MATCH LINE STA: 1294+63

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REVISIONS	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

T. BAKER SMITH
A CENTURY OF SOLUTIONS
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(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	6	OF	17

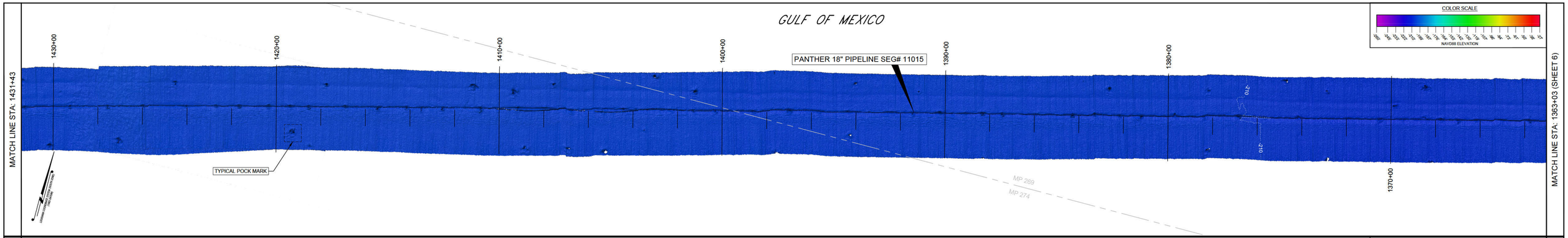
2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

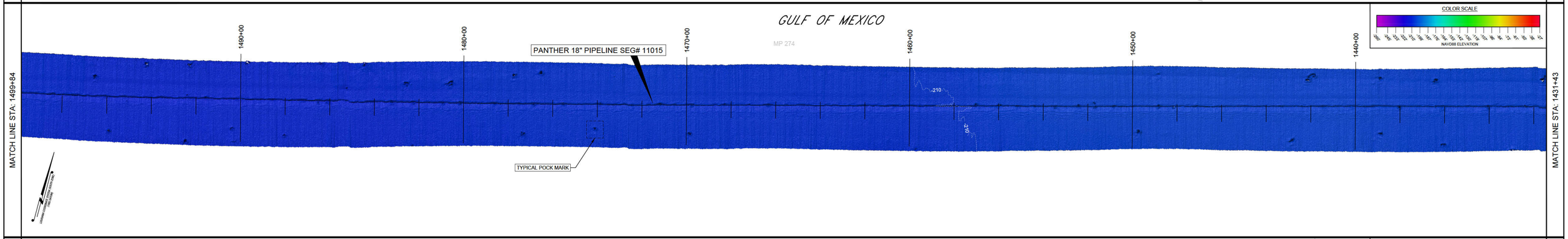
MPOG-010330_R

MATCH LINE STA: 1431+43



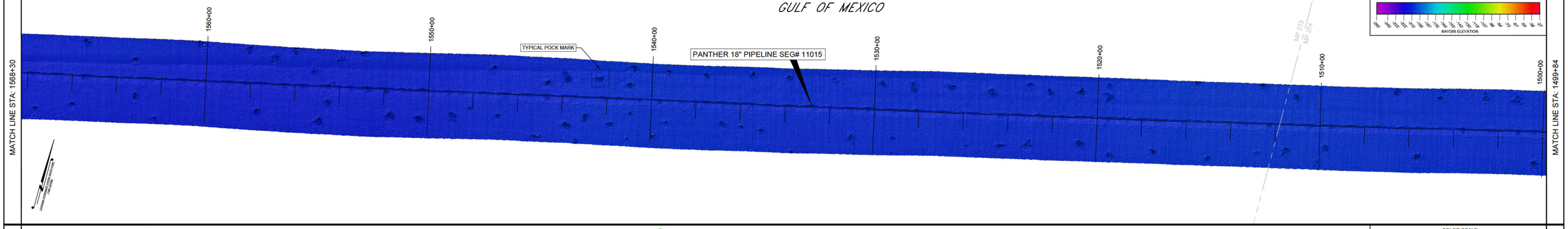
MATCH LINE STA: 1363+03 (SHEET 6)

MATCH LINE STA: 1499+84



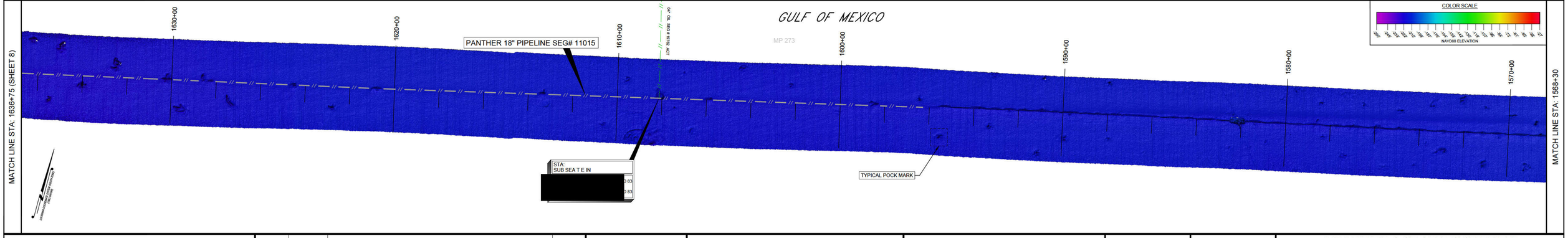
MATCH LINE STA: 1431+43

MATCH LINE STA: 1568+30



MATCH LINE STA: 1499+84

MATCH LINE STA: 1636+75 (SHEET 8)



MATCH LINE STA: 1568+30

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

T. BAKER SMITH
A CENTURY OF SOLUTIONS
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	17	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	7	OF	17

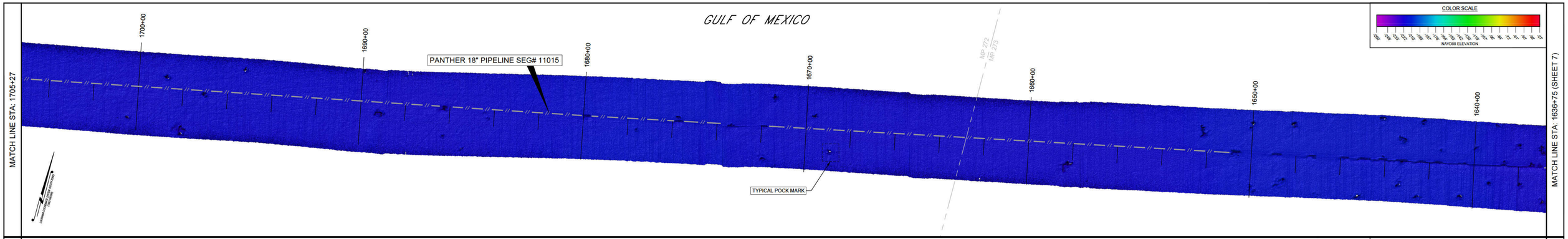
2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

