

TEST SPECIFICATIONS						Date:		Select Routing:																									
Mountainview Pipeline Gathering System Hydrostatic Pressure Test						11-Aug-2017																											
4" Markham Crude Well Connect						Test Number: 1		of 1																									
Project Name: Markham Crude Line			Project I.D. / AFE Number 16W023A			Facility Name or Number 4" Markham Crude Line																											
Installation Location (M.P. or S.S.):		State:	County/Parish:	Class Location	2	Selected Design Pressure	1480	Planned MAOP	1400																								
172+00 to 262+95		CO	Weld	Designation																													
Project Description:																																	
Hydrostatic pressure test of the 4" well connect pipeline.																																	
Testing at 1.25*MAOP = 1850 minimum test pressure 2200 psig Target Test Pressure at Chart Location Max Test Pressure for ANSI 600 Valves and Fittings is 2660 psig where they are located.																																	
Test shall be compliant with all test specifications in Exhibit D "Pipeline Construction Specifications" and all other Construction Documents.																																	
LEAK ONLY TEST <input type="checkbox"/> STRENGTH TEST <input checked="" type="checkbox"/> FABRICATION <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> REPLACEMENT <input type="checkbox"/> RETEST <input type="checkbox"/> REFERENCE DRAWINGS ATTACHED <input type="checkbox"/>																																	
POST-INSTALLATION TEST <input checked="" type="checkbox"/> PRE-INSTALLATION TEST <input type="checkbox"/>																																	
Test Design Criteria					Test Section - Reference Data																												
Minimum Component Characteristics			Test Pressure Calculations																														
Pipe Information			<input type="checkbox"/> Input minimum and maximum pressure of test <input type="checkbox"/> Input minimum and maximum %SMYS of test			Test Medium: Water Test Duration: 8 Hours (min) Section Length: 9,095 Ft. Section Fill Volume: 6,311 Gal Max. Elevation Change: 48 Ft.																											
O.D. 4.5 Wall Thickness 0.188 SMYS 52,000			<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>2571</td> <td>59.2%</td> </tr> <tr> <td>Max. Test Pressure (Valves and Fittings)</td> <td>2660</td> <td>61.2%</td> </tr> <tr> <td>Min.</td> <td>1850</td> <td>42.6%</td> </tr> </tbody> </table>				Pressure (psig)	% PIPE SMYS	Max. Test Pressure (Pipe)	2571	59.2%	Max. Test Pressure (Valves and Fittings)	2660	61.2%	Min.	1850	42.6%	Station Equations: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>Back</td> <td>0+00</td> <td>0+00</td> <td>0+00</td> </tr> <tr> <td>Ahead</td> <td>0+00</td> <td>0+00</td> <td>0+00</td> </tr> </tbody> </table>					1	2	3	Back	0+00	0+00	0+00	Ahead	0+00	0+00	0+00
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Ahead	0+00	0+00	0+00																														
Valve/Flange ANSI Class Rating 600# Valves/Fittings																																	
Test Pressures																																	
Location	Station	Elevation (feet)	Max. psig.	% SMYS @ Max.	Min. psig.	% SMYS @ Min.	Variance psig.	Target psig.	% SMYS @ Target																								
BEGIN -	172+00	5084	2,550	58.7%	1,850	42.6%	700	2,200	50.6%																								
HIGH ELEVATION	172+00	5084	2,550	58.7%	1,850	42.6%	700	2,200	50.6%																								
LOW ELEVATION	262+75	5036	2,571	59.2%	1,871	43.1%	700	2,220	51.1%																								
END	262+95	5042	2,568	59.1%	1,868	43.0%	700	2,218	51.0%																								
Chart Location (Test Point)	172+00	5084	2,550	58.7%	1,850	42.6%	700	2,200	50.6%																								
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.																																	
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PRE-TEST SPECIFIED / REVIEWED BY:			TEST PERFORMED / ACCEPTED BY:			POST-TEST REVIEWED BY:																											
Originator (Signature)	Date:	Test Performed by (Signature):			Date:	Compliance (signature)		Date:																									
Designed Reviewed if applicable (Signature)	Date:	Company Name (for Contractor or for Employee):			Date:	Engineering or Operations (Signature)		Date:																									
Compliance (Signature)	Date:	Witnessed & Accepted by Company Representative:			Date:	Actual MAOP																											



April 2006

MOP Establishment and Pressure Testing of Pipelines
TG1601.190

PAGE 1 OF 9

LIQUID PIPELINE
PRESSURE TEST
REPORT

Pressure Test Number

9

MOP of tested facility is

1400

PSIG

8-31-17

Company:

Saddle Butte

Operations Area:

Project:

4" Markham Crude

AFE:

16W023A

Pipeline:

Section:

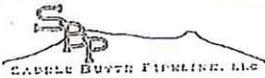
Station or Milepost

From:

172+00

To:

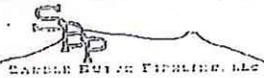
262+95



INSTRUCTIONS

In this worksheet, cells containing formulas are protected against input.
Cells with **BLUE** text labels allow or require input.

