(Scanning)
G28282
SN 16066+16067
(new)

United States Department of the Interior

BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394

February 6, 2013

In Reply Refer To: GE 1035A

Mr. Joe Gordon
Chevron U.S.A. Inc.
100 Northpark Blvd.
Covington, Louisiana 70433

Dear Mr. Gordon:

This office has reviewed your completion report for the following pipelines:

Application Type: New Right-of-Way Pipeline
Letter Date: April 2, 2009

Segment Number	ROW Number	Size (inches)	Length (feet)	Service	From	To
16066	G28282	07	23,955	Bulk Oil	SS Manifold Mississippi Canyon Block 696	Platform A Mississippi Canyon Block 650
16067	G28282	05	25,958	Elec./Hydraulic Umbi	Platform A Mississippi Canyon Block 650	MUTA/SDU Mississippi Canyon Block 696

The total length of the "as-built" right-of-way is 4.54 miles.

The report is submitted in accordance with 30 CFR 250.1008 (b).

The data provided in the report establishes the assigned maximum allowable operating pressure (MAOP) for the pipeline:

Segment Number	MAOP (psig)	MAOP Determination
16066	10,000	Valves

The high and low-pressure sensors shall be set no higher than 15 percent above and below the normal operating range, respectively. The high pilot, however, shall not be set higher than the MAOP of the pipeline. The pressure range shall be established by the use of pressure recorders.

Sincerely,

Digitally signed by Dane Geyer
DN: cn=Dane Geyer, o=BSEE, ou=Pipeline, email=dane.geyer@bsee.gov, c=US
Date: 2013.02.06 09:36:58 -06'00'

for Nick Wetzel
Regional Supervisor
Regional Field Operations

Scan

Chevron

M. F. Lang
Project Manager
Blind Faith Project

North America E & P
1400 Smith Street
Room 47-007
Houston, TX 77002
Tel 713-372-1220
blang@chevron.com

April 2, 2009

Regional Supervisor, Field Operations
Attn: Pipeline Section (MS 5232)
Minerals Management Service
1201 Elmwood Park Blvd
New Orleans, LA 70123

Re: Pipeline As Built Report
Blind Faith Project
Pipeline Segments 15942, 16066, 16067, 16068, 16069, 16070, 17576

Gentlemen:

In accordance with 30 CFR 250.1008(b), please find enclosed the plats and hydrostatic test data, in triplicate, for the following pipeline segments. In accordance with NTL 98-09, a CD has been provided with the digital data.

Segment Number	Designation	Service	Plat Drawing Number	Permitted Length, Ft	As-Built Length, Ft
15942	Manifold MC 696 to Platform A in MC 650 (Blind Faith FPF)	Bulk Oil	5004-HED-4000-16 083845ASB_Jumper.dwg	20856 ft (3.95 miles) (to touchdown point)	21058 ft (3.98 miles) (to touchdown point)
16066	Manifold MC 696 to Platform A in MC 650 (Blind Faith FPF)	Bulk Oil	5004-HED-4000-17 083845ASB_Jumper.dwg	20539 ft (3.89 miles) (to touchdown point)	20721 ft (3.92 miles) (to touchdown point)
16067	Platform A in MC 650 (Blind Faith FPF) to MUTA/SDU MC 696	Umbilical	072758_S16067.dwg	23633 ft (to touchdown point)	25,958 ft (to touchdown point)
16068	From MC 696 SS # 1 to Manifold MC 696	Bulk Oil Well Jumper	083845ASB_Jumper.dwg	60	58.46
16069	From MC 696 SS # 3 to Manifold MC 696	Bulk Oil Well Jumper	083845ASB_Jumper.dwg	60	58.45

Segment Number	Designation	Service	Plat Drawing Number	Permitted Length, Ft	As-Built Length, Ft
16070	From MC 696 SS # 4 to Manifold MC 696	Bulk Oil Well Jumper	083845ASB_Jumper.dwg	60	59.03
17576	From MC 696 SS#5 to SS Manifold MC 696	Bulk Oil Well Jumper	09121001	60	60 ft

Hydrostatic Test Data
Pipeline Segments 15942, 16066, 16068. 16069, 16070 and 17576 were hydrostatically tested as a system on August 14, 2008 for eight hours. The nominal test pressure was 12,500 psi with an initial pressure of 12,558 and final pressure of 12,612 psi.

First Operation
First operation of the pipeline system occurred on November 11, 2008.

Seafloor Disturbances
Dynamically positioned vessels were used for the installation of the subject pipelines. All of the unidentified side scan sonar targets listed in the approval letters for S-15942, S-16066 and S-16067 were avoided by the construction activities.

Please send the approval letter and any correspondence to:

Chevron North America Upstream
Gulf of Mexico Business Unit
Attn: **Mr. Joe Gordon**
100 Northpark Boulevard
Covington, LA 70433

If you have any questions or need additional information, please contact our Regulatory Consultant, Wanda Parker, at 972-516-1177 or by e-mail at wanda.parker@wjpenterprises.com.

Very truly yours,

MF Langlup

M. F. Lang
Project Manager

Weatherford	PIPELINE & SPECIALTY SERVICES FORM			
FORM NUMBER: 5-4-GL-GL-PSS-00033	REV: 04	PAGE: 1 of 1	ORIGINAL ISSUE DATE: 05/27/2004	REVISION DATE: 06/27/2007
PREPARED BY: BIRGIT THIELE	REVIEWED BY: MALCOLM DUNCAN		APPROVED BY: MALCOLM DUNCAN	APPROVED BY:
TITLE:	HYDROSTATIC TESTING ACCEPTANCE CERTIFICATE			

PROJECT:	BLIND FAITH		
COMPANY:	CHEVRON		
CONTRACTOR:			
CONTRACT NO.:			
PRESSURE TEST NO.:	BLIND FAITH FLOWLINE HYDROTEST	DATE:	14 AUG 08

This is to certify that the pipeline or pipeline section described below was hydrostatically tested in accordance with the Terms of the Specification.

