





## HYDRO-TEST DESIGN FORM

Line Name: PINTAIL TANK BATTERY to SENE Corner of Section 17, 7N-80W

Duration of Test = 8 hr

Line Type: SDR 7 HDPE  
AFE # & 16GNPXXP  
Footage: 2,603  
Volume: 96 BBL

### Elevation Data

Elevation at PINTAIL TANK BATTERY	=	8,138	ft
Elevation at Tie-in Location	=	8,124	ft
Elevation at Highest Point	=	8,138	ft
Elevation at Lowest Point	=	8,124	ft

### ELEVATION PROFILE REQUIRED

### Hydro-Test Specifications

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

### Test Location: PINTAIL TANK BATTERY

Pressure Range at Test Location:	Minimum =	341	psig
	Maximum =	434	psig

Hydro Test Designed by: Ashley Hail

Date: 11/22/2016



## HYDRO-TEST DESIGN FORM

Line Name: PINTAIL TANK BATTERY to SENE Corner of Section 17, 7N-80W

Duration of Test = 8 hr

Line Type:

SDR 7 HDPE  
& 16GNPXXP

AFE #

2,603

Footage:

96 BBL

Volume:

### Elevation Data

Elevation at PINTAIL TANK BATTERY	=	8,138 ft
Elevation at Tie-in Location	=	8,124 ft
Elevation at Highest Point	=	8,138 ft
Elevation at Lowest Point	=	8,124 ft

### ELEVATION PROFILE REQUIRED

### Hydro-Test Specifications

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

**Test Location: PINTAIL TANK BATTERY**

<b>Pressure Range at Test Location:</b>	<b>Minimum =</b>	<b>341 psig</b>
	<b>Maximum =</b>	<b>434 psig</b>

