DOTUS Department of TransportationPHMSAPipelines and Hazardous Materials Safety AdministrationOPSOffice of Pipeline Safety
Western Region

Principal Investigator	Peter Katchmar
Regional Director	Chris Hoidal
Date of Report	8/04/2011
Subject	Failure Investigation Report – Bridger Lake LLC Crude Oil Release

Operator, Location, & Consequences

Date & Time of Failure:	4/2/2010 Time unknown
Commodity Released:	Light Crude Oil
City/County & State:	Robertson/Uinta County, WY
OpID & Operator Name	32483 Bridger Lake, LLC
Unit # & Unit Name	73779 6" Crude Line
SMART Activity #:	129897
Milepost / Location	Milepost 16.5
Type of Failure:	Rupture caused by Operator Error
Fatalities:	0
Injuries	0
Description of area impacted	Just to the east of Robertson, WY in a pasture
Property damage	\$4 million.

Executive Summary

On 4/2/2010, a release occurred on the Bridger Lake, LLC (Bridger Lake) 6" crude oil line near Robertson, WY. The leak was not located by the operator's field personnel until the morning of Monday, 4/5/2010. Western Region became aware of the release on April 10, 2010, when Bridger Lake notified the National Response Center of the failure after a pool of crude oil ignited at the site during cleanup operations.

PHMSA's investigation revealed that the pipeline failed due to the line being over pressured by pumping against a closed valve. After the failure, approximately 1,473 barrels of crude was pumped into the pipeline over the weekend by the production company who is the only shipper who uses this pipeline. Also, the line fill from the top of the mountain to the release site is 204 BPM * 13.5 miles = 2754 BBLs + 1473 BBLs = 4227 BBLS estimated total released volume.

Bridger Lake maintained that this line was an unregulated rural gathering line. PHMSA maintained that this line is an interstate transmission line as defined in 49 CFR Part 195.1(a)(2). PHMSA issued a Corrective Action Order (CAO) to Bridger Lake on April 30, 2010. The line was repaired on April 11, 2010, but has not been restarted since the release.

On February 24, 2011, PHMSA entered into a Consent Agreement with Bridger Lake.

System Details

The Bridger Lake 6" line starts at the Whiting Petroleum Facility in the Wasatch National Forest in Summit County, UT and runs north approximately three (3) miles and uphill for 500 feet in elevation and then downhill 2000' in elevation for an additional 24 miles. The line crosses into Uinta County, WY at approximately MP 02. The line ends at a 25,000 barrel break out (BO) tank just north of I-80. The line can directly affect a drinking water high consequence area (HCA) and runs close to an ecological HCA. There are three production injection points on this line, the first is at the beginning of the line and there are two additional injection points near the high point of the 6-inch line. Records show that the line has been hydrostatically tested in portions in 1968 and again in 1988.

The production company sells the crude oil to Shell at lease-automatic-custody-transfer (LACT) units and the oil is pumped through a few miles of 3.5-inch gathering lines to the 6-inch Bridger Lake trunk line. The LACT unit is a critical system in ownership transfer of crude oil from the production site to trucks, pipelines, or storage tanks and offers the flexibility of completely automated 24-hour operation. When a tank fills to a level certain, the crude is automatically pumped through the LACT unit which meters the amount of oil that is pumped through it and subsequently into the pipeline. The line was designed as an ANSI 600 system with some ANSI 900 components at the end of the line. A back pressure of 800 psig in maintained at the end of the line to keep the line packed.

The calculated maximum operating pressures (MOP), based on hydrotest and checked against design calculations, at critical locations along the line are as follows:

Whiting Petroleum Plant MP 0.0	Elevation – 8882'	MOP = 547 psig
Lucky Ditch/Whiskey Springs MP 2.8	Elevation – 9353'	MOP = 385 psig
Robertson Valve Site MP 10	Elevation – 8191'	MOP = 802 psig
Bridger Terminal MP 27.1	Elevation – 7150'	MOP = 1185 psig

All deliveries are initiated at units owned and operated by Whiting Petroleum and are immediately sold to Shell on the downstream side of the LACT units. The tri-plex positive displacement pumps that are used to pump crude into the Bridger Lake pipeline are also owned and operated by Whiting Petroleum. The pumps have an overpressure control on their outlet side of between 800 psig and 1000 psig. These

are small plastic components that will fail and must be replaced. They are not able to be set at a certain pressure.

Bridger Lake trucks crude into a 500 barrel tank at the beginning of the line. Bridger Lake does not have their own meters and, therefore, there is no information on flow except production records. There is one mainline valve at milepost (MP) 10 and a rectifier at the end of the line to protect the tank bottom and the pipeline. There is no overpressure protection on the Bridger Lake 6-inch pipeline. The crude oil level in the 25,000 barrel tank is monitored by the Plains All-American Pipeline Company (PAAPL) at their control center in Texas. Also, the PAAPL control center initiates deliveries from the tank into their pipeline for transportation to refineries in Salt Lake City, UT. Due to the minimal volumes transported through this pipeline, the failure resulted in no supply issues.

System History

The 6-inch pipeline and BO tank were originally constructed in 1968 by Phillips Pipe Line Company. The alignment sheets show that the majority of the line was constructed with 6 5/8 inch diameter, API 5L-X-46, 0.156 inch wall thickness pipe; manufactured by Republic (coated with X-TRU Coat) and Lone Star (coated with Polykin 909), with an ERW long seam. The line currently operates whenever a LACT unit turns on and pumps a tank down the line.

The crude line appears to have been operated by Phillips Pipe Line Company up to the middle 1990s. The pipeline facility was sold numerous times between the mid 1990's and March 2006. Double On 8, LLC purchased the pipeline system on April 1, 2006 and has operated it under the name of Bridger Lake LLC since then. The current field operations manager has worked at this facility since Phillips Pipeline operated it. PHMSA had never inspected this facility before the release. In 1998 and again in 2008, a PHMSA engineer called Bridger Lake Operations Manager (OM) and asked about the functionality of the 27 mile pipeline. He was told both times that the line was a gravity line which dropped ~2000' into a 25,000 barrel tank just north of I-80. Pipelines that transport hazardous liquids by gravity are not subject to 49 CFR Part 195.

Events Leading up to the Failure

At the end of the month or the first of the month, the OM typically goes to the LACT units on the mountain and turns all of them off. Then he goes down to the end of line and closes the end of line mainline valve. Then he goes on top of the 25,000 barrel tank and gauges the tank. He then comes off the tank and reopens the end of line mainline valve.

On Thursday, April 1, 2010, the OM turned off the LACT units and closed the end of line valve and walked to the top of the tank and gauged it. When he came off the tank, he noticed that the pressure gauge on the pig receiver barrel read ~1500 psig. He knew this was abnormal so he went over and bled the pressure off of the receiver barrel and opened the end of line valve. He then tried to call someone from the production company who transports crude in the Bridger Lake line so he could ask them to initiate a delivery so he could see if the pressure would come back up. He could not raise anyone on the telephone.

The OM reported that on Friday morning April 2, 2010, he called the airline pilot who flies his pipeline and asked him to fly the line to see if he could see a leak. The OM said that he specifically asked the pilot to call him immediately upon landing but that the pilot did not. This was Easter weekend. The OM reported that he did not receive any information from the line flier until Monday morning, the 5th of April. He reported that he learned that the pilot had seen some brown & yellow grass near where the pipeline crossed Hwy 410. The OM reported that he drove out there and found the release. This was Monday, April 5, 2010.

