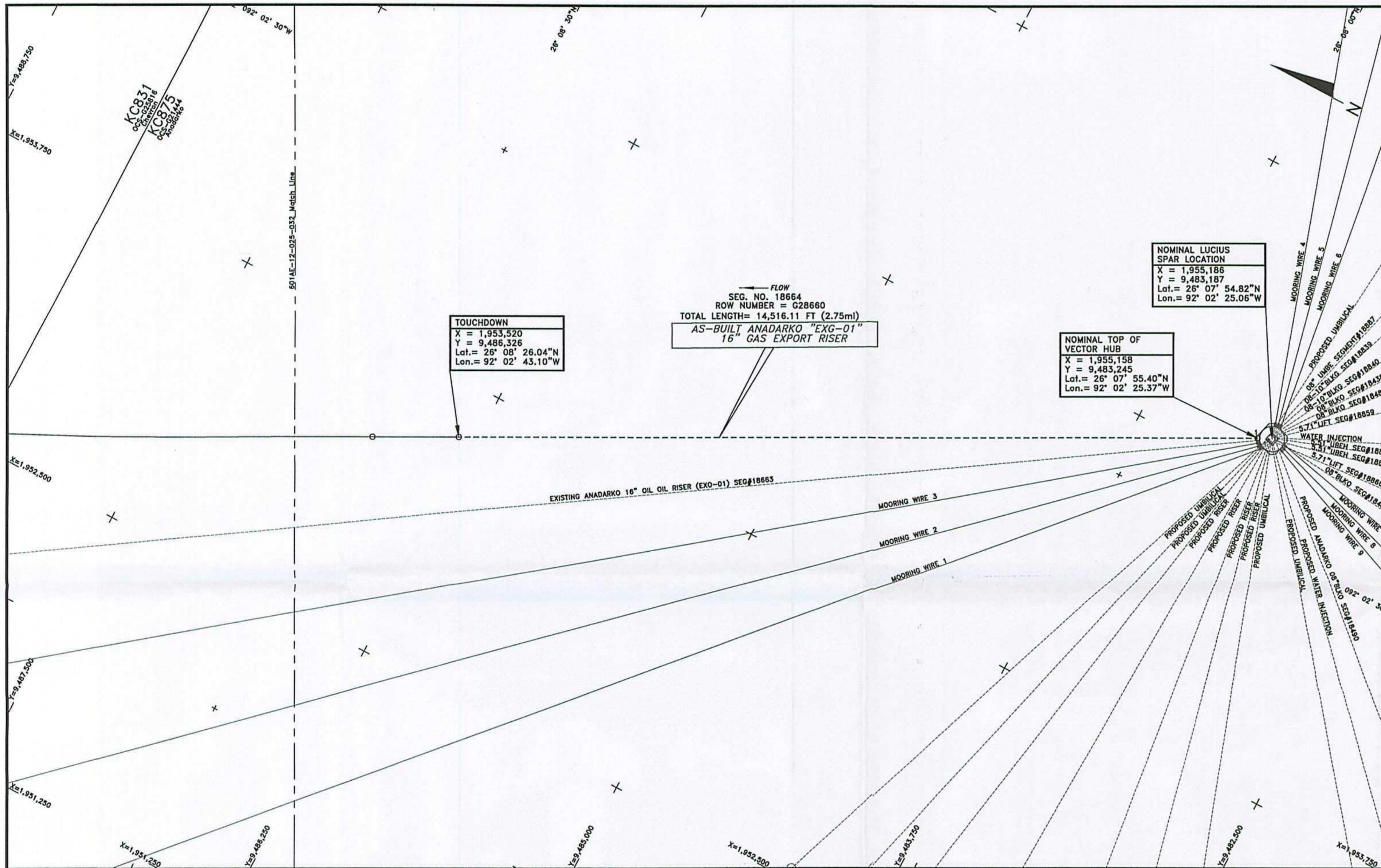


PLAN VIEW



TOUCHDOWN
 X = 1,953,520
 Y = 9,486,326
 Lat. = 26° 08' 26.04"N
 Lon. = 92° 02' 43.10"W

AS-BUILT ANADARKO "EXG-01" 16" GAS EXPORT RISER
 SEG. NO. 18664
 ROW NUMBER = G28660
 TOTAL LENGTH = 14,516.11 FT (2.75mi)