<i>General Information</i>	<ul style="list-style-type: none"> Complete this Report and attached necessary exhibits for all SBP installed pipelines or pipeline segments or those re-qualified for service. Fill in all applicable information. If information is not applicable, write NA in the corresponding space on the Report.
<i>Pipe Data</i>	<ul style="list-style-type: none"> Record the details for each pipe section tested, including lengths, line fill, pipe fittings, etc. Add together pipe section lengths and line fill for a total pipe section length and line fill.
<i>Test Water Data</i>	<ul style="list-style-type: none"> Enter water source information (i.e., from municipal supply, well, river, lake, pond) in the Test Log or notes section of the Report. Source water temperature compared to ground temperature can assist with understanding the time for the water to stabilize.
<i>Pressure Calculations</i>	<ul style="list-style-type: none"> Elevation of high and low points and the elevation of the test pressure measure sites is required for calculation of the target test pressures.
<i>Test Log</i>	<ul style="list-style-type: none"> Fill out the Test Log at the time of the test. This is the actual log of the test. From the start of filling the test section, record pressure readings from the calibrated test gauge or deadweight tester used in the test. Record the test pressure and temperatures at intervals of 30 minutes to an hour and as necessary to represent the test pressure during the test period. The below ground pipe temperature sensor should be placed away from exposed pipe and far enough from the water injection point so that water injected will not affect the readings. In the Remarks column, enter start of test, end of test, and any remarks concerning unusual events, such as liquid added or withdrawn, weather conditions, etc.
<i>Notes</i>	<ul style="list-style-type: none"> Enter all pertinent comments about the test, including such things as weather conditions, radical weather changes, equipment malfunctions, or any other noteworthy event that may affect testing.
<i>Profile</i>	<ul style="list-style-type: none"> An elevation profile is required for any test section where the elevation varies more than 100 feet. The following items should be noted on the profile: <ul style="list-style-type: none"> Location and elevation where test pressure measurements are taken High and low points Stationing or mileposts Horizontal and vertical scale of the drawing Elevation data is available in electronic format from the KPL mapping system. If electronic elevation data is not available, take profile elevations from survey information or from U.S. Geological Service 7 1/2 minute topographical maps.
<i>Failure Log</i>	<ul style="list-style-type: none"> Record each failure event that causes the line to be taken "off test". Enter the date, time, and pressure at the time of failure. List the apparent cause of the failure if the actual cause cannot be determined. Pipe seam failure or leaking flange, for example, could be entered as the cause of test failure. Describe the repair method (i.e., changed-out pipe or tightened flange).
<i>Supplementary Documentation</i>	<ul style="list-style-type: none"> Check each supplementary documentation attached as part of this test record (i.e., test charts and/or equipment certifications). Write the corresponding Exhibit Number on the attached supplementary documentation.
<i>Certification</i>	<ul style="list-style-type: none"> Signatures of the Company and Contractor representatives in charge of the test are MANDATORY.

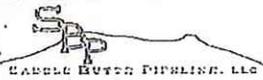


PRESSURE CALCULATIONS

Location of Test Point <u>Minch Well Pad</u>	Elevation of Test Point <u>5084</u> Ft. (Elevation) <u>172400</u> Ft. (Station)	High Point <u>5084</u> Ft. (Elevation) <u>172400</u> Ft. (Station) Location Name	Low Point <u>5036</u> Ft. (Elevation) <u>26275</u> Ft. (Station) Location Name
Target MOP: <u>1400</u>	Test Duration: <u>8</u> hr	Start Point <u>5084</u> Ft. (Elevation) <u>172400</u> Ft. (Station) Location Name	End Point <u>3042</u> Ft. (Elevation) <u>26275</u> Ft. (Station) Location Name
Target Test Pressure Range 1st Min: <u>1850</u> Maximum: <u>2571</u> 2nd Min:	High Point Low Point		

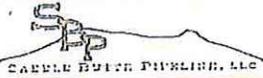
TEST LOG

DATE	TIME	PRESSURE	AMBIENT TEMP	BELOW GROUND TEMP	ABOVE GROUND TEMP	REMARKS
8-31-17	6:00am	0	57	78	58	
	6:15	0	57	78	58	Build to 500
	6:15	499	57	78	58	
	6:20	499	58	78	59	Build to 1000
	6:45	998	59	78	60	
	7:00	998	60	78	60	Build to 1500
	7:08	1500	60	78	61	
	7:23	1500	61	78	61	Build to 2000
	7:30	2000	61	78	62	
	7:45	2000	62	78	63	Build to 2200 +
	7:50	2216	62	78	63	
*	8:00	2216	63	78	63	*Begin TEST*
	8:15	2216	63	78	63	Check for leaks and check
	8:30	2216	64	78	64	1" Valves
	8:45	2216	65	78	64	Partly Sunny
	9:00	2216	65	78	64	
	9:15	2216	65	77	65	
	9:30	2217	65	77	66	Mostly Cloudy
	9:45	2217	66	77	67	
	10:00	2217	66	76	68	
	10:15	2218	67	76	70	
	10:30	2218	69	75	72	
	10:45	2218	71	75	73	Mostly Sunny
	11:00	2219	73	74	75	
	11:15	2219	75	74	76	
	11:30	2220	76	74	78	
	11:45	2220	77	73	81	Mostly Cloudy
	12:00	2221	77	72	84	
	12:15	2221	76	72	86	
	12:30	2222	76	72	87	Check for leaks and check 1"
	12:45	2222	76	72	88	Valves
	1:00	2223	77	71	89	Mostly Sunny
	1:15	2223	77	71	90	
	1:30	2224	78	71	91	
	1:45	2224	78	71	92	
	2:00	2224	76	71	93	Check for leaks
	2:15	2225	78	70	95	
	2:30	2225	78	70	97	
	2:45	2226	78	70	100	