Emergency Response

The OM reported that he immediately called the WY-One Call because he knew he was going to have to dig up his line and he knew Questar had an active line in the area. He next called his supervisor in Shreveport, LA to report the release. The supervisor reported that she thought the OM said he had called the National Response Center (NRC) instead of the WY-One Call so she didn't make that call.

Bridger Lake hired an environmental clean-up company, Enviro Care, out of Salt Lake City, UT to handle the release. They were being directed by C-K Associates out of Baton Rouge, LA on behalf of Bridger Lake. The operator contacted the Wyoming Department of Environmental Quality (WY-DEQ) and made application to be allowed to enter in their Voluntary Remediation Program (VRP). The WY-DEQ accepted Bridger Lake's application and approved their entry into the VRP. Under the VRP the operator must use an approved contractor who understands the appropriate remediation methods and thresholds for cleaning up the release.

On April 10, 2010, the Bridger Lake OM called the National Response Center (NRC) to report a fire at the release site (Appendix A). He added that there was a release of approximately 2,000 barrels of crude oil near Robertson, WY on April 5, 2010. The Western Region responded to the report by calling the operator. Again, the operator reported that the line was an unregulated gathering line.

Summary of initial start-up plan and return-to-service, including preliminary safety measures

The OM then reported that he called a nearby contractor who could perform the required repairs. The line was dug up and repaired by Tri-Star, a local pipeline contractor. The line was repaired and covered up before PHMSA arrived.

PHMSA issued a Corrective Action Order (CAO) to keep the pipeline shut down until everyone could understand the pipeline system and create an appropriate return-to-service plan that would ensure the safe operation of the pipeline system.

Bridger Lake approached PHMSA with a plan to isolate the pipeline from the BO tank and to return the BO tank to truck only service. PHMSA worked with Bridger Lake to get their personnel qualified to operate the tank and complete the appropriate testing of the tank. PHMSA allowed the BO tank to return to service on May 10, 2010.

Investigation Findings & Contributing Factors

On April 19, 2010, a representative of the Western Region PHMSA office was dispatched to the release site mainly to confirm the jurisdictional status of the line. When the investigator asked to see the failed section of pipe, he was shown an approximate four (4) foot long piece of 6-inch pipe that was in the back of the OM's pickup truck. A visual examination of the failed pipe revealed a fish-mouth rupture which indicated that the pipe had been over pressured. The PHMSA inspector asked the OM about this, specifically, how a gravity line could be over pressured. He said that it would be impossible. He was then asked where the pressure may have come from and the OM explained that there were positive displacement pumps that pushed the crude from the producer's LACT units to the Bridger Lake pipeline. The PHMSA investigator immediately started an official investigation into the release.

PHMSA personnel interviewed two Bridger Lake employees, the field Operations Manager who had been working at this facility for 30+ years, who was involved in the identification of the April 2, 2010, release and his supervisor who resides in Louisiana. The production company and the line flyer and the pipeline contractor who repaired the line were interviewed and supplied pertinent information. All

documentation made available by the Bridger Lake OM and some old documentation found at the Bridger Lake field office was reviewed during the investigation into this release.

The PHMSA investigator retrieved the approximate four (4) foot long pipe section of pipe that included the failed section from the back of the OM's pickup truck. Pictures were taken to document the pipe and some heavy plastic and some oil diapers were acquired. The failed pipe was wrapped in the diapers and plastic and taped with duct tape to preserve the failure.

An old operation, maintenance and emergency response (O, M & E) manual from the 1999 time frame when Coastal owned and operated this pipeline was found. The manual states that the line and associated facilities are DOT regulated. From the statements in the manual, it appeared that there used to be electronic monitoring equipment that was able to be monitored and controlled from a remote location. It appears that after Coastal sold this asset, the electronic monitoring and control system was deactivated and the O, M & E manual was left on the shelf.

The Bridger Lake line flyer was contacted and the Bridger Lake release was discussed. The pilot acknowledged receiving a call from the Bridger Lake OM on Friday, April 2, 2010. The pilot said he flew the line immediately and he saw a bulldozer working near the beginning of the pipeline as well as some brown or dirty snow near Robertson. The pilot said he called the OM on Friday April 2, 2010 and left a message on his cell phone. On Sunday, April 4, 2010, the pilot reported that he wrote up his line flyer report and faxed it to the OM.

The Bridger Lake OM had no records for the repair except a one-page schematic with distances written on it apparently drawn by Tri-star Constructors as it is signed and dated by one of their workers. PHMSA contacted Tri-Star and talked with the foreman who repaired the pipeline on April 11, 2010, and asked for any documentation of a hydrotest, welder qualifications, welding procedures, if the pipe installed was pre-hydrotested pipe, if they had taken any pictures of the repair site during or after the repair. The contractor was unable to provide any pertinent information except that they confirmed that they had performed the repair.

PHMSA finds that the root cause of this failure was that there was no mechanical over-pressure protection provided to protect the 6-inch transmission pipeline.

Contributing factors are:

- 1. The OM closed the end of line valve and did not open that valve until after a LACT unit came on and pumped crude oil into the pipeline.
- 2. No procedures for end of month shut down of the LACT units to perform the monthly gauging to prevent someone from turning on the LACT units while the end of line valve was shut.
- 3. Previous damage to the pipe the pipeline ruptured at a dent in the pipe near MP 16.5.
- 4. The OM did not retrieve his voice mail until Monday morning this allowed an additional 1473 BBLs to be pumped onto the ground over the weekend.

Appendices

Photographs 1st NRC Report 2nd NRC Report Production Company Letter Operator Accident Report Kiefner Forensic Metallurgical Analysis Report



Aerial view of the release location. Robertson, WY is just to the left.



Release location before repairs.



Bridger Lake Pipeline ROW across BLM land.



Bridger Lake Pipeline ROW in the National Forest.



Bridger Lake remediation site allowed burn off of product.



The sign for the town of Robertson, WY.



Bridger Lake failed pipe.



Bridger Lake failed pipe.



Bridger Lake Crude Line Marker not updated since Coastal Owned and Operated the line.



The Release site.



The end of line scraper receiver and associated valving.

NATIONAL RESPONSE CENTER 1-800-424-8802 *** For Public Use *** Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 936679

INCIDENT DESCRIPTION

*Report taken at 14:22 on 10-APR-10 Incident Type: PIPELINE Incident Cause: EQUIPMENT FAILURE Affected Area: The incident occurred on 10-APR-10 at 10:30 local time. Affected Medium: LAND GROUND

SUSPECTED RESPONSIBLE PARTY

Organization: BRIDGER LAKE LLC MOUNTAIN VIEW, WY

Type of Organization: PRIVATE ENTERPRISE

MILEPOST 12 County: UINTA STATE HIGHWAY 410 City: MOUNTAIN VIEW State: WY

INCIDENT LOCATION

RELEASED MATERIAL(S)

CHRIS Code: OIL Official Material Name: OIL: CRUDE Also Known As: Qty Released: 2000 BARREL(S)

DESCRIPTION OF INCIDENT

CALLER STATED THAT THE SPILL OF 2000 BARRELS OF CRUDE OIL OCCURRED ON MONDAY APRIL 5, 2010. THE REPORTING PARTY WAS NOTIFIED OF THE INITIAL SPILL AT APPROXIMATELY 10:00AM. THERE WAS CORROSION FOUND IN THE LINE. WHILE DOING CLEANUP THERE WAS A FIRE THAT OCCURRED. THE IGNITION SOURCE IS UNKNOWN BUT SUSPECTED TO BE A SPARK FROM A ROCK STRIKE. THE INCIDENT TIME ON THIS REPORT WAS RECORDED AS THE TIME OF THE FIRE. THE REPORTING PARTY WAS MAKING THIS CALL DUE TO THE FIRE DURING CLEAN UP.