NOMINAL LUCIUS SPAR LOCATION
 X = 1,955,186
 Y = 9,483,187
 Lat. = 26° 07' 54.82"N
 Lon. = 92° 02' 25.06"W

NOMINAL TOP OF VECTOR HUB
 X = 1,955,158
 Y = 9,483,245
 Lat. = 26° 07' 55.40"N
 Lon. = 92° 02' 25.37"W

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
- 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: 95°W
 False Easting (m): 500 000
 False Northing (m): 0
 Scale Factor at Central Meridian: 0.99960
 Units: US Survey Feet

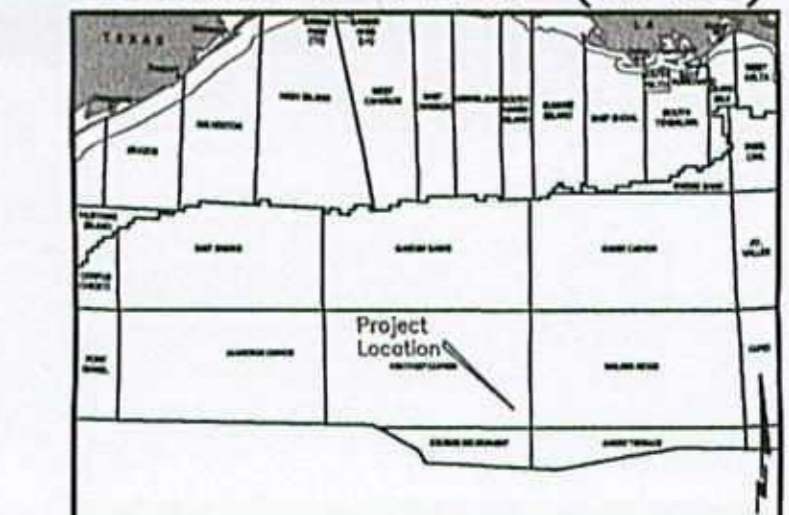
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT PIPELINE BASED ON THE SURVEY METHODS NOTED.



NATHAN EBY, R.P.L.S.
 TEXAS REG #6198

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LOCATION PLAN (N.T.S)



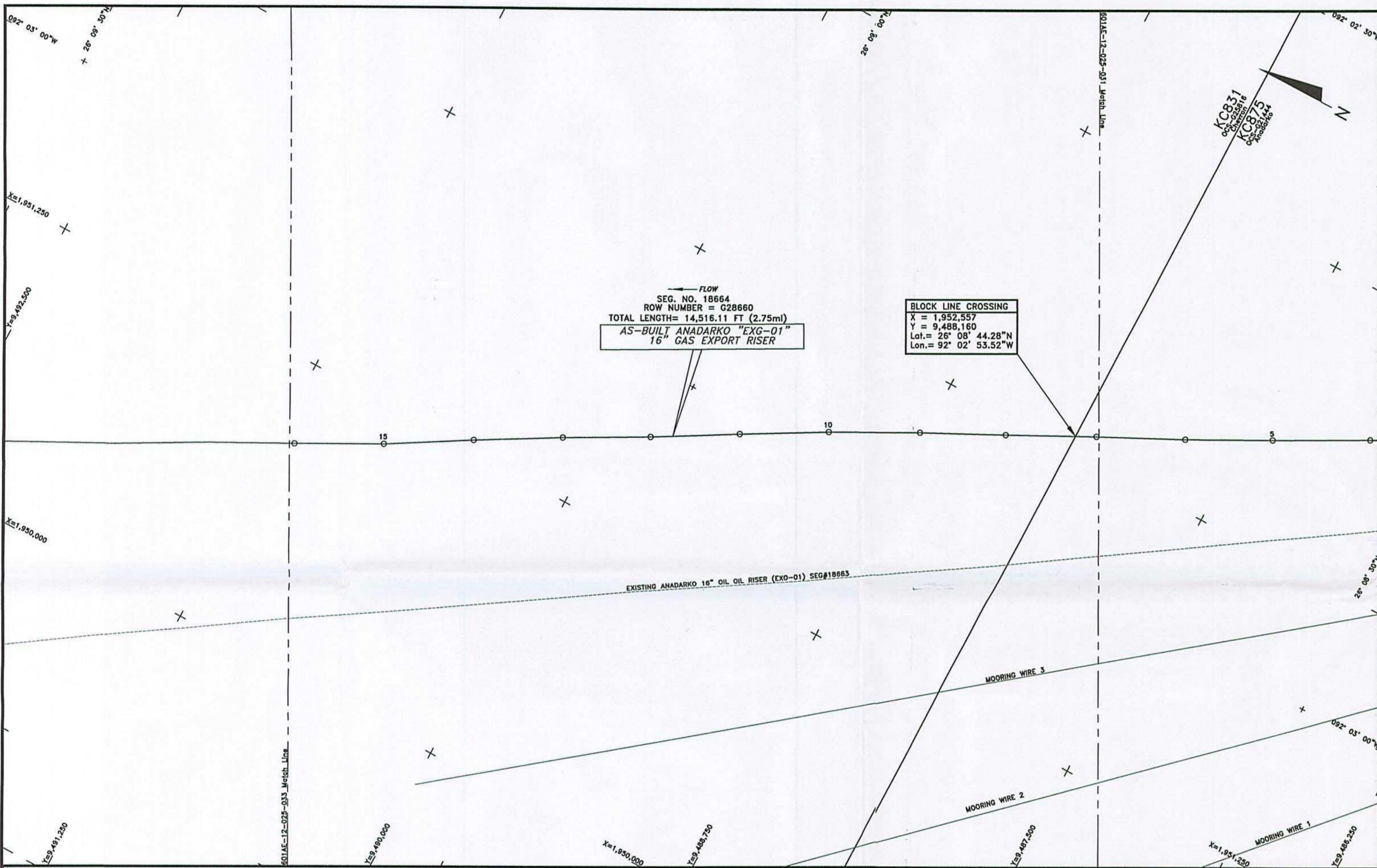
7240 BRITTMOORE RD. SUITE 110
 HOUSTON, TEXAS 77041
 Tel 713-984-8688
 Fax 713-984-8683
 Website www.utecsurvey.com