TEST LOG (CONTINUED)

DATE	TIME	PRESSURE	AMBIENT TEMP	BELOW GROUND TEMP	ABOVE GROUND TEMP	REMARKS
6-31-17	3:00 PM	2226	78	69	101	Mostly Sunny
	3:15	2226	77	69	102	
	3:30	2226	77	70	101	
	3:45	2227	78	71	99	check for leaks / 1" Valves
*	4:00	2227	78	72	99	*END TEST* Bumped chart
	4:15	2227	78	72	97	box looking at it
	4:16	2000	78	72	97	Bleed to 2000
	4:30	2001	76	72	93	Bleed to 1500
	4:32	1500	74	72	93	
	4:45	1501	75	72	90	Bleed to 1000
	4:47	1005	75	72	90	
	5:00	1006	75	72	86	Bleed to 500
	5:03	501	75	72	86	
	5:15	501	75	72	81	Bleed to 0
	5:18	0	75	72	81	
	5:30	0	75	72	78	



EQUIPMENT CALCULATED MOP SUMMARY WORKSHEET

1. Test Information:

Target MOP 1400
Enter the desired MOP,
If less than pipe
internal design
pressure.

Date 8-31-17 Time 6:00 AM
Test Point Location Minch Well Pad
Test Medium Water Test Duration 8 hr
Specific Gravity of Test Medium _____
Min. Test Press. at test site 125% of min. MOP + elev. 1850 110%
Maximum allowable % of SMYS = 100%

2. Pipe Specifications:

Manufacture Type _____

Pipe (#1) O.D. 4.5"
Grade X-52 SMYS 52000
Wall thickness .188
Length (ft.): 9095

MOP 1400
Seam Joint Factor _____
Design Factor (F) _____
Volume 6311 gal
Max allowable test pressure, psig 2571

3. Pipe Specifications:

Manufacture Type _____

Pipe (#2) O.D. _____
Grade _____ SMYS _____
Wall thickness _____
Length (ft.): _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____
Volume _____
Max allowable test pressure, psig _____

4. Pipe Specifications:

Manufacture Type _____

Pipe (#3) O.D. _____
Grade _____ SMYS _____
Wall thickness _____
Length (ft.): _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____
Volume _____
Max allowable test pressure, psig _____

5. Pipe Specifications:

Manufacture Type _____

Pipe (#4) O.D. _____
Grade _____ SMYS _____
Wall thickness _____
Length (ft.): _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____
Volume _____
Max allowable test pressure, psig _____

6. Pipe Specifications:

Manufacture Type _____

Pipe (#5) O.D. _____
Grade _____ SMYS _____
Wall thickness _____
Length (ft.): _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____
Volume _____
Max allowable test pressure, psig _____

7. Pipe Specifications:

Manufacture Type _____

Pipe (#6) O.D. _____
Grade _____ SMYS _____
Wall thickness _____
Length (ft.): _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____
Volume _____
Max allowable test pressure, psig _____

8. Pipe Fittings Specifications:

Manufacture Type _____
Fitting Description _____

Pipe Fitting O.D. _____
Grade _____ SMYS _____
Wall thickness _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____

Max allowable test pressure, psig _____

9. Pipe Fittings Specifications:

Manufacture Type _____
Fitting Description _____

Pipe Fitting O.D. _____
Grade _____ SMYS _____
Wall thickness _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____

Max allowable test pressure, psig _____

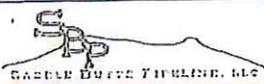
10. Pipe Fittings Specifications:

Manufacture Type _____
Fitting Description _____

Pipe Fitting O.D. _____
Grade _____ SMYS _____
Wall thickness _____

MOP _____
Seam Joint Factor _____
Design Factor (F) _____

Max allowable test pressure, psig _____



EQUIPMENT CALCULATED MOP SUMMARY WORKSHEET
(continued)

11. Manufactured: _____ Weldolet, etc. O.D. _____ Working Pressure _____
Manufacture Type _____ Grade _____
Fitting Description _____
Max allowable test pressure, psig _____

12. Manufactured: _____ Pipe Flanges O.D. _____ Working Pressure _____
Manufacture Type _____ Class _____
Temperature Derating Factor (T) _____
Max allowable test pressure, psig _____

