



FIELD HYDROSTATIC TEST REPORT (C-7.a)

Project DP 411 Mustang Phase II AFE/Work Order No. 5000308
 Pipeline 6" Produce Water Line (Name) DP 411 Pad (Location)
 Testing Contractor Northwinds (Name) 801-644-0931 (Contract No.)
19909 C.E. 39, LaSalle, CO 80645 (Address) 801-644-0931 (Phone No.)
 Construction Contractor Northwinds (Name) 801-644-0931 (Contract No.)
19909 C.E. 39, LaSalle, CO 80645 (Address) 801-644-0931 (Phone No.)
 Pipe O.D. 7.3" Wall thickness N/A Grade Hi Temp XL MFG'R: Flexsteel
 Test Fluid Water (Type) N/A (Source) 70° (Temperature)
 Additive N/A (Type) N/A (Quantity)
 Section Tested No. 0400 From: 0400 To: 1127 Volume: N/A
 Pump Location: 0400 Pump No. Gal./Stroke
 Deadweight Tester Location: 0400 MFG'R: S/N

Time	Pressure PSIG	Ambient Temp.
8:15	0	49
8:40	272	49
9:00	270	50
9:05	550	51
9:30	558	60
9:32	820	60
9:45	799	66
10:00	793	72
10:15	789	72
10:30	786	72
10:35	317	72

Time	Pressure PSIG	Ambient Temp.
10:55	814	76
11:05	812	76
11:20	811	80
11:35	810	82
11:45	818	82
12:00	817	86
12:15	816	86
12:30	816	88
12:45	814	90
12:50	1088	90
1:05	1090	90

Time	Pressure PSIG	Ambient Temp.
1:30	1082	90
1:25	1091	90
1:40	1086	92
1:45	1090	92
2:00	1091	92
2:15	1089	94
2:30	1088	94
2:30	1093	94
2:45	1092	94
3:00	1091	94
3:30	1089	94

Strokes per 10 PSIG: First 100 PSIG _____ Last 100 PSIG _____
 Test Started _____ AM/PM _____ (Time) _____ (Date) Test Ended _____ AM/PM _____ (Time) _____ (Date)

Section Accepted: _____ Section Leaking: _____ Section Ruptured: _____
 Location and Type of Failure: _____
 Remarks: _____

Weather: _____
 Testing Contractor's Representative Emmanuel Lopez (Name) Foreman (Title) E. Lopez (Signature) 6-22 (Date)

Constr. Contractor's Representative Emmanuel Lopez (Name) Foreman (Title) E. Lopez (Signature) 6-22 (Date)

Company Representative STEVE PARANTO (Name) INSPECTOR (Title) Steve Paranto (Signature) 6-22-19 (Date)

Construction Superintendent Daniel Meza (Name) Superintendent (Title) D. Meza (Signature) 6-22-19 (Date)

Project DP 411 Mustang Phase AFE/Work Order No. 5000208
 Pipeline 6" Produce water line (Name) DP 411 (Location) Pad
 Testing Contractor Northwinds (Name) 801-644-0931 (Contract No.)
19909 CR 39, La Salle, CO 80645 (Address) 801-644-0931 (Phone No.)
 Construction Contractor Northwinds (Name) 801-644-0931 (Contract No.)
19909 CR 39, La Salle, CO 80645 (Address) 801-644-0931 (Phone No.)
 Pipe O.D. 7.3" Wall thickness N/A Grade Hitemon MFG'R: Flexsteel
 Test Fluid water (Type) N/A (Source) 70° (Temperature)
 Additive N/A (Type) N/A (Quantity)
 Section Tested No. 0100 From: 0100 To: 11+27 Volume: N/A
 Pump Location: 0100 Pump No. N/A Gal./Stroke N/A
 Deadweight Tester Location: 0100 MFG'R: N/A S/N N/A