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.
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

Survey Dates: July 17-18, 2014		Survey Vessel: GLOBAL ORION	
UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-031	Sheet	Of
Plot Size ANSI D		001	003

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**
- 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.
 - 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
 - CATNARY
 - 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

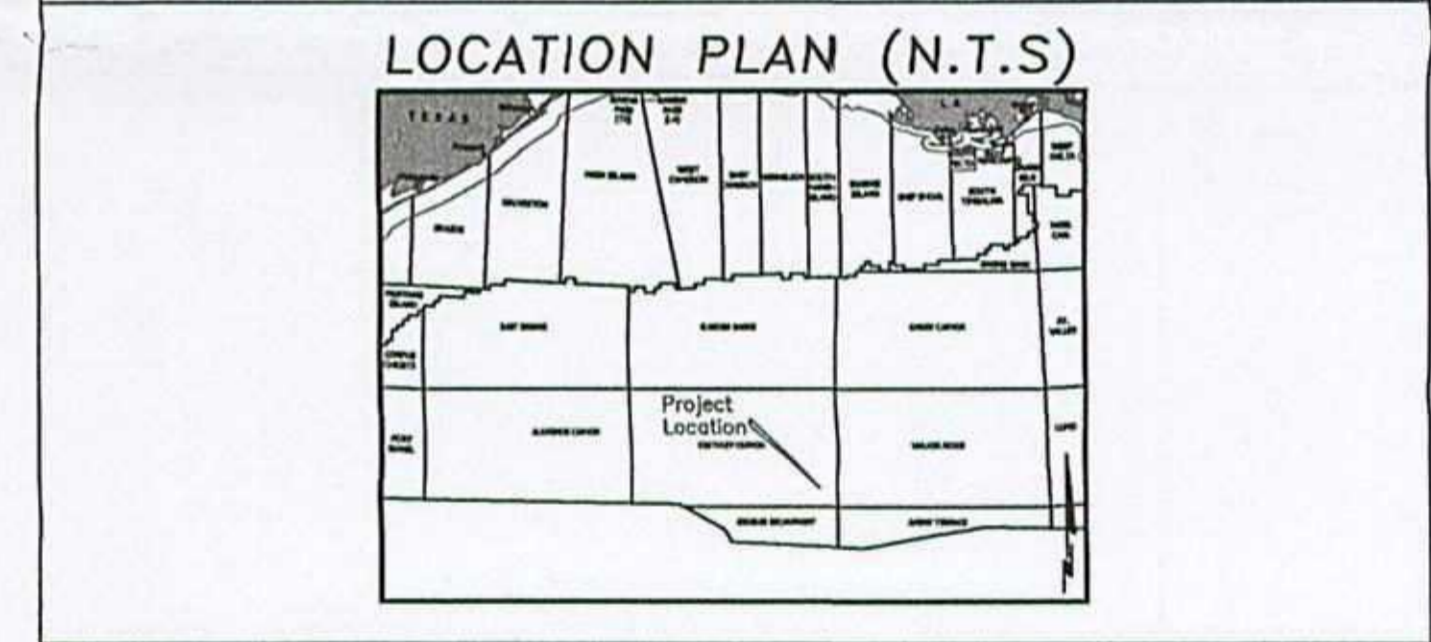
GEODESY

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 of Central Meridian: 0.99980
 Units: US Survey Feet

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

NATHAN EBY, R.P.L.S.
TEXAS REG #6198

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Petroleum Corporation

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Website www.utecsurvey.com

Technip
TECHNIP USA, Inc.