PIPELINE:	BF FLOWLINE	FROM:	TOP OF RISER – A1		TO:	TOP OF RISER – A2	
LENGTH:	56,716'	PIPE O.D.:	7.625"	WALL THK.:	1.00":Riser 0.812": F/L	GRADE:	

LOCATION OF TEST EQUIPMENT:	
Nominal Test Pressure:	12,500psi
Initial Test Pressure at Testing Location:	12,638psi
Final Test Pressure at Testing Location:	12,612psi
Initial Temperature of Test Medium:	85.04 °F
Final Temperature of Test Medium:	82.95 °F
Duration of Test Holding Period:	8 hours
Description and Cause of Leak (if any):	
Total Water added to reach Final Test Pressure:	2917 Gallons
Pressure remaining in Pipeline upon Completion of all Test Operations:	

REMARKS: All pressure fluctuation accounted for. No pressure lose, as noted on pressure chart and no visible leak noted.

REFERENCE: WPSS-005792-WP-01 REV 3

Company Representative	Client Representative	Weatherford P&SS Representative
	Jason R. Miller	
Signature	Signature	Signature

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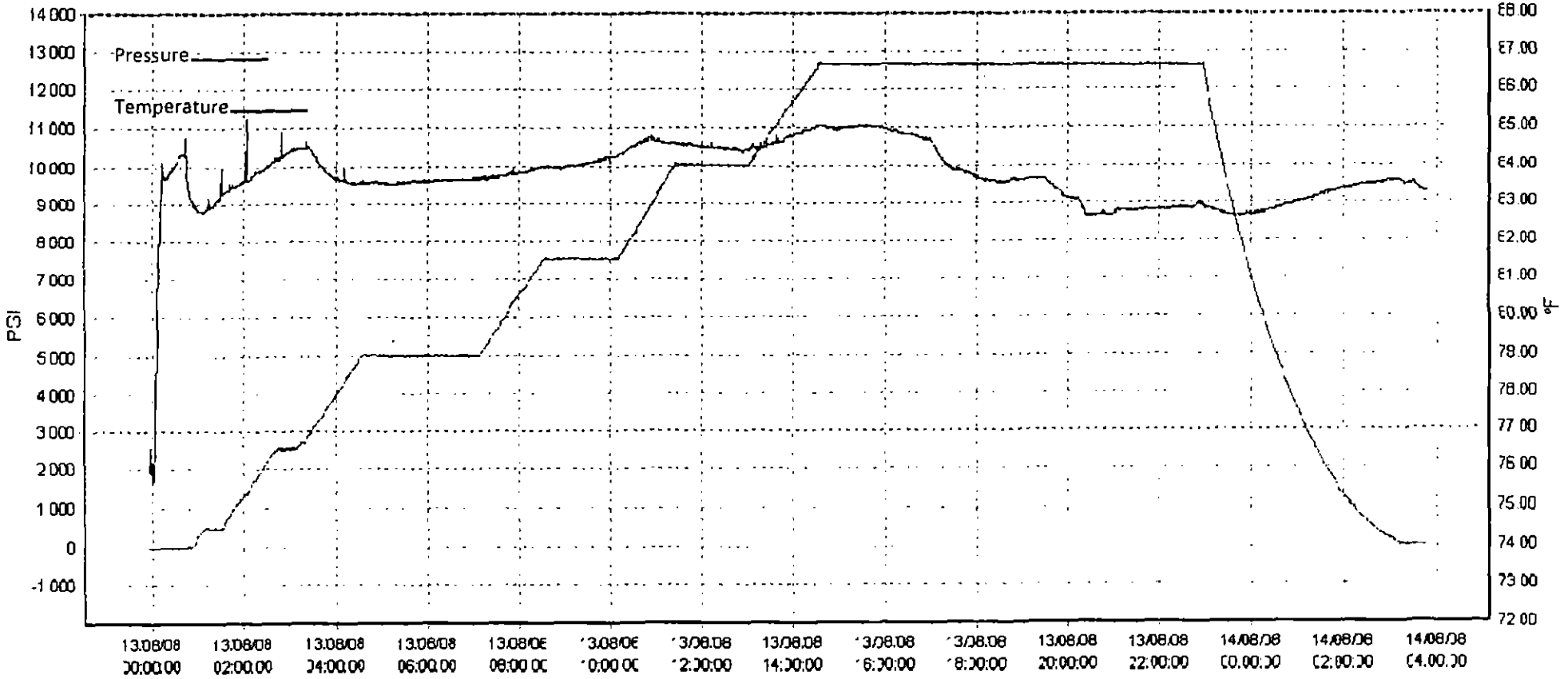
Warning: This information is controlled, and any printed version is deemed as uncontrolled unless suitably endorsed by a controlling authority or accompanied by a controlled table of contents in order to ensure adequate revision control.