INCIDENT DETAILS

Pipeline Type: GATHERING DOT Regulated: NO Pipeline Above/Below Ground: BELOW Exposed or Under Water: NO Pipeline Covered: UNKNOWN

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Fire Involved	l: YES	Fire Extinguished: YES	1	
INJURIES:	NO	Hospitalized:	Empl/Crew:	Passenger:
FATALITIES:	NO	Empl/Crew:	Passenger:	Occupant:
EVACUATIONS:	NO	Who Evacuated:	Radius/Area:	
Damages:	NO			
			Length of	Direction of
Closure Type	Des	cription of Closure	Closure	Closure
Air: N	1			
Road: 1	1			Major
Waterway: 1	1			Artery: N
Track: 1	1			

http://www.nrc.uscg.mil/reports/rwservlet?standard_web+inc_seq=936679

REMEDIAL ACTIONS PIPELINE LEAK WAS SECURED. PIPELINE SHUT DOWN. BUILT CONTAINMENT DAMS, CLEAN UP CREW ON SITE. VAC TRUCKS USED. REMOVING THE IMPACTED SOIL. THE IGNITION SOURCE FOR THE FIRE IS UNKNOWN BUT SUSPECTED TO BE FROM A ROCK STRIKE CREATING A SPARK. Release Secured: YES Release Rate: Estimated Release Duration: WEATHER Weather: PARTLY CLOUDY, °F ADDITIONAL AGENCIES NOTIFIED Federal: NONE State/Local: WY DEO State/Local On Scene: NONE State Agency Number: NONE NOTIFICATIONS BY NRC USCG ICC (ICC ONI) 10-APR-10 14:43 COLORADO INFO ANALYSIS CENTER (FUSION CENTER) 10-APR-10 14:43 DHS PROTECTIVE SECURITY ADVISOR (PSA DESK) 10-APR-10 14:43 DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE) 10-APR-10 14:43 U.S. EPA VIII (MAIN OFFICE) 15:04 10-APR-10 USCG NATIONAL COMMAND CENTER (MAIN OFFICE) 10-APR-10 14:46 NE INFORMATION ANALYSIS CENTER (MAIN OFFICE) 10-APR-10 14:43 NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE) 10-APR-10 14:43 NOAA RPTS FOR WY (MAIN OFFICE) 10-APR-10 14:43 NATIONAL RESPONSE CENTER HQ (MAIN OFFICE) 10-APR-10 14:46 PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO)) 10-APR-10 14:43 PACIFIC STRIKE TEAM (MAIN OFFICE) 10-APR-10 15:01 DOI/OEPC DENVER (MAIN OFFICE) 10-APR-10 14:43 WY DEPARTMENT OF ENVIRON QUALITY (MAIN OFFICE) 14:43 10-APR-10 WYOMING CRIMINAL INTEL CENTER (SR INTELLIGENCE OFFICER) 10-APR-10 14:43 WYOMING OFFICE OF HOMELAND SECURITY (OPERATIONS DIVISION) 10-APR-10 14:43

ADDITIONAL INFORMATION

THE CALLER CLAIMED THAT THE NRC WAS NOTIFIED ON MONDAY, BUT NO REPORT NUMBER WAS AVAILABLE. REPORTING PARTY CALLED BACK PRIOR TO FULL REPORT PROCESSING TO NOTIFY US THAT INITIAL REPORT WAS NOT MADE TO US. ADDITIONAL CONTACT NUMBERS AND INFORMATION GATHERED AS A RESULT.

*** END INCIDENT REPORT # 936679 ***

NATIONAL RESPONSE CENTER 1-800-424-8802 *** For Public Use *** Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws Incident Report # 936687 INCIDENT DESCRIPTION *Report taken at 16:45 on 10-APR-10 Incident Type: PIPELINE Incident Cause: EQUIPMENT FAILURE Affected Area: The incident was discovered on 05-APR-10 at 10:00 local time. Affected Medium: SUBSURFACE GROUND SUSPECTED RESPONSIBLE PARTY Organization: BRIDGER LAKE LLC MOUNTAIN VIEW, WY Type of Organization: PRIVATE ENTERPRISE INCIDENT LOCATION MILEPOST 12 County: UINTA STATE HIGHWAY 410 City: MOUNTAIN VIEW State: WY RELEASED MATERIAL(S) CHRIS Code: OIL Official Material Name: OIL: CRUDE Also Known As: Qty Released: 2000 BARREL(S) DESCRIPTION OF INCIDENT CALLER STATED THAT THERE WAS CORROSION IN THE UNDERGROUND PIPELINE WHICH CAUSED A DISCHARGE OF 2000 BARRELS OF CRUDE OIL ONTO THE GROUND. INCIDENT DETAILS Pipeline Type: GATHERING DOT Regulated: NO Pipeline Above/Below Ground: BELOW Exposed or Under Water: NO Pipeline Covered: UNKNOWN DAMAGES Fire Extinguished: UNKNOWN Fire Involved: NO INJURIES: NO Hospitalized: Empl/Crew: Passenger: FATALITIES: NO Empl/Crew: Passenger: Occupant: Who Evacuated: EVACUATIONS: NO Radius/Area: Damages: NO Length of Direction of Description of Closure Closure Closure Closure Type Air: Ν Major Road: Ν Artery: N Waterway: Ν Track: Ν Passengers Transferred: NO Environmental Impact: UNKNOWN Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS LEAK SECURED, PIPELINE SHUT DOWN, BUILT CONTAINMENT DAMS, CLEAN UP CREW ONSITE, VAC TRUCKS USED, EXCAVATING IMPACTED SOIL. Release Secured: YES Release Rate: Estimated Release Duration:

WEATHER

Weather: PARTLY CLOUDY, °F

State/Local: WY DEQ State/Local On Scene: NONE	Federal: NONE	ADDITIONAL AGENCIES NOTIFIED	
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WYOMING OFFICE OF HOMELAND SECURITY (OPERATIONS DIVISION)		NTER (SR INTELLIGENCE OFFICER)	
10-APR-10 16:55		D SECURITY (OPERATIONS DIVISION)	

ADDITIONAL INFORMATION CALLER WAS UNDER THE UNDERSTANDING THAT THIS REPORT WAS CALLED IN ON MONDAY. NO REPORT HAD BEEN MADE.

*** END INCIDENT REPORT # 936687 ***

05-04-10A11:59 RCVD



April 30, 2010

Mr. Peter Katchmar Western Region, PHMSA Accident Coordinator US Department of Transportation Pipeline and Hazardous Materials Safety Administration Office of Pipeline Safety 12300 West Dakota Avenue Lakewood, CO 80228

RE: Bridger Lake Pipeline LLC Pipeline Release

Dear Peter:

Whiting Oil and Gas Corporation is in receipt of your email dated April 27, 2010 requesting certain information concerning Whiting Oil and Gas Corporation (Whiting) operations in the Mountain View, Wyoming area.