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

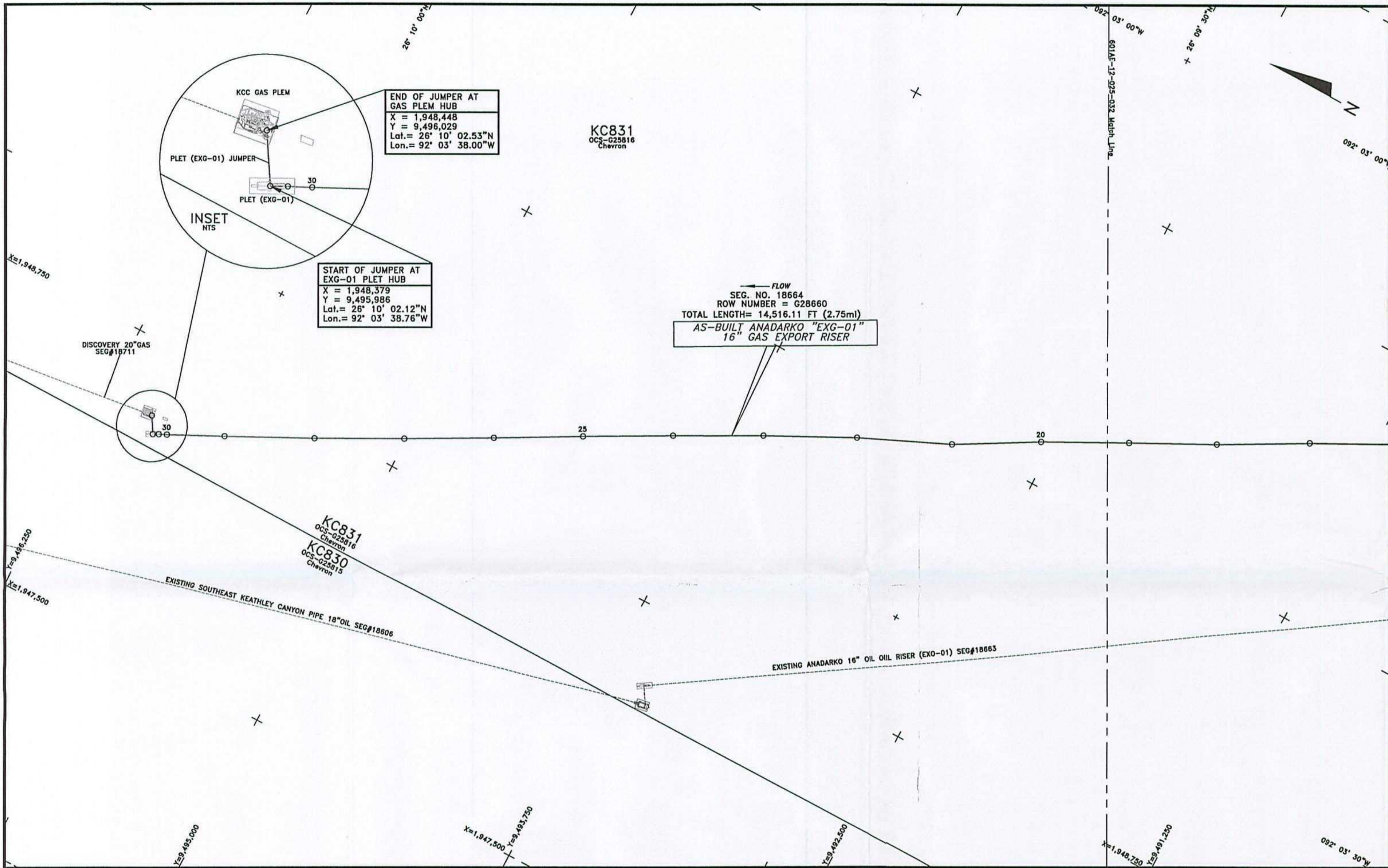
Scale 1" = 250'

Rev. No.	Date	Comment	Interpr.	Checked	Appr.
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

