

**RECEIVED**

JUL 26 2007



**ConocoPhillips  
Pipe Line Company**

**Keith H. Wooten**  
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July 23, 2007

SENT TO COMPLIANCE REGISTRY

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Mr. Chris Hoidal, Director  
Western Region, Office of Pipeline Safety  
Suite 110  
12300 West Dakota Avenue  
Lakewood, CO 80228

Re: CPF No. **5-2004-5036H- Update**

Dear Mr. Hoidal:

Your office recently requested an update to one of the recommendations submitted by ConocoPhillips Pipe Line (CPPL) on 10-4-2006:

- Implement high suction pressure controls (instrumentation) at each pump station from La Junta to Denver. Controls would prevent startup or initiate shutdown of the pump units if suction pressure reached 940 psig (50% SMYS).

Item has been completed, see attached pipeline operation data sheets for your reference.

In regards to the following recommendation, CPPL is awaiting your decision and response:

- Allow CPPL to raise MOP set point from 80% of the pre-2004 failure MOP to 85%. Using high speed pressure monitoring instruments, CPPL continuously monitor and evaluate pressure data for 60 days after the change in MOP. If the data indicates that surge pressures are exceeding 110% of the new MOP set point, MOP will be reduce back to the post-failure 80% set point. In either case data and results will reported to your office at the end of the 60 day trial.

For your convenience I have enclosed Table 2 from our last correspondence which provided the results of the high speed pressures recorded in 2006 will operating at the current 80% of original MOP set point.

You can contact me if you have any questions.

TABLE 2

**La Junta TP-1 Pressure Transient Data Review**

**80% reduced MOP:** 1060 (Current control set point)  
**Shutdown:** 1095

<b>Date</b>	<b>Time</b>	<b>Max Pressure Reached</b>	<b>% of 80% reduced MOP</b>
5/2/2006	12:15	1118	105%
5/11/2006	10:28	1095	103%
5/16/2006	1:38	1113	105%
5/16/2006	8:10	1121	106%
5/26/2006	16:15	1075	101%
6/13/2006	10:45	1097	103%
6/13/2006	11:30	1110	105%
6/13/2006	15:26	1095	103%
6/13/2006	19:00	1117	105%
6/24/2006	8:50	1121	106%
7/2/2006	23:48	1102	104%
7/2/2006	20:32	1113	105%
7/5/2006	17:28	1108	105%
7/7/2006	11:35	1137	107%
7/11/2006	13:23	1110	105%
7/18/2006	7:28	1095	103%
7/19/2006	6:34	1095	103%
7/22/2006	3:53	1122	106%
7/23/2006	19:56	1105	104%
8/8/2006	19:07	1092	103%
8/12/2006	13:36	1075	101%
8/25/2006	16:21	1096	103%
9/6/2006	13:13	1077	102%
9/8/2006	16:19	1095	103%

Sincerely,

A handwritten signature in black ink that reads "Keith H. Wooten". The signature is written in a cursive style with a large initial "K".

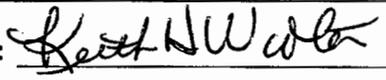
Keith H. Wooten  
Director, Asset Integrity

enclosure

Cc: Mark Drumm  
Mike Miller  
Todd Tullio, (r) Randy Beggs  
Beverly Secret (Regulatory File)

 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger Denver Product Pipeline System</b>	

**Asset Number:** CNTR-RMD-BD-01  
**System:** Borger Denver Product Pipeline  
**Line:** Borger Rocky to Denver  
**Facility/Segment:** La Junta Pump Station

**Approved:**   
**Mile Post:** 204.35  
**Elevation:** 4075'

**PUMP DATA:**

POS/UNIT	DRIVER	RPM	PUMP/STAGES	IMP. DIA.	CURVE NO.	BHP@BEP	EFF%
1	Nordberg	3580	Ingersoll-Rand 4/4	11.25"	PLA-0345	650	84
2	600 HP Elec.	3580	Ingersoll-Rand 4/3	11.3"	PLA-0037	500	86

**PUMP DIFFERENTIAL AT MAXIMUM RATE (PSIG):**

Product Rate (BPD)	Gasoline	Diesel	Jet Fuel	Propane
Unit 1	671	730	567	381
Unit 2	439	554	418	295

