



Colorado Oil & Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, CO 80203

**Subject: KP Kauffman – Pete Montoya Pipeline Repair Pressure Test**

Dear COGCC:

Campos EPC (CEPC) witnessed the post repair pressure test of the Pete Montoya pipeline near Dacono, CO, owned by KP Kauffman on October 21, 2022. The pipe repairs consisted of stringing HDPE inside the existing 12” steel pipe approximately 600 feet in either direction from the location of the previous failure in both directions. The pressure test was performed on a one-mile section of pipeline which included the 1200 ft repaired section.

The post repair pressure test was performed for a 1-hour duration. The 1-hour duration requirement was based on verbal instructions received from Mark Schlagenhauf and Joe MacLaren with COGCC on October 21, 2022.

Section 1104.h.1.A of the Flowline Regulations (1100 Series) states that an *“initial pressure test must be conducted for a minimum of four hours or in compliance with the manufacturer’s specifications and in accordance with one of the following standards.”* Section 1104.h.1.A.vii is applicable for PE piping and requires the test to be in accordance with ASTM F2164-13 or the *“manufacturer’s specifications and must test the line to at least maximum anticipated operating pressure.”* ASTM F2164 and HDPE manufacturer data both specify a 1-hour pressure test as acceptable.

The hydrostatic pressure test was performed following the steps outlined below.

1. Install chart recorder to the test segment.
2. For line repair and return to service, line is purged of air.
3. Segment is isolated and energized using energy source (water), bringing pressure up to max pressure required for pressure test.
4. Pressure test is recorded and held for a minimum of 1 hour.
5. Once pressure test is complete, draw down test is to be conducted and recorded by slowly opening the isolation valve furthest from chart recorder to ensure communication with the test segment.

A successful hydrostatic pressure test was performed at 25 psig per the chart recorder the morning of October 21, 2022. The recommended Design Pressure of the pipeline is 20 psig and the pressure test was performed at 1.25 times the Design Pressure. The total length of pipe tested was approximately 1200 ft.

The chart recorder data and Pressure Test Log are attached for reference.

Sincerely,

A handwritten signature in blue ink, appearing to read "John Kelly".

John Kelly, PE

Attachment:

- Pressure test photographs
- Pressure Test Record
- Test section and chart recorder map
- Chart recorder paper



Minimum Test Pressure: \_\_\_\_\_ psig

As Determined By: \_\_\_\_\_ 1.5 x design \_\_\_\_\_ Line Pressure + 50 psig  
 \_\_\_\_\_ 1.25 x design \_\_\_\_\_ %SMYS = \_\_\_\_\_  
 \_\_\_\_\_ System MAOP \_\_\_\_\_ System Operating Pressure  
 \_\_\_\_\_ Other - Describe: \_\_\_\_\_

this section only applies for tests completed using water as the medium

Pressure Correction:	Station	High	Low
High elevation of pipe			
Elevation of gauge			
Low elevation of pipe			
Difference in elevation		0	0
Pressure Correction (Difference in elevation x 0.433 psi/ft)		0	0

Allowable Gauge Pressure:

Minimum test pressure (from above)	0	A
High pressure correction (from above)	0	B
Minimum allowable gauge pressure	0	C

C = A + B : min test pressure at high point plus elevation pressure correction is the min allowable gauge pressure to maintain minimum test pressure at high point

Maximum test pressure (from above)	0	D
Low pressure correction (from above)	0	E
Maximum allowable gauge pressure	0	F

F = D - E : max test pressure at low point minus elevation pressure correction is the max allowable gauge pressure to not exceed max pressure at low point

pressure test design completed by: \_\_\_\_\_ date: \_\_\_\_\_

Pressure test design field review completed by: \_\_\_\_\_ date: \_\_\_\_\_

**Attach elevation analysis, pipe and fitting specifications to completed form, as necessary.**



**Pressure Test Log**

Company : KPK Report No: \_\_\_\_\_

Facility Name: Pete Montoya Line Job Order: \_\_\_\_\_

Line No: \_\_\_\_\_

Project Description: Pipe Repair Post Leak

From Station No: _____	To Station No: _____	Pipe Length	1200'
		Pipe Size	12"
Deadweight or recording gauge Serial No: _____	Calibration date: _____	Pipe Material	PE in Steel
Pipe Temperature Recorder Serial No: _____	Calibration date: _____	Test Duration	1hr 39 min
Ambient Temperature Recorder Serial No: _____	Calibration date: _____	Test Pressure	25 psi

Time	Pressure	Ambient Temp (Deg F)	Pipe Temp (Deg F)	Water Volume Added	Water Volume Removed	Stroke Count	Remarks
9:30 AM	25.5	60	75				Pre-Test Conditions
9:36 AM	25	60	75				Test Start
9:46 AM	25	60	75				
9:56 AM	25	60	75				
10:06 AM	25	58	75				
10:16 AM	25.5	62	75				
10:26 AM	25.5	62	75				
10:36 AM	25.5	62	75				
10:46 AM	25.5	62	75				
10:56 AM	25.5	62	75				
11:06 AM	25.5	62	75				
11:12 AM	25.5	65	75				
11:15 AM	25.5	68	75				Test End
11:30 AM	11 psi	71	75				De-Pressuring Final Pressure

Completed by: KRISTA C. WARREN

Signature: *Krista C. Warren*

Date: 10/21/2022







**BARTON**

SER NO.	202E-337336	S.W.P.	2500
D.P. RANGE	100"	STATIC PR. RANGE	50#
RANGE SPRING MATERIAL		STATIC TUBE MATERIAL	
CLOCK ROT'N		VOLTS	CYCLES
CHART NO.			
BELLOWS MATERIAL	316SS	BELLOWS FILL LIQUID	M
FLOW RANGE		METER FACTOR	

**CAUTION**  
SEE I/O MANUAL FOR WARRANTY REQUIREMENT

**ITT BARTON**  
CITY OF INDUSTRY, CA. U.S.A.

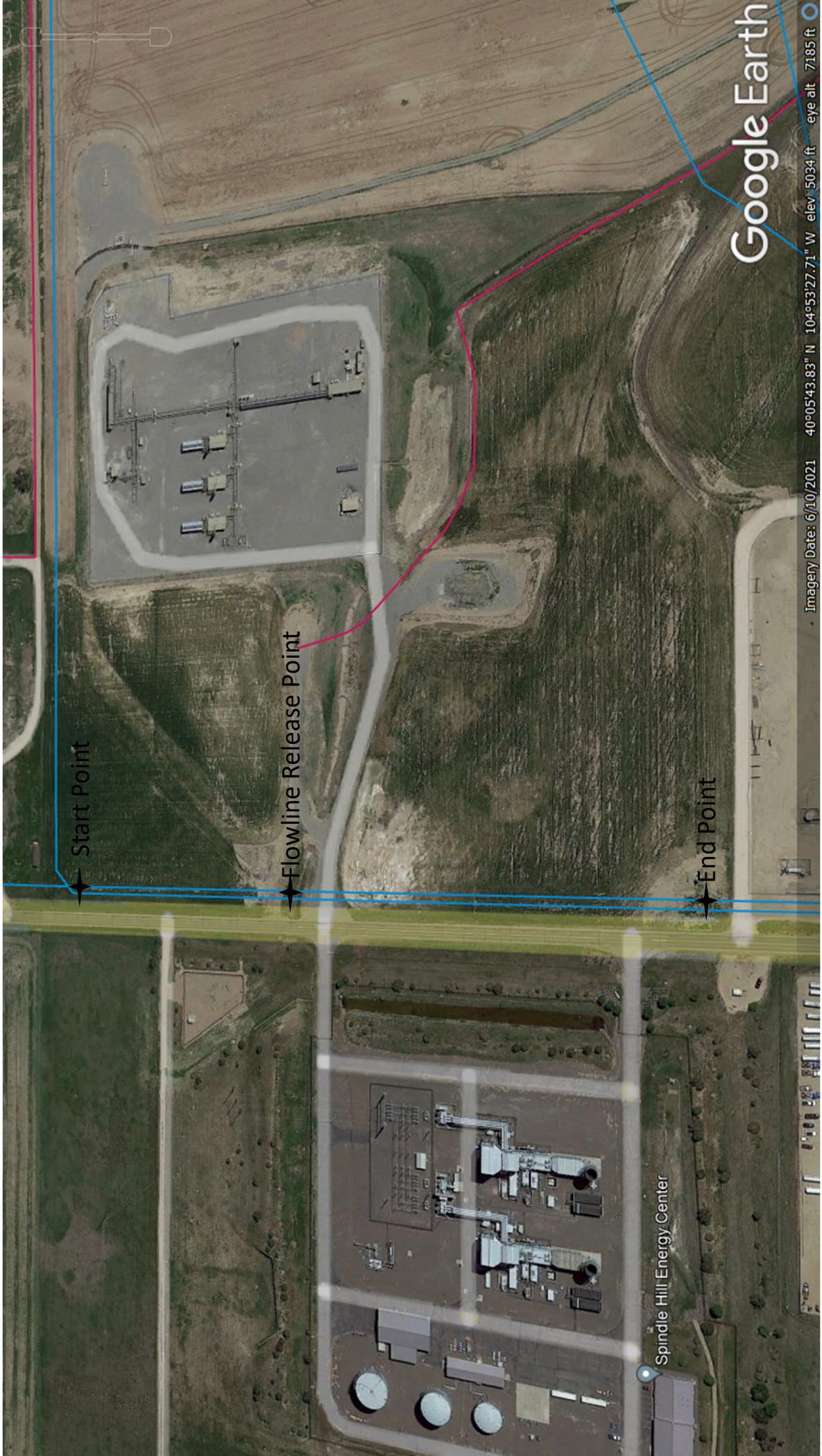


Chart recorder

19

19

Pete Montoya



Start Point

Flowline Release Point

End Point

Spindle Hill Energy Center

Google Earth

Imagery Date: 6/10/2021 40°05'43.83" N 104°53'27.71" W elev 5034 ft eye alt 7185 ft

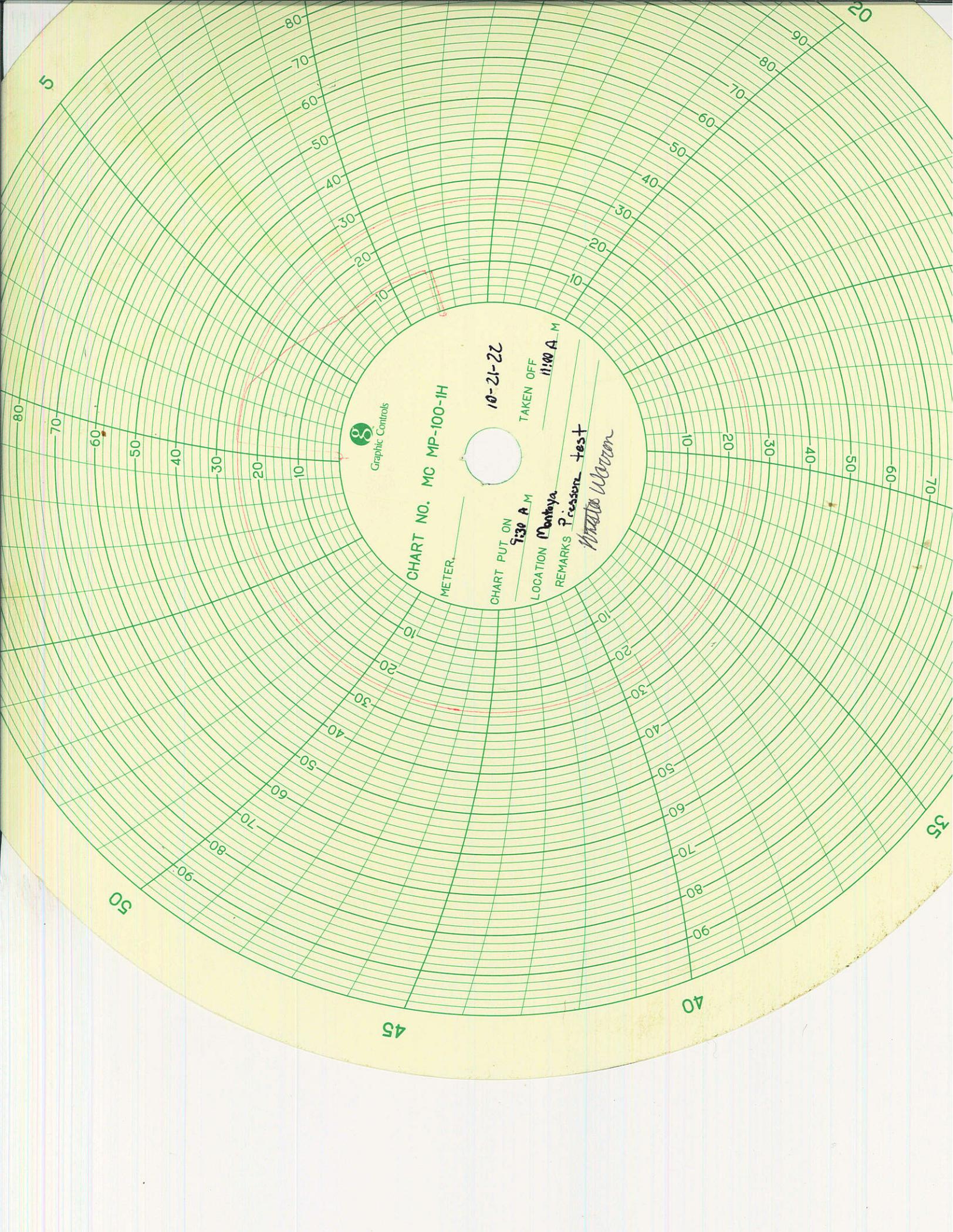


CHART NO. MC MP-100-1H  
METER \_\_\_\_\_

10-21-22

CHART PUT ON 7:30 A M  
TAKEN OFF 11:00 A M

LOCATION *Montoya*

REMARKS *Pressure test*  
*Archie Warren*