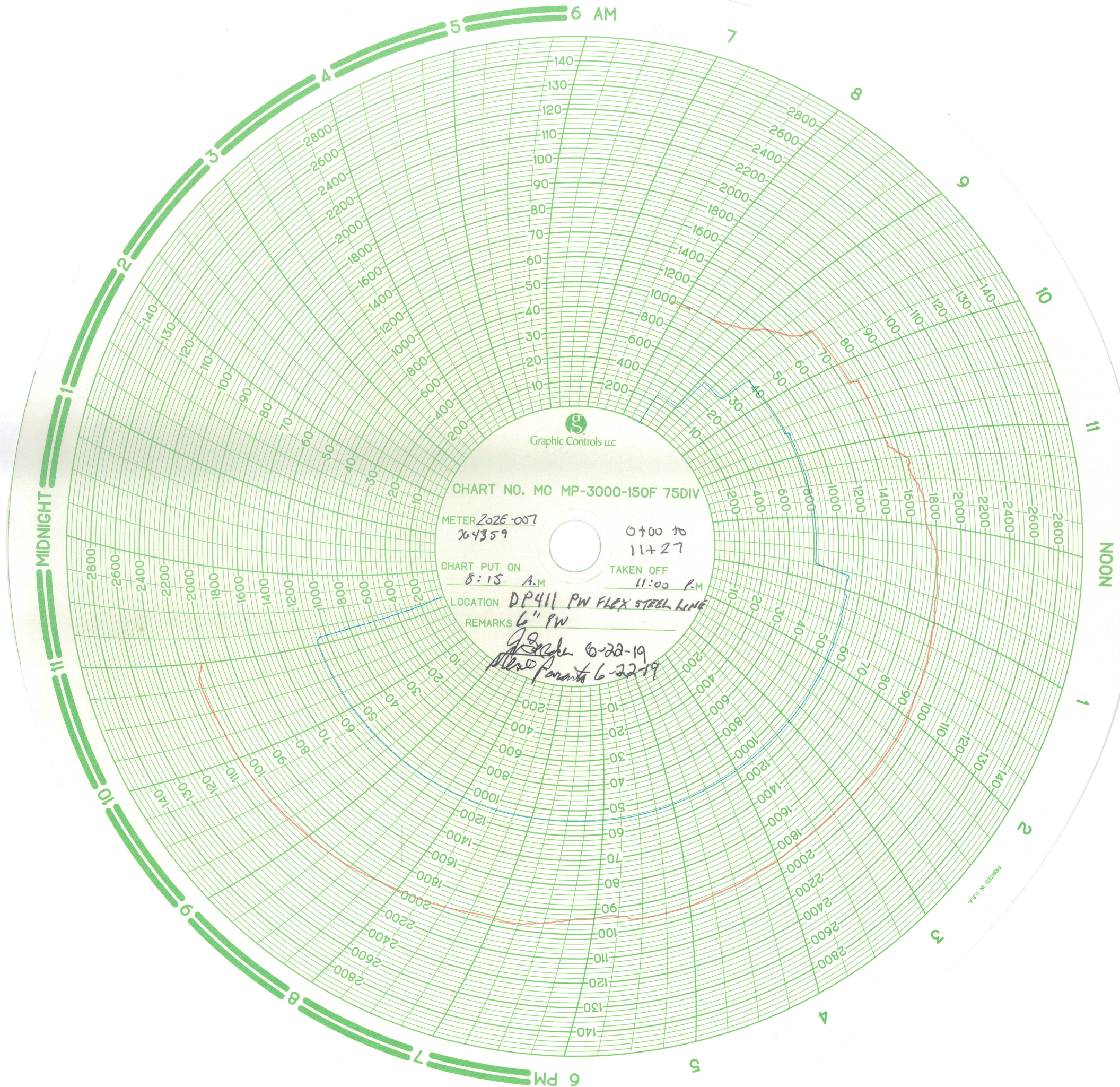
Time	Pressure PSIG	Ambient Temp.
4:00	1088	94
4:30	1087	94
5:00	1086	94
5:30	1086	94
6:00	1085	94
6:30	1084	94
7:00	1083	96
7:30	1082	96
8:00	1082	98
8:30	1082	98
9:00	1081	102

Time	Pressure PSIG	Ambient Temp.
9:30	1081	103
10:00	1081	105
10:30	1081	104
11:00	1081	104

Time	Pressure PSIG	Ambient Temp.