**MAXIMUM OPERATING PRESSURE (PSIG):** 1330<sup>(1)</sup>

**OPERATING PRESSURE SETPOINTS (PSIG):**

	CONTROL	SHUTDOWN
Maximum Discharge:	1060 <sup>(2)</sup>	1095
High Suction Pressure:	N/A	940 <sup>(3)</sup>
Minimum Intake:		
High (Propane above 70 F)	240	210
Intermediate	200	170
Low	55	20

<sup>(1)</sup> Limited by 72% of SMYS of 8" pipe at segment low point, MP 204.85, elevation 4020'. Unit 1 Heat Exchanger rated for 1400 psig.

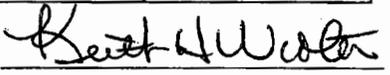
<sup>(2)</sup> Temporary 20% pressure reduction implemented due to pipeline failure at MP 209.5

<sup>(3)</sup> Suction pressure controls will prevent pump startup or initiate shutdown

<b>Custodian:</b> PIR/Tech Services Eng	<b>Distribution:</b> Original: System Data Manual (signed) Reference Copies: EDMS	<b>Issued Date:</b> 2007-06-18 <b>Retention:</b> Life of System
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 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger Denver Product Pipeline System</b>	

**Asset Number:** CNTR-RMD-BD-01  
**System:** Borger Denver Product Pipeline  
**Line:** Borger Rocky to Denver  
**Facility/Segment:** Ordway Pump Station

**Approved:**   
**Mile Post:** 233.73  
**Elevation:** 4463'

**PUMP DATA:**

POS/UNIT	DRIVER	RPM	PUMP/STAGES	IMP. DIA.	CURVE NO.	BHP@BEP	EFF%
1	Nordberg	Var.	United 7/5	10.0"	PLA-0198	1000	80
2	Turbine	6000	Bingham 3/3	9.25"	PLA-0235	1000	78

**PUMP DIFFERENTIAL AT MAXIMUM RATE (PSIG):**

Product Rate (BPD)	Gasoline	Diesel	Jet Fuel	Propane
Unit 1	569	728	543	383
Unit 2	875	1100	832	588

**MAXIMUM OPERATING PRESSURE (PSIG):** 1350<sup>(1)</sup>

**OPERATING PRESSURE SETPOINTS (PSIG):**

	CONTROL	SHUTDOWN
Maximum Discharge:	1080 <sup>(2)</sup>	1110
High Suction Pressure:	N/A	940 <sup>(3)</sup>
Minimum Intake:		
High (Propane above 70 F)	240	210
Intermediate	200	170
Low	55	20

<sup>(1)</sup> Limited by 72% SMYS of 8" pipe at segment low point, MP 233.73, elevation 4463'

<sup>(2)</sup> Temporary 20% pressure reduction implemented due to pipeline failure at MP 209.5

<sup>(3)</sup> Suction pressure controls will prevent pump startup or initiate shutdown

<b>Custodian:</b> PIR/Tech Services Eng	<b>Distribution:</b> Original: System Data Manual (signed) Reference Copies: EDMS	<b>Issued Date:</b> 2007-06-18 <b>Retention:</b> Life of System
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**Asset Number:** CNTR-RMD-BD-01  
**System:** Borger Denver Product Pipeline  
**Line:** Borger Rocky to Denver  
**Facility/Segment:** Cowans

**Approved:** *Keith H. Walter*  
**Mile Post:** 254.68  
**Elevation:** 5190'

**PUMP DATA:**

POS/UNIT	DRIVER	RPM	PUMP/STAGES	IMP. DIA.	CURVE NO.	BHP@BEP	EFF%
1	Elec. 700 HP	3580	United 4/4	9.75"	PLA-0537	500	80
2	Elec. 600 HP	3560	Ingersoll-Rand 4/3	11.125"	PLA-0210	600	84

**PUMP DIFFERENTIAL AT MAXIMUM RATE (PSIG):**

Product Rate (BPD)	Gasoline	Diesel	Propane	Turbine Fuel
Unit 1	406	531	273	389
Unit 2	439	552	295	420

