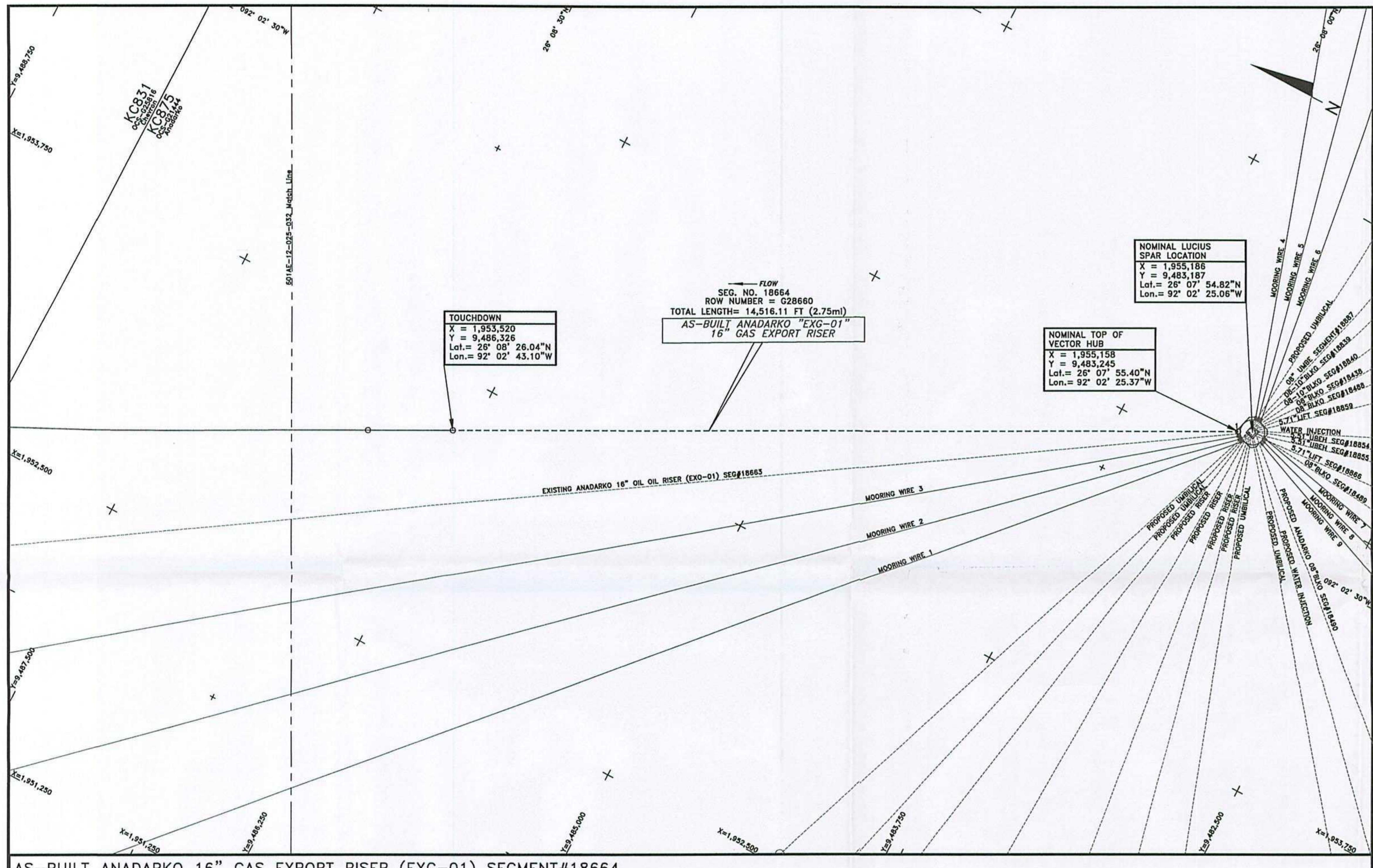


PLAN VIEW



AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01) SEGMENT#18664

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
1	1,955,158	9,483,245	NOMINAL TOP OF VECTOR HUB
2	1,953,520	9,486,326	TOUCHDOWN
3	1,953,342	9,486,660	FIELD JOINT

NOTES

- 1) PIPELINE 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: JULY 17-18, 2014

LEGEND

AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01) SEGMENT #18664
CATNARY
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
○¹ 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 POSITION OF THE AS-BUILT PIPELINE
IN THE SURVEY METHODS NOTED.