Strokes per 10 PSIG: First 100 PSIG _____ Last 100 PSIG _____
 Test Started _____ AM/PM _____ (Time) (Date) Test Ended _____ AM/PM _____ (Time) (Date)
 Section Accepted: _____ Section Leaking: _____ Section Ruptured: _____
 Location and Type of Failure: _____
 Remarks: _____

Weather: Sunny/Rainy
 Testing Contractor's Representative Emmanuel Zepeda (Name) Foreman (Title) [Signature] (Signature) 6-22 (Date)
 Constr. Contractor's Representative Emmanuel Zepeda (Name) Foreman (Title) [Signature] (Signature) 6/22/2019 (Date)
 Company Representative STEVE PARANTO (Name) INSPECTOR (Title) [Signature] (Signature) 6-22-19 (Date)
 Construction Superintendent Daniel Meza (Name) Superintendent (Title) [Signature] (Signature) 6-24-19 (Date)



C3

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: 202E-007

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



9829 E. Easter Ave. • Centennial, CO 80112
303.794.8833 • Fax 303.730.1220
Toll Free 1.800.327.7257
www.jmcinstruments.com

CR-2

CERTIFIED CALIBRATION

CUSTOMER Cross Country ORDER NO. _____

ITEM Digital Gauge RANGE 0-5000PSIG ITEM NO. 4895

TRUE VALUE	INDICATED VALUE	
	INCREASING READINGS	DECREASING READINGS
PSIG		
0.00	0	0
500.00	499.5	499.7
1000.00	999.1	999.4
1500.00	1498.8	1498.7
2000.00	1997.2	1998.0
2500.00	2497.2	2498.0
3000.00	2995.0	2997.6
3500.00	3494.0	3497.2
4000.00	3995.5	3995.8
4500.00	4490.0	4494.5
5000.00	4995.5	4995.5

Tested On: Deadweight Tester S/N# 1GA4474

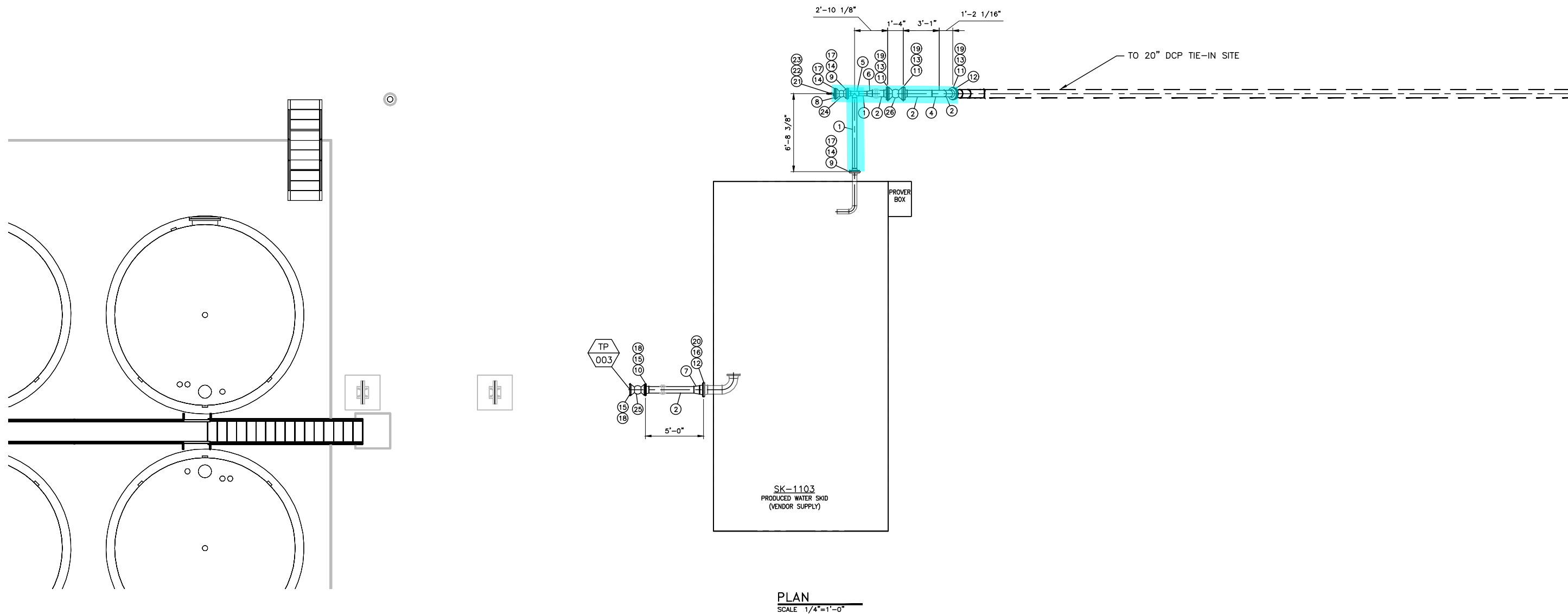
Traceable to National Institute of Standards and Technology certificate
17-043

