

| <div style="text-align: center;"> TEST SPECIFICATIONS Black Diamond Gathering, LLC - Pressure Test PDC Thistle Down Well Connect </div> | | Date: | | Select Routing: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|--|------------------------|---|----------------------------------|----------------------|----------------|------------------|-----------------|--|------------|---------------|-----------------|--------------|---------------------------|-------|-------|--|-------|-------|-------|-------|-------|--|-------|----------------|------|------|-------|-------|-------|-------|-----|-------|-------|---------------|------|------|-------|-------|-------|-------|-----|-------|-------|-----|-------|------|-------|-------|-------|-------|-----|-------|-------|------------------------------------|-------------|-------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|
| | | 13-Jun-2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: PDC Thistle Down Well Connect | | Project I.D. / AFE Number 5000421 | | Facility Name or Number Thistle Down Connect - BDO-04-RVA-100-L6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contractor / Testing Company: Northwinds | | Technician | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Location (M.P. or S.S.): 0+00 to 11+01 | | State: CO | County/Parish: Weld | Class Location Designation N/A | Selected Design Pressure 1480 | Planned MAOP 1480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lat: 40°21'4.76"N to Lat: 40°21'7.48"N Long: 104°35'33.46"W to Long: 104°35'45.77"W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description: Hydrostatic pressure test of 1,101' of 4" Carbon Steel. Testing at 1.25*MAOP = 1850 psig minimum test pressure. 2038 psig Target Test Pressure at Chart Location Max Test Pressure for ANSI 600 Valves and Fittings is 2660 psig where they are located. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LEAK ONLY TEST <input type="checkbox"/> STRENGTH TEST <input type="checkbox"/> FABRICATION <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> REPLACEMENT <input type="checkbox"/> RETEST <input type="checkbox"/> REFERENCE DRAWINGS ATTACHED <input checked="" type="checkbox"/> POST-INSTALLATION TEST <input type="checkbox"/> PRE-INSTALLATION TEST <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Component Characteristics Pipe Information <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>O.D.</td><td>4.5</td></tr> <tr><td>Wall Thickness</td><td>0.188</td></tr> <tr><td>SMYS</td><td>52,000</td></tr> <tr><td>Grade</td><td>X52</td></tr> </table> Valve/Flange ANSI Class Rating 600# Valves/Fittings | | O.D. | 4.5 | Wall Thickness | 0.188 | SMYS | 52,000 | Grade | X52 | Test Design Criteria Test Pressure Calculations <input type="checkbox"/> Input minimum and maximum pressure of test <input type="checkbox"/> Input minimum and maximum %SMYS of test <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Pressure (psig)</th> <th>% PIPE SMYS</th> </tr> </thead> <tbody> <tr> <td>Max. Test Pressure (Pipe)</td> <td>2220</td> <td>51.1%</td> </tr> <tr> <td>Max. Test Pressure (Valves and Fittings)</td> <td>2220</td> <td>51.1%</td> </tr> <tr> <td>Min.</td> <td>1850</td> <td>42.6%</td> </tr> </tbody> </table> | | | Pressure (psig) | % PIPE SMYS | Max. Test Pressure (Pipe) | 2220 | 51.1% | Max. Test Pressure (Valves and Fittings) | 2220 | 51.1% | Min. | 1850 | 42.6% | Test Section - Reference Data Test Medium: Water Test Duration: 8 hour Hours (min) Section Length: 1,101 Ft. Section Fill Volume: 910 Gal Max. Elevation Change: 14 Ft. Station Equations: Back: 0+00, 0+00, 0+00 Ahead: 0+00, 0+00, 0+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O.D. | 4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wall Thickness | 0.188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMYS | 52,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade | X52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pressure (psig) | % PIPE SMYS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Min. | 1850 | 42.6% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Pressures <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Location</th> <th>Station</th> <th>Elevation (feet)</th> <th>Max. psig.