Weatherford

BLIND FAITH FLOWLINE HYDROTEST CHARTS

OPERATION: FLOWLINE HYDROTEST
DATE: 13 AUG 08
START TIME: 14:31 HRS: 13 AUG 08
END TIME: 15:30 HRS: 14 AUG 08
LOCATION: MC-650
INSTRUMENT SSN: 1995
TEST ACCEPTED: JASON MCCLURE, CHEVRON



WEATHERFORD REPRESENTATIVE: RICHARD WHITE
SIGNATURE/DATE: 8/15/08

CLIENT REPRESENTATIVE: JASON MCCLURE
SIGNATURE/DATE: 8-15-08

CLIENT REPRESENTATIVE:
SIGNATURE/DATE:

Weatherford

BLIND FAITH FLOWLINE HYDROTEST CHARTS

OPERATION: FLOWLINE HYDROTEST
DATE: 13 AUG 08
START TIME: 14:31 HRS: 13 AUG 08
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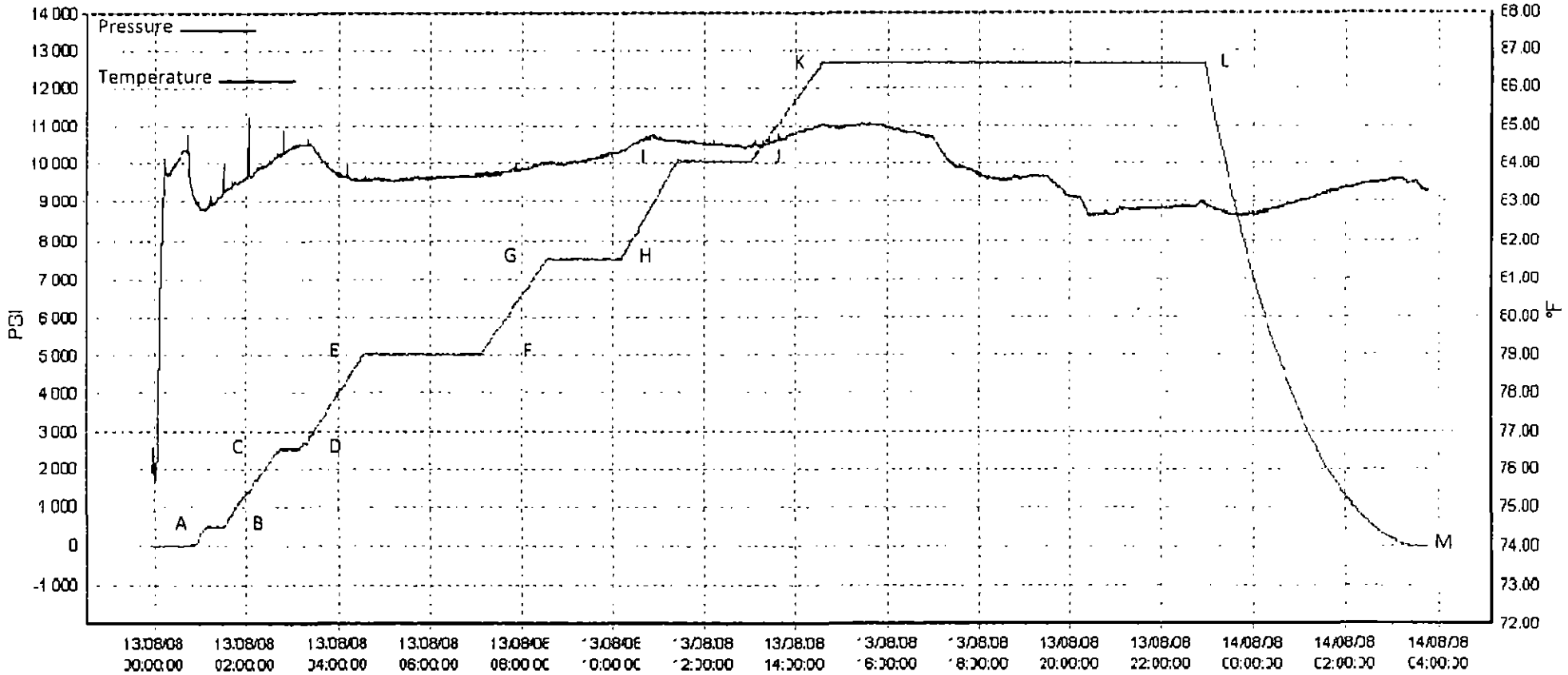


LEGEND:

A: Start hold period – 492psi	B: End hold period – 505psi	C: Begin hold period: 2527psi
D: End hold period – 2523psi	E: Begin hold period – 5033psi	F: End hold period: 5017psi
G: Begin hold period – 7540psi	H: End hold period – 7548psi	I: Begin hold period: 10035psi
J: End hold period – 10032psi	K: Begin Hydrotest Hold period – 12558psi	L: End 8-hr hydrotest hold period – 12612psi
M: System depressurized to ambient		

WEATHERFORD REPRESENTATIVE: RICHARD WHITE
SIGNATURE/DATE: 8/15/08

CLIENT REPRESENTATIVE: JASON MCCLURE
SIGNATURE/DATE: Jason McClure 8/15/08

CLIENT REPRESENTATIVE:
SIGNATURE/DATE:

PL05-051-QD-10 A Revision

Weatherford

Pipeline & Specialty Services

Hydrotest Report

PIPELINE REFERENCE: FLOWLINE - BLIND FAITH

OPERATION: HYDROSTATIC TEST

SUBCONTRACTOR:

CONTRACTOR:

CLIENT: CHEVRON

THIRD PARTY:

CONTRACT NO.: WPSS-005792

LOCATION: MC-650: BLIND FAITH PLATFORM

Date	Time	Pressure psiG	Ambient Temp. °F	Pipewall Temp. °F	Near Shore Temp. °F	Remarks
13/8/08						
	14:31	12558.00		85.01		
	14:34	12630.00		85.04		Stop pressurization. Begin hold period
	14:50	12642.00		84.98		
	15:05	12637.00		84.98		
	15:20	12642.00		85.01		
	15:35	12646.00		85.04		
	15:50	12639.00		85.01		
	16:05	12644.00		84.86		
	16:20	12636.00		84.83		
	16:35	12636.00		84.77		
	16:50	12640.00		84.69		
	17:05	12636.00		84.48		
	17:20	12627.00		84.02		
	17:35	12640.00		83.91		
	17:45	12614.00		83.82		
	18:00	12611.00		83.67		
	18:15	12610.00		83.61		
	18:30	12613.00		83.56		
	18:45	12602.00		83.64		
	19:00	12607.00		83.61		
	19:15	12608.00		83.67		
	19:30	12608.00		83.64		
	19:45	12605.00		83.35		
	20:00	12605.00		83.15		
	20:15	12599.00		83.00		
	20:30	12615.00		82.65		
	20:45	12589.00		82.74		
	21:00	12607.00		82.77		

	Weatherford WFT	Contractor	Client CHEVRON	Third Party
Name:	Richard White		Jason McClure	
Sign:	[signature]		[signature]	
Date:	8/15/08		8/15/08	

PL05-051-QD-10 A Revision

Weatherford

Pipeline & Specialty Services

Hydrotest Report

PIPELINE REFERENCE: FLOWLINE - BLIND FAITH

OPERATION: HYDROSTATIC TEST

SUBCONTRACTOR:

CONTRACTOR:

CLIENT: CHEVRON

THIRD PARTY:

CONTRACT NO.: WPSS-005792

LOCATION: MC-650: BLIND FAITH PLATFORM

Date	Time	Pressure psiG	Ambient Temp. °F	Pipewall Temp. °F	Near Shore Temp. °F.	Remarks
13/8/08						
	21:15	12608.00		82.80		
	21:30	12591.00		82.80		
	21:45	12605.00		82.80		
	22:00	12598.00		82.80		
	22:15	12610.00		82.86		
	22:30	12609.00		82.86		
	22:45	12604.00		82.89		
	22:56	12612.00		82.95		End hydrotest hold period. Hydrotest Accepted Depressurizing system to ambient

	Weatherford WFT	Contractor	Client CHEVRON	Third Party
Name:	Richard White		Jason McClure	
Sign:				
Date:	8/15/08		8/15/08	

O.G.M.E. Oil & Gas Measurement Equipment O.G.M.E.

5227 DOW ROAD - 77040 • P.O. BOX 55641 • HOUSTON, TX 77255 • PH. (713) 263-9740 • FAX (713) 263-9741

INSTRUMENT CALIBRATION

DATE OF CALIBRATION: 07/21/08

CUSTOMER: WEATHERFORD PIPELINE SERVICES

OGME JOB NUMBER: 7590

TYPE OF INSTRUMENT: LEO KELLER PRESSURE GAUGE

PRESSURE RANGE: 0-1,000 BAR/ 0-14,500 PSI

SERIAL NUMBER: 1995

CALIBRATED TO DEAD WEIGHT TESTER TRACABLE TO NATIONAL BUREAU OF STANDARDS.
SERIAL NUMBER: 25509

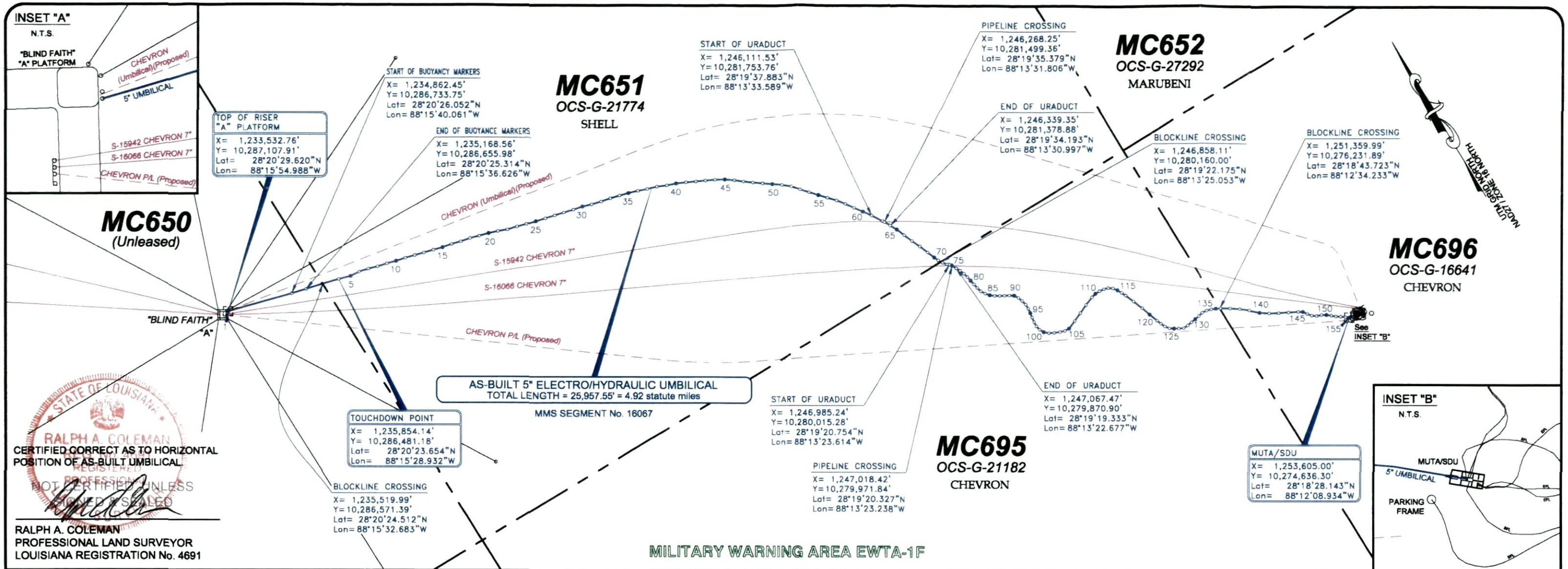
CERTIFICATION DUE DATE: 01/21/09

DEAD WEIGHT	INSTRUMENT
0#	0#
3000#	2994#
7500#	7484#
12000#	11974#
14500#	14475#
7500#	7487#
0#	0#

CALIBRATION TECH: [signature]

QUALITY CONTROL INSPECTOR: [signature]

Insp. Q.C.



