

w/ new gas line



HYDRO-TEST DESIGN FORM

Line Name: HEBRON 1-18HR to BIG HORN CENTRAL TANK BATTERY

Duration of Test = 8 hr

Line Type: (2) 8" SDR 5

AFE # FC13699

Footage: 9,740

Volume: 209 BBL TOTAL / 104.5 BBL PER PIPELINE

Elevation Data

Elevation at HEBRON 1-18HR	= 8,156 ft
Elevation at Tie-in Location	= 8,146 ft
Elevation at Highest Point	= 8,156 ft
Elevation at Lowest Point	= 8,146 ft

ELEVATION PROFILE REQUIRED

Hydro-Test Specifications

Absolute Minimum Test Pressure
Absolute Maximum Test Pressure

= 513 psig
= 585 psig

Test Location: HEBRON 1-18HR

Pressure Range at Test Location:

Minimum = 513 psig
Maximum = 581 psig

Hydro Test Designed by: Ashley Hail

Date: 11/29/2016

PSS-COMPANIES



9700 E. 104TH 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

EXHIBIT 3

Hydro Test Number:		AFE: <u>FC13699</u>		Date:		
Testing Contractor: <u>Crossfire</u>				Page <u>1</u> of <u>1</u>		
Name: <u>William Crabtree</u>		Exposed Pipe: <u>50</u> ft				
Inspector:		Buried Pipe: <u>9740</u> ft				
Test Section Name: <u>Hebron 1-18 to Bighorn</u>		Pipe Size: <u>(2) 8" DR5</u>				
Test Range	Circle Instrument Used DIGITAL OR DEADWEIGHT PRESSURE	C / D Exposed pipe temp	C / D BURIED PIPE TEMP	C / D EXPOSED PIPE TEMP	C / D GROUND TEMP	Circle type of instrument used to get reading noted in the log. C = Chart or D = Digital
585 to 513						NOTES: List leak inspections, changes in weather, work activities or problems that may influence the data recorded for this test.
DATE	TIME					
12-13-16	5:15	554.2	68°			On test
	5:30	574.0	68°			Bumped pressure
	5:45	558.7	68°			
	6:00	578.1	68°			add pressure
	6:15	560.0	68°			
	6:30	561.2	80°			Leak check
	6:45	576.5	80°			add pressure
	7:00	563.0	82°			
	7:15	565.8	87°			
	7:30	577.2	87°			add pressure
	7:45	562.4	87°			
	8:00	570.2	88°			
	8:15	559.3	86°			
	8:30	568.0	86°			
	8:45	559.5	86°			add pressure
	9:00	576.0	79°			
	9:15	580.0	79°			
	9:30	565.9	80°			Leak check
	9:45	559.0	80°			
	10:00	553.6	84°			
	10:15	548.3	84°			
	10:30	544.0	84°			
	10:45	540.0	80°			add pressure for last time
	11:00	561.1	89°			
	11:15	556.1	89°			
	11:30	550.6	88°			
	11:45	546.0	90°			
	12:00	542.3	90°			
12-14-16	12:15	538.6	90°			
	12:30	535.5	94°			
	12:45	532.6	94°			
	1:00	529.8	95°			
	1:15	527.2	95°			
	1:30	524.8	96°			
	1:45	522.4	96°			
	2:00	520.0	96°			
	2:15	518.1	96°			
	2:30	516.1	96°			
	2:45	514.2	96°			
	3:00	514.0	96°			End test
	off test					

6 AM 5 6 7

NOON

1

2

3

4

5

6 PM 7 8

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 Graphic Controls LLC

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

METER 242-126440

TAKEN OFF 3:15 A.M.

CHART PUT ON 4:05 P.M.

LOCATION Hebron / Bighorn DKS

REMARKS

