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CHART NO. MC MP-3000-150F 75DIV

METER 242-124440

CHART PUT ON 2:00 P M

TAKEN OFF 2:30 A M

LOCATION Mutual/Marr Liquid

REMARKS

12-2-16

will create  
CROSSFIN  
12-2-16

6 AM

6 PM

MIDNIGHT

NOON

Friday



# HYDRO-TEST DESIGN FORM

Line Name: MARR PAD to MUTUAL 7-17H PAD

Duration of Test = 8 hr

Line Type: SDR 7 HDPE  
AFE # FC13696  
Footage: 8,376  
Volume: 295 BBL

### Elevation Data

Elevation at MARR PAD = 8,130 ft  
Elevation at Tie-in Location = 8,154 ft  
Elevation at Highest Point = 8,156 ft  
Elevation at Lowest Point = 8,130 ft

### ELEVATION PROFILE REQUIRED

### Hydro-Test Specifications

Absolute Minimum Test Pressure = 341 psig  
Absolute Maximum Test Pressure = 440 psig

Test Location: MARR PAD

Pressure Range at Test Location: Minimum = 352 psig  
Maximum = 440 psig

Hydro Test Designed by: Ashley Hail

Date: 11/29/2016

**EXHIBIT 3**

Hydro Test Number: \_\_\_\_\_ AFE: FC13696 Date: 12-2-16 Page 1 of 1  
 Testing Contractor: Crossfire  
 Name: William C. Bivree Exposed Pipe: 50 ft  
 Inspector: \_\_\_\_\_ Buried Pipe: 8376 ft  
 Pipe Size: 8" SDR 7

Test Range		Cycle Instrument Used		C / D	⊙ / D	C / D	C / D	C / D	Notes
DATE	TIME	DEADWEIGHT PRESSURE	OR DIGITAL	AMBIENT TEMP	BURIED PIPE TEMP	EXPOSED PIPE TEMP	GROUND TEMP		
12-2-16	6:20	438.3		20	52				Start Test
11	6:35	426.3		20	52				No leaks
11	6:50	417.6		20	52				Bumped up Pressure
11	7:05	423.0		20	49				Bumped up Pressure
	7:20	414.3		20	52				Bumped up Pressure
	7:35	427.6		20	58				Bumped up Pressure
	7:50	418.1		20	57				Bumped up Pressure
	8:05	427.5		20	56				Bumped up Pressure
	8:20	420.5		20	56				Bumped up Pressure
	8:35	430.5		20	57				Bumped up Pressure
	8:50	422.9		20	58				Bumped up Pressure
	9:05	417.9		20	57				Bumped up Pressure
	9:20	430.9		20	57				Bumped up Pressure
	9:35	424.2		20	56				Bumped up Pressure
	9:50	419.9		20	58				Bumped up Pressure
	10:05	432.9		20	60				Bumped it up one last time, half way through test
	10:20	428.2		20	62				Leak check
	10:35	432.1		20	63				Small dip
	10:50	427.5		20	63				
	11:05	423.7		20	63				
	11:20	420.6		20	63				
	11:35	417.5		20	63				
	11:50	415.2		20	63				
	12:05	412.6		20	63				
	12:20	410.3		20	63				
	12:35	408.6		20	61				
	12:50	406.5		20	61				
	1:05	404.3		20	61				
	1:20	402.7		20	61				
	1:35	400.5		20	60				
	1:50	399.7		20	60				
	2:06	398.6		20	59				
	2:20	397.3		20	57				End of Test

# P-SS-SS-COMPANIES



9700 E. 104<sup>TH</sup> AVE, UNIT F- HENDERSON, CO 80640 - Phone (303)857-7986 - Fax (303)389-4945

## CALIBRATION CERTIFICATE

CERTIFICATE NUMBER: CO

Details +/-: 1.0% ACCURACY

DATE CALIBRATED: 10/18/2016

DUE DATE: 10/18/2017

INDICATED TEMPERATURE RANGE: # 0 - 150°F

INDICATED PRESSURE RANGE: #0 - 3000 PSI

SERIAL NO: 242-126440 / ID: 011216

MANUFACTURER: BARTON/ 12" RECORDER

TYPE OF INSTRUMENT CALIBRATED: TEMPERATURE / PRESSURE RECORDER

INSTRUMENT FINDINGS/STATUS: UNIT IS IN TOLERANCE/ INSTRUMENT MEETS OR EXCEEDS SPECIFICATIONS.

BASED ON INTERNATIONAL STANDARDS OF GRAVITY: (980.665 cm./sq.).

TYPE OF STANDARD USED TO CALIBRATE: REFINERY DEADWEIGHT TEST UNIT SPT.

(35225-3) SERIAL No. 5268: KESSLER TEST THERMOMETERS; SERIAL NO. CALIBRATION

DATE: SEPTEMBER 14, 2015

ALL STANDARD DIRECTLY TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGIES TEST NO: (N.I.S.T.) 2.6/172490 & 6.6/139577.

CALCULATED USING MASS VALUES, AREA, AO, AND STATED GRAVITY.  
ROOM TEMPERATURE/HUMIDITY (AT TIME OF TEST): 66°F / 25%.

CALIBRATED BY: NICK BEDFORD

A handwritten signature in black ink, appearing to read 'Nick Bedford', written over a horizontal line.