Whiting became aware that you were interested in our facilities when our field personnel found you and the Bridger Lake Pipeline LLC (Bridger) operator inspecting our operations without prior notice. Whiting desires to fully cooperate with you concerning this matter and requests that you notify us of any further inspections. It appears your questions are related to the Bridger release that you indicated was discovered on April 1, 2010. Whiting was notified on April 6, 2010 by Bridger that a release had occurred on their pipeline. At that time, all oil deliveries to the Bridger pipeline ceased and oil deliveries were redirected to truck sales.

Whiting operates several fields that are connected to the Bridger pipeline. The crude oil produced from our fields is sold to Shell at the LACTs located at each production facility. All right, title, and custody is transferred at the respective LACTs to Shell. It is our understanding that Shell has an agreement with Bridger to transport the crude oil through the Bridger pipeline to the Rocky Mountain Pipeline.

The production from each well flows, through flowlines, from the wellhead to a production facility. At the production facility, production equipment separates the oil, gas, and water. The crude oil is then stored in a sales tank. When a sufficient volume is available, the crude oil is sold through a LACT to Shell.

Whiting Petroleum Corporation and its wholly owned subsidiary Whiting Oil <u>and Gas</u> Corporation The information you requested is as follows:

- Alexandre

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1.	Production amounts sold into the Bridger Lake 6" line from 3/31/10 through
	4/6/10:
	Whiting sold 1473 BO to Shell, purchaser, during this period. Please note that no volumes were delivered to the Bridger Lake Pipeline LLC on April 1, 2010. The daily volumes sold to Shell are as follows:
	March 31, 2010 14 BO
	April 1, 2010 0 BO
	April 2, 2010 529 BO
	April 3, 2010 350 BO
	April 4, 2010 370 BO
	April 5, 2010 210 BO
	April 6, 2010 0 BO
2.	A schematic of the production area that shows the proximity of the producing well to the gathering tanks immediately before the sales into the 6" line. I understand that Whiting owns the 3" and 4" lines from the sales tanks to the
	Luckey Ditch and Whiskey Springs sales points:
	Whiting does own the associated gathering lines from the Luckey Ditch and Whiskey
	Springs sales points to the Bridger pipeline. The Luckey Ditch field has one
	production facility and one associated LACT. The crude oil sales are transported to
	the Bridger pipeline through a 3" gathering line. The Whiskey Springs field has four
	production facilities. Again, crude oil sales to Shell are through the individual
	LACTs at each production facility. Each LACT is connected to a 4" gathering line and transported to the Bridger pipeline
3.	and transported to the Bridger pipeline. Does Whiting truck all production from the wellheads to the sales tanks or are
J.	the pipelines from some on the wellheads to the sales tanks:
	the provinces it only some on the wormeans to the sures turnes.
	As explained above, Whiting does not truck or pipeline directly from the wellhead to
	the sales tank. Production flows from the wellhead to the production facility. At the
	production facility, the production equipment allows for the separation of oil, gas,
	and water. The oil production is then stored in the sales tank prior to sales.
4.	Post release question – Does Whiting truck all production to Bridger Lake's
	25K BBL tank or to some other sales point now:
	Custody transfer (sales) of the crude oil product to Shell occurs at the LACTs which
	are located at the production facilities. As such, Whiting does not have right, title, or
	custody to the crude oil beyond the LACTs. It is our understanding that Shell, crude
	oil purchaser, is presently trucking the crude oil sales to the Bridger Lake Pipeline
	LLC 25000 BBL tank.

I would hope that the information provided by our personnel cleared up some of the misconceptions that were brought forth. Whiting also requests that we be informed of the full details of this circumstance. If a meeting to define the circumstances would be helpful, we are certainly available and would like to participate.

Should you require additional information concerning this matter, please contact me at the above address or call 303.390.4222.

Respectfully-yours,

John A. D'Hooge Operations Manager – Central Rockies

CC:

Chris Hoidal
 Director, Western Region
 U.S. Department of Transportation
 Pipeline and Hazardous Materials Safety Administration
 12300 W. Dakota Avenue, Suite 110
 Lakewood, CO 80228

NOTICE: This report is required by 49 CFR Part 195. Failure to report can result in exceed \$100,000 for each violation for each day that such violation persists except the penalty shall not exceed \$1,000,000 as provided in 49 USC 60122.		OMB NO: 2137-0047 EXPIRATION DATE: 01/3	1/2013
A	Report Date:	05/25/201	1
U.S Department of Transportation	No.	20110155 - 1	5821
Pipeline and Hazardous Materials Safety Administration		(DOT Use On	 lv)
ACCIDENT REPORT - HAZ PIPELINE SYS		D	
A federal agency may not conduct or sponsor, and a person is not required to responsible a collection of information subject to the requirements of the Paperwork Reduct OMB Control Number. The OMB Control Number for this information collection is 2 to be approximately 10 hours per response (5 hours for a small release), including the completing and reviewing the collection of information. All responses to this collection burden estimate or any other aspect of this collection of information, including sugge Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, INSTRUCTIONS	ion Act unless that collect 137-0047. Public reporting time for reviewing instron of information are material partitions for reducing this to	tion of information displays a ong for this collection of informa ructions, gathering the data ne ndatory. Send comments rega ourden to: Information Collection	current valid tion is estimat eded, and irding this
Important: Please read the separate instructions for completing this form before yo examples. If you do not have a copy of the instructions, you can obtain one from th http://www.phmsa.dot.gov/pipeline .	ou begin. They clarify the e PHMSA Pipeline Safet	e information requested and pr v Community Web Page at	ovide specific
PART A - KEY REPORT INFORMATION			
Report Type: (select all that apply)	Original: Yes	Supplemental:	Final:
Last Revision Date:	Tes		
1. Operator's OPS-issued Operator Identification Number (OPID):	32483		
2. Name of Operator	BRIDGER LAKE, L	LC	
3. Address of Operator:			
3a. Street Address 3b. City	800 SPRING STRE	ET, SUITE 205	
3c. State	Louisiana		
3d. Zip Code	71101		
4. Local time (24-hr clock) and date of the Accident:	04/05/2010 09:10		
5. Location of Accident:	44 40 4074		
Latitude: Longitude:	41.184974 -110.410612		
6. National Response Center Report Number (if applicable):	936679		
7. Local time (24-hr clock) and date of initial telephonic report to the National Response Center (if applicable):	04/10/2010 13:19		
8. Commodity released: (select only one, based on predominant volume released)	Crude Oil		
- Specify Commodity Subtype:			
- If "Other" Subtype, Describe:			
 If Biofuel/Alternative Fuel and Commodity Subtype is Ethanol Blend, then % Ethanol Blend: %: 			
 If Biofuel/Alternative Fuel and Commodity Subtype is Biodiesel, then Biodiesel Blend (e.g. B2, B20, B100): 			
 9. Estimated volume of commodity released unintentionally (Barrels): 10. Estimated volume of intentional and/or controlled release/blowdown (Barrels): 			
 Estimated volume of commodity recovered (Barrels): Were there fatalities? 	No		
- If Yes, specify the number in each category:	No		
12a. Operator employees			
12b. Contractor employees working for the Operator			
12c. Non-Operator emergency responders			
12d. Workers working on the right-of-way, but NOT associated with this Operator			
12e. General public	1		
12f. Total fatalities (sum of above)			
	No		
13. Were there injuries requiring inpatient hospitalization?			
- If Yes, specify the number in each category:	1		
If Yes, specify the number in each category: 13a. Operator employees			
- If Yes, specify the number in each category:			