</th> <th>% SMYS @ Max.</th> <th>Min. psig.</th> <th>% SMYS @ Min.</th> <th>Variance psig.</th> <th>Target psig.</th> <th>% SMYS @ Target</th> </tr> </thead> <tbody> <tr> <td>BEGIN</td> <td>0+00</td> <td>4806</td> <td>2,220</td> <td>51.1%</td> <td>1,856</td> <td>42.7%</td> <td>364</td> <td>2,038</td> <td>46.9%</td> </tr> <tr> <td>HIGH ELEVATION</td> <td>7+80</td> <td>4820</td> <td>2,214</td> <td>51.0%</td> <td>1,850</td> <td>42.6%</td> <td>364</td> <td>2,031</td> <td>46.7%</td> </tr> <tr> <td>LOW ELEVATION</td> <td>0+00</td> <td>4806</td> <td>2,220</td> <td>51.1%</td> <td>1,856</td> <td>42.7%</td> <td>364</td> <td>2,038</td> <td>46.9%</td> </tr> <tr> <td>END</td> <td>11+01</td> <td>4814</td> <td>2,217</td> <td>51.0%</td> <td>1,853</td> <td>42.6%</td> <td>364</td> <td>2,034</td> <td>46.8%</td> </tr> <tr> <td>Chart Location (Test Point)</td> <td>0+00</td> <td>4806</td> <td>2,220</td> <td>51.1%</td> <td>1,856</td> <td>42.7%</td> <td>364</td> <td>2,038</td> <td>46.9%</td> </tr> </tbody> </table> | | | | | | Location | Station | Elevation (feet) | Max. psig. | % SMYS @ Max. | Min. psig. | % SMYS @ Min. | Variance psig. | Target psig. | % SMYS @ Target | BEGIN | 0+00 | 4806 | 2,220 | 51.1% | 1,856 | 42.7% | 364 | 2,038 | 46.9% | HIGH ELEVATION | 7+80 | 4820 | 2,214 | 51.0% | 1,850 | 42.6% | 364 | 2,031 | 46.7% | LOW ELEVATION | 0+00 | 4806 | 2,220 | 51.1% | 1,856 | 42.7% | 364 | 2,038 | 46.9% | END | 11+01 | 4814 | 2,217 | 51.0% | 1,853 | 42.6% | 364 | 2,034 | 46.8% | Chart Location (Test Point) | 0+00 | 4806 | 2,220 | 51.1% | 1,856 | 42.7% | 364 | 2,038 | 46.9% |
| Location | Station | Elevation (feet) | Max. psig. | % SMYS @ Max. | Min. psig. | % SMYS @ Min. | Variance psig. | Target psig. | % SMYS @ Target | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BEGIN | 0+00 | 4806 | 2,220 | 51.1% | 1,856 | 42.7% | 364 | 2,038 | 46.9% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| REMARKS: ASME B16.5 2.6 System Hydrostatic Testing 2003: Flanged joints and flanged fittings may be subjected to system hydrostatic tests at a pressure of 1.5 times the 38°C (100°F) rating rounded off to the next higher 1 bar (25 psi) increment. Testing at any higher pressure is the responsibility of the user, taking into account the requirements of the applicable code or regulation. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRE-TEST APPROVAL / REVIEWED BY: | | TEST PERFORMED / ACCEPTED BY: | | POST-TEST REVIEWED BY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Originator/Project Manager (Signature) <i>Craig Melton</i> Date: 06/13/2019 | | Test Performed by (Signature): <i>Emmanuel Zeeb</i> Date: 6-25-19 | | Construction Manager (signature) <i>[Signature]</i> Date: 6-25-19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designed Reviewed if applicable (Signature) Date: | | Company Name (for Contractor or for Employee): <i>Northwinds of Wyoming</i> Date: 6-25-19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compliance (Signature) Date: | | Witnessed & Accepted by Company Representative: (Signature) <i>[Signature]</i> Date: 6-25-19 | | Actual MAOP _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Pipeline Pressure Test Documentation