13. Manufactured: _____ Pipe Flanges O.D. _____ Working Pressure _____
Manufacture Type _____ Class _____
Temperature Derating Factor (T) _____
Max allowable test pressure, psig _____

14. Manufactured: _____ Block Valve Size _____ Working Pressure _____
Manufacture Type _____ Class _____
Temperature Derating Factor (T) _____
Max allowable test pressure, psig _____

15. Calculated MOPs (psi):
Test Pressure Range @Test Site, psig _____ 125% to psig _____ 110% to psig _____
Note: Add psi to min. test range
Maximum test pressure at test site, psig _____

CALCULATED TARGET MOP OF PIPELINE SECTION _____ PSIG



FAILURE LOG

FAILURE:
Date: _____ Time: _____ am / pm Failure Pressure: _____
Apparent Cause: _____
REPAIR:
Describe Repair Method: _____

FAILURE:
Date: _____ Time: _____ am / pm Failure Pressure: _____
Apparent Cause: _____
REPAIR:
Describe Repair Method: _____

FAILURE:
Date: _____ Time: _____ am / pm Failure Pressure: _____
Apparent Cause: _____
REPAIR:
Describe Repair Method: _____

FAILURE:
Date: _____ Time: _____ am / pm Failure Pressure: _____
Apparent Cause: _____
REPAIR:
Describe Repair Method: _____

FAILURE:
Date: _____ Time: _____ am / pm Failure Pressure: _____
Apparent Cause: _____
REPAIR:
Describe Repair Method: _____



SUPPLEMENTARY DOCUMENTATION

The following marked exhibits are attached as a part of this Test Report:

- EXHIBIT NO. 1 Sketch of Tested Piping (including how section is isolated), with material list
- EXHIBIT NO. 2 Profile of pipeline section and/or segment
- EXHIBIT NO. 3 Pressure Chart, with pressure test number, date, test section name, Inspector name and signature
- EXHIBIT NO. 4 Temperature Chart, with pressure test number, date, test section name, Inspector name and signature
- EXHIBIT NO. 5 Pressure Recorder Certification Papers
- EXHIBIT NO. 6 Temperature Recorder Certification Papers
- EXHIBIT NO. 7 Deadweight or Calibrated Test Gauge Certification Papers
- EXHIBIT NO. 8 Field test data log, if hand written
- EXHIBIT NO. 9 Pressure Test Procedure, if applicable, with MOP Area Representative and Engineer signature approval

CERTIFICATION

I certify this pipeline or pipeline section has been tested and successfully met the terms of SBP MOP Establishment and Pressure Testing of Pipelines Technical Guideline and, where applicable, the contract document between SBP and its prime contractor.

MOP Area Representative

By: _____ Date: _____
(Please print) (Signature)

Engineer

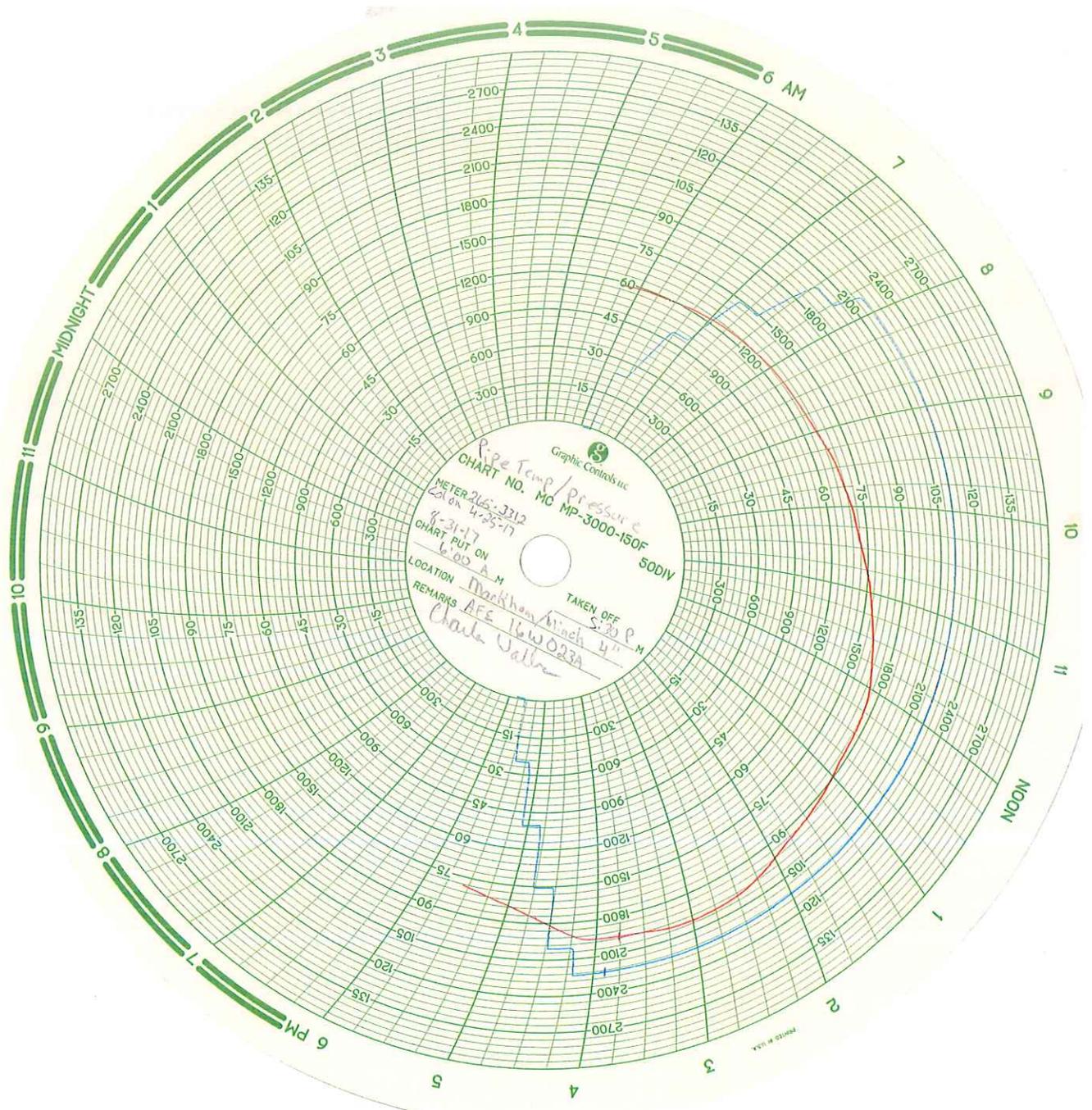
By: _____ Date: _____
(Please print) (Signature)