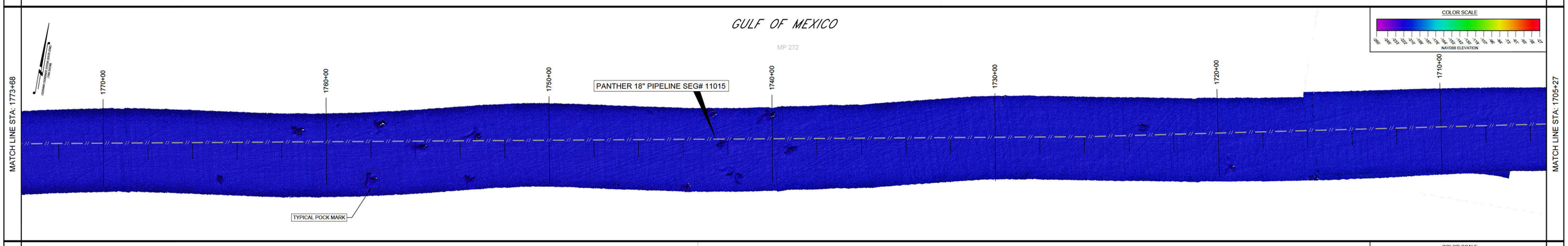
MPOG-010331_R

MATCH LINE STA: 1705+27



MATCH LINE STA: 1636+75 (SHEET 7)

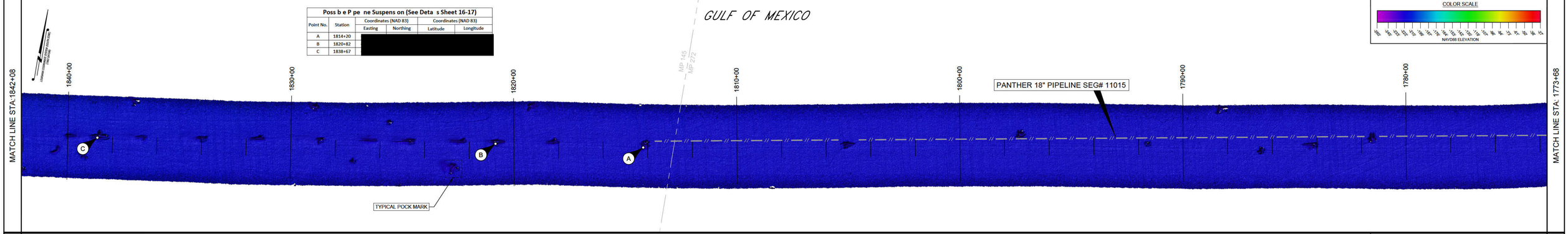
MATCH LINE STA: 1773+68



MATCH LINE STA: 1705+27

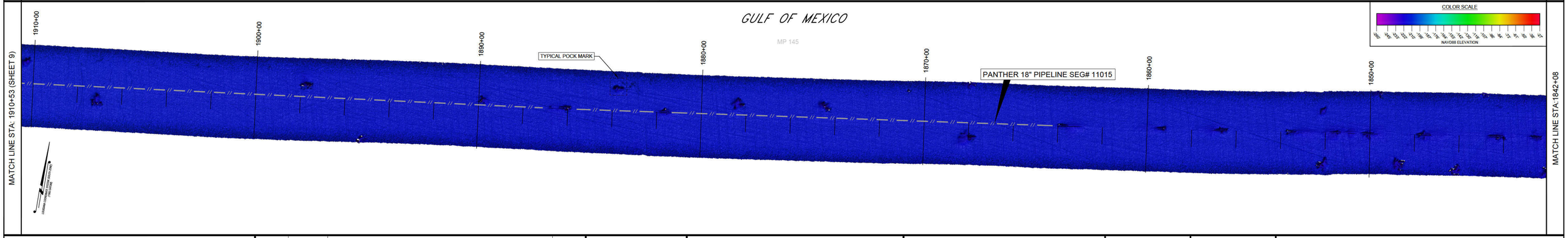
MATCH LINE STA:1842+08

Poss b e P pe ne Suspens on (See Deta s Sheet 16-17)					
Point No.	Station	Coordinates (NAD 83)		Coordinates (NAD 83)	
		Easting	Northing	Latitude	Longitude
A	1814+20	[redacted]			
B	1820+82				
C	1838+67				



MATCH LINE STA: 1773+68

MATCH LINE STA: 1910+53 (SHEET 9)



MATCH LINE STA:1842+08

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

T. BAKER SMITH
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PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

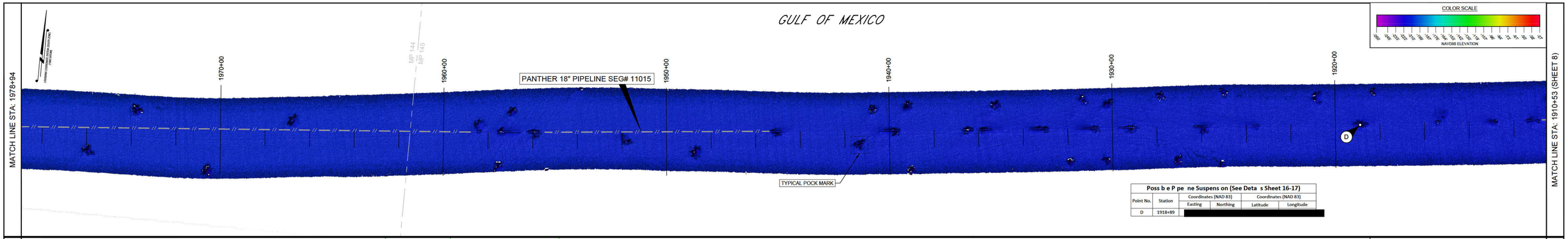
DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	8	OF	17