Tested By: Brian McLain Date 20 February 2019

Remarks:

mfg	<u>Crystal</u>	<u>XP2i</u>	<u>SN 364359</u>	<u>ID# CR-2</u>
Accuracy is +/-		<u>1/4</u>	% of Full Scale or Better	
Test Conditions		<u>64 °F;</u>	mmHg Atm. Pressure	


[illegible]



PLAN
SCALE 1/4"=1'-0"

NOTES:

1. PROVER SUMP TO BE FIELD LOCATED BY CONSTRUCTION (4'-4" DIA.) PIPING FROM PROVER BOX TO SUMP TO BE FIELD ROUTED.
2. MINIMUM DEPTH 5' COVER.
3. FIELD VERIFY ALL DIMENSIONS. CONTRACTOR TO DETERMINE PIPE CENTERLINE ELEVATION BASED ON ADJACENT TIE-IN LOCATION.

REFERENCE DRAWINGS		REVISIONS										APPROVALS			<div><div>MUSTANG PHASE 2 IDP MUSTANG DP411 PRODUCED WATER PLOT PLAN</div></div>	
		△										SIGNATURE	DATE			
		△										DRAWN/DESIGNED	MDC	04/05/2019		
		△										CHECKED				
		△										APPROVED				
		△										CLIENT APPROVAL				
		△										SIGNATURE	DATE			
		△										OPERATIONS				
		△										ENGINEERING				
		△										PROJ. MGR.				
MP2-JAC-PI-PLN-1105	MUSTANG DP411 PW BILL OF MATERIAL	REV	ISSUED FOR CONSTRUCTION		SWS	04/16/2019	SH	04/16/2019	BE	04/16/2019						
DWG. NO.	DESCRIPTION	REV	DESCRIPTION		BY	DATE	CHK BY	CHK DATE	APR BY	APR DATE						

SCALE: AS NOTED

DRAWING: MP2-JAC-PI-PLN-1104

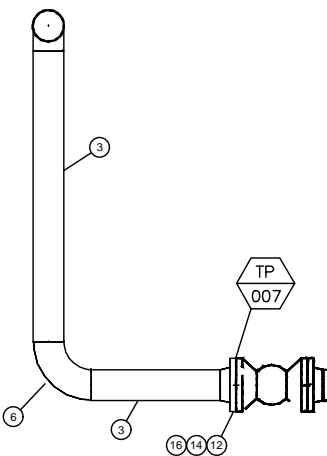
SHEET No. 1 of 1

△

PLOT STYLE:

LAST SAVED: 4/16/2019 BY: SSTANGL

FILE LOCATION: C:\ow_workdir\den003\ch2mhll_ssstano\d0430041\MP2-JAC-PI-PLN-1104.dwg



DETAIL 1
SCALE 1/2"=1'-0"

FILE LOCATION: C:\pw_workdir\den003\ch2mhill_sstangl\d0430041\MP2-JAC-PI-PLN-1108.dwg
LAST SAVED: 4/15/2019 BY: SSTANGL