STATE OF LOUISIANA
RALPH A. COLEMAN
REGISTERED PROFESSIONAL
NOT CERTIFIED UNLESS COVER SEALED

CERTIFIED CORRECT AS TO HORIZONTAL POSITION OF AS-BUILT UMBILICAL

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

COORDINATE TABLE

POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE	POINT	X COORDINATE	Y COORDINATE
RISER	1,233,532.76'	10,287,107.91'	21	1,239,234.70'	10,285,591.37'	41	1,243,123.79'	10,284,420.09'	61	1,246,111.53'	10,281,753.76'	81	1,247,204.67'	10,279,388.79'	101	1,247,998.47'	10,277,685.54'	121	1,250,084.65'	10,276,713.56'	141	1,252,198.65'	10,275,607.21'
START B.M.	1,234,862.45'	10,286,733.75'	22	1,239,422.56'	10,285,517.07'	42	1,243,306.02'	10,284,331.58'	62	1,246,243.72'	10,281,539.55'	82	1,247,222.38'	10,279,288.52'	102	1,248,096.82'	10,277,632.34'	122	1,250,119.86'	10,276,614.12'	142	1,252,381.50'	10,275,502.10'
END B.M.	1,235,168.56'	10,286,655.98'	23	1,239,623.36'	10,285,467.66'	43	1,243,485.60'	10,284,242.51'	63	1,246,268.25'	10,281,499.36'	83	1,247,247.32'	10,279,188.32'	103	1,248,209.50'	10,277,582.28'	123	1,250,160.74'	10,276,519.85'	143	1,252,564.11'	10,275,407.65'
TOUCH DOWN	1,235,854.14'	10,286,481.18'	24	1,239,819.38'	10,285,411.11'	44	1,243,666.08'	10,284,150.21'	PIPELINE CROSSING	1,246,339.35'	10,281,378.88'	84	1,247,300.83'	10,279,097.94'	104	1,248,308.83'	10,277,547.60'	124	1,250,222.23'	10,276,436.05'	144	1,252,745.68'	10,275,308.85'
5	1,236,102.80'	10,286,405.13'	25	1,240,018.68'	10,285,361.05'	45	1,243,841.54'	10,284,048.51'	65	1,246,417.97'	10,281,235.48'	85	1,247,362.46'	10,279,019.06'	105	1,248,409.41'	10,277,543.35'	125	1,250,305.16'	10,276,378.21'	145	1,252,830.85'	10,275,255.49'
6	1,236,304.61'	10,286,387.32'	26	1,240,216.76'	10,285,311.95'	46	1,244,008.23'	10,283,930.24'	66	1,246,494.85'	10,281,046.77'	86	1,247,443.33'	10,278,953.61'	106	1,248,597.06'	10,277,618.02'	126	1,250,393.07'	10,276,323.69'	146	1,252,885.89'	10,275,170.87'
7	1,236,500.45'	10,286,340.81'	27	1,240,415.92'	10,285,262.33'	47	1,244,168.21'	10,283,802.50'	67	1,246,568.26'	10,280,856.55'	87	1,247,532.91'	10,278,896.66'	107	1,248,784.90'	10,277,700.30'	127	1,250,484.40'	10,276,280.08'	147	1,252,947.19'	10,275,091.24'
8	1,236,694.73'	10,286,279.81'	28	1,240,610.03'	10,285,213.88'	48	1,244,327.62'	10,283,680.28'	68	1,246,645.03'	10,280,670.37'	88	1,247,620.70'	10,278,846.57'	108	1,248,977.16'	10,277,785.00'	128	1,250,584.88'	10,276,283.82'	148	1,253,028.10'	10,275,031.62'
9	1,236,892.77'	10,286,233.62'	29	1,240,809.55'	10,285,161.37'	49	1,244,491.33'	10,283,558.17'	69	1,246,719.64'	10,280,477.94'	89	1,247,709.20'	10,278,799.26'	109	1,249,172.19'	10,277,856.83'	129	1,250,685.93'	10,276,299.68'	149	1,253,126.07'	10,274,996.52'