2022 HYDROGRAPHIC SURVEY

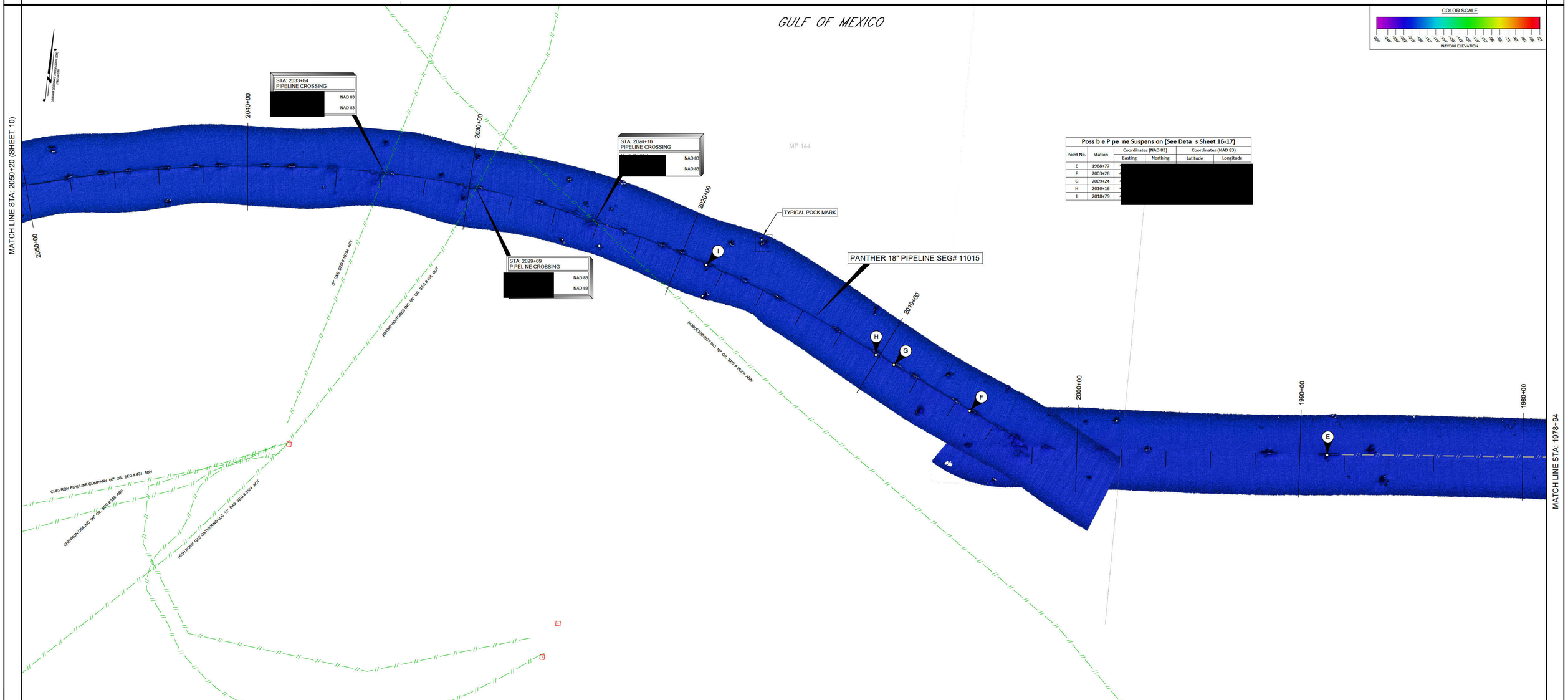
THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MPOG-010332_R



Poss b e P pe ne Suspens on (See Deta s Sheet 16-17)					
Point No.	Station	Coordinates (NAD 83)		Coordinates (NAD 83)	
		Easting	Northing	Latitude	Longitude
D	1918+89	[redacted]			



Poss b e P pe ne Suspens on (See Deta s Sheet 16-17)					
Point No.	Station	Coordinates (NAD 83)		Coordinates (NAD 83)	
		Easting	Northing	Latitude	Longitude
E	1988+77	[redacted]			
F	2003+26				
G	2009+24				
H	2010+16				
I	2018+79				

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

TBS T. BAKER SMITH
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412 South Van Ave, Houma, LA 70363
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PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	JAC
DRAWING NAME:	2022.1196_H01_REV03.DWG		

PROJECTION: LA-S (1702)
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

SHEET NO: 9 OF 17

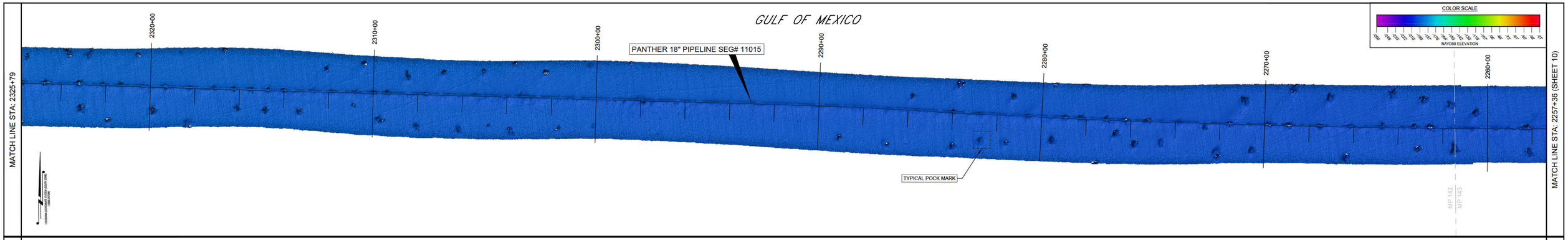
2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

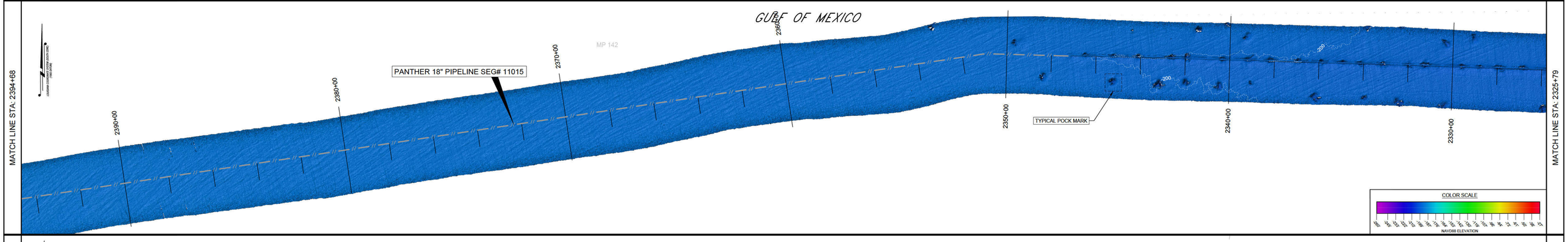
MPOG-010333_R

MATCH LINE STA: 2325+79



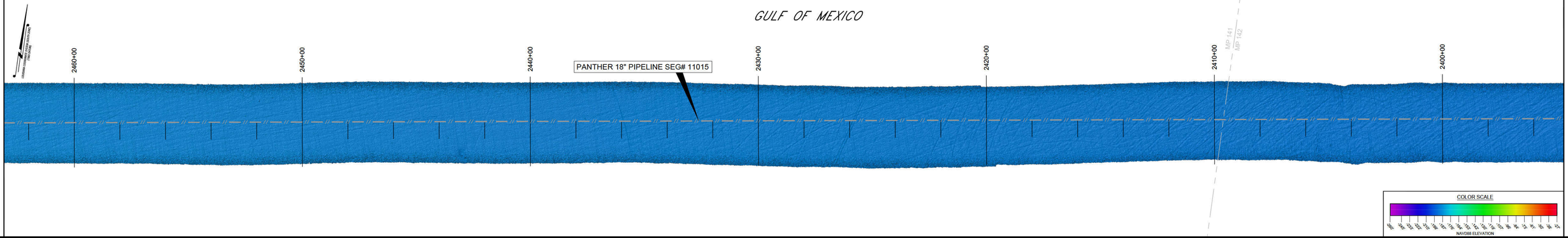
MATCH LINE STA: 2257+36 (SHEET 10)