	I
associated with this Operator	
13e. General public	
13f. Total injuries (sum of above)	
14. Was the pipeline/facility shut down due to the Accident?	Yes
- If No, Explain:	100
- If Yes, complete Questions 14a and 14b: (use local time, 24-hr clock)	
14a. Local time and date of shutdown:	04/05/2010 09:10
14b. Local time pipeline/facility restarted:	
- Still shut down? (* Supplemental Report Required)	Yes
15. Did the commodity ignite?	Yes
10. Did the commonly ignite:	
16. Did the commodity explode?	No
17. Number of general public evacuated:	0
18. Time sequence (use local time, 24-hour clock):	
18a. Local time Operator identified Accident:	04/05/2010 09:10
18b. Local time Operator resources arrived on site:	04/06/2010 08:00
	04/00/2010 00:00
PART B - ADDITIONAL LOCATION INFORMATION	
1. Was the origin of Accident onshore?	Yes
If Yes, Complete Ques	
If No, Complete Questi	ons (13-15)
- If Onshore:	
2. State:	Wyoming
3. Zip Code:	82994
4. City	Robertson
5. County or Parish	Uinta
6. Operator-designated location:	Milepost/Valve Station
Specify:	
7. Pipeline/Facility name:	Bridger Lake
8. Segment name/ID:	Mile Post 17
9. Was Accident on Federal land, other than the Outer Continental Shelf	No
(OCS)?	
10. Location of Accident:	Originated on Operator-controlled property, but then flowed
	or migrated off the property
11. Area of Accident (as found):	Underground
Specify:	Under soil
- If Other, Describe:	
Depth-of-Cover (in):	
12. Did Accident occur in a crossing?	No
- If Yes, specify below:	
- If Bridge crossing –	
Cased/ Uncased:	
- If Railroad crossing –	
Cased/ Uncased/ Bored/drilled	
- If Road crossing –	
Cased/ Uncased/ Bored/drilled	
- If Water crossing –	
Cased/ Uncased	
- Name of body of water, if commonly known:	
- Approx. water depth (ft) at the point of the Accident:	
- Select:	
- If Offshore:	
13. Approximate water depth (ft) at the point of the Accident:	
14. Origin of Accident:	
- In State waters - Specify:	I
	Ι
- State:	
- Area:	
- Block/Tract #:	
- Nearest County/Parish:	
- On the Outer Continental Shelf (OCS) - Specify:	1
	1
- Area:	
- Block #:	
15. Area of Accident:	
PART C - ADDITIONAL FACILITY INFORMATION	
1. Is the pipeline or facility:	Intrastate
2. Part of system involved in Accident:	Onshore Pipeline, Including Valve Sites
- If Onshore Breakout Tank or Storage Vessel, Including Attached	· · · · · · · · · · · · · · · · · · ·
Appurtenances, specify:	
	Dine
3. Item involved in Accident:	Pipe

- If Pipe, specify:	
	Pipe Body
3a. Nominal diameter of pipe (in):	6.58
3b. Wall thickness (in):	.156
3c. SMYS (Specified Minimum Yield Strength) of pipe (psi):	62,500
3d. Pipe specification:	Grade B line pipe
3e. Pipe Seam , specify:	Longitudinal ERW - Unknown Frequency
- If Other, Describe:	
3f. Pipe manufacturer:	
3g. Year of manufacture:	1968
3h. Pipeline coating type at point of Accident, specify:	Other
- If Other, Describe:	Polyken 909
 If Weld, including heat-affected zone, specify: 	T bijken 565
- If Other, Describe:	
- If Valve, specify:	
- If Mainline, specify:	
- If Other, Describe:	
3i. Manufactured by:	
3j. Year of manufacture:	
 If Tank/Vessel, specify: 	
- If Other - Describe:	
- If Other, describe:	
4. Year item involved in Accident was installed:	1968
5. Material involved in Accident:	Carbon Steel
- If Material other than Carbon Steel, specify:	
6. Type of Accident Involved:	Rupture
	Ιταρίαισ
- If Mechanical Puncture – Specify Approx. size:	
in. (axial) by	
in. (circumferential)	
- If Leak - Select Type:	
- If Other, Describe:	
- If Rupture - Select Orientation:	Longitudinal
	o
- If Other, Describe:	3
- If Other, Describe: Approx. size: in. (widest opening) by	
- If Other, Describe:	12
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact:	12
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply:	12
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact:	12
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply:	12
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic	12
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial	12 No
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination:	12 No Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned:	12 No Yes Yes
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation:	12 No Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply:	12 No Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water	12 No Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater	12 No Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil	12 No Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Suiface water - Groundwater - Soil - Vegetation - Vegetation - Vegetation - If Other, Describe: - Suiface water - Soil - Vegetation - Vegetation - Suiface water - Soil - Vegetation - Suiface water - Soil - Vegetation - Suiface water - Soil	12 No Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil	12 No Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Suiface water - Groundwater - Soil - Vegetation - Vegetation - Vegetation - If Other, Describe: - Suiface water - Soil - Vegetation - Vegetation - Suiface water - Soil - Vegetation - Suiface water - Soil - Vegetation - Suiface water - Soil	12 No Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination:	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Groundwater - Suiface - Groundwater - Suiface - Groundwater - Suiface - Groundwater - Surface - Groundwater	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Groundwater - Surface - Groundwater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Drinking water: (Select one or both)	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Public Water Intake	12 No Yes Yes Yes Yes Yes Yes Yes
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply:	12 No Yes Yes Yes Yes Yes Yes Yes
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ccean/Seawater - Surface - Groundwater - Surface - Private Well - Private Well - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known:	12 No Yes Yes Yes Yes Yes Yes Yes
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: - Surface water - Groundwater - Soil - Vegetation - Vegetation - Wildlife 5. Water contamination: - Surface - Groundwater - Surface - Groundwater - Surface - Groundwater - Surface - Private Well - Private Well - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility	12 No Yes Yes Yes Yes Yes Yes No No
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION Wildlife impact: 1a. If Yes, specify all that apply:	12 No Yes Yes Yes Yes Yes Yes Yes
If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4. Anticipated remediation: 4. Anticipated remediation: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program?	12 No Yes Yes Yes Yes Yes Yes No No
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Drinking water: (Select one or both) - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? 7. Did the released commodity reach or occur in one or more High	12 No Yes Yes Yes Yes Yes Yes No No
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Croundwater - Suiface - Drinking water: (Select one or both) - Private Well - Private Well - Private Well - Private Well - Private Well - Drinking water: (Select one or both) - Private Well - Drinking water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)?	12 No Yes Yes Yes Yes Yes Yes No No No No No No No No
- If Other, Describe: Approx. size: in. (widest opening) by in. (length circumferentially or axially) - If Other – Describe: PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Drinking water: (Select one or both) - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? 7. Did the released commodity reach or occur in one or more High	12 No Yes Yes Yes Yes Yes Yes No No No No No No No No