Inspector

By: Charles Wallace Charles Wade Date: 8-31-17
(Please print) (Signature)

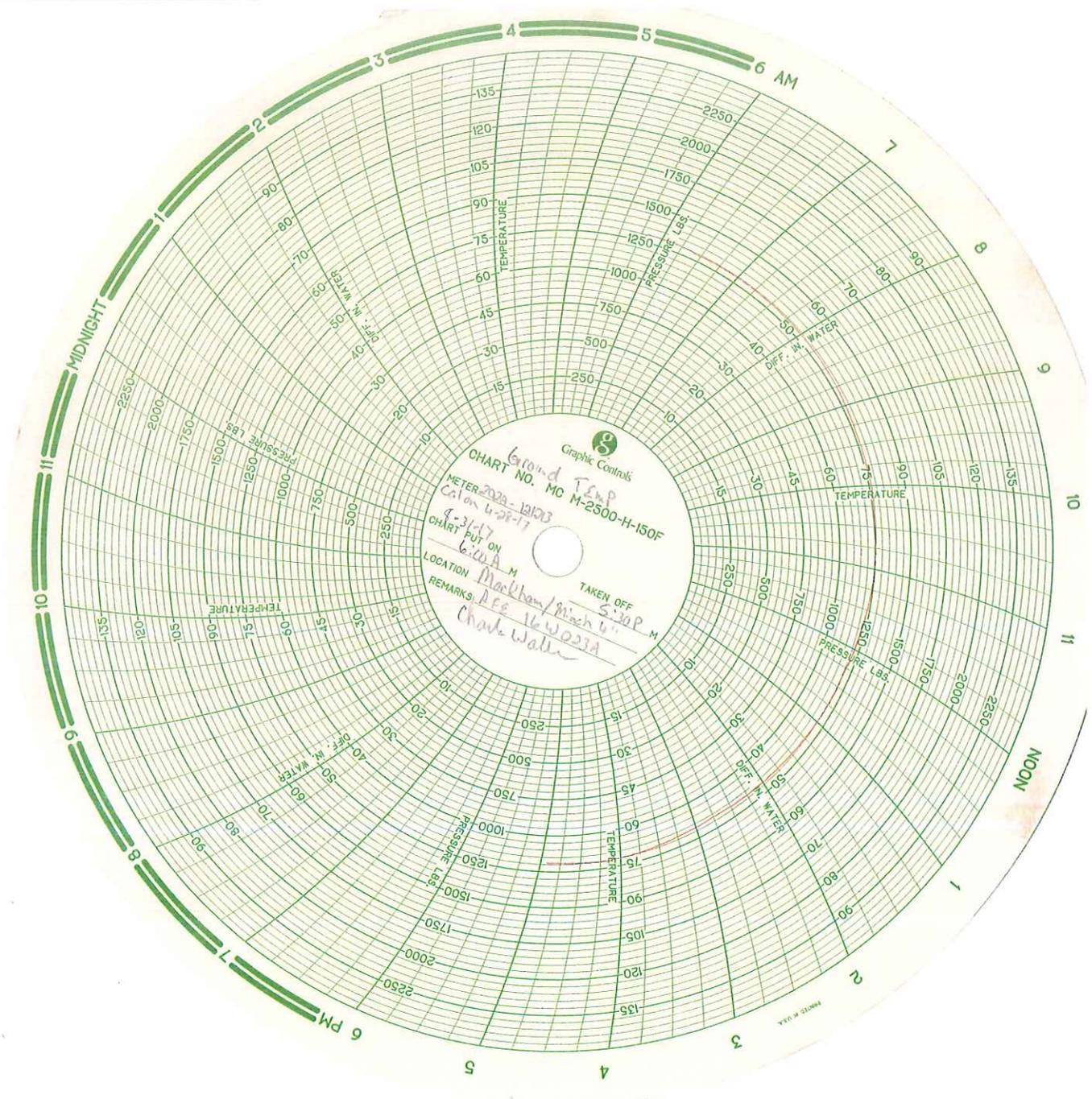
Name of Testing Contractor

North Wind of Wyoming
By: Dwayne Kay Dwayne Kay Date: 8-31-17
(Please print) (Signature)



Graphic Controls, Inc.
 Pipe Temp/Pressure
 METER NO. MC MP-3000-150F
 216-3312
 8-31-17
 CHART PUT ON 6:00 A.M.
 LOCATION Manhattan/Minch 4"
 REMARKS AFE 164023A
 Charles Walker
 TAKEN OFF 5:30 P.M.

PRINTED IN U.S.A.



Graphic Controls
 CHART NO. Grand Temp
 METER NO. 2022-13103
 Cal on 4-28-17
 CHART PUT ON 8-31-17
 LOCATION 6100A M
 TAKEN OFF 5:30 P. M
 REMARKS: Markham/Minch 4"
Chad Walker

MADE IN U.S.A.

C-2

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: 04/28/2017
DUE DATE: 04/28/2018

INDICATED TEMPERATURE RANGE: # 0 – 150°F
INDICATED PRESSURE RANGE: #0 – 2500 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.).

TYPE OF STANDARD USED TO CALIBRATE: REFINERY DEADWEIGHT TEST UNIT SPT. (35225-3) SERIAL No. 5268; KESSLER TEST THERMOMETERS; SERIAL NO. CALIBRATION DATE: JANUARY 30, 2017

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

C-6



2210 4th Avenue West
Williston, North Dakota 58801
1/800-932-8803

Certificate of Calibration

Barton Recorder

Customer:	Northwinds	Calibration Date:	04/25/17
Serial #	265-3312	Calibration Due Date:	04/25/18
Range:	0 -3000# x 150F	Model #	Barton

Equipment Used:	Weber Dead Weight Tester SN: 0017		
D.W.T Calibration Date:	07/07/16	D.W.T Calibration Due Date:	07/07/17
Equipment Used:	Jofra CTC-155 C Temperature Calibrator SN: 644846-00016		
CTC-155 C Cal Date:	06/17/16	CTC-155 C Cal Due Date:	06/17/17

0 -3000#				3000	0-150F			
D.W.T	Chart	Allowed	Left As	150	Cert Gauge	Chart	Allowed	Left As
0	0	15	0		0	1	3	1
200	200	15	0		50	49.5	3	-0.5
800	800	15	0		100	100.5	3	0.5
1600	1610	15	10		150	150	3	0
2200	2210	15	10					
3000	3010	15	10					

Calibration was performed at the address above.

Stated Accuracy of Pressure: +/- .5% of Full Scale
 Stated Accuracy of Temperature: +/- 2% of Full Scale
 Adjustments Made:
 Repairs Needed:

Calibration By: John Forthun Date: 04/25/17

We appreciate your business.

Double EE Service is not responsible for the transportation of this unit or any damages that may happen in this process.
 Double EE Service is not responsible for the installation of this unit or any damages that may happen in this process.

CR-1



Calibration Certificate

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

Certificate Number: 172224

Customer:

Pipeline Supply & Service
Henderson, CO

Manufacturer: Crystal Engineering
Model Number: XP2i 5000 psi
Serial Number: 352036
Description: Digital Test Gauge
Procedure: CRY_P_XP2i
Calibrated To: Manufacturer's Specifications
Technician: Austin Molyneux

Calibration Date: 7/27/2017
Due Date: 7/27/2018
As Found: In Tolerance
As Left: As Found
Temperature: 72 F
Humidity: 30 %

Tolerance Specs:

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

Technician Notes:

As Left Userspan: 1.00017

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.