MATCH LINE STA: 2394+68



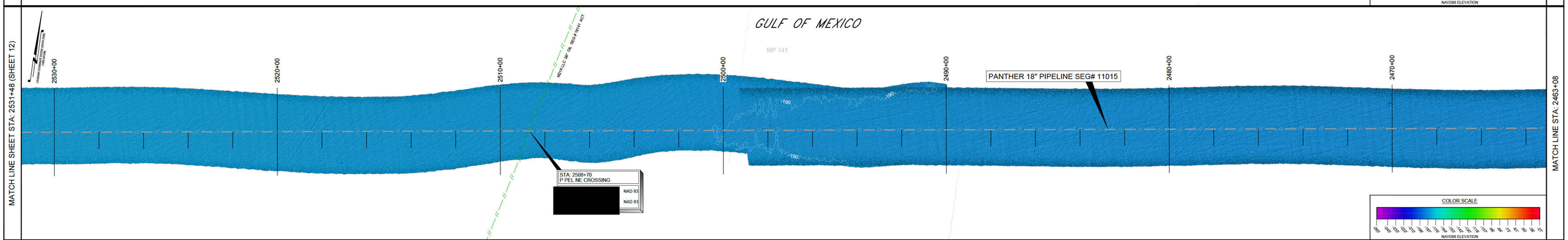
MATCH LINE STA: 2325+79

MATCH LINE STA: 2463+08



MATCH LINE STA: 2394+68

MATCH LINE SHEET STA: 2531+48 (SHEET 12)



MATCH LINE STA: 2463+08

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REVISIONS	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

TBS T. BAKER SMITH
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PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	11	OF	17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

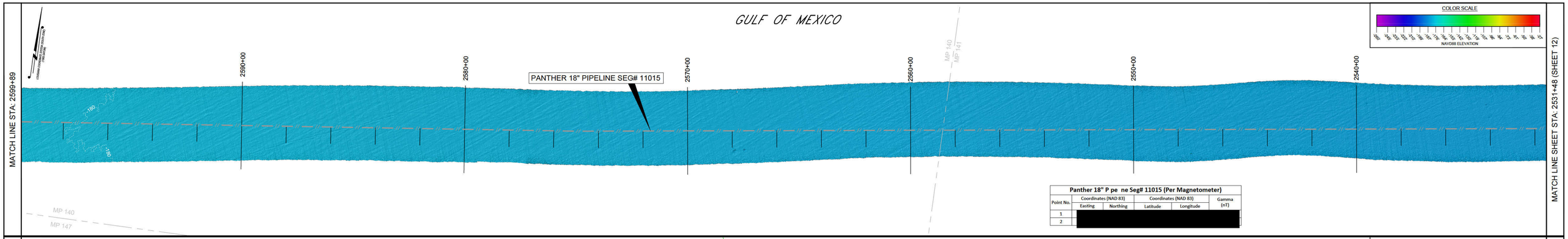
HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MPOG-010335_R

MATCH LINE STA: 2599+89

MATCH LINE SHEET STA: 2531+48 (SHEET 12)

GULF OF MEXICO



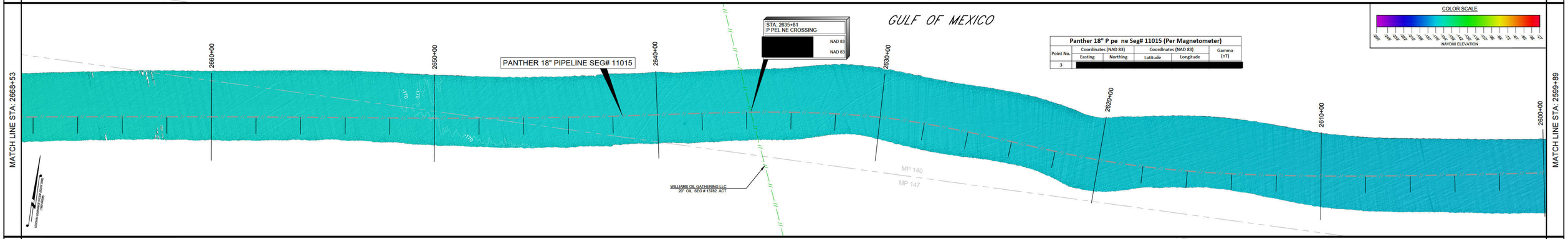
Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
1	[redacted]				
2					

MATCH LINE STA: 2668+53

MATCH LINE STA: 2599+89

GULF OF MEXICO



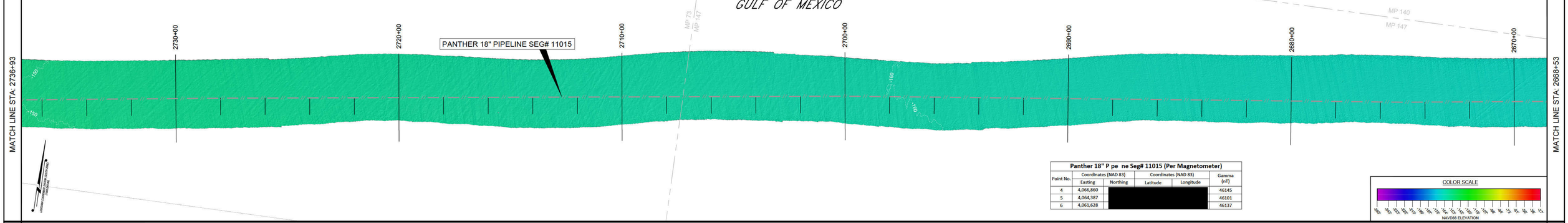
Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
3	[redacted]				

MATCH LINE STA: 2736+93

MATCH LINE STA: 2668+53

GULF OF MEXICO



Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
4	4,066,860	[redacted]			46145
5	4,064,387				46101
6	4,061,628				46137

MATCH LINE STA: 2805+52 (SHEET 13)