determination for this Accident site in the Operator's	
Integrity Management Program?	
- High Population Area:	
Was this HCA identified in the "could affect" determination for this Accident site in the Operator's	
Integrity Management Program? - Other Populated Area	
Was this HCA identified in the "could affect"	
determination for this Accident site in the Operator's	
Integrity Management Program?	
- Unusually Sensitive Area (USA) - Drinking Water	
Was this HCA identified in the "could affect"	
determination for this Accident site in the Operator's	
Integrity Management Program?	
- Unusually Sensitive Area (USA) - Ecological	
Was this HCA identified in the "could affect"	
determination for this Accident site in the Operator's	
Integrity Management Program?	
8. Estimated cost to Operator :	
8a. Estimated cost of public and non-Operator private	
property damage paid/reimbursed by the Operator	\$ 0
8b. Estimated cost of commodity lost	\$ 0
8c. Estimated cost of Operator's property damage & repairs	\$ 0
8d. Estimated cost of Operator's emergency response	\$ 0
8e. Estimated cost of Operator's environmental remediation	\$ 0
8f. Estimated other costs	\$ 4,000,000
	Amount to date. Accouting doesn't differentiate between
Describe:	remd. and emerg. resp
8g. Estimated total costs (sum of above)	\$ 4,000,000
	ų 1,000,000
PART E - ADDITIONAL OPERATING INFORMATION	
1. Estimated pressure at the point and time of the Accident (psig):	1,500.00
2. Maximum Operating Pressure (MOP) at the point and time of the	
Accident (psig):	800.00
3. Describe the pressure on the system or facility relating to the	Dressure succeeded MOD, but did not succeed 44,00% of MOD
Accident (psig):	Pressure exceeded MOP, but did not exceed 110% of MOP
4. Not including pressure reductions required by PHMSA regulations	
(such as for repairs and pipe movement), was the system or facility	
relating to the Accident operating under an established pressure	No
restriction with pressure limits below those normally allowed by the	
MOP?	
 If Yes, Complete 4.a and 4.b below: 	
4a. Did the pressure exceed this established pressure	
restriction?	
4b. Was this pressure restriction mandated by PHMSA or the	
State?	
5. Was "Onshore Pipeline, Including Valve Sites" OR "Offshore	
Pipeline, Including Riser and Riser Bend" selected in PART C, Question	Yes
2?	
- If Yes - (Complete 5a. – 5f. below)	
- If Yes - (<i>Complete 5a. – 5f. below</i>) 5a. Type of upstream valve used to initially isolate release	Monual
	Manual
5a. Type of upstream valve used to initially isolate release	
5a. Type of upstream valve used to initially isolate release source:	Manual Manual
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release	
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source:	Manual 89,760
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools?	Manual
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation?	Manual 89,760
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation?	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves - Tight or mitered pipe bends	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's,	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.)	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) - Extra thick pipe wall (applicable only for magnetic	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) - Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools)	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) - Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) - Other -	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) - Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) - Other -	Manual 89,760 Yes
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) - Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) - Other - - If Other, Describe:	Manual 89,760 Yes (select all that apply)
5a. Type of upstream valve used to initially isolate release source: 5b. Type of downstream valve used to initially isolate release source: 5c. Length of segment isolated between valves (ft): 5d. Is the pipeline configured to accommodate internal inspection tools? - If No, Which physical features limit tool accommodation? - Changes in line pipe diameter - Presence of unsuitable mainline valves - Tight or mitered pipe bends - Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) - Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) - Other - - If Other, Describe: 5e. For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool	Manual 89,760 Yes (select all that apply)

Evenesive debris or cools way or other wall builder	
Excessive debris or scale, wax, or other wall buildup	
Low operating pressure(s) Low flow or absence of flow	
Low now of absence of now Incompatible commodity	
- Other -	
- Other If Other, Describe:	
5f. Function of pipeline system:	=< 20% SMYS Regulated Trunkline/Transmission
6. Was a Supervisory Control and Data Acquisition (SCADA)-based	· · · · · · · · · · · · · · · · · · ·
system in place on the pipeline or facility involved in the Accident?	No
If Yes -	
6a. Was it operating at the time of the Accident?	
6b. Was it fully functional at the time of the Accident?	
6c. Did SCADA-based information (such as alarm(s),	
alert(s), event(s), and/or volume calculations) assist with	
the detection of the Accident?	
6d. Did SCADA-based information (such as alarm(s),	
alert(s), event(s), and/or volume calculations) assist with	
the confirmation of the Accident?	
7. Was a CPM leak detection system in place on the pipeline or facility	No
involved in the Accident?	
- If Yes:	
7a. Was it operating at the time of the Accident?	
7b. Was it fully functional at the time of the Accident?	
7c. Did CPM leak detection system information (such as	
alarm(s), alert(s), event(s), and/or volume calculations) assist	
with the detection of the Accident?	
7d. Did CPM leak detection system information (such as alarm(s), alert(s), event(s), and/or volume calculations) assist	
with the confirmation of the Accident?	
8. How was the Accident initially identified for the Operator?	Air Patrol
- If Other, Specify:	
8a. If "Controller", "Local Operating Personnel", including	
contractors", "Air Patrol", or "Guard Patrol by Operator or its	Contractor working for the Operator
contractor" is selected in Question 8, specify the following:	
9. Was an investigation initiated into whether or not the controller(s) or	
control room issues were the cause of or a contributing factor to the	No, the facility was not monitored by a controller(s) at the time of the Accident
Accident?	
- If No, the Operator did not find that an investigation of the	
controller(s) actions or control room issues was necessary due to:	
(provide an explanation for why the operator did not investigate)	
- If Yes, specify investigation result(s): (select all that apply)	
 Investigation reviewed work schedule rotations, 	
continuous hours of service (while working for the Operator), and other factors associated with fatigue	
 Investigation did NOT review work schedule rotations, 	
continuous hours of service (while working for the	
Operator), and other factors associated with fatigue	
Provide an explanation for why not:	
 Investigation identified no control room issues 	
Investigation identified no controller issues	
 Investigation identified incorrect controller action or 	
controller error	
- Investigation identified that fatigue may have affected the	
controller(s) involved or impacted the involved controller(s)	
response	
 Investigation identified incorrect procedures 	
 Investigation identified incorrect control room equipment 	
operation	
- Investigation identified maintenance activities that affected	
control room operations, procedures, and/or controller	
response	
Investigation identified areas other than those above: Describe:	
Describe:	
PART F - DRUG & ALCOHOL TESTING INFORMATION	
 As a result of this Accident, were any Operator employees tested under the post-accident drug and alcohol testing requirements of DOT's 	No
1. As a result of this Accident, were any Operator employees tested	No
 As a result of this Accident, were any Operator employees tested under the post-accident drug and alcohol testing requirements of DOT's 	No
 As a result of this Accident, were any Operator employees tested under the post-accident drug and alcohol testing requirements of DOT's Drug & Alcohol Testing regulations? If Yes: 	No
 As a result of this Accident, were any Operator employees tested under the post-accident drug and alcohol testing requirements of DOT's Drug & Alcohol Testing regulations? 	No