Hydro Test Designed by: Ashley Hail

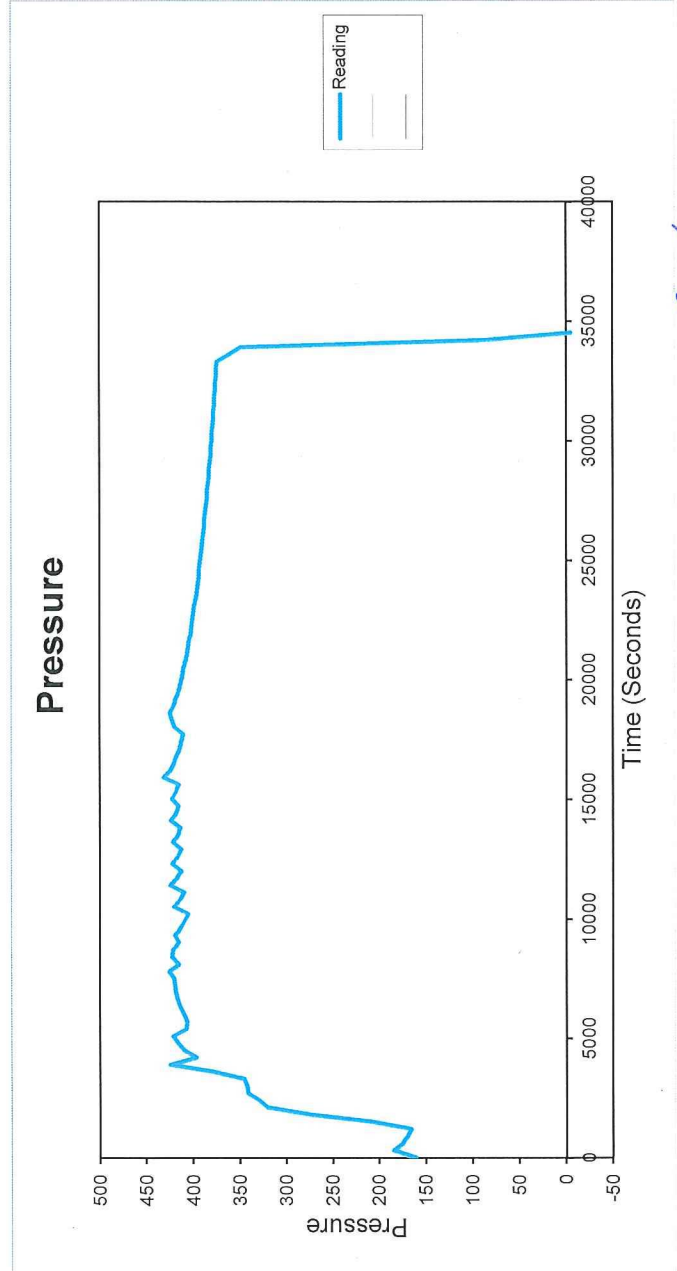
Date: 11/22/2016

Gregory Intersection  
to Pintail Area  
16 GMP 03P

### Data Collection Report

Gauge Information	
Serial Number	476178
Model	10KPSIXP2I
Message Store	.....
Units	PSI

Run Info	
Start Time	11/12/16 9:15:35 AM
Stop Time	11/12/16 6:54:09 PM
Logging Interval	300



*Handwritten signature* 11-12-16

Jb - 8 11-21-11

Serial Number 476178  
 Model 10KPSIXP2I  
 Units PSI  
 Firmware Version R0223  
 Run Index 36  
 Logging Type Actual  
 Logging Interval 300  
 Start Time 11/12/2016 9:15  
 Stop Time 11/12/2016 18:54  
 Time Reading

Message Store -----

Event  
 Battery OK  
 Logging Interval, 300  
 Tare, 0

0	161
0	185
0	175
0	170
300	166
600	209
900	274
1200	321
1500	330
1800	342
2100	343
2400	346
2700	379
3000	425
3300	397
3600	410
3900	417
4200	422
4500	408
4800	407
5100	410
5400	414
5700	417
6000	419
6300	420
6600	421
6900	426
7200	416
7500	423
7800	422
8100	416
8400	420
8700	414
9000	410
9300	406
9600	421
9900	415
10200	410
10500	425
10800	
11100	
11400	

Serial Number 476178  
Model 10KPSIXP2I  
Units PSI  
Firmware Version R0223  
Run Index 36  
Logging Type Actual  
Logging Interval 300  
Start Time 11/12/2016 9:15  
Stop Time 11/12/2016 18:54  
Time Reading

Message Store -----

Event	Event Data
11700	418
12000	413
12300	423
12600	417
12900	413
13200	422
13500	417
13800	414
14100	424
14400	419
14700	416
15000	423
15300	419
15600	416
15900	432
16200	424
16500	421
16800	418
17100	415
17400	413
17700	411
18000	420
18300	423
18600	425
18900	421
19200	419
19500	416
19800	414
20100	412
20400	411
20700	409
21000	407
21300	406
21600	405
21900	403
22200	402
22500	401
22800	400
23100	399
23400	397
23700	396
24000	395

Serial Number 476178  
Model 10KPSIXP2I  
Units PSI  
Firmware Version R0223  
Run Index 36  
Logging Type Actual  
Logging Interval 300  
Start Time 11/12/2016 9:15  
Stop Time 11/12/2016 18:54  
Time Reading

Message Store -----

Time	Reading	Event	Event Data
24300	394		
24600	394		
24900	393		
25200	392		
25500	391		
25800	390		
26100	389		
26400	388		
26700	388		
27000	387		
27300	386		
27600	385		
27900	385		
28200	384		
28500	383		
28800	383		
29100	382		
29400	381		
29700	381		
30000	380		
30300	380		
30600	379		
30900	378		
31200	378		
31500	377		
31800	377		
32100	376		
32400	376		
32700	375		
33000	375		
33300	374		
33600	361		
33900	349		
34200	87		
34500	-5		

**EXHIBIT 3**

Hydro Test Number: \_\_\_\_\_ AFE: 166NUP03P Date: 11/2/16 Page \_\_\_\_\_ of \_\_\_\_\_

Testing Contractor: Crosstire Exposed Pipe: \_\_\_\_\_

Name: Richard Green (Tester) Buried Pipe: \_\_\_\_\_

Inspector: Justin Triplett Pipe Size: 8" DR7

Test Section Name: Pintail to Gregory intersection Circle type of instrument used to get reading noted in the log.