Nathan Eby 09/06
NATHAN EBY, R.P.L.S.

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LOCATION PLAN (N.T.S)

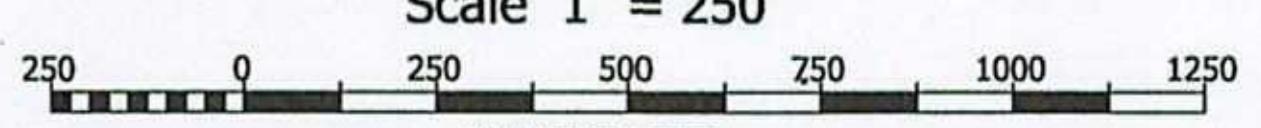


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Tel 713-984-8688
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LUCIUS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01)
SEGMENT #18664

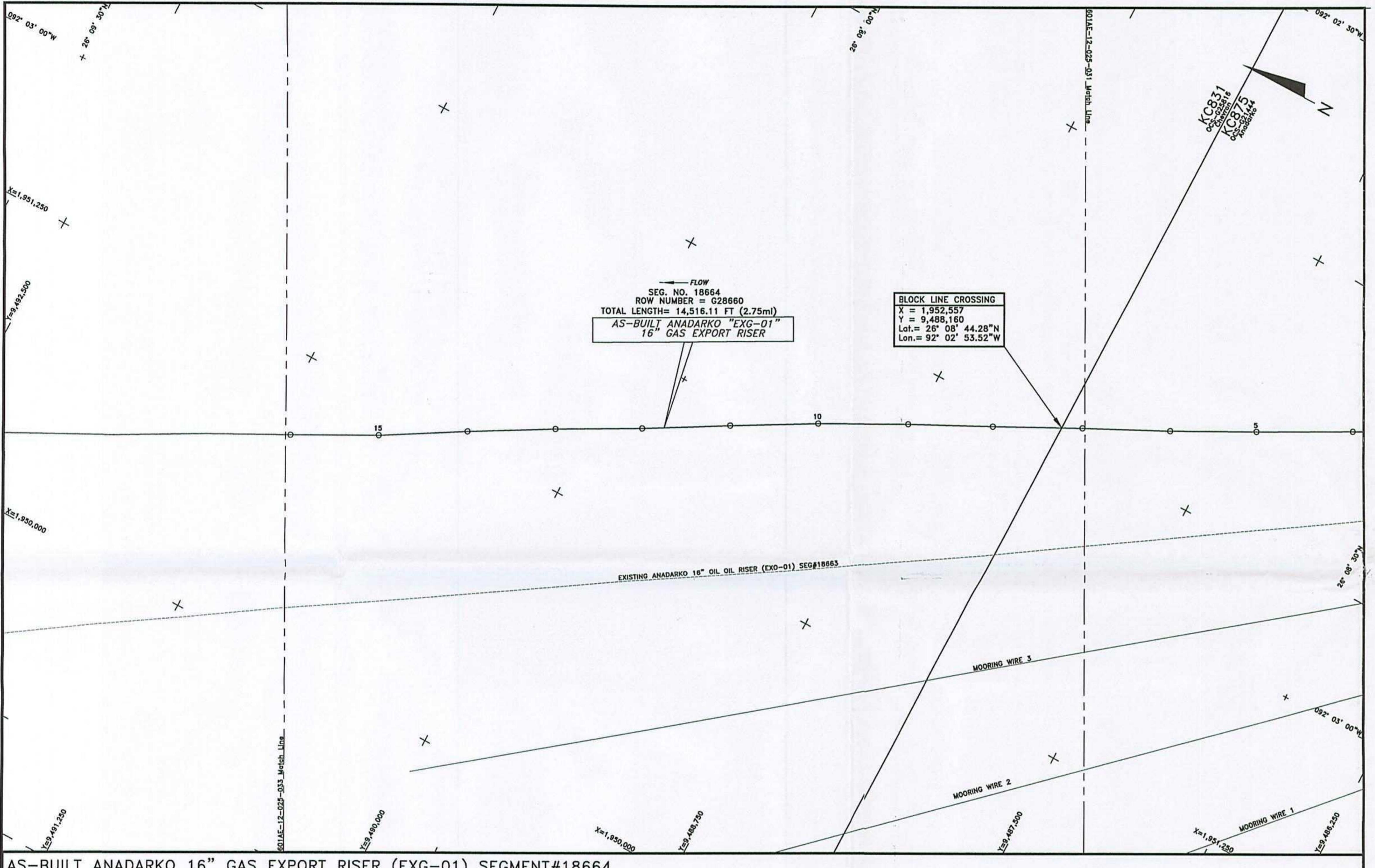
SEGMENT #18004
KEATHLEY CANYON BLOCK 875 TO KEATHLEY CANYON BLOCK 831

GULF OF MEXICO
Scale 1" = 250'



US SURVEY FEET					
Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A1	08/05/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
P1	08/04/14	ISSUED FOR INTERNAL REVIEW	VR	EG	JL

PLAN VIEW



AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01) SEGMENT#18664

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
4	1,953,157	9,487,007	FIELD JOINT
5	1,952,953	9,487,386	FIELD JOINT
6	1,952,774	9,487,725	FIELD JOINT
7	1,952,599	9,488,078	FIELD JOINT
8	1,952,417	9,488,433	FIELD JOINT
9	1,952,249	9,488,771	FIELD JOINT
10	1,952,063	9,489,123	FIELD JOINT
11	1,951,870	9,489,463	FIELD JOINT
12	1,951,675	9,489,802	FIELD JOINT
13	1,951,491	9,490,140	FIELD JOINT
14	1,951,295	9,490,480	FIELD JOINT
15	1,951,090	9,490,823	FIELD JOINT
16	1,950,906	9,491,169	FIELD JOINT

NOTES

- 1) PIPELINE 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: JULY 17-18, 2014

LEGEND

AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01) SEGMENT #18664
CATNARY
EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
UTECH AS-LAID FLYING LEADS
MOORING WIRES
KC875
LEASE BLOCK BOUNDARIES

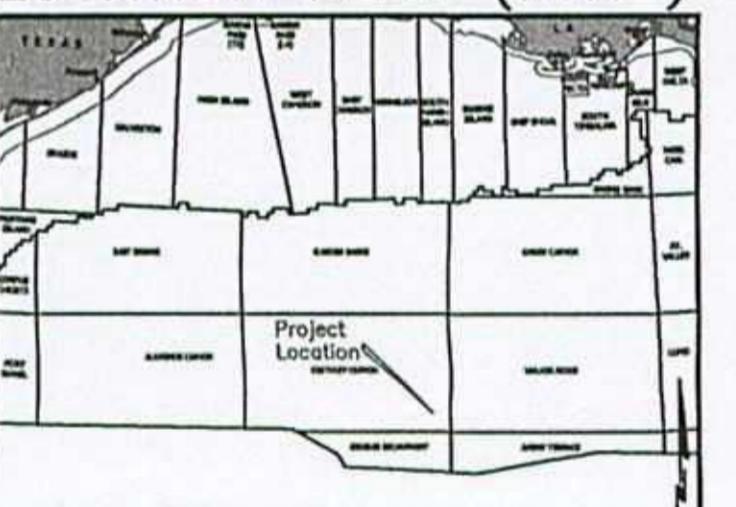
■ PROPOSED STRUCTURES
■ EXISTING STRUCTURES
■ UTECH AS-FOUND/AS-BUILT STRUCTURES
+ GEOGRAPHICAL TICKS
+ UTM TICKS
o' WELLS

GEOFEDSY

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

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LOCATION PLAN (N.T.S)



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Fax 713-984-8683
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ICTUS DEVELOPMENT PROJECT

**LUCAS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01)
SEGMENT#18664
KEATHLEY CANYON BLOCK 875 TO KEATHLEY CANYON BLOCK 831**

GULF OF MEXICO

Scale 1 = 250

US SURVEY FEET

Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A1	08/05/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
B1	08/04/14	ISSUED FOR INTERNAL REVIEW	VR	EG	JL

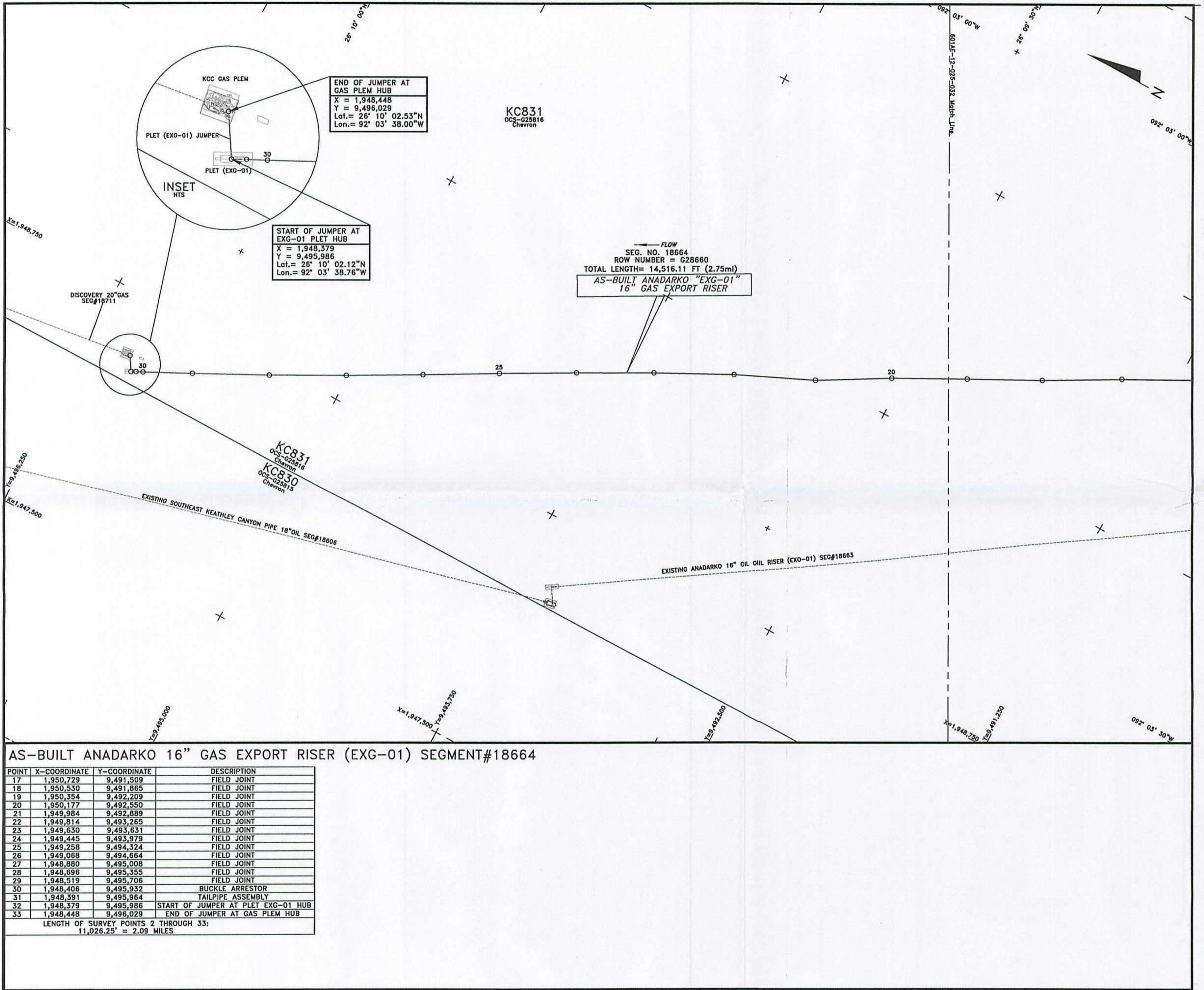
Survey Dates: July 17-18, 2014

Survey Vessel: GLOBAL

UTEC Ref. No. UTEC-B-10-A-N-62115-12-007-000

Sheet 002 Of 003

PLAN VIEW



NOTES

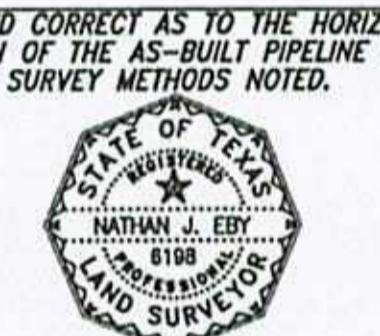
- Pipeline coordinates are the positions of the R.O.V. (REMOTELY OPERATED VEHICLE) located at the points using VERIPOS LD2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
- Surveyed coordinates transformed from NAD83 (GPS DATUM) NADCON VERSION 2.1.
- 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.
- AS-BUILT SURVEY DATE: JULY 17-18, 2014

LEGEND

-----	AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01) SEGMENT#18664 CATHARY
-----	EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
-----	PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
-----	UTEC AS-LAI FLYING LEADS
-----	MOORING WIRES
KC875	LEASE BLOCK BOUNDARIES
■	PROPOSED STRUCTURES
■■	EXISTING STRUCTURES
■■■	UTEC AS-FOUND/AS-BUILT STRUCTURES
+	GEOGRAPHICAL TICKS
+	UTM TICKS
o	WELLS

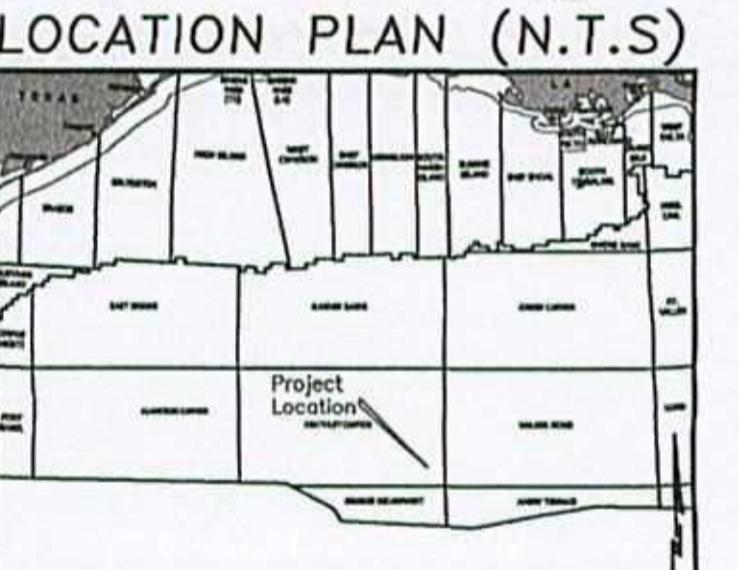
GEODESY

Survey Datum: NAD 27
Ellipsoid: Clarke 1866
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Units: US Survey Feet



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

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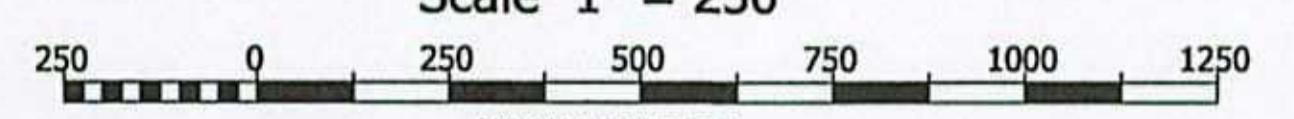


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LUCIUS DEVELOPMENT PROJECT

AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01)
SEGMENT#18664
KEATHLEY CANYON BLOCK 875 TO KEATHLEY CANYON BLOCK 831
GULF OF MEXICO

Scale 1" = 250'



Rev. No.	Date	Comment	Interpr.	Checked	Appr.
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Survey Dates: July 17-18, 2014

Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-033	Sheet OF 003 003
Plot Size ANSI D		