2. As a result of this Accident, were any Operator contractor employees	
tested under the post-accident drug and alcohol testing requirements of	No
DOT's Drug & Alcohol Testing regulations?	
- If Yes:	•
2a. Specify how many were tested:	
2b. Specify how many failed:	
PART G – APPARENT CAUSE	
Select only one box from PART G in shaded column on left represen	ting the APPARENT Cause of the Accident, and answer
the questions on the right. Describe secondary, contributing or root	causes of the Accident in the narrative (PART H).
Apparent Cause:	G7 - Incorrect Operation
G1 - Corrosion Failure - only one sub-cause can be picked from shad	ded left-hand column
Corrosion Failure – Sub Cause:	
- If External Corrosion:	
1. Results of visual examination:	
- If Other, Describe:	
2. Type of corrosion: (select all that apply)	
- Galvanic	
- Atmospheric	
- Stray Current	
- Microbiological	
- Selective Seam	
- Other:	
- If Other, Describe:	
3. The type(s) of corrosion selected in Question 2 is based on the following	n: (select all that apply)
- Field examination	
- Determined by metallurgical analysis	
- Other:	
- If Other, Describe:	
4. Was the failed item buried under the ground?	
- If Yes :	
□4a. Was failed item considered to be under cathodic	
protection at the time of the Accident?	
If Yes - Year protection started:	
4b. Was shielding, tenting, or disbonding of coating evident at	
the point of the Accident?	
4c. Has one or more Cathodic Protection Survey been	
conducted at the point of the Accident?	
If "Yes, CP Annual Survey" – Most recent year conducted:	
If "Yes, Close Interval Survey" – Most recent year conducted:	
If "Yes, Other CP Survey" – Most recent year conducted:	
- If No:	
4d. Was the failed item externally coated or painted?	
5. Was there observable damage to the coating or paint in the vicinity of	
the corrosion?	
- If Internal Corrosion:	
6. Results of visual examination:	
- Other:	
7. Type of corrosion (select all that apply): -	
- Corrosive Commodity	
- Water drop-out/Acid	
- Microbiological	
- Erosion	
- Other:	
- If Other, Describe:	
8. The cause(s) of corrosion selected in Question 7 is based on the follow	ing (select all that apply): -
- Field examination	
- Determined by metallurgical analysis	
- Other:	
- If Other, Describe:	
9. Location of corrosion (select all that apply): -	
- Low point in pipe	
- Elbow	
- Other:	
- If Other, Describe:	
10. Was the commodity treated with corrosion inhibitors or biocides?	

11. Was the interior coated or lined with protective coating?			
12. Were cleaning/dewatering pigs (or other operations) routinely			
utilized?			
13. Were corrosion coupons routinely utilized?			
Complete the following if any Corrosion Failure sub-cause is selected AND the "Item Involved in Accident" (from PART C, Question 3) is Tank/Vessel.			
14. List the year of the most recent inspections:			
14a. API Std 653 Out-of-Service Inspection			
- No Out-of-Service Inspection completed			
14b. API Std 653 In-Service Inspection			
- No In-Service Inspection completed			
Complete the following if any Corrosion Failure sub-cause is selected Question 3) is Pipe or Weld.			
15. Has one or more internal inspection tool collected data at the point of Accident?			
15a. If Yes, for each tool used, select type of internal inspection too	ol and indicate most recent year run: -		
- Magnetic Flux Leakage Tool			
Most recent y	year:		
- Ultrasonic			
Most recent y	year:		
- Geometry Most recent y	vear		
- Caliper			
Most recent y	vear:		
- Crack	<u>, , , , , , , , , , , , , , , , , , , </u>		
Most recent y	vear:		
- Hard Spot	<u>/</u>		
Most recent y	year:		
- Combination Tool			
Most recent y	year:		
- Transverse Field/Triaxial			
Most recent y	year:		
- Other			
Most recent y	year:		
Desc	cribe:		
16. Has one or more hydrotest or other pressure test been conducted sir	ince		
original construction at the point of the Accident?			
If Yes -			
Most recent year tes			
Test pressu			
17. Has one or more Direct Assessment been conducted on this segmen			
- If Yes, and an investigative dig was conducted at the point of the Accide Most recent year conducted:			
- If Yes, but the point of the Accident was not identified as a dig site:			
Most recent year conducted:			
18. Has one or more non-destructive examination been conducted at the			
point of the Accident since January 1, 2002?			
18a. If Yes, for each examination conducted since January 1, 2002, sele	ect type of non-destructive examination and indicate most		
recent year the examination was conducted:			
- Radiography			
Most recent year conducted:	i:		
- Guided Wave Ultrasonic			
Most recent year conducted:	к		
- Handheld Ultrasonic Tool			
Most recent year conducted:			
- Wet Magnetic Particle Test			
Most recent year conducted:	<u></u>		
- Dry Magnetic Particle Test			
Most recent year conducted:			
- Other			
Most recent year conducted:			
Describe: G2 - Natural Force Damage - only one sub-cause can be picked from shaded left-handed column			
Natural Force Damage – Sub-Cause:			
- If Earth Movement, NOT due to Heavy Rains/Floods:			
1. Specify:			
- If Other, Describe:			
- If Heavy Rains/Floods:	·		

2. Specify:	
- If Other, Describe:	
- If Lightning:	
3. Specify:	
- If Temperature:	
4. Specify:	
- If Other, Describe:	
- If High Winds:	
- If Other Natural Force Damage:	
5. Describe:	
Complete the following if any Natural Force Damage sub-cause is sel	ected.
6. Were the natural forces causing the Accident generated in	
conjunction with an extreme weather event?	
6a. If Yes, specify: (select all that apply)	
- Hurricane	
- Tropical Storm	
- Tornado	
- Other	
- If Other, Describe:	
G3 - Excavation Damage - only one sub-cause can be picked from si	haded left-hand column
	F
Excavation Damage – Sub-Cause:	
- If Excavation Damage by Operator (First Party):	
- If Excavation Damage by Operator (First Party).	
- If Excavation Damage by Operator's Contractor (Second Party):	
- If Excavation Damage by Third Party:	
If Province Domage due to Execution Activity	
- If Previous Damage due to Excavation Activity:	
Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (fro	m PART C, Question 3) is Pipe or Weld.
1. Has one or more internal inspection tool collected data at the point of	
the Accident?	
1a. If Yes, for each tool used, select type of internal inspection tool a	nd indicate most recent year run: -
- Magnetic Flux Leakage	
Most recent year conducted: - Ultrasonic	
Most recent year conducted:	
- Geometry	
Most recent year conducted:	
- Caliper	
Most recent year conducted:	
- Crack	
Most recent year conducted:	
- Hard Spot	
Most recent year conducted:	
- Combination Tool	
Most recent year conducted:	
- Transverse Field/Triaxial	
Most recent year conducted:	
- Other Most recent year conducted:	
Describe:	
2. Do you have reason to believe that the internal inspection was	
completed BEFORE the damage was sustained?	
3. Has one or more hydrotest or other pressure test been conducted	
since original construction at the point of the Accident?	
- If Yes:	
Most recent year tested:	
Test pressure (psig):	
4. Has one or more Direct Assessment been conducted on the pipeline segment?	
- If Yes, and an investigative dig was conducted at the point of the Ac	L cident:
Most recent year conducted:	
- If Yes, but the point of the Accident was not identified as a dig site:	
Most recent year conducted:	
5. Has one or more non-destructive examination been conducted at the	
point of the Accident since January 1, 2002?	