10	1,237,086.32'	10,286,176.82'	30	1,241,007.49'	10,285,118.24'	50	1,244,657.24'	10,283,437.78'	70	1,246,785.53'	10,280,312.74'	90	1,247,792.18'	10,278,742.55'	110	1,249,271.06'	10,277,883.05'	130	1,250,787.55'	10,276,314.48'	150	1,253,216.52'	10,274,943.40'
11	1,237,284.66'	10,286,128.29'	31	1,241,198.38'	10,285,054.43'	51	1,244,818.73'	10,283,318.46'	71	1,246,826.18'	10,280,216.55'	91	1,247,845.37'	10,278,656.60'	111	1,249,371.62'	10,277,887.22'	131	1,250,886.71'	10,276,332.06'	151	1,253,296.62'	10,274,874.81'
12	1,237,479.42'	10,286,073.63'	32	1,241,399.43'	10,285,003.04'	52	1,244,967.40'	10,283,181.66'	72	1,246,877.41'	10,280,125.83'	92	1,247,876.31'	10,278,560.76'	112	1,249,471.02'	10,277,874.70'	132	1,250,986.73'	10,276,351.41'	152	1,253,373.51'	10,274,807.22'
13	1,237,673.41'	10,286,019.95'	33	1,241,597.97'	10,284,959.33'	53	1,245,102.74'	10,283,025.93'	73	1,246,940.37'	10,280,047.91'	93	1,247,898.33'	10,278,457.23'	113	1,249,567.06'	10,277,844.91'	133	1,251,091.86'	10,276,342.19'	153	1,253,460.23'	10,274,750.86'
14	1,237,871.58'	10,285,965.20'	34	1,241,796.90'	10,284,906.71'	54	1,245,233.58'	10,282,873.21'	74	1,246,985.24'	10,280,015.28'	94	1,247,898.09'	10,278,354.11'	114	1,249,646.28'	10,277,783.79'	134	1,251,190.28'	10,276,311.92'	154	1,253,544.68'	10,274,688.91'
15	1,238,065.68'	10,285,908.71'	35	1,241,988.83'	10,284,850.41'	55	1,245,371.51'	10,282,720.03'	PIPELINE CROSSING	1,247,018.42'	10,279,971.84'	95	1,247,886.08'	10,278,254.24'	115	1,249,707.84'	10,277,701.78'	135	1,251,282.16'	10,276,271.27'	MUTA/ SDU	1,253,605.00'	10,274,636.30'
16	1,238,264.57'	10,285,868.69'	36	1,242,180.20'	10,284,787.44'	56	1,245,508.09'	10,282,568.56'	76	1,247,067.47'	10,279,870.90'	96	1,247,869.28'	10,278,152.63'	116	1,249,755.05'	10,277,609.42'	136	1,251,371.92'	10,276,225.85'			
17	1,238,457.75'	10,285,811.77'	37	1,242,368.63'	10,284,717.35'	57	1,245,645.24'	10,282,418.06'	77	1,247,107.56'	10,279,788.26'	97	1,247,854.64'	10,278,051.35'	117	1,249,795.40'	10,277,514.57'	137	1,251,545.55'	10,276,116.43'			
18	1,238,654.26'	10,285,773.31'	38	1,242,562.32'	10,284,656.62'	58	1,245,766.63'	10,282,255.68'	78	1,247,142.86'	10,279,692.76'	98	1,247,847.66'	10,277,950.08'	118	1,249,872.23'	10,277,319.72'	138	1,251,714.81'	10,275,999.16'			
19	1,238,848.74'	10,285,712.96'	39	1,242,748.94'	10,284,573.87'	59	1,245,878.44'	10,282,089.19'	79	1,247,170.05'	10,279,593.63'	99	1,247,867.98'	10,277,848.64'	119	1,249,951.67'	10,277,104.18'	139	1,251,872.94'	10,275,870.68'			
20	1,239,044.42'	10,285,656.98'	40	1,242,937.64'	10,284,506.84'	60	1,245,996.58'	10,281,922.79'	80	1,247,189.35'	10,279,491.59'	100	1,247,915.21'	10,277,760.41'	120	1,250,014.40'	10,276,907.40'	140	1,252,032.58'	10,275,724.37'			