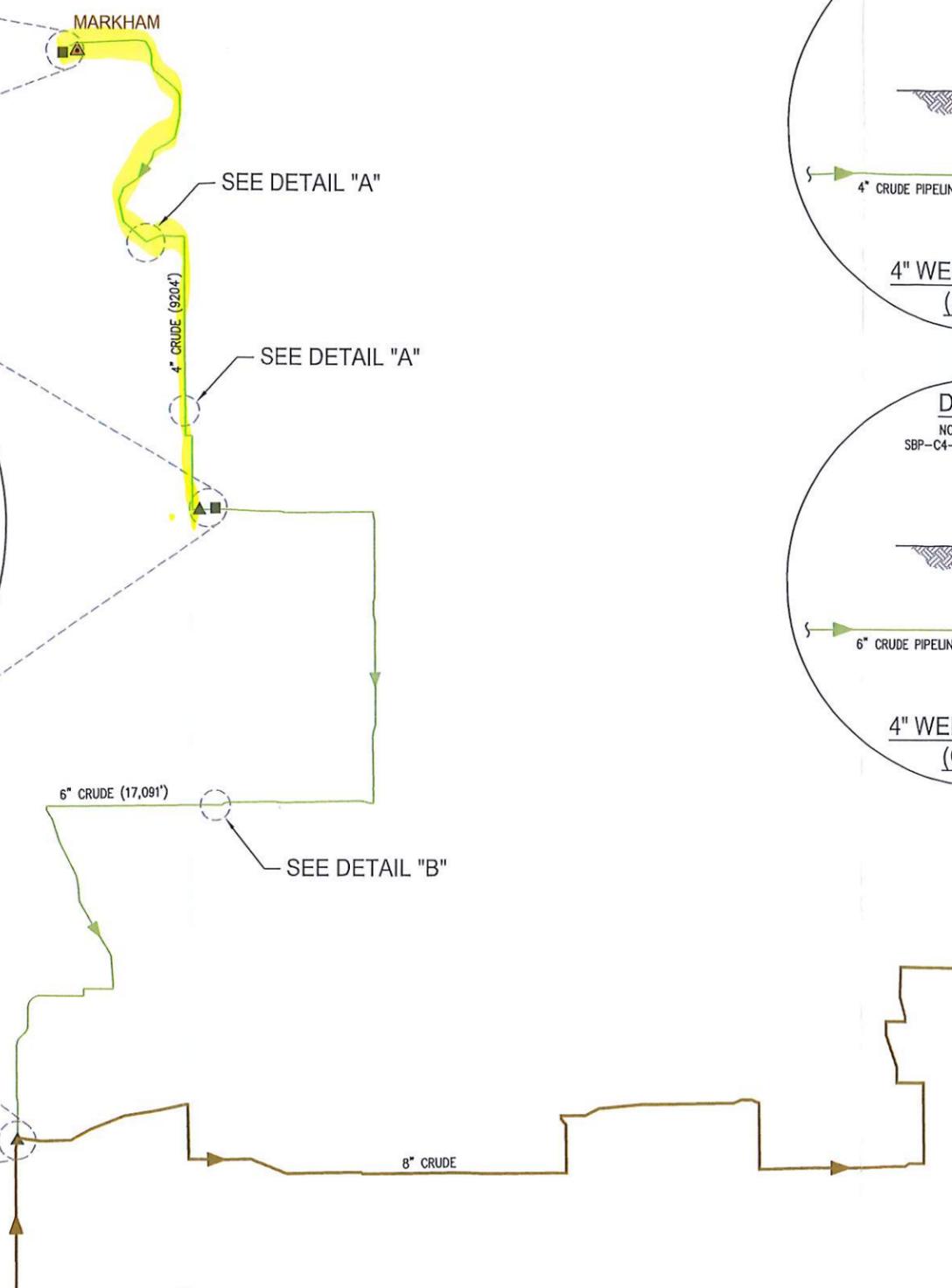
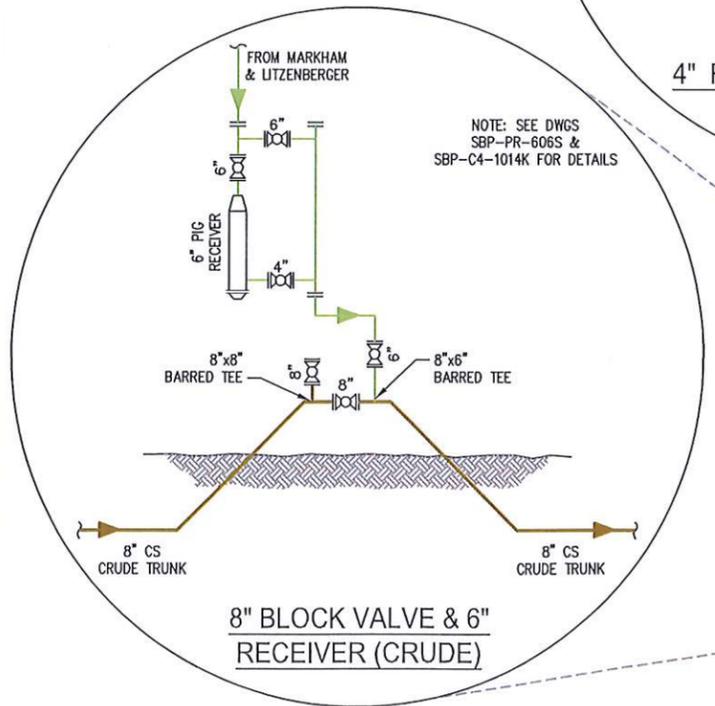
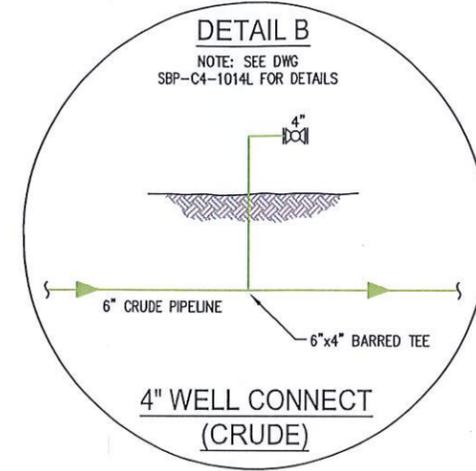
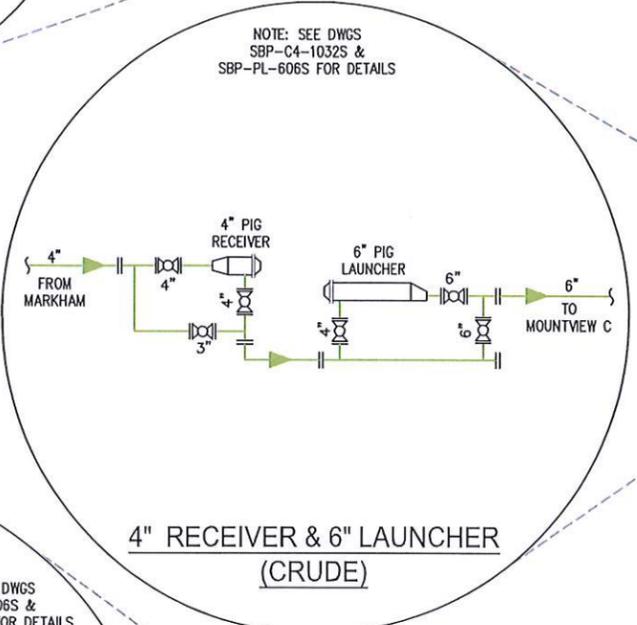
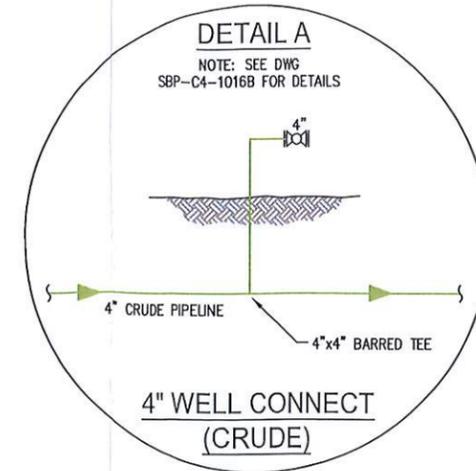
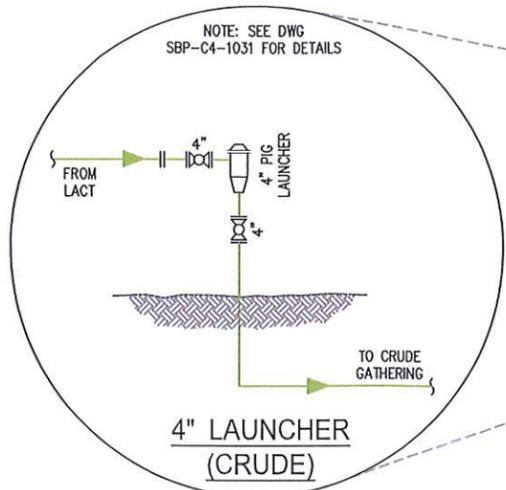
This certificate does not guarantee the continued performance of the instrument listed above. Any modifications or services performed hereafter may void this certificate.

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

Standards Used

Description	Model Number	Serial Number	Calibration Date	Due Date	ID
Electronic Deadweight Tester	RPM4-E-DWT A100M/A10M	1709	11/2/2016	11/2/2017	APX00024





WELD COUNTY, COLORADO

SCALE: 1" = 1000'

LEGEND

- SBP CRUDE TRUNK PIPELINE
- SBP CRUDE GATHERING 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, DIGGING, 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 SADDLE BUTTE PIPELINE II, LLC.

REFERENCE DRAWINGS		REVISIONS				DRAWN BY:	DATE:	PREPARED FOR:			
						THM	07/28/17				
						CHEKED BY:					
						DLW	07/28/17				
						REVIEWED BY:					
						DLW	07/28/17				
						APPROVED BY:		FLOW SCHEMATIC MARKHAM CRUDE PIPELINE WELD COUNTY, COLORADO			
						AS-BUILT	09/25/17			THM	JLU
						ISSUED FOR CONSTRUCTION	08/07/17	THM	JSC	JSC	
DWG. NO.	TITLE	NO.	DESCRIPTION	DATE	BY	CHK	APPR	SCALE:	PROJECT NUMBER	DRAWING NUMBER	REV.
								SCALE: 1" = 1000'	MV-PL-MAP-0038	1	1

Aug 25, 2017 8:01am by tmlenny - Path = S:\Durango\client info\SBP (Schematic)\DWG\WV-PL-MAP-0038.dwg