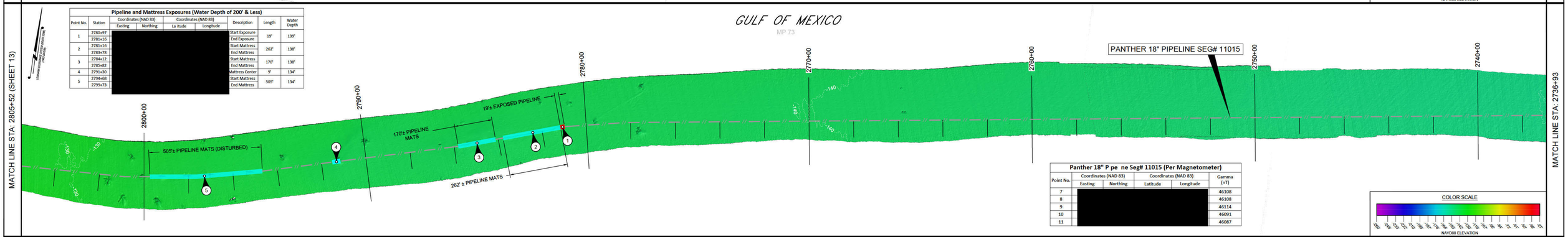
MATCH LINE STA: 2736+93

GULF OF MEXICO

MP 73

Pipeline and Mattress Exposures (Water Depth of 200' & Less)

Point No.	Station	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) La itude	Coordinates (NAD 83) Longitude	Description	Length	Water Depth
1	2780+97	[redacted]				Start Exposure	19'	139'
	2781+16					End Exposure		
2	2781+16					Start Mattress	262'	138'
	2783+78					End Mattress		
3	2784+12					Start Mattress	170'	138'
	2785+82					End Mattress		
4	2791+30					Mattress Center	9'	134'
5	2794+68					Start Mattress	505'	134'
	2799+73					End Mattress		



Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
7	[redacted]				46108
8					46108
9					46114
10					45091
11					46087

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINE MATS VIA SULMARA SUBSEA
- DENOTES EXPOSED PIPELINE VIA SULMARA SUBSEA
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

T. BAKER SMITH
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PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		

PROJECTION: LA-S (1702)
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88
GRID UNITS: US SURVEY FEET

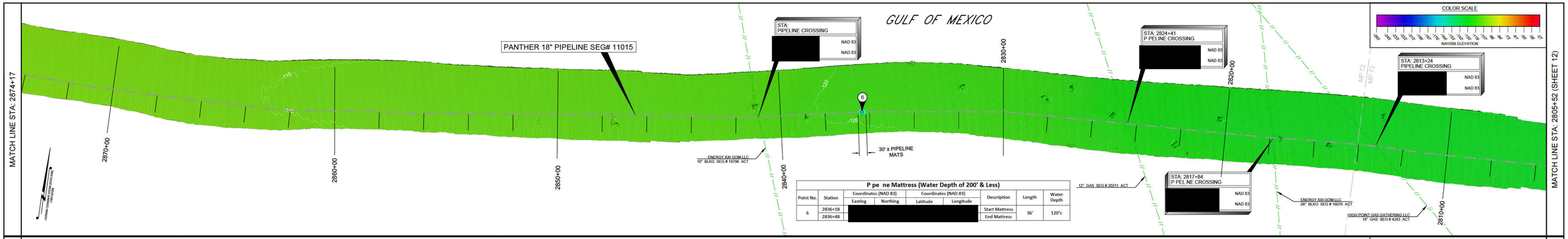
SHEET NO: 12 OF 17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MATCH LINE STA: 2874+17

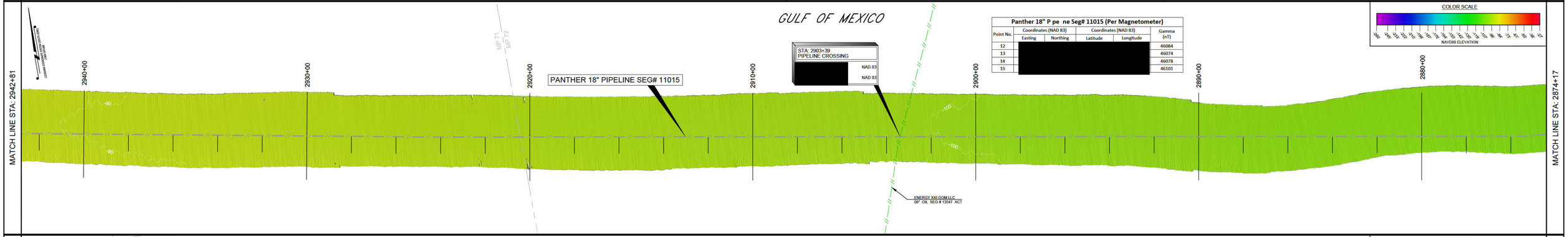


P pe ne Mattress (Water Depth of 200' & Less)

Point No.	Station	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Description	Length	Water Depth
6	2836+18	[redacted]				Start Mattress	36'	120'±
	2836+48					End Mattress		

MATCH LINE STA: 2805+52 (SHEET 12)

MATCH LINE STA: 2942+81

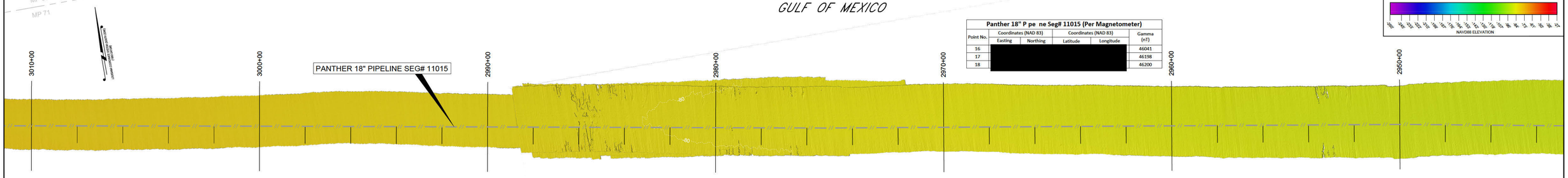


Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
12	[redacted]				46084
13					46074
14					46078
15					46101

MATCH LINE STA: 2874+17

MATCH LINE STA: 3011+21

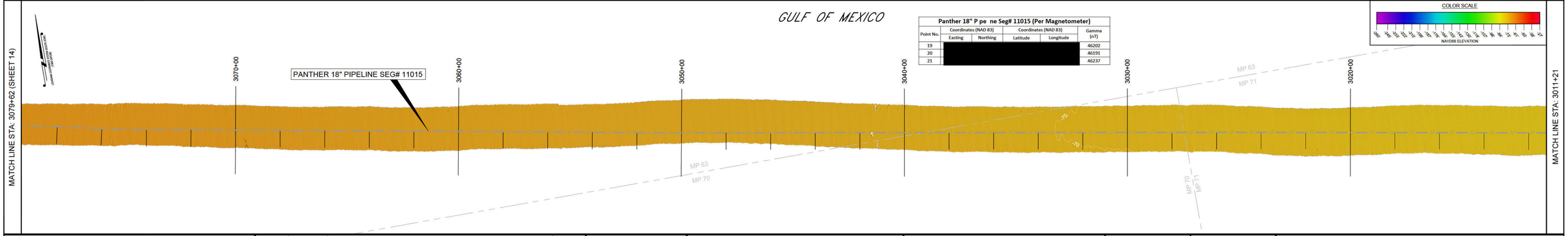


Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
16	[redacted]				46041
17					46198
18					46200