NOTES:

1. NADCON 2.1 USED FOR CONVERSIONS BETWEEN WGS84 AND NAD27.

2. SURVEY PERFORMED ABOARD THE *AHV BOA SUB C* ON JULY 23 - 30, 2008 UTILIZING USBL POSITIONING SYSTEMS ON *THE MILLENIUM 36* & *MILLENIUM 37* REMOTELY OPERATED VEHICLES.

3. HORIZONTAL LENGTH OF UMBILICAL IS CALCULATED USING SURVEY COORDINATES ALONG THE UMBILICAL FROM THE TOP OF RISERS TO THE MUTA / SUDA AND DOES NOT INCLUDE THE CATENARY LENGTH OF THE RISERS.

DATE: 10/07/2008 TIME: 10:34 FILENAME: M:\PROJECTS\BLINDFAITH\072578_S16067.DWG

2,000 0 2,000

SCALE IN US SURVEY FEET

Chevron

Chevron Corporation

AS-BUILT 5" ELECTRO/HYDRAULIC UMBILICAL
(MMS Seg. No. 16067)
Block 696 - MUTA/SDU to Block 650 - "A"
Mississippi Canyon Area

PREPARED BY: C&C Technologies SURVEY SERVICES
730 E. KALISTE SALOOM ROAD, LAFAYETTE, LA (337) 261-0660

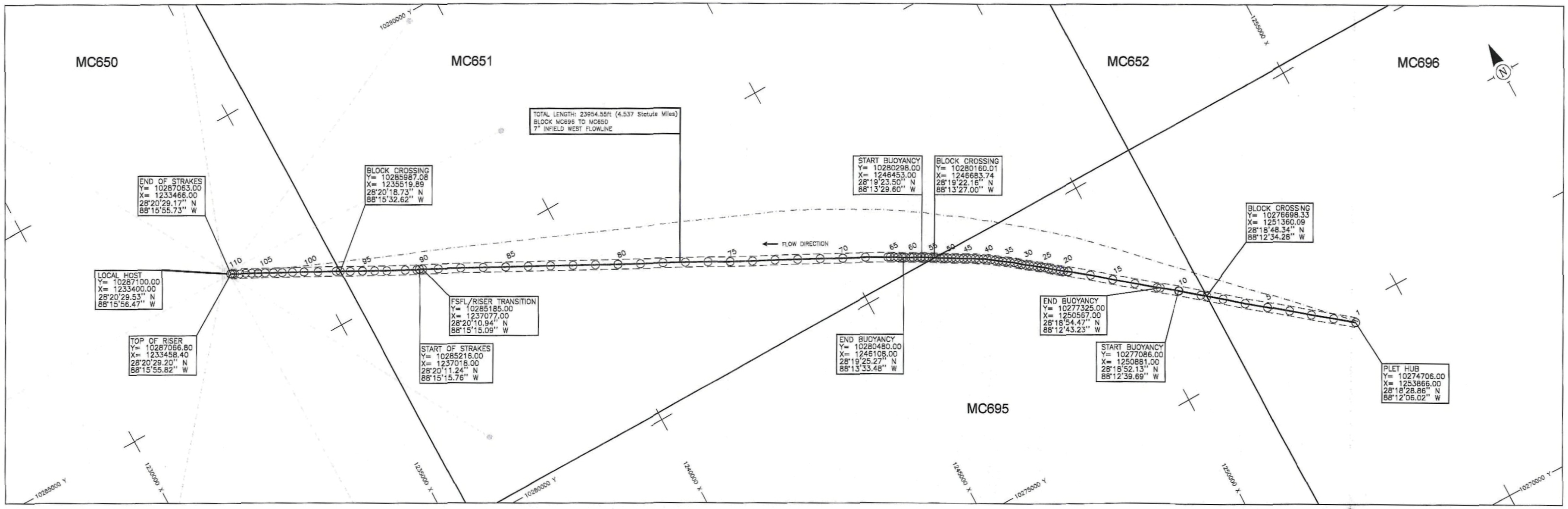
JOB No: 072758

FILENAME: 072758_S16067.DWG

REVISED: 10/07/2008

DATE: AUG. 6, 2008

SHEET 1 of 1

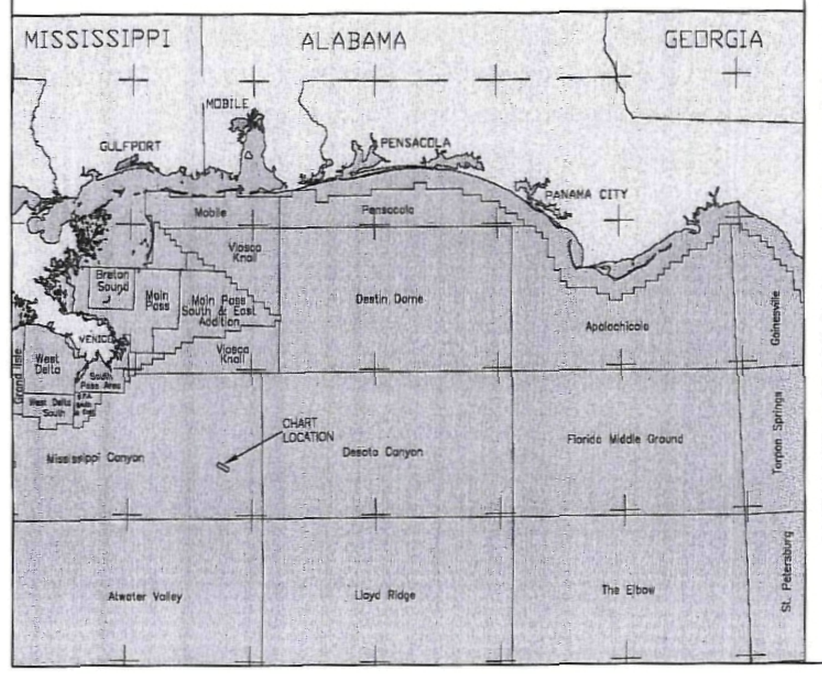


LEGEND:

- AS-BUILT PIPELINE
- ADDITIONAL PROJECT PIPELINES
- EXISTING PIPELINE AS PER MMS
- RIGHT OF WAY CORRIDOR
- MOORING LINES
- TIE POINT (EVERY 5TH LABELLED)

NOTES:

1. DYNAMIC SECTION DATA SHOWN HEREON (TIE POINTS 91–111) HAVE BEEN PROVIDED BY OTHERS. SUBSEA7 MAKES NO CLAIMS TO THE ACCURACY OR COMPLETENESS OF SAID DATA.
2. THIS AS-BUILT SURVEY WAS PERFORMED UTILISING ACCEPTABLE OFFSHORE PROCEDURES AND ACCURACIES. PRECISIONS SHOWN HEREON ARE FOR COMPUTATIONAL PURPOSES ONLY AND NOT INTENDED TO INDICATE ACTUAL PRECISION OF SURVEY. -
3. WGS84 TO NAD27 CONVERSION USING NGS NADCON CONUS DATUM SHIFT FORMULA.
4. SURFACE POSITIONING : VERIPOS ULTRA PRECISE POINT POSITIONING GPS
5. SUBSEA POSITIONING : SIMRAD HIPAP USBL & SONARDYNE LBL
6. AS-LAID SURVEY DATE : NOVEMBER 2007