**MAXIMUM OPERATING PRESSURE (PSIG):** 1335<sup>(1)</sup>

**OPERATING PRESSURE SETPOINTS (PSIG):**

	CONTROL	SHUTDOWN
Maximum Discharge:	1065 <sup>(2)</sup>	1100
High Suction Pressure:	N/A	940 <sup>(3)</sup>
Pump Case Pressure (Unit 2):	N/A	1910 <sup>(4)</sup>
Minimum Intake:		
High (Propane above 70 F)	240	210
Intermediate	200	170
Low	55	20

<sup>(1)</sup> Limited by 72% of SMYS of 8" pipe at segment low point, MP 255.66, elevation 5150'

<sup>(2)</sup> Temporary 20% pressure reduction implemented due to pipeline failure at MP 209.5

<sup>(3)</sup> Suction pressure controls will prevent pump startup or initiate shutdown

<sup>(4)</sup> Limited by 60% of SMYS of discharge piping. Maximum case pressure set 40 psi below thermal relief setting of 1950 psig

**MAINLINE BLOCK VALVE**

Mainline Shutdown	Remote	Automatic	Valve Location	Pressure Transmitter Location
N/A	Yes	No	North	Upstream (South) <sup>(5)</sup>

<sup>(5)</sup> Upstream (South) segment monitored by station suction and discharge pressure transmitters. North (downstream) segment monitored by Rush Station.

<b>Custodian:</b> PIR/Tech Services Eng	<b>Distribution:</b> Original: System Data Manual (signed) Reference Copies: EDMS	<b>Issued Date:</b> 2007-06-18 <b>Retention:</b> Life of System
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 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger-Denver Line Rush</b>	

**Asset Number:** CNTR-RMD-BD-01-260  
**System:** BORGER DENVER PRODUCT PIPELINE SYSTEM  
**Line:** BD-01  
**Facility/Segment:** RUSH PRODUCT PUMP STATION

**Approved:** *Keith Weston*

**Mile Post:** 271.11  
**Elevation:** 5850'

**PUMP DATA:**

<u>POS.</u>	<u>UNIT</u>	<u>DRIVER</u>	<u>RPM</u>	<u>PUMP RPM</u>	<u>PUMP/ STAGES</u>	<u>IMP. DIA.</u>	<u>CURVE</u>	<u>BPH @ BEP<sup>(1)</sup></u>	<u>EFF. %</u>
1	1	Electric700 HP	3570	3570	Ingersoll-Rand 4/4	11.375"	308	1875	82.5

<sup>(1)</sup> Best Efficiency Point (BEP).

**PUMP DIFFERENTIAL AT MAXIMUM RATE (PSIG):**

<u>Product</u>	<u>Diesel</u>	<u>Propane</u>	<u>Gasoline</u>	<u>Turbine Fuel</u>
Rate (BPD)	37,000	43,200	43,200	42,000
Unit 1	834	454	675	641

**MAXIMUM OPERATING PRESSURE (PSIG):** 1350<sup>(2)</sup>

**OPERATING PRESSURE SETPOINTS (PSIG):**

	<u>CONTROL</u>	<u>SHUTDOWN</u>
Maximum Discharge:	1080 <sup>(4)</sup>	1110
High Suction Pressure:	N/A	940
Minimum Intake:		
High (Propane above 70°F)	240	210
Intermediate	200	170
Low	55	20

<sup>(2)</sup> Limited by 72% of SMYS of 8" pipe at segment low point, MP 271.02, elevation 5850'.

<sup>(4)</sup> Temporary 20% pressure reduction implemented due to pipeline failure at MP 209.5.

**MAINLINE BLOCK VALVE**

<u>Mainline Shutdown</u>	<u>Remote</u>	<u>Automatic</u>	<u>Valve Location</u>	<u>Pressure Transmitter Location</u>
N/A	Yes	No	North	North (downstream) <sup>(3)</sup>

<sup>(3)</sup> South (upstream) segment monitored by station suction and discharge pressure transmitters.

<b>Custodian:</b> PIR/Tech Services Eng	<b>Distribution:</b> Original: System Data Manual (signed) Reference Copies: EDMS	<b>Issued Date:</b> 2007-07-17 <b>Retention:</b> Life of System
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 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger-Denver Line Calhan</b>	

**Asset Number:** CNTR-RMD-BD-01-280  
**System:** BORGER DENVER PRODUCT PIPELINE SYSTEM  
**Line:** BD-01  
**Facility/Segment:** CALHAN

**Approved:** *Kurt H. Wooten*

**Mile Post:** 290.59  
**Elevation:** 6267'

**PUMP DATA**

<u>POS/UNIT</u>	<u>DRIVER</u>	<u>RPM</u>	<u>PUMP RPM</u>	<u>PUMP/STAGES</u>	<u>IMP. DIA.</u>	<u>CURVE NO.</u>	<u>BHP@BEP<sup>(1)</sup></u>	<u>EFF%</u>
1/1	Nordberg	765	3550	UNITED 7/5	9.75"	303	1562	80
2/2	Elec. 600HP	3560	3560	Ingersoll-Rand 4/3	11.125"	307	1583	79

<sup>(1)</sup> Best Efficiency Point (BEP).

**PUMP DIFFERENTIAL AT MAXIMUM RATE (PSIG):**

<u>Product</u>	<u>Diesel</u>	<u>Propane</u>	<u>Gasoline</u>	<u>Turbine Fuel</u>
Rate (BPD)	37,000	43,200	43,200	42,000
Unit 1	728	383	569	543
Unit 2	552	295	439	420

**MAXIMUM OPERATING PRESSURE (PSIG):** 1275<sup>(2)</sup>

**OPERATING PRESSURE SETPOINTS (PSIG):**

	<u>CONTROL</u>	<u>SHUTDOWN</u>
Maximum Discharge:	1020 <sup>(6)</sup>	1050
Maximum Intake:		950 <sup>(3)</sup>
Minimum Intake:		
High (Propane above 70°F)	320	300
Intermediate	250	230
Low	100	70

<sup>(2)</sup> Limited by 72% of SMYS of 8" pipe at segment low point, MP 303.84, elevation 6057'.

<sup>(3)</sup> See Unit 1 Suction Valve below.

<sup>(6)</sup> Temporary 20% pressure reduction implemented due to pipeline failure at MP 209.5.

**MAINLINE BLOCK VALVE:**

<u>Mainline Shutdown</u>	<u>Remote</u>	<u>Automatic</u>	<u>Valve Location</u>	<u>Pressure Transmitter Location</u>
N/A	Yes	No	North	South (upstream) <sup>(4)</sup>

<sup>(4)</sup> South (upstream) segment monitored by station suction and discharge pressure transmitters.

<b><u>Custodian:</u></b> PIR/Tech Services Eng	<b><u>Distribution:</u></b> <b><u>Original:</u></b> System Data Manual (signed) <b><u>Reference Copies:</u></b> EDMS	<b><u>Issued Date:</u></b> 2002-08-22 <b><u>Retention:</u></b> Life of System
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 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger-Denver Line Calhan</b>	Page 2 of 2

**UNIT 1 SUCTION VALVE:**

<b>Unit 1</b>				
<b><u>Shutdown</u></b>	<b><u>Remote</u></b>	<b><u>Automatic</u></b>	<b><u>Valve Location</u></b>	<b><u>Pressure Transmitter Location</u></b>
950 <sup>(5)</sup> psig	Yes	Yes	North	Upstream

<sup>(5)</sup> Limited by heat exchanger tubes. Closes Unit #1 suction valve upstream of heat exchanger. Valve will not open until downstream pressure drops below 750 psig. Valve must be re-opened remotely or locally.  
**Caution: Product In pump must match pipeline.**

<b>Custodian:</b> PIR/Tech Services Eng	<b>Distribution:</b> Original: System Data Manual (signed) Reference Copies: EDMS	<b>Issued Date:</b> 2002-08-22 <b>Retention:</b> Life of System
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 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger-Denver Line Kiowa</b>	

**Asset Number:** CNTR-RMD-BD-01-300  
**System:** BORGER DENVER PRODUCT PIPELINE SYSTEM  
**Line:** BD-01  
**Facility/Segment:** KIOWA PRODUCT PUMP STATION

**Approved:** *Keith W. Water*

**Mile Post:** 320.55  
**Elevation:** 6500'

**PUMP DATA:**

<u>POS.</u>	<u>UNIT</u>	<u>DRIVER</u>	<u>RPM</u>	<u>PUMP RPM</u>	<u>PUMP/ STAGES</u>	<u>IMP. DIA.</u>	<u>CURVE</u>	<u>BPH @ BEP<sup>(1)</sup></u>	<u>EFF. %</u>
1	1	Nordberg	765	3550	Ingersoll-Rand 4/4	11.250"	310	1792	83.0

<sup>(1)</sup> Best Efficiency Point (BEP).

**PUMP DIFFERENTIAL AT MAXIMUM RATE (PSIG):**

<u>Product</u>	<u>Diesel</u>	<u>Propane</u>	<u>Gasoline</u>	<u>Turbine Fuel</u>
Rate (BPD)	37,000	43,200	43,200	42,000
Unit 1	800	433	433	614

**MAXIMUM OPERATING PRESSURE (PSIG):** 1040<sup>(2)</sup>

**OPERATING PRESSURE SETPOINTS (PSIG):**

	<u>CONTROL</u>	<u>SHUTDOWN</u>
Maximum Discharge:	830 <sup>(8)</sup>	875 <sup>(3)</sup>
Maximum Intake:		950 <sup>(4)</sup>
Minimum Intake:		
High (Propane above 70°F)	240	210
Intermediate	200	170
Low	55	20

<sup>(2)</sup> Limited by 72% of SMYS of 8" pipe at segment low point, MP 340, elevation 5679'.

<sup>(3)</sup> Downstream mainline block valve will automatically close at 875<sup>(8)</sup> psig.

<sup>(4)</sup> See Unit #1 Suction Valve below.

<sup>(8)</sup> Temporary 20% pressure reduction implemented due to pipeline failure at MP 209.5.

**MAINLINE BLOCK VALVE:**

<u>Mainline Shutdown</u>	<u>Remote</u>	<u>Automatic</u>	<u>Valve Location</u>	<u>Pressure Transmitter Location</u>
875 <sup>(5,8)</sup> psig	Yes	Yes	North	North (downstream) <sup>(6)</sup>

<sup>(5)</sup> Set to protect segment low point, MP 340, elevation 5679'. Valve will not open until downstream pressure drops below 795 psig. Valve must be re-opened remotely or locally.

<sup>(6)</sup> South (upstream) segment monitored by station suction and discharge pressure transmitters.

<b><u>Custodian:</u></b> PIR/Tech Services Eng	<b><u>Distribution:</u></b> <b><u>Original:</u></b> System Data Manual (signed) <b><u>Reference Copies:</u></b> EDMS	<b><u>Issued Date:</u></b> 2007-01-09 <b><u>Retention:</u></b> Life of System
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 <b>ConocoPhillips Pipe Line Company</b>	Transportation – PT-PIR-Tech Services Eng	Rev: 0.0
	<b>Operating Data Sheet Borger-Denver Line Kiowa</b>	

**UNIT 1 SUCTION VALVE:**

<b>Unit 1</b>			<b>Valve</b>	<b>Pressure Transmitter</b>
<b><u>Shutdown</u></b>	<b><u>Remote</u></b>	<b><u>Automatic</u></b>	<b><u>Location</u></b>	<b><u>Location</u></b>
950 <sup>(7)</sup> psig	Yes	Yes	N/A	Upstream

<sup>(7)</sup> Limited by heat exchanger tubes. Closes Unit #1 suction valve upstream of heat exchanger. Valve will not open until downstream pressure drops below 750 psig. Valve must be re-opened remotely or locally.  
**Caution: Product in pump must match pipeline.**

<b><u>Custodian:</u></b> PIR/Tech Services Eng	<b><u>Distribution:</u></b> <b><u>Original:</u></b> System Data Manual (signed) <b><u>Reference Copies:</u></b> EDMS	<b><u>Issued Date:</u></b> 2007-01-09 <b><u>Retention:</u></b> Life of System
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