



HYDRO-TEST DESIGN FORM

Line Name: **RAY RANCH EAST to PINTAIL TANK BATTERY**

Duration of Test = 8 hr

Line Type: **SDR 7 HDPE**
AFE # **& 16GNPXXP**
Footage: **1,776**
Volume: **65 BBL**

Elevation Data

Elevation at RAY RANCH EAST	=	8,243 ft
Elevation at Tie-in Location	=	8,138 ft
Elevation at Highest Point	=	8,243 ft
Elevation at Lowest Point	=	8,138 ft

ELEVATION PROFILE REQUIRED

Hydro-Test Specifications

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

Test Location: RAY RANCH EAST

Pressure Range at Test Location:	Minimum = 341 psig
	Maximum = 395 psig

Hydro Test Designed by: Ashley Hail

Date: 11/22/2016

EXHIBIT 3

Hydro Test Number: _____ AFE: 16GNP03P Date: 11-14-16
 Testing Contractor: Crossfire Page _____ of _____
 Name: William Crabtree Exposed Pipe: _____ ft
 Inspector: Justin Triplett Buried Pipe: _____ ft
 Test Section Name: 8" DR7 Pintail to Ray Ranch Pipe Size: 8" DR7

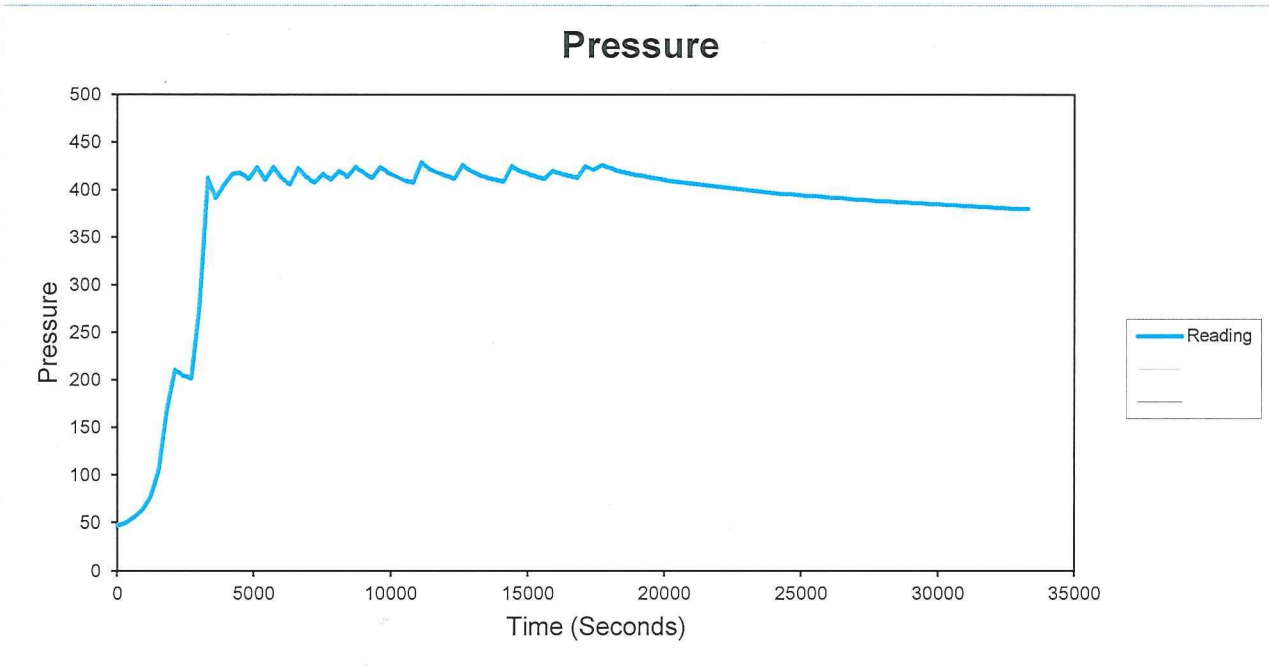
Test Range		Circle Instrument Used DIGITAL OR DEADWEIGHT PRESSURE	C / D	C / D	C / D	C / D	Circle type of instrument used to get reading noted in the log. C = Chart or D = Digital
to	AMBIENT TEMP		BURIED PIPE TEMP	EXPOSED PIPE TEMP	GROUND TEMP	NOTES: List leak inspections, changes in weather, work activities or problems that may influence the data recorded for this test.	
DATE	TIME						
11/14/16	9:30	420			37		ON Test
	9:45	402			37		settling out / dropping pressure
	10:00	405			38		
	10:15	414			39		Add pressure
	10:30	418			39		
	10:45	411			43		Leak inspection (All clear / no leaks)
	11:00	412			45		
	11:15	411			47		
	11:30	412			49		
	11:45	423			50		
	12:00	412			52		
	12:15	417			52		
	12:30	411			52		
	12:45	418			52		
	1:00	412			53		
	1:15	413			54		Add pressure (NO more pump usage)
	1:30	427			54		
	1:45	420			54		
	2:00	415			51		
	2:15	411			48		
	2:30	406			48		
	2:45	403			48		
	3:00	399			48		
	3:15	397			48		
	3:30	395			48		
	3:45	393			47		
	4:00	391			46		
	4:15	389			44		Temp dropping
	4:30	388			43		
	4:45	386			42		
	5:00	385			40		
	5:15	383			39		pressure dropping due to temp
	5:30	381			38		
	5:45	380			37		END Test