Survey Dates: July 17-18, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-032	Sheet 002	Of 003
Plot Size ANSI D			

PLAN VIEW



END OF JUMPER AT GAS PLEM HUB
 X = 1,948,448
 Y = 9,496,029
 Lat. = 26° 10' 02.53"N
 Lon. = 92° 03' 38.00"W

START OF JUMPER AT EXG-01 PLET HUB
 X = 1,948,379
 Y = 9,495,986
 Lat. = 26° 10' 02.12"N
 Lon. = 92° 03' 38.76"W

FLOW
 SEG. NO. 18664
 ROW NUMBER = G28660
 TOTAL LENGTH = 14,516.11 FT (2.75mi)
 AS-BUILT ANADARKO "EXG-01" 16" GAS EXPORT RISER

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

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
17	1,950,729	9,491,509	FIELD JOINT
18	1,950,530	9,491,865	FIELD JOINT
19	1,950,354	9,492,209	FIELD JOINT
20	1,950,177	9,492,550	FIELD JOINT
21	1,949,984	9,492,889	FIELD JOINT
22	1,949,814	9,493,265	FIELD JOINT
23	1,949,630	9,493,631	FIELD JOINT
24	1,949,445	9,493,979	FIELD JOINT
25	1,949,258	9,494,324	FIELD JOINT
26	1,949,068	9,494,664	FIELD JOINT
27	1,948,880	9,495,008	FIELD JOINT
28	1,948,696	9,495,355	FIELD JOINT
29	1,948,519	9,495,706	FIELD JOINT
30	1,948,406	9,495,932	BUCKLE ARRESTOR
31	1,948,391	9,495,964	TAILPIPE ASSEMBLY
32	1,948,379	9,495,986	START OF JUMPER AT PLET EXG-01 HUB
33	1,948,448	9,496,029	END OF JUMPER AT GAS PLEM HUB

LENGTH OF SURVEY POINTS 2 THROUGH 33:
 11,026.25' = 2.09 MILES

NOTES

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- 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
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- WELLS

GEODESY

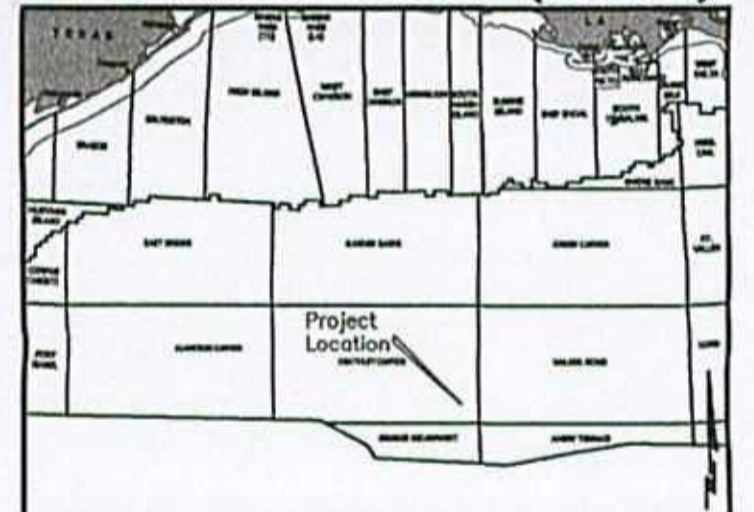
Survey Datum: NAD 27
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 Projection: Universal Transverse Mercator ZONE 15N
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 False Northing (m): 0
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 Units: US Survey Feet

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

Nathan Eby, R.P.L.S.
 TEXAS REG #6198

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LOCATION PLAN (N.T.S.)



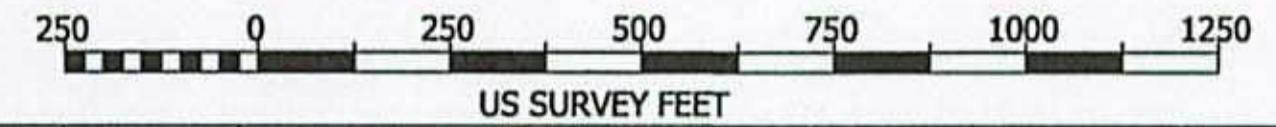
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 AS-BUILT ANADARKO 16" GAS EXPORT RISER (EXG-01)
 SEGMENT#18664
 KEATHLEY CANYON BLOCK 875 TO KEATHLEY CANYON BLOCK 831
 GULF OF MEXICO
 Scale 1" = 250'



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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 003	Of 003
Plot Size ANSI D			