7" WEST FLOWLINE TIE	EASTING (X)	NORTHING (Y)	REMARKS
1	1253866.00	10274706.00	WEST PLET HUB LOCATION
2	1253493.26	10274996.99	
3	1253117.24	10275291.42	
4	1252745.99	10275586.90	
5	1252373.48	10275884.80	
6	1251997.43	10276176.23	
7	1251632.63	10276481.78	
8	1251360.09	10276698.33	BLOCK LINE CROSSING MC696/MC695
9	1251260.16	10276777.74	
10	1250990.08	10277076.66	
11	1250881.00	10277086.00	START OF BUOYANCY MODULES
12	1250567.00	10277325.00	END OF BUOYANCY MODULES
13	1250511.64	10277365.08	
14	1250139.36	10277661.27	
15	1249767.84	10277958.15	
16	1249402.49	10278263.30	
17	1249033.59	10278547.23	
18	1248920.34	10278557.20	
19	1248957.41	10278610.09	
20	1248894.29	10278658.71	
21	1248829.16	10278709.56	
22	1248765.38	10278760.05	
23	1248700.46	10278813.63	
24	1248638.41	10278865.60	
25	1248573.59	10278916.25	
26	1248508.25	10278961.89	
27	1248442.09	10279015.33	
28	1248375.13	10279062.84	
29	1248308.80	10279108.26	
30	1248242.22	10279160.02	
31	1248180.38	10279213.76	
32	1248118.07	10279267.01	
33	1248050.10	10279316.66	
34	1247982.90	10279362.15	
35	1247915.65	10279408.54	
36	1247846.68	10279454.15	
37	1247782.12	10279502.31	
38	1247715.39	10279553.19	
39	1247648.55	10279601.59	
40	1247579.99	10279645.58	
41	1247496.09	10279687.26	
42	1247429.36	10279735.35	
43	1247358.50	10279777.08	
44	1247286.51	10279815.91	
45	1247214.53	10279855.70	
46	1247142.26	10279895.94	
47	1247071.92	10279936.23	
48	1247000.75	10279979.16	
49	1246929.40	10280015.79	
50	1246858.07	10280060.41	
51	1246785.73	10280099.29	
52	1246715.06	10280140.92	
53	1246683.74	10280160.01	BLOCK LINE CROSSING MC695/MC651
54	1246644.98	10280183.64	
55	1246575.26	10280226.91	
56	1246504.92	10280269.24	
57	1246453.00	10280298.00	START OF BUOYANCY MODULES
58	1246433.27	10280309.20	
59	1246369.82	10280343.42	
60	1246289.24	10280384.03	
61	1246242.32	10280407.16	
62	1246151.12	10280455.46	
63	1246108.00	10280480.00	END OF BUOYANCY MODULES
64	1246080.51	10280495.61	
65	1246009.45	10280538.92	

7" WEST FLOWLINE TIE	EASTING (X)	NORTHING (Y)	REMARKS
66	1245939.37	10280580.06	
67	1245866.80	10280618.84	
68	1245823.98	10280642.04	
69	1245407.48	10280867.89	
70	1244980.88	10281085.24	
71	1244559.26	10281304.44	
72	1244134.13	10281520.81	
73	1243702.20	10281742.10	
74	1243275.04	10281951.78	
75	1242852.40	10282170.18	
76	1242432.29	10282393.38	
77	1242011.16	10282614.64	
78	1241589.38	10282834.65	
79	1241166.51	10283052.63	
80	1240744.73	10283272.61	
81	1240323.57	10283493.84	
82	1239901.19	10283712.73	
83	1239480.23	10283934.35	
84	1239057.66	10284152.82	
85	1238635.12	10284372.15	
86	1238213.99	10284592.62	
87	1237791.36	10284813.39	
88	1237370.56	10285031.76	
89	1237077.00	10285185.00	FSFL / RISER TRANSITION
90	1237018.00	10285216.00	START OF STRAKES
91	1236951.00	10285233.00	
92	1236745.00	10285346.00	
93	1236396.00	10285521.00	
94	1236164.00	10285646.00	
95	1235935.00	10285765.00	
96	1235706.00	10285884.00	
97	1235519.89	10285987.08	BLOCK LINE CROSSING MC650/MC651
98	1235446.00	10286028.00	
99	1235089.00	10286205.00	
100	1234838.00	10286345.00	
101	1234618.00	10286456.00	
102	1234424.00	10286556.00	
103	1234260.00	10286642.00	
104	1234107.00	10286725.00	
105	1233975.00	10286792.00	
106	1233862.00	10286856.00	
107	1233740.00	10286917.00	
108	1233632.00	10286971.00	
109	1233533.00	10287025.00	
110	1233466.00	10287048.00	
111	1233466.00	10287063.00	END OF STRAKES
112	1233458.40	10287066.80	TOP OF RISER

Total length of Pipeline = 23954.55ft (4.537 Statute Miles)

SURVEY CERTIFICATE

I HEREBY CERTIFY THAT THE HORIZONTAL POSITION OF THE AS-BUILT SHOWN HEREON IS BASED UPON GENERALLY ACCEPTED INDUSTRY METHODS AND STANDARDS OF POSITIONING SYSTEMS AS NOTED.

DARREL HEIDRICH P.L.S
PLS REG. #4826

DATE: 3/12/09

STATE OF LOUISIANA — DARREL HEIDRICH REG. No. 4826 REGISTERED PROFESSIONAL LAND SURVEYOR

HORIZONTAL SCALE 1" : 1000'

1000 0 1000 2000 3000 4000

US Survey Feet

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
UTM ZONE 16, CENTRAL MERIDIAN 87° W
CLARKE 1866 SPHEROID, NORTH AMERICAN DATUM 1927
U.S. SURVEY FEET

DRAWING TITLE

BLIND FAITH PROJECT
7" WEST INFIELD FLOWLINE INSTALLATION
BLOCK MC696 to MC650
SEGMENT No. 16066

CLIENT: BLIND FAITH

CONTRACTOR: subsea 7

REV No	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
0	06/03/09	ISSUED FOR AS-BUILT	E.A.R.	I.W.	
B	05/03/09	ISSUED FOR CLIENT REVIEW	E.A.R.	I.W.	
A	04/03/09	ISSUED FOR INTERNAL DEPARTMENTAL REVIEW	E.A.R.	I.W.	

SURVEY VESSEL	DATE OF SURVEY	SHEET NO.	SHEET SIZE	REVISION
MV Toisa Vigilant	NOV 07	1 OF 1	ANSI D	0

PROJECT NUMBER	S7 DRAWING NO.
5004	5004-HED-4000-17