MATCH LINE STA: 2942+81

MATCH LINE STA: 3079+62 (SHEET 14)



Panther 18" P pe ne Seg# 11015 (Per Magnetometer)

Point No.	Coordinates (NAD 83) Easting	Coordinates (NAD 83) Northing	Coordinates (NAD 83) Latitude	Coordinates (NAD 83) Longitude	Gamma (nT)
19	[redacted]				46202
20					46191
21					46237

MATCH LINE STA: 3011+21

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES PIPELINE MATS VIA SULMARA SUBSEA
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

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PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	13 OF 17		

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

MPOG-010337_R

GULF OF MEXICO

GULF OF MEXICO

X =
Y =
LAT =
LONG =

GULF OF MEXICO

X =
Y =
LAT =
LONG =

X =
Y =
LAT =
LONG =

X =
Y =
LAT =
LONG =

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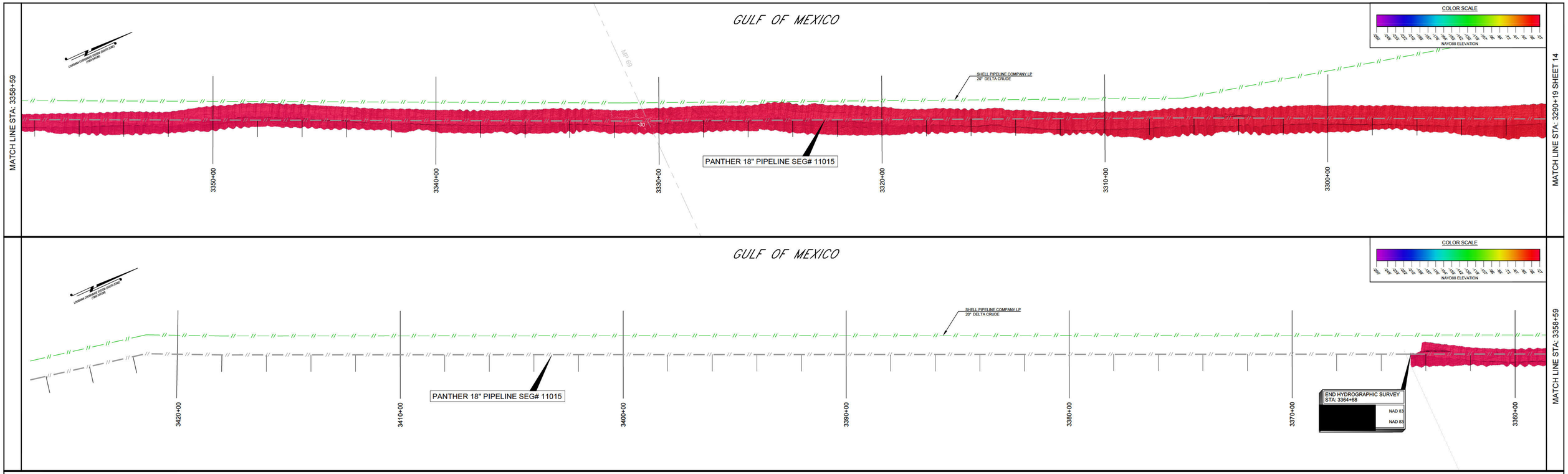

LEGEND

- DENOTES INFRASTRUCTURE BOUNDARY
- DENOTES PIPELINES PER BOEM DATABASE
- DENOTES SURVEY VESSEL TRACKLINE
- DENOTES OFFSHORE BLOCK BOUNDARY
- DENOTES PANTHER PIPELINE PER TBS SURVEY
- DENOTES STATE / FEDERAL WATERS BOUNDARY
- DENOTES ACTIVE PLATFORM PER BOEM DATABASE
- DENOTES REMOVED PLATFORM PER BOEM DATABASE

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

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PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

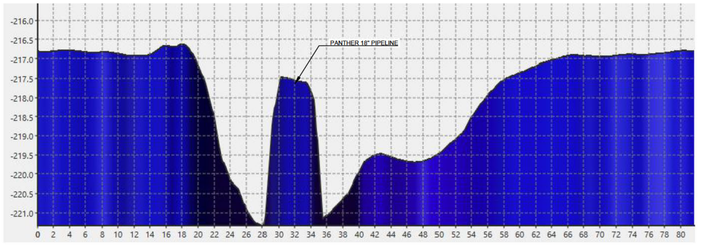
DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	15 OF 17		

2022 HYDROGRAPHIC SURVEY

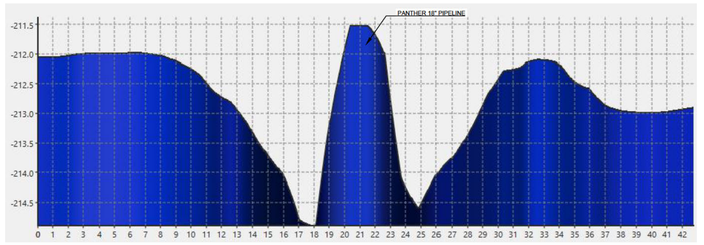
THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

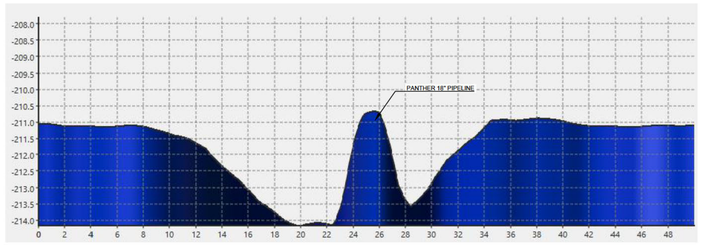
MPOG-010339_R



DETAIL "A" - STA: 1814+20
NOT TO SCALE



DETAIL "F" - STA: 2003+26
NOT TO SCALE



DETAIL "K" - STA: 2059+69
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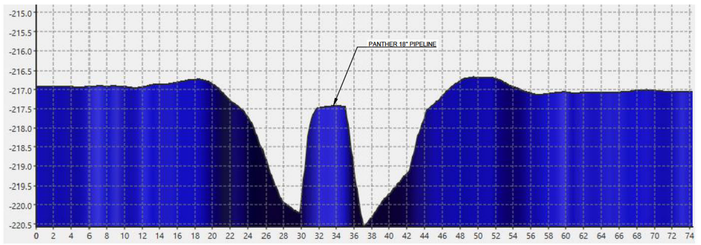