5a. If Yes, for each examination, conducted since January 1, 2002,	select type of non-destructive examination and indicate most
recent year the examination was conducted:	
- Radiography	
Most recent year conducted:	
- Guided Wave Ultrasonic	
Most recent year conducted:	
- Handheld Ultrasonic Tool	
Most recent year conducted:	
- Wet Magnetic Particle Test	
Most recent year conducted: - Dry Magnetic Particle Test	
Most recent year conducted:	
- Other	
Most recent year conducted:	
Describe:	
Complete the following if Excavation Damage by Third Party is selec	ted as the sub-cause.
6. Did the operator get prior notification of the excavation activity?	
6a. If Yes, Notification received from: (select all that apply) -	
- One-Call System	
- Excavator	
- Contractor	
- Landowner	
Complete the following mandatory CGA-DIRT Program questions if a	iny Excavation Damage sub-cause is selected.
7. Do you want PHMSA to upload the following information to CGA-	
DIRT (www.cga-dirt.com)?	
8. Right-of-Way where event occurred: (select all that apply) -	1
- Public	
- If "Public", Specify:	
- Private	
- If "Private", Specify:	
- Pipeline Property/Easement	
- Power/Transmission Line	
- Railroad	
- Dedicated Public Utility Easement	
- Federal Land	
- Data not collected	
- Unknown/Other	
9. Type of excavator:	
10. Type of excavation equipment:	
11. Type of work performed:	
12. Was the One-Call Center notified?	
12a. If Yes, specify ticket number:	
12b. If this is a State where more than a single One-Call Center	
exists, list the name of the One-Call Center notified:	
13. Type of Locator:	
14. Were facility locate marks visible in the area of excavation?15. Were facilities marked correctly?	
16. Did the damage cause an interruption in service? 16a. If Yes, specify duration of the interruption (hours)	
	in and first level OCA DIDT Dest Osures and then, where
17. Description of the CGA-DIRT Root Cause (select only the one predor	
available as a choice, the one predominant second level CGA-DIRT Root	Cause as well).
Root Cause:	
If One-Call Notification Practices Not Sufficient, specify:	
If Locating Practices Not Sufficient, specify:	
If Excavation Practices Not Sufficient, specify: If Other/None of the Above, explain:	
- II Other/None of the Above, explain:	
G4 - Other Outside Force Damage - only one sub-cause can be selected from the shaded left-hand column	
Other Outside Force Damage Sub Causes	
Other Outside Force Damage – Sub-Cause:	
- If Nearby Industrial, Man-made, or Other Fire/Explosion as Primary	Cause of Incident:
- If Damage by Car, Truck, or Other Motorized Vehicle/Equipment NO	I Engaged in Excavation:
1. Vehicle/Equipment operated by:	
- If Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipr	nent or vessels Set Adrift or Which Have Otherwise Lost
Their Mooring:	a factor
2. Select one or more of the following IF an extreme weather event was a	
- Hurricane	

- Tropical Storm	
- Tornado	
- Heavy Rains/Flood	
- Other	
- If Other, Describe:	
- If Routine or Normal Fishing or Other Maritime Activity NOT Engage	ed in Excavation:
- If Electrical Arcing from Other Equipment or Facility:	
- In Electrical Arcing from Other Equipment of Facility.	
- If Previous Mechanical Damage NOT Related to Excavation:	
Complete Questions 3-7 ONLY IF the "Item Involved in Accident" (fro	m PAPT C. Question 3) is Pine or Weld
	III FART C, Question 3) is ripe of weld.
3. Has one or more internal inspection tool collected data at the point of	
the Accident? 3a. If Yes, for each tool used, select type of internal inspection tool and in	diante mont recent voor run:
- Magnetic Flux Leakage	
Magnetic Flox Leakage Most recent year conducted:	
- Ultrasonic	
Most recent year conducted:	
- Geometry	
Most recent year conducted:	
- Caliper	
Most recent year conducted:	
- Crack	
Most recent year conducted:	
- Hard Spot	
Most recent year conducted: - Combination Tool	
Most recent year conducted:	
- Transverse Field/Triaxial	
Most recent year conducted:	
- Other	
Most recent year conducted:	
Describe:	
4. Do you have reason to believe that the internal inspection was	
completed BEFORE the damage was sustained?	
5. Has one or more hydrotest or other pressure test been conducted	
since original construction at the point of the Accident? - If Yes:	
- If Yes. Most recent year tested:	
Test pressure (psig):	
6. Has one or more Direct Assessment been conducted on the pipeline	
segment?	
- If Yes, and an investigative dig was conducted at the point of the Accider	nt:
Most recent year conducted:	
- If Yes, but the point of the Accident was not identified as a dig site:	
Most recent year conducted:	
7. Has one or more non-destructive examination been conducted at the point of the Accident since January 1, 2002?	
7a. If Yes, for each examination conducted since January 1, 2002, s	elect type of non-destructive examination and indicate most
recent year the examination was conducted:	
- Radiography	
Most recent year conducted:	
- Guided Wave Ultrasonic	
Most recent year conducted:	
- Handheld Ultrasonic Tool	
Most recent year conducted: - Wet Magnetic Particle Test	
Most recent year conducted:	
- Dry Magnetic Particle Test	
Most recent year conducted:	
- Other	
Most recent year conducted:	
Describe:	
- If Intentional Damage:	
8. Specify:	
- If Other, Describe:	
- If Other Outside Force Damage: 9. Describe:	
G5 - Material Failure of Pipe or Weld - only one sub-cause can be	selected from the shaded left-hand column

Use this section to report material failures ONLY IF the "Item Involved in Accident" (from PART C, Question 3) is "Pipe" or "Weld."	
Material Failure of Pipe or Weld – Sub-Cause:	
1. The sub-cause selected below is based on the following: (select all that	it apply)
- Field Examination	
Determined by Metallurgical Analysis	
- Other Analysis	
 If "Other Analysis", Describe: Sub-cause is Tentative or Suspected; Still Under Investigation 	
(Supplemental Report required)	
- If Construction, Installation, or Fabrication-related:	
2. List contributing factors: (select all that apply)	
- Fatigue or Vibration-related	
Specify:	
- If Other, Describe:	
- Mechanical Stress: - Other	
- Other - If Other, Describe:	
- If Original Manufacturing-related (NOT girth weld or other welds for	med in the field):
2. List contributing factors: (select all that apply)	
- Fatigue or Vibration-related:	
Specify:	
- If Other, Describe:	
- Mechanical Stress:	
- Other - If Other, Describe:	
- If Environmental Cracking-related:	
3. Specify:	
- Other - Describe:	
Complete the following if any Material Failure of Pipe or Weld sub-ca	use is selected.
4. Additional factors: (select all that apply):	
- Dent	
- Gouge	
- Pipe Bend	
- Arc Burn - Crack	
- Lack of Fusion	
- Lamination	
- Buckle	
- Wrinkle	
- Misalignment	
- Burnt Steel	
- Other:	
- If Other, Describe: 5. Has one or more internal inspection tool collected data at the point of	
the Accident?	
5a. If Yes, for each tool used, select type of internal inspection tool a	nd indicate most recent year run:
- Magnetic Flux Leakage	
Most recent year run:	
- Ultrