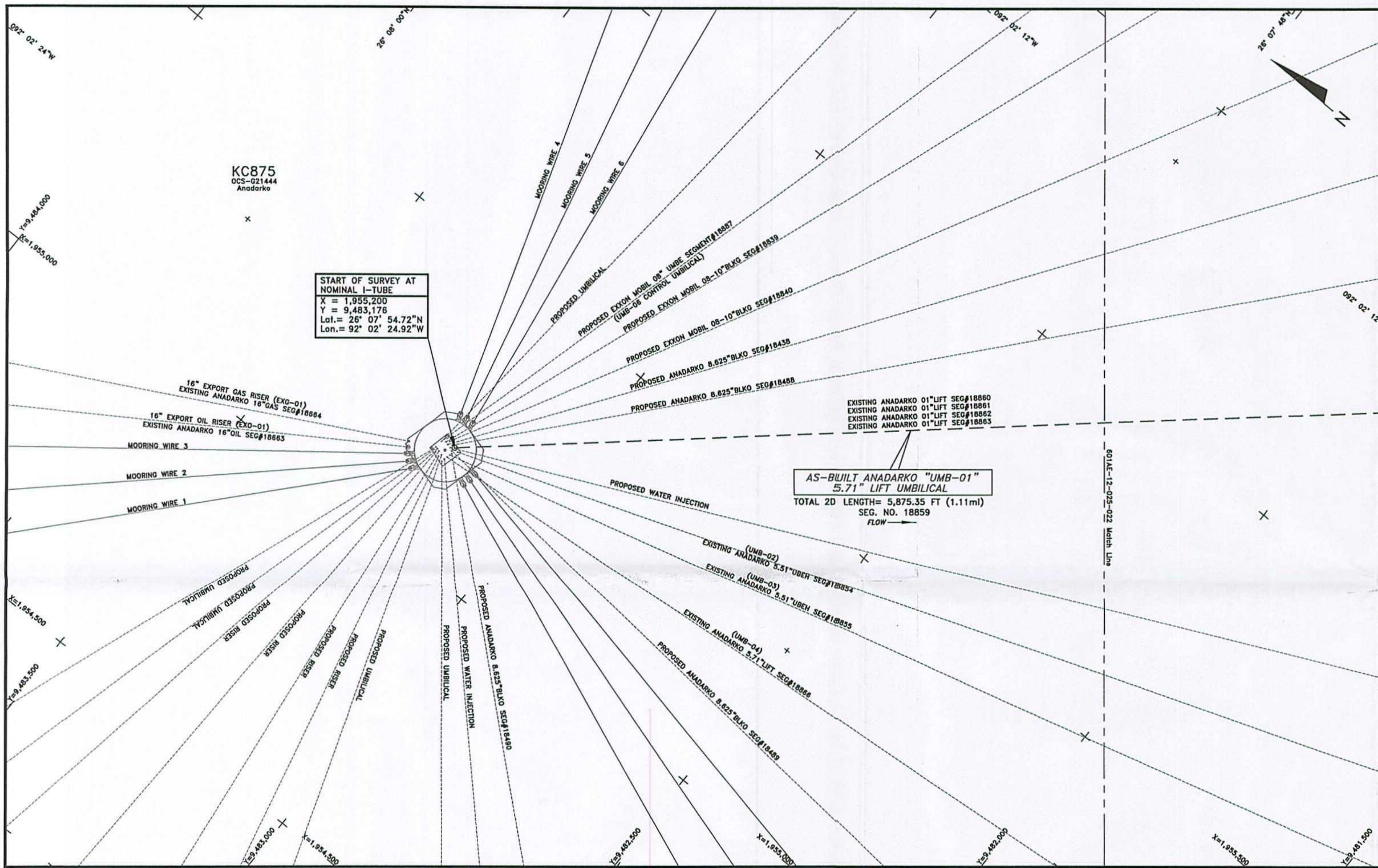


PLAN VIEW



START OF SURVEY AT
NOMINAL I-TUBE
X = 1,955,200
Y = 9,483,176
Lat. = 26° 07' 54.72"N
Lon. = 92° 02' 24.92"W

AS-BUILT ANADARKO "UMB-01"
5.71" LIFT UMBILICAL
TOTAL 2D LENGTH= 5,875.35 FT (1.11mi)
SEG. NO. 18859
FLOW →

NOTES

- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS LD2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
- 2) SURVEYED COORDINATES TRANSFORMED FROM NAD83 (GPS DATUM) NADCON VERSION 2.1.
- 3) THIS DRAWING IS NOT FOR NAVIGATION. PIPELINES AND FEATURES IN THE IMMEDIATE VICINITY ARE OBTAINED FROM BOEM (BUREAU OF OCEAN ENERGY MANAGEMENT) & BSEE (BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT) DATABASE AND CLIENT PROVIDED DATA.
- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01) SEG#18859
- - - CATHARTY
- - - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - UTEC AS-LAID FLYING LEADS
- - - MOORING WIRES
- ▭ KC875
- ▭ LEASE BLOCK BOUNDARIES
- ▭ PROPOSED STRUCTURES
- ▭ EXISTING STRUCTURES
- ▭ UTEC AS-FOUND/AS-BUILT STRUCTURES
- + GEOGRAPHICAL TICKS
- + UTM TICKS
- o WellS

GEODESY

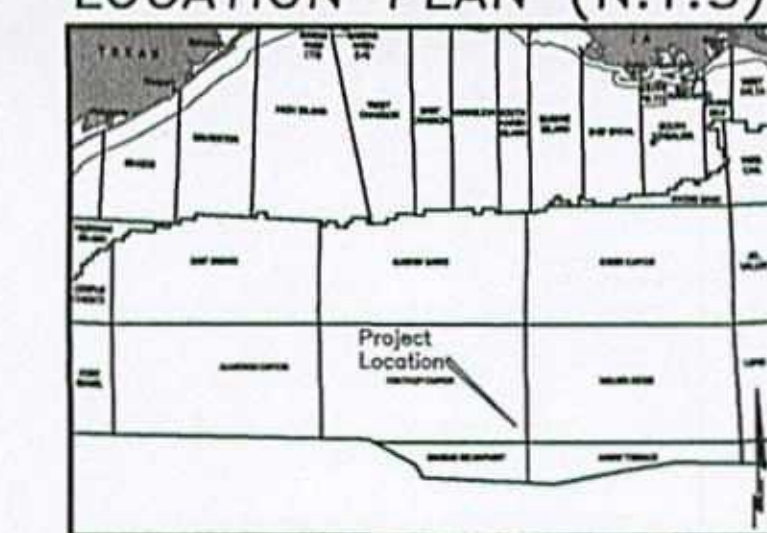
Survey Datum: NAD 27
Ellipsoid: Clarke 1866
Projection: Universal Transverse Mercator ZONE 15N
Longitude of Central Meridian: 93°W
False Easting (m): 500 000
False Northing (m): 0
Scale Factor at Central Meridian: 0.99960
Units: US Survey Feet

CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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LOCATION PLAN (N.T.S)



18859
18860
18861
18862
18863

AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-01) SEGMENT#18859

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
1	1,955,200	9,483,176	NOMINAL I-TUBE

7240 BRITTMORE RD, SUITE 110
HOUSTON, TEXAS 77041
Tel 713-984-8688
Fax 713-984-8683
Website www.utecsurgery.com

TECHNIP USA, Inc.

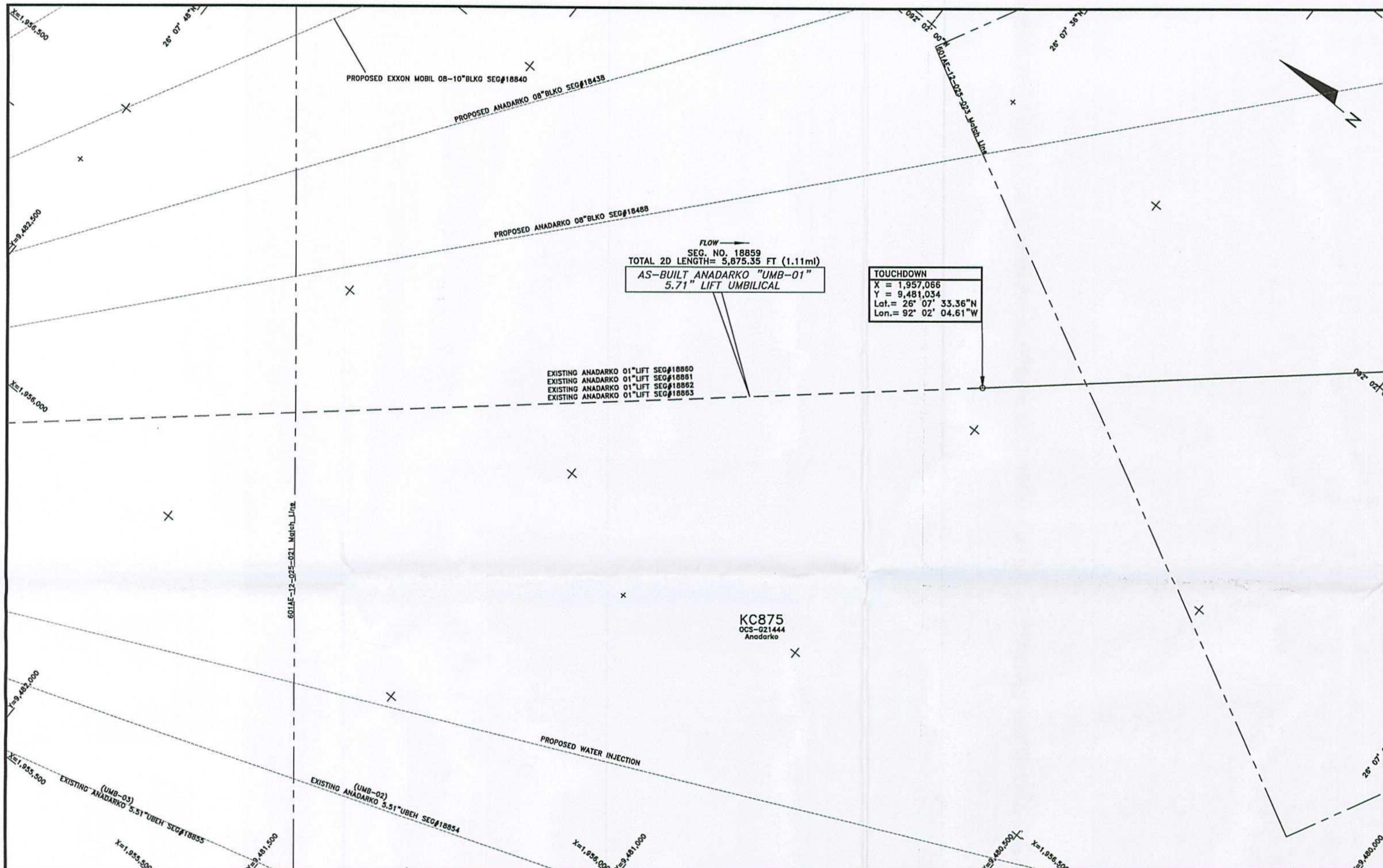
LUCIUS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01)
SEGMENT #18859
KEATHLEY CANYON BLOCK 875
GULF OF MEXICO
Scale 1" = 100'

Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

Survey Dates: January 30 & February 18, 19, 2014 | Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 021	Sheet 001	Of 003
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PLAN VIEW



FLOW →
 SEG. NO. 18859
 TOTAL 2D LENGTH= 5,875.35 FT (1.11mi)
**AS-BUILT ANADARKO "UMB-01"
 5.71" LIFT UMBILICAL**

TOUCHDOWN
 X = 1,957,066
 Y = 9,481,034
 Lat. = 26° 07' 33.36"N
 Lon. = 92° 02' 04.61"W

EXISTING ANADARKO 01" LIFT SEG#18860
 EXISTING ANADARKO 01" LIFT SEG#18861
 EXISTING ANADARKO 01" LIFT SEG#18862
 EXISTING ANADARKO 01" LIFT SEG#18863

KC875
 OCS-021444
 Anadarko

AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-01) SEGMENT#18859

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
2	1,957,066	9,481,034	TOUCHDOWN

NOTES

- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS LD2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01) SEG#18859
- - - CATENARY
- - - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - UTEC AS-LAID FLYING LEADS
- - - MOORING WIRES
- ▭ LEASE BLOCK BOUNDARIES
- ▭ PROPOSED STRUCTURES
- ▭ EXISTING STRUCTURES
- ▭ UTEC AS-FOUND/AS-BUILT STRUCTURES
- + GEOGRAPHICAL TICKS
- + UTM TICKS
- WELLS

GEODESY

Survey Datum: NAD 27
 Ellipsoid: Clarke 1866
 Projection: Universal Transverse Mercator ZONE 15N
 Longitude of Central Meridian: 93°W
 False Easting (m): 500 000
 False Northing (m): 0
 Scale Factor at Central Meridian: 0.99980
 Units: US Survey Feet

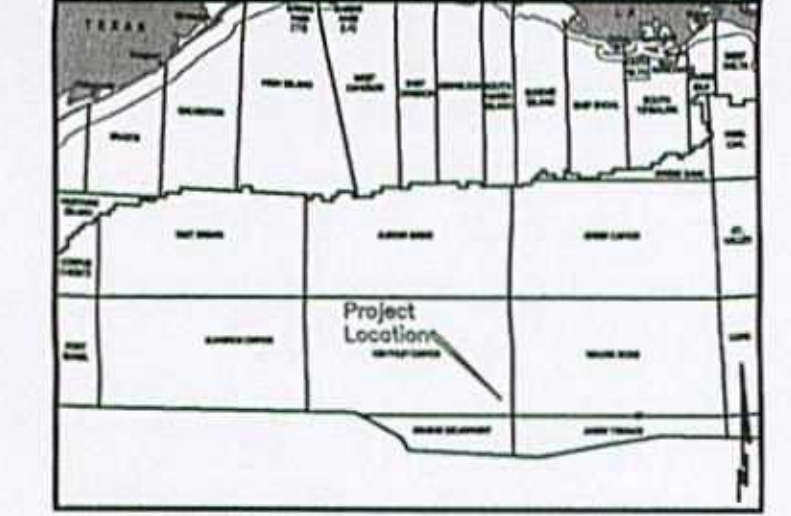
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



Nathan J. Eby 09/08/14
 NATHAN EBY, R.P.L.S.
 TEXAS REG #6198

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LOCATION PLAN (N.T.S)



Anadarko
 Petroleum Corporation

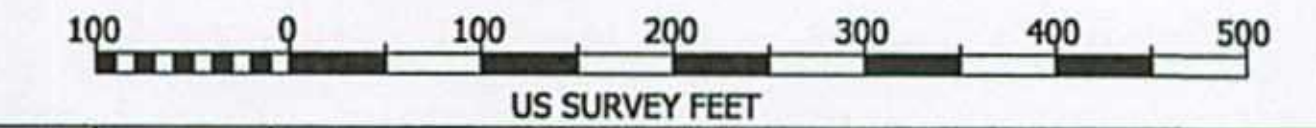
Technip
 TECHNIP USA, Inc.

UTEC

7240 BRITTMOORE RD, SUITE 110
 HOUSTON, TEXAS 77041
 Tel 713-984-8688
 Fax 713-984-8683
 Website www.utecsurgery.com

**LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01)
 SEGMENT#18859
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO**

Scale 1" = 100'

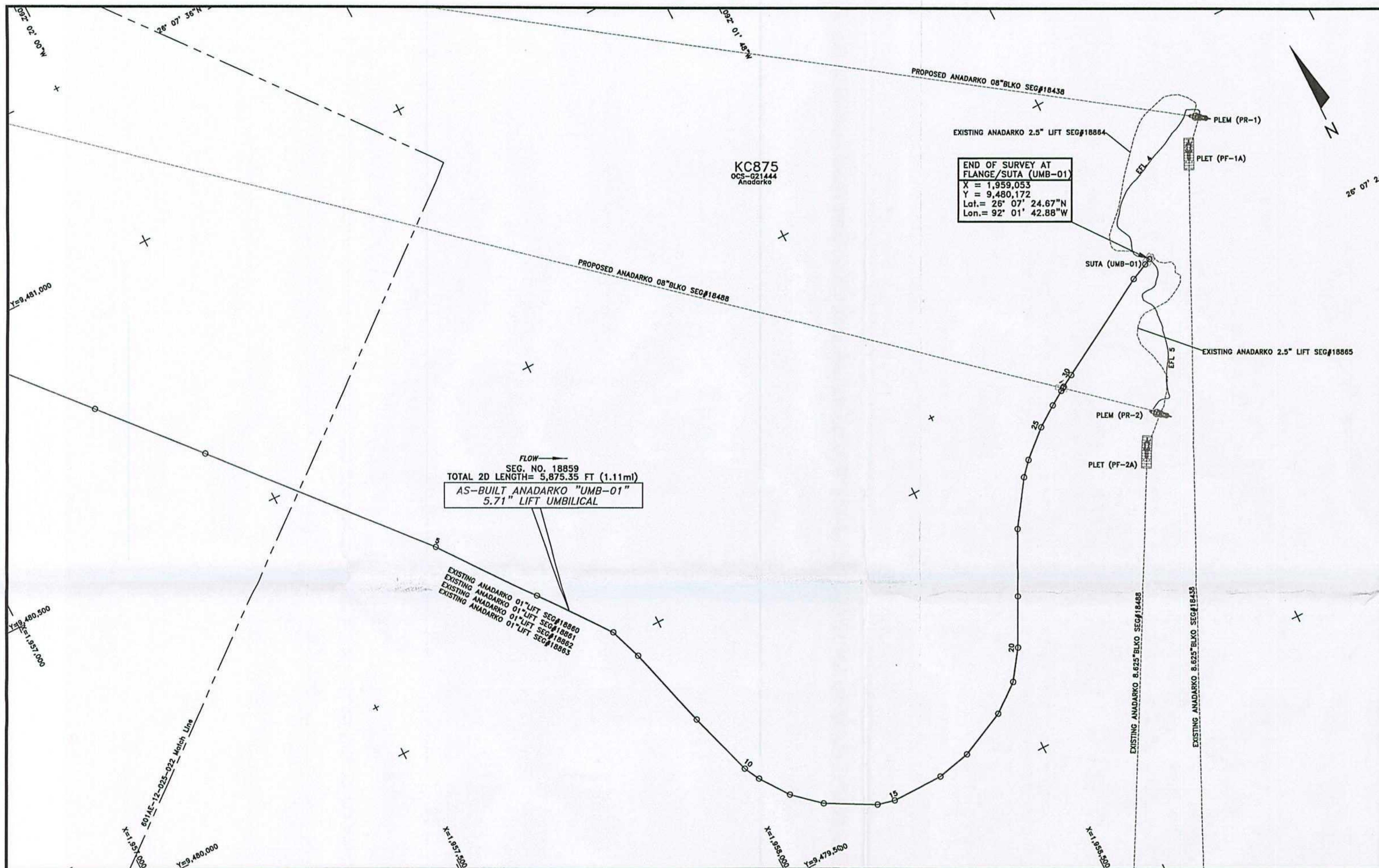


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
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A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

Survey Dates: January 30 & February 18, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-022	Sheet 002	Of 003
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PLAN VIEW



SEG. NO. 18859
TOTAL 2D LENGTH= 5,875.35 FT (1.11mi)
AS-BUILT ANADARKO "UMB-01"
5.71" LIFT UMBILICAL

AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-01) SEGMENT#18859

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION	POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
3	1,957,290	9,480,779	ROV FIX	28	1,958,815	9,480,042	SPAN TD/ANADARKO 08"BLKO CROSSING SEG#18488
4	1,957,427	9,480,623	START OF MUD ANCHOR SECTION	29	1,958,818	9,480,044	END OF MATTRESS
5	1,957,714	9,480,296	END OF MUD ANCHOR SECTION	30	1,958,838	9,480,055	END OF SPAN
6	1,957,833	9,480,139	ROV FIX	31	1,959,013	9,480,154	START OF BEND RESTRICTOR
7	1,957,922	9,480,020	ROV FIX	32	1,959,042	9,480,167	END OF BEND RESTRICTOR
8	1,957,942	9,479,964	ROV FIX	33	1,959,053	9,480,172	FLANGE/SUTA (UMB-01)
9	1,957,983	9,479,819	ROV FIX	2D LENGTH OF SURVEY POINTS 2 THROUGH 33: 3,034.46' = 0.57 MILES			
10	1,958,019	9,479,705	ROV FIX				
11	1,958,033	9,479,678	ROV FIX				
12	1,958,069	9,479,628	ROV FIX				
13	1,958,115	9,479,588	ROV FIX				
14	1,958,196	9,479,544	ROV FIX				
15	1,958,226	9,479,537	ROV FIX				
16	1,958,317	9,479,537	ROV FIX				
17	1,958,376	9,479,550	ROV FIX				
18	1,958,457	9,479,589	ROV FIX				
19	1,958,504	9,479,625	ROV FIX				
20	1,958,539	9,479,674	ROV FIX				
21	1,958,580	9,479,754	ROV FIX				
22	1,958,634	9,479,861	ROV FIX				
23	1,958,685	9,479,936	ROV FIX				
24	1,958,705	9,479,959	ROV FIX				
25	1,958,751	9,479,999	ROV FIX				
26	1,958,786	9,480,023	START OF SPAN				
27	1,958,810	9,480,039	START OF MATTRESS				

NOTES

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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" UMBILICAL (UMB-01) SEG#18859
- - - CATENARY
- - - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
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- KC875
- LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
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- + GEOGRAPHICAL TICKS
- + UTM TICKS
- o WELLS

GEODESY

Survey Datum: NAD 27
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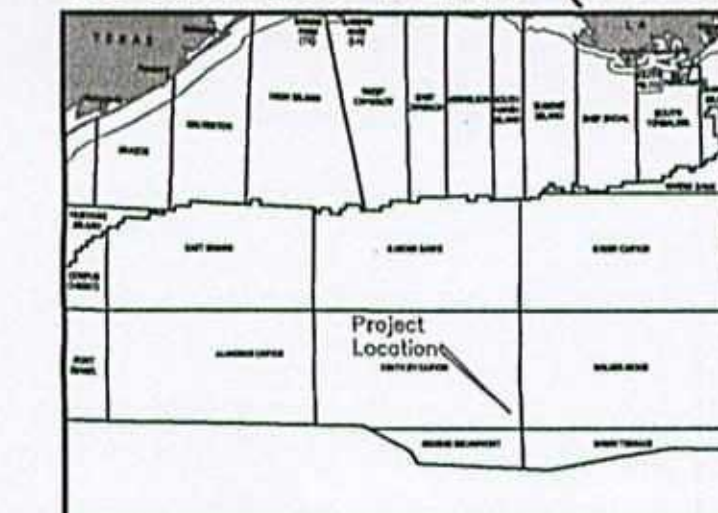
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NATHAN EBY, R.P.L.S.
TEXAS REG #6198

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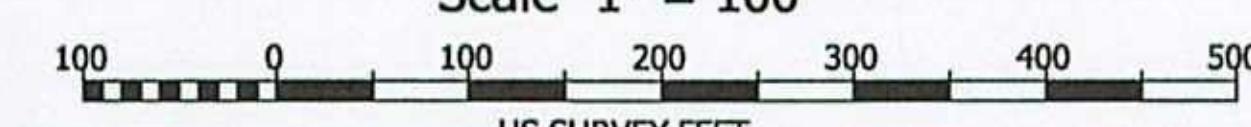
LOCATION PLAN (N.T.S)



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SEGMENT#18859
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Scale 1" = 100'



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Survey Dates: January 30 & February 18, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 023	Sheet 003	Of 003
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