DETAIL "B" - STA: 1820+82
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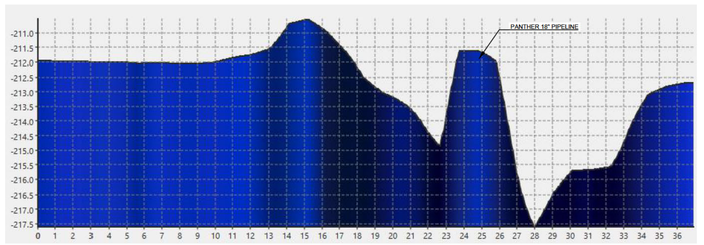
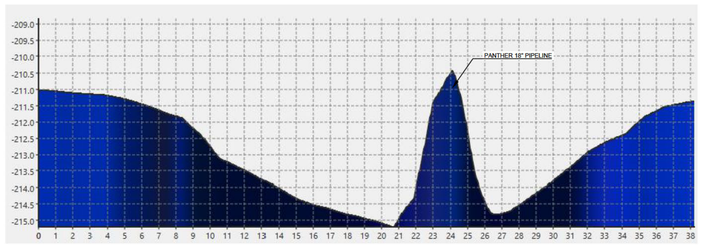
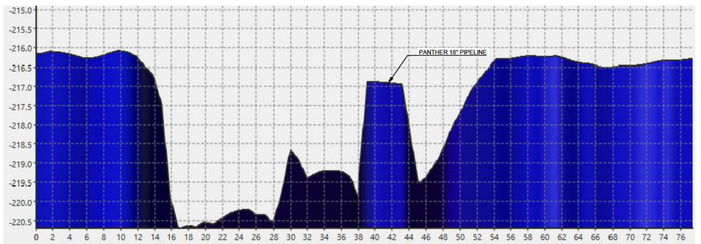


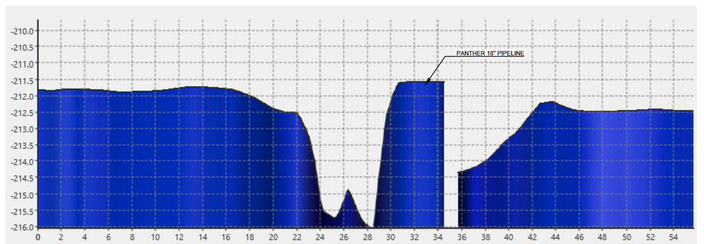
DETAIL "G" - STA: 2009+24
NOT TO SCALE



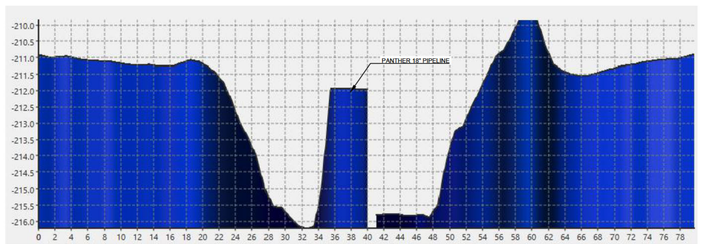
DETAIL "L" - STA: 2068+51
NOT TO SCALE



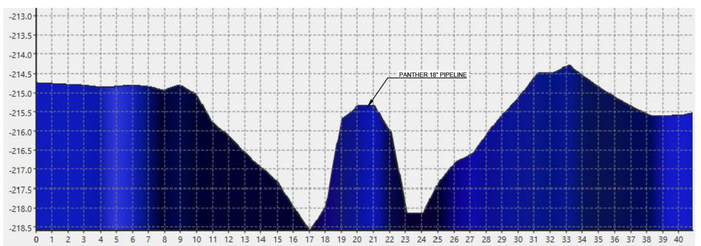
DETAIL "C" - STA: 1838+67
NOT TO SCALE



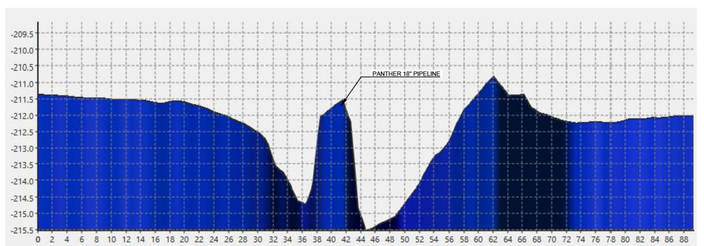
DETAIL "H" - STA: 2010+16
NOT TO SCALE



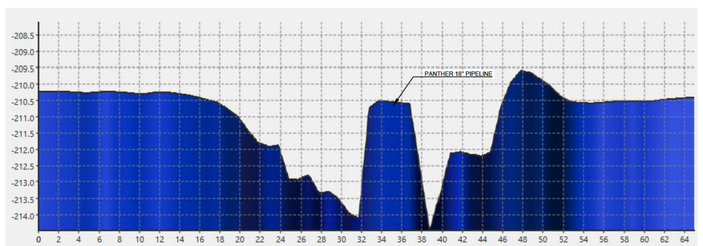
DETAIL "M" - STA: 2104+35
NOT TO SCALE



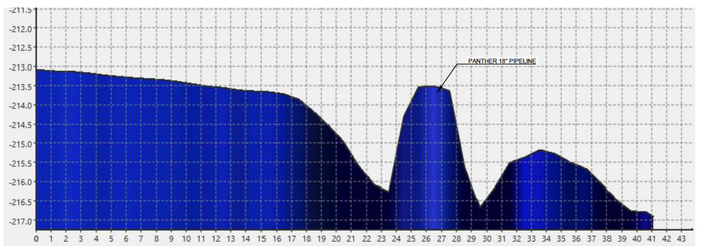
DETAIL "D" - STA: 1918+89
NOT TO SCALE



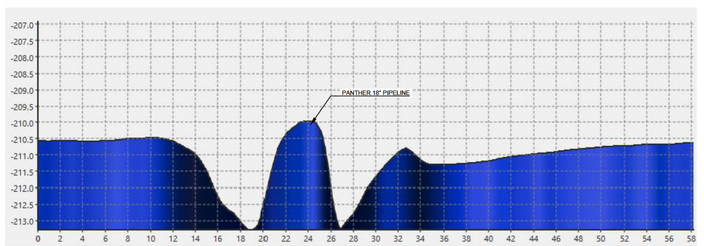
DETAIL "I" - STA: 2018+79
NOT TO SCALE



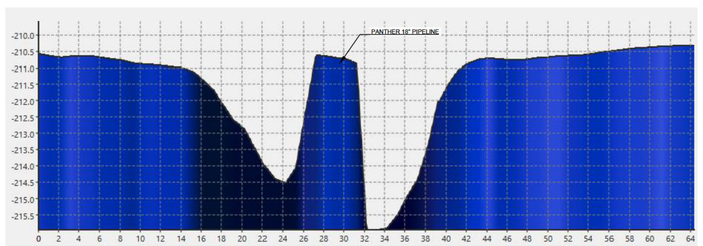
DETAIL "N" - STA: 2115+05
NOT TO SCALE



DETAIL "E" - STA: 1988+77
NOT TO SCALE



DETAIL "J" - STA: 2058+60
NOT TO SCALE



DETAIL "O" - STA: 2119+04
NOT TO SCALE

NOTES:

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

REVISIONS

T. BAKER SMITH
A CENTURY OF SOLUTIONS
412 South Van Ave, Houma, LA 70363
(985)868-1050 - tbsmith.com

PLAN
SCALE: 1" = 200'
200' 100' 0' 200' 400' 600'

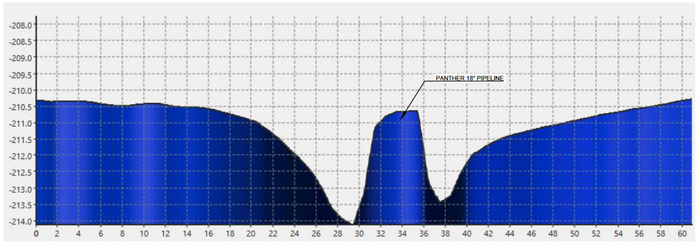
DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
DRAWING NAME:	2022.1196_H01_REV03.DWG		
PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	16	OF	17

2022 HYDROGRAPHIC SURVEY

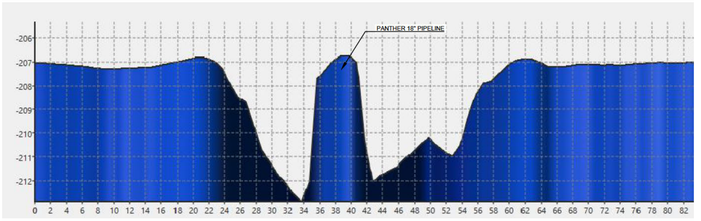
THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
PANTHER 18" PIPELINE
FROM MAIN PASS AREA BLOCK 224
TO MAIN PASS AREA BLOCK 69
GULF OF MEXICO

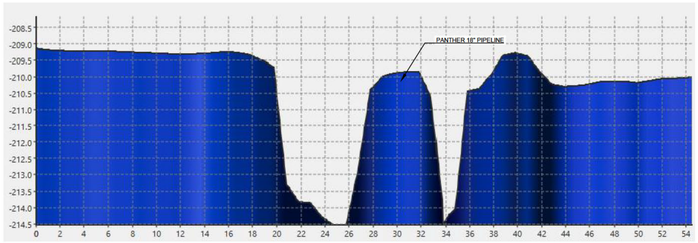
MPOG-010340_R



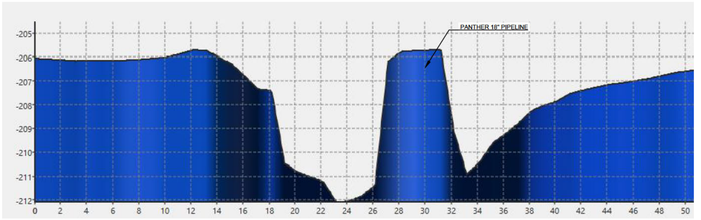
DETAIL "P" - STA: 2132+61
NOT TO SCALE



DETAIL "U" - STA: 2214+16
NOT TO SCALE



DETAIL "Q" - STA: 2152+90
NOT TO SCALE



DETAIL "V" - STA: 2236+49
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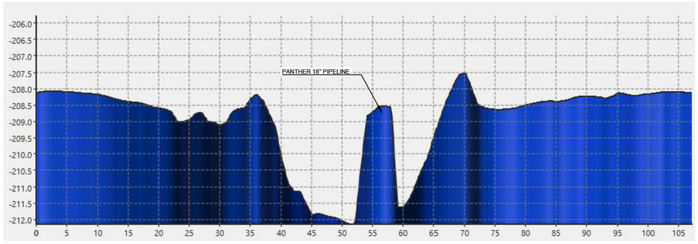
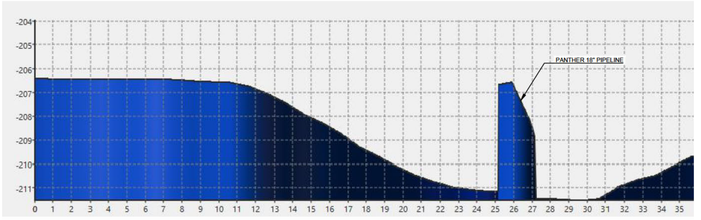
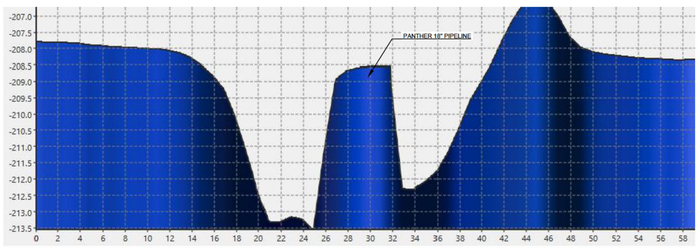


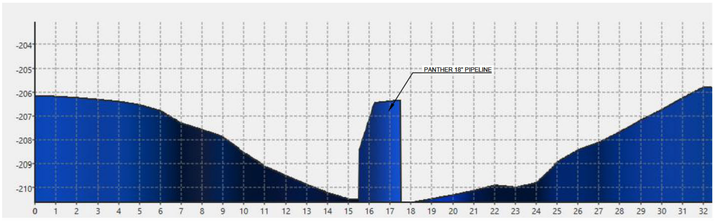
DETAIL "R" - STA: 2182+68
NOT TO SCALE



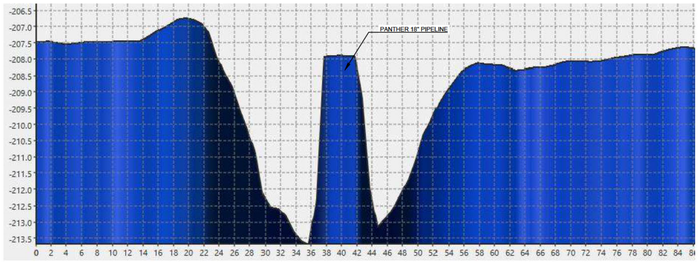
DETAIL "W" - STA: 2242+70
NOT TO SCALE



DETAIL "S" - STA: 2187+94
NOT TO SCALE



DETAIL "X" - STA: 2245+64
NOT TO SCALE



DETAIL "T" - STA: 2194+63
NOT TO SCALE

NOTES:

REV. NO:	REV. DATE:	REV. DESCRIPTION:	REV. BY:
01	08/10/23	ADDED PIPELINE MATTING AND PIPE TRENCHING VIA SULMARA SUBSEA	JAC

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SCALE: 1" = 200'
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DRAWN BY:	CJL	APPROVED BY:	MTS
DATE:	11/22/22	JOB NO:	2022.1196
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PROJECTION: LA-S (1702) GEO. DATUM: NAD83 | VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SHEET NO:	17	OF	17

2022 HYDROGRAPHIC SURVEY

THIRD COAST MIDSTREAM, LLC

HYDROGRAPHIC SURVEY OF
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FROM MAIN PASS AREA BLOCK 224
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