Test Range \_\_\_\_\_ C = Chart or D = Digital

DATE	TIME	DIGITAL OR DEADWEIGHT PRESSURE	C / D	AMBIENT TEMP	BURIED PIPE TEMP	C / D	C / D	C / D	GROUND TEMP	NOTES: List leak inspections, changes in weather, work activities or problems that may influence the data recorded for this test.
11/2/16	10:00	419		36						Start Test
	10:15	416		37						Add Pressure
	10:30	419		37						Add Pressure
	10:45	413		42						Add Pressure
	11:00	416		46						Add Pressure
	11:15	424		48						
	11:30	417		50						
	11:45	424		52						
	12:00	408		52						
	12:15	411		52						
	12:30	412		52						
	12:45	413		52						
	1:00	415		52						
	1:15	<del>415</del> 414		52						
	1:30	418		52						
	1:45	411		52						
	2:00	423		52						
	2:15	418		52						
	2:30	411		50						
	2:45	403		50						
	3:00	403		50						
	3:15	399		50						
	3:30	396		48						
	3:45	393		46						
	4:00	390		46						
	4:15	388		45						
	4:30	385		43						
	4:45	383		41						
	5:00	381		39						
	5:15	379		37						
	5:30	378		36						
	5:45	376		36						
	6:00	375		34						End test

~~pressure~~ leak check / NO leak

pressure drop due to temp change

End 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.

# Certificate of Calibration

Report number FASTCAL-C00114

Manufacturer	Model	Gauge Number	Serial Number	Calibration Date	Expiration Date
Crystal	10KXP21	476178	476178	7/5/2016	1/1/2017

Model Uncertainty
+/- ASME 4A of span (0.1%)

All instrument calibrations are verified for accuracy before they are shipped. The recommended calibration interval for this instrument is 6 months from the date of verification. Your particular quality assurance requirements may supersede this recommendation.

**As Received Condition:** In tolerance

**As Left Condition:** In tolerance

Laboratory ambient conditions throughout this calibration were:

Temperature 70 to 72° F  
 Humidity 30 to 32% RH  
 Pressure 82 to 84 kPa

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology of the United States, through the following report numbers:

Manufacturer	Model	Serial Number	Report Number	Due Date	Reference Uncertainty
Crystal Engineering	15KPSBXP21	465591	10514	12-May-17	0-20% of FS; ±(0.02% of FS); 20%–100% of FS; ±(0.1% of Rsg)

This certificate shall not be reproduced except in full, without written approval.

*Justin Anthony*  
 Justin Anthony

Laboratory Representative

Quality Representative

# Test Results

Report number FASTCAL-C00114

## As Received Test Results

Reference Reading		Gauge Reading	Allowable Tolerance	Difference	Difference (% of fs)	Condition
0	0	0	10	0	0.00%	Pass
2000	1998	10	10	-2	-0.02%	Pass
5000	5002	10	10	2	0.02%	Pass
8000	8003	10	10	3	0.03%	Pass
10000	10005	10	10	5	0.05%	Pass
8000	8004	10	10	4	0.04%	Pass
5000	5003	10	10	3	0.03%	Pass
2000	2000	10	10	0	0.00%	Pass
0	0	10	10	0	0.00%	Pass

## As Left Test Results

Reference Reading		Gauge Reading	Allowable Tolerance	Difference	Difference (% of fs)	Condition
0	0	0	10	0	0.00%	Pass
2000	1998	10	10	-2	-0.02%	Pass
5000	5002	10	10	2	0.02%	Pass
8000	8003	10	10	3	0.03%	Pass
10000	10005	10	10	5	0.05%	Pass
8000	8004	10	10	4	0.04%	Pass
5000	5003	10	10	3	0.03%	Pass
2000	2000	10	10	0	0.00%	Pass
0	0	10	10	0	0.00%	Pass

AR Head correction:  
AL Head correction:

0 PSI  
0 PSI