Pressure Test Report

Form :

Revision 3

Revision Date

Project Name : PDC Thistle Down Well Connect

AFE No. : 5000421

Contractor / Testing Company : Northwinds

Technician : Mannie

Test Section No. : 0

From Station No. : 0+00

Test Description: Hydrostatic pressure test of 1,101' of 4" Carbon Steel.

To Station No. : 11+01

Test Type : Subpart E Test

Start of Test Period :

Date : 6-25-2019

Time : 6:00 AM

Min. Test Duration : 8 hour

End of Test Period :

Date : 6-25-2019

Time : 4:20 PM

Class Location : Not Applicable (Liquids)

Low Strength Pipe : O.D. : 4.500 W.T. : 0.188 SMYS: 52,000 Grade: X52 Station Piping : Yes

Test Medium : Water Source of Medium : N/A

Corrosion Inhibitor : No Inhibitor Type : N/A Rate : N/A

Leak Detection : No Material Type : N/A Rate : N/A

Deadweight Tester : Mfg: Crystal Engineering Serial #: 352036

Calibration Date : 6-14-19

Deadweight Tester Location : Station No. (ESN) : 0+00 Elevation (ft) : 4,806

Pressure Recorder : Mfg: Barton Serial #: 265A-3511

Calibration Date : 6-19-19

Pipe Temp. Recorder : Mfg: Barton Serial #: 265A-3511

Calibration Date : 6-19-19

Target Test Pressure Range

Pre-approved Target Test Pressure : 2,038.0 psig

Maximum Test Pressure : 2,220.0 psig

Max Elevation Change: 14

Minimum Test Pressure : 1,850.0 psig

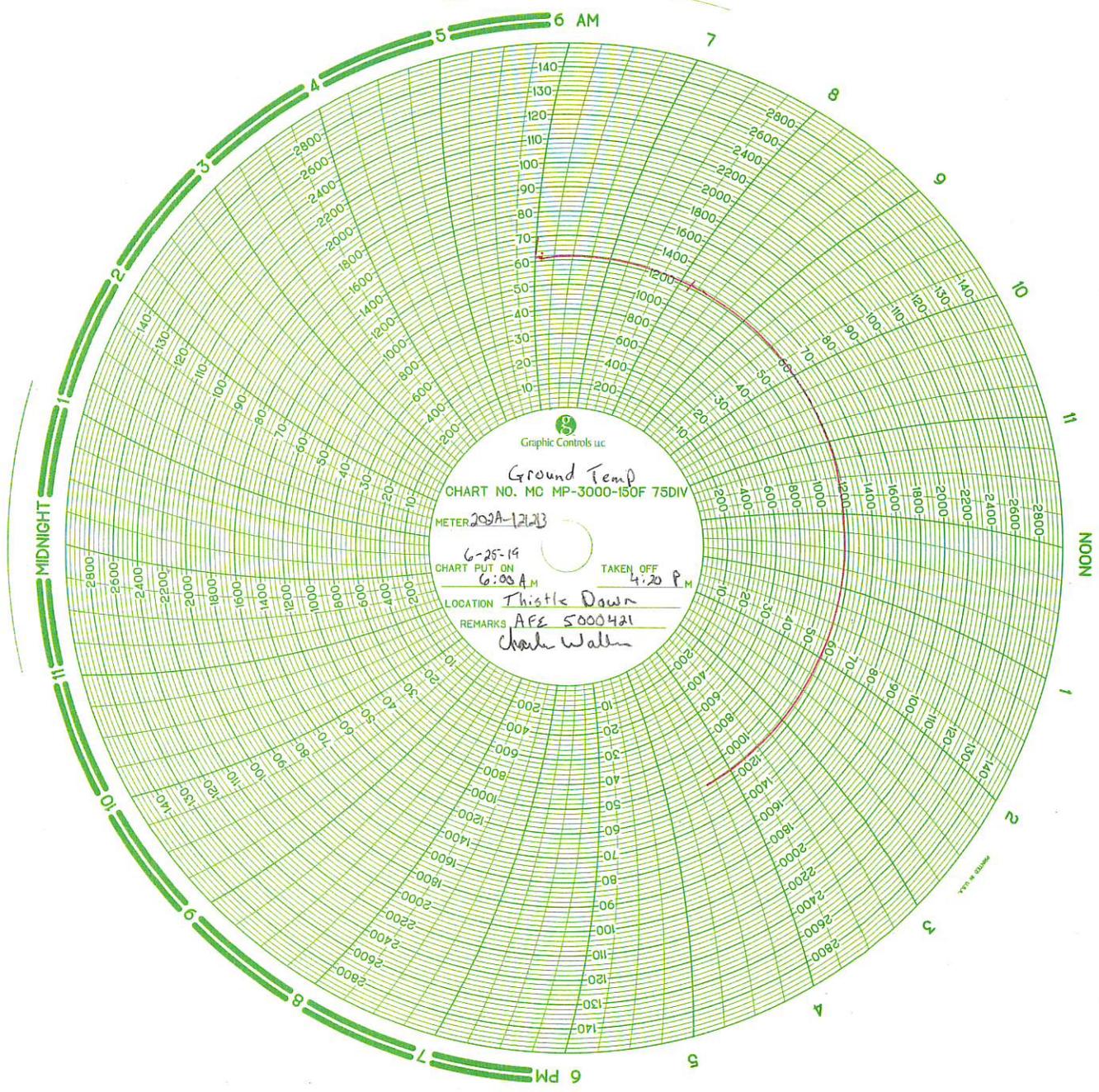
| Time | Pressure (psig) | Pipe Temp. | Amb. Temp. | Weather | Visual Inspection | Comments |
|----------|-----------------|------------|------------|---------------|-------------------|--|
| 6:00 Am | 0 | 52 | 57 | Mostly Sunny | | |
| 6:15 | 0 | 52 | 57 | | | Build to 1019 |
| 6:18 | 1020 | 52 | 57 | | OK | Hold 15 minutes |
| 6:33 | 1020 | 52 | 58 | | | Build to 1630 |
| 6:37 | 1631 | 52 | 58 | | OK | Hold 15 minutes |
| 6:52 | 1631 | 52 | 59 | | | Build to 2038 |
| 6:54 | 2040 | 52 | 59 | | | Hold |
| * 7:00 | 2040 | 52 | 59 | Mostly Sunny | OK | BEGIN TEST * |
| 7:15 | 2040 | 52 | 60 | 0 wind | OK | Check for leaks |
| 7:30 | 2040 | 52 | 61 | | | |
| 7:45 | 2040 | 52 | 62 | | | |
| 8:00 | 2041 | 52 | 63 | | OK | |
| 8:30 | 2043 | 54 | 67 | | | |
| 9:00 | 2047 | 55 | 69 | | | |
| 9:30 | 2052 | 57 | 72 | | | |
| 10:00 | 2057 | 58 | 74 | | | Bleed down to 2040 |
| 10:30 | 2044 | 61 | 76 | | | |
| 11:00 | 2049 | 64 | 77 | | | |
| 11:15 | 2057 | 79 | 78 | | | Bleed down to 2040 |
| 11:30 | 2042 | 75 | 79 | | | The receiver has been in the shade of the sound wall until 11:30 |
| 12:00 PM | 2047 | 76 | 80 | Partly Sunny | | |
| 12:30 | 2053 | 77 | 82 | Wind @ 10 | | |
| 12:45 | 2064 | 78 | 83 | | | Bleed down to 2040 |
| 1:00 | 2043 | 79 | 83 | Mostly Cloudy | | |
| 1:30 | 2050 | 82 | 83 | wind @ 10 | | |

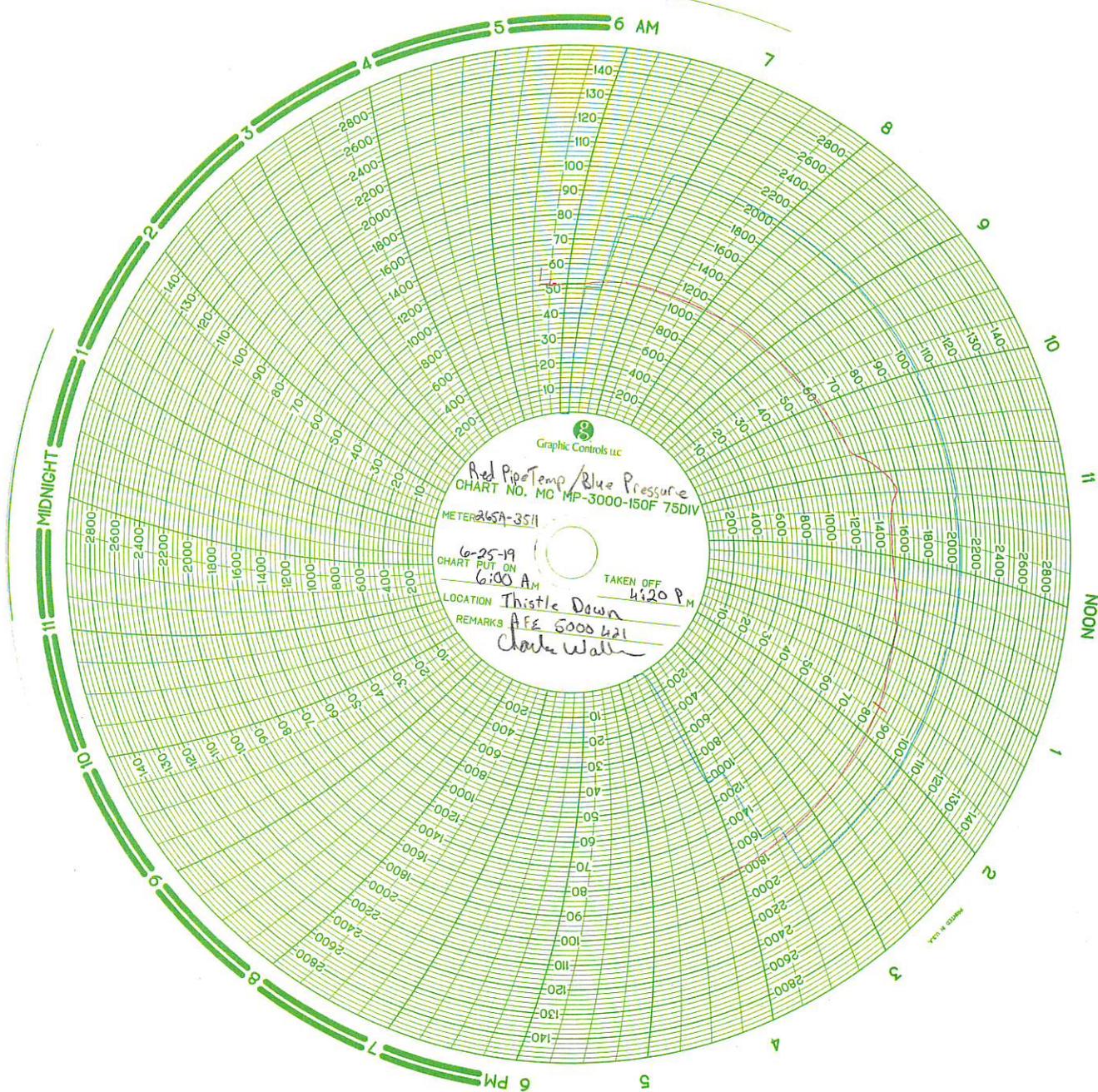
6-25-19

*

*

11:30





Graphic Controls LLC
 Red Pipe Temp / Blue Pressure
 CHART NO. MC MP-3000-150F 75DIV
 METER 215A-3511
 6-25-19
 CHART PUT ON 6:00 AM
 TAKEN OFF 4:20 PM
 LOCATION Thistle Down
 REMARKS AFE 5000 h21
 Charles Waller

1971 © 2000

C1

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: 06/19/2019

DUE DATE: 06/19/2020

INDICATED TEMPERATURE RANGE: # 0 – 150°F

INDICATED PRESSURE RANGE: #0 – 3000 PSI

SERIAL NO: 265A3511

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

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


SIGNATURE



Calibration Certificate

7200 E. Dry Creek Rd, STE C-102, Centennial, CO 80112
Ph. 303-804-0667 Cal.Lab@Apex-Instruments.com

CR-1

Certificate Number: 192453

Customer:

Pipeline Supply & Service
Henderson, CO

Manufacturer: Crystal Engineering
Model Number: XP2i 5000 psi
Serial Number: 352036
Description: Digital Test Gauge
Procedure: CI-001
Calibrated To: Manufacturer's Specifications
Technician: Austin Molyneux

Calibration Date: 6/14/2019
Due Date: 6/14/2020
As Found: In Tolerance
As Left: In Tolerance
Temperature: 69.7 F
Humidity: 38.2 %

Tolerance Specs:

0 - 20%: +/- (0.02% of FS)
20% - 100%: +/- (0.1% of Rdg)

Technician Notes:

As Left Userspan: 1.00075

Approved Signatory:

Apex Instruments certifies that the instrument listed above meets the specifications of the manufacturer at the completion of its calibration. Standards used are traceable to the National Institute of Standards and Technology (NIST), or have been derived from accepted values, natural physical constants, or through the use of the ratio method of self-calibration techniques.

Methods used are in accordance with the procedure listed above. This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

Unless otherwise contractually specified, a binary decision rule, utilizing simple acceptance, and simple rejection criteria will be used for the determination of compliance. When compliance statements are present, they are reported without factoring in the effects of uncertainty and the limits are defined by the manufacturer's stated accuracy.

This certificate does not guarantee the continued performance of the instrument listed above. Any modifications or services performed hereafter may void this certificate.

This certificate is not to be reproduced other than in full, except with prior written approval from Apex Instruments Inc.



APX00674

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P-S-S-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: 06/19/2019
DUE DATE: 06/19/2020

INDICATED TEMPERATURE RANGE: # 0 – 150°F
INDICATED PRESSURE RANGE: #0 – 3000 PSI
SERIAL NO: 202A-121213
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.).

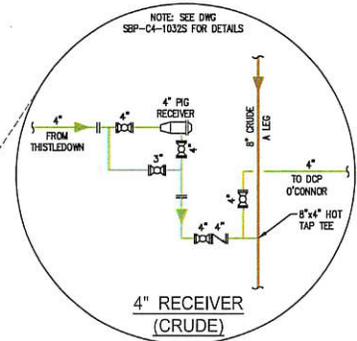
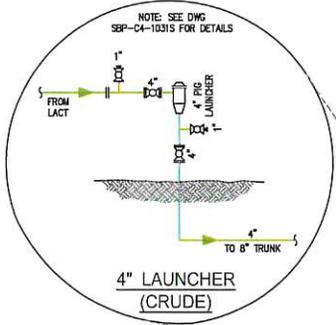
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ALL STANDARD DIRECTLY TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGIES TEST NO: (N.I.S.T.) 2.6/172490 & 6.6/139577.

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

CALIBRATED BY: NICK BEDFORD

* hydrotest included highlighted fab (drawings attached), receiver 1032-18, launcher 1031-41 + all piping in between



THISTLEDOWN

4" CRUDE (1,000')
BDO-04-RVA-100-L6

8" CRUDE
A LEG

WELD COUNTY, COLORADO

200' 0 200'

SCALE: 1" = 100'
(24" X 36" DRAWING FORMAT)

LEGEND

- BLACK DIAMOND CRUDE GATHERING PIPELINE
- BLACK DIAMOND CRUDE TRUNK PIPELINE
- LAUNCHER (CRUDE)
- RECEIVER (CRUDE)
- WELL LOCATIONS

- NOTES:
- 1) FLOW SCHEMATIC IS FOR GRAPHICAL REPRESENTATION ONLY.
 - 2) ALL GAS, WATER, AND UTILITY LINES SHOULD BE LOCATED PRIOR TO ANY EXCAVATING, DRIVING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
 - 3) CAM ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOWN ON THIS PLAN.
 - 4) COORDINATE SYSTEM BASED ON NAD 83 COLORADO STATE PLANE, NORTH ZONE.
 - 5) PROPOSED PIPELINE ROUTES FROM IMPORTED SHAPE FILES PROVIDED BY BLACK DIAMOND GATHERING.

| REFERENCE DRAWINGS | | REVISIONS | | | | DRAWN BY | | PREPARED FOR: | |
|--------------------|-------|-----------|-------------|------|----|----------|----------|---------------------------------|--|
| | | | | | | TAM | 06/12/18 | BLACK DIAMOND GATHERING | |
| | | | | | | JAK | 06/12/18 | FLOW SCHEMATIC | |
| | | | | | | JAK | 06/12/18 | BDO-04-RVA-100-L6 (THISTLEDOWN) | |
| | | | | | | JAK | 06/12/18 | WELD COUNTY, COLORADO | |
| | | | | | | JAK | 06/12/18 | PROJECT NUMBER: 19-097 | |
| | | | | | | JAK | 06/12/18 | DRAWING NUMBER: RV-PL-MAP-0072 | |
| DWG. NO. | TITLE | NO. | DESCRIPTION | DATE | BY | CHK. | APP. | SCALE: 1" = 100' | |

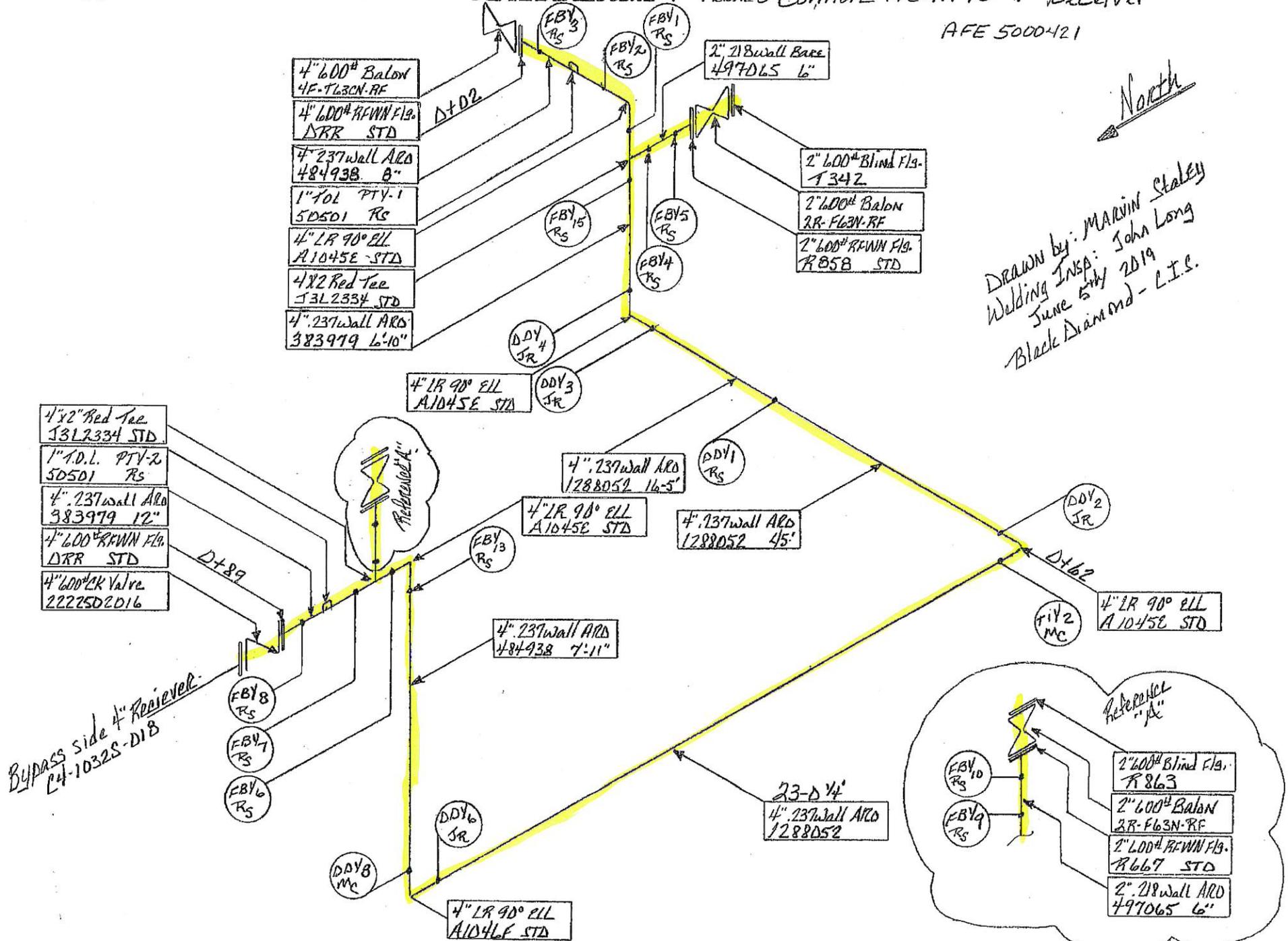
06/12/2018 11:13:28am by: tam@cam-engineering.com Path: \\cam\client\19\Black Diamond\Gathering\RV-PL-MAP-0072.dwg

Whistle Downs 4" from O'Connor 2 tie-in to 4" Receiver

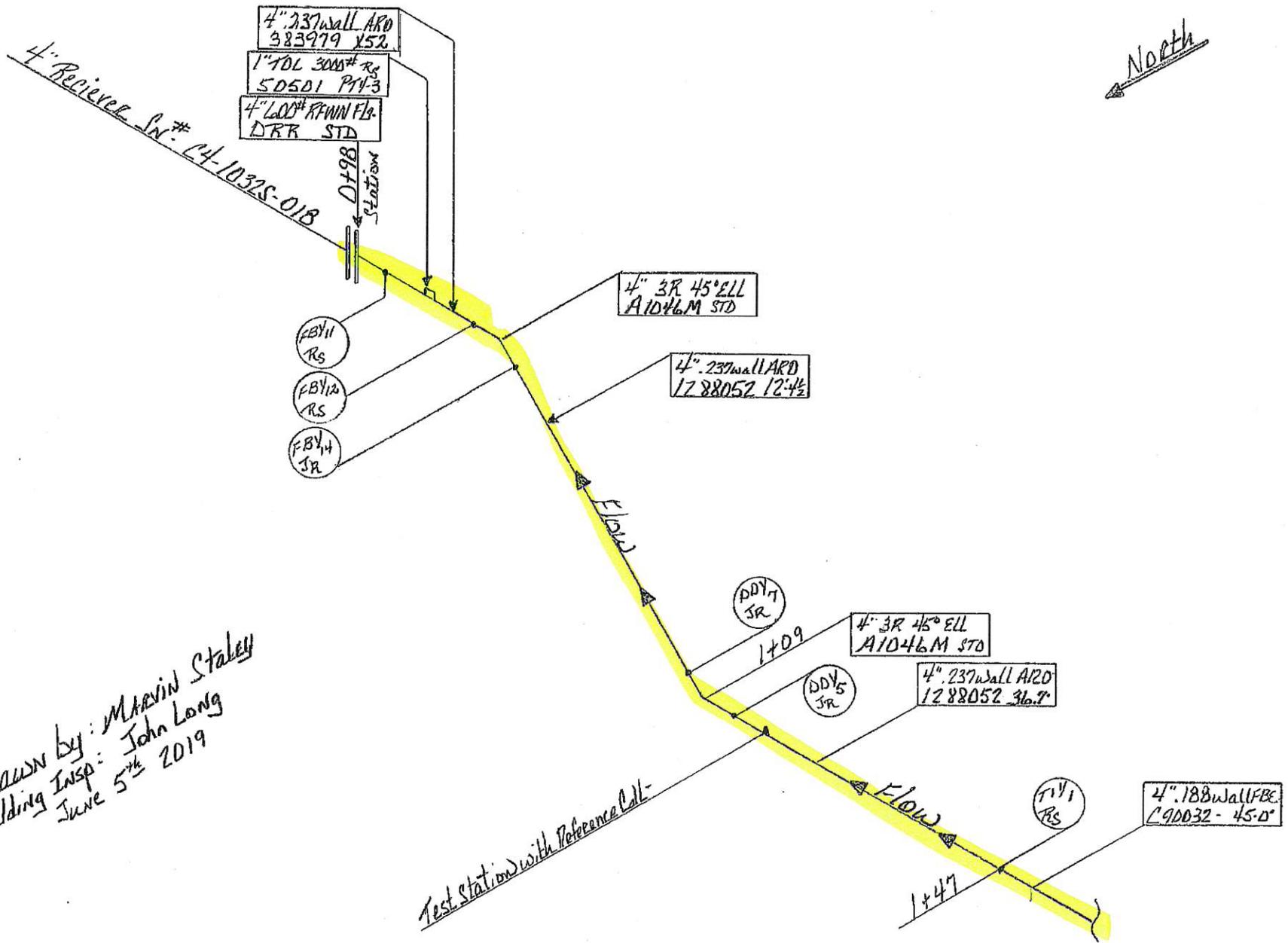
AFE 5000421



Drawn by: MARVIN STALEY
 Welding Insp: John Long
 June 5th 2019
 Black Diamond - L.I.C.



4" Dogleg for receiver - Thistle Downs 4" W.C. AFE. 5000421



Drawn by: Marvin Staley
Welding Insp: John Long
June 5th 2019

Whistle Downs Lact Unit fabrication - 4" Vertical Launcher
 Lact Unit on Site # 1500000036-D004-D1