Ray Ranch to Pintar
Gas
16 GNPO3P

Data Collection Report

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

Run Info	
Start Time	11/14/16 9:00:36 AM
Stop Time	11/14/16 6:18:45 PM
Logging Interval	300



[Signature] 11-14-16
[Signature] 11-14-16

Serial Number 476178
 Model 10KPSIXP2I
 Units PSI
 Firmware Version R0223 Message Store -----
 Run Index 37
 Logging Type Actual
 Logging Interval 300
 Start Time 11/14/2016 9:00
 Stop Time 11/14/2016 18:18
 Time Reading

Event Event Data
 Battery OK
 Logging Interval, 300
 Tare, 0

0	
0	
0	
0	47
300	50
600	56
900	63
1200	77
1500	105
1800	168
2100	211
2400	205
2700	202
3000	279
3300	413
3600	392
3900	406
4200	417
4500	418
4800	412
5100	424
5400	411
5700	424
6000	413
6300	406
6600	423
6900	414
7200	408
7500	417
7800	411
8100	420
8400	414
8700	424
9000	418
9300	413
9600	424
9900	418
10200	414
10500	410
10800	408
11100	429
11400	422

Serial Number 476178
 Model 10KPSIXP2I
 Units PSI
 Firmware Version R0223 Message Store -----
 Run Index 37
 Logging Type Actual
 Logging Interval 300
 Start Time 11/14/2016 9:00
 Stop Time 11/14/2016 18:18
 Time Reading

11700	418
12000	415
12300	412
12600	426
12900	420
13200	416
13500	413
13800	411
14100	409
14400	425
14700	420
15000	417
15300	414
15600	412
15900	420
16200	417
16500	415
16800	413
17100	425
17400	421
17700	426
18000	423
18300	420
18600	418
18900	416
19200	415
19500	413
19800	412
20100	410
20400	409
20700	408
21000	407
21300	406
21600	405
21900	404
22200	403
22500	402
22800	401
23100	400
23400	399
23700	398
24000	397

Event

Event Data

Serial Number 476178
Model 10KPSIXP2I
Units PSI
Firmware Version R0223 Message Store -----
Run Index 37
Logging Type Actual
Logging Interval 300
Start Time 11/14/2016 9:00
Stop Time 11/14/2016 18:18
Time Reading

24300	396
24600	396
24900	395
25200	394
25500	394
25800	393
26100	392
26400	392
26700	391
27000	390
27300	390
27600	389
27900	388
28200	388
28500	387
28800	387
29100	386
29400	386
29700	385
30000	385
30300	384
30600	384
30900	383
31200	383
31500	382
31800	382
32100	381
32400	381
32700	380
33000	380
33300	380

Event

Event Data

Certificate of Calibration

Report number FASTCAL-C00114

Manufacturer	Model	Gauge Number	Serial Number	Calibration Date	Expiration Date
Crystal	10KXP2I	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	15KPSIBXP2I	465591	10514	12-May-17	0-20% of FS: ±(0.02% of FS); 20%-100% of FS: ±(0.1% of Rdg)

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

10000 PSI

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

As Left Test Results

10000 PSI

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

AR Head correction: 0 PSI
 AL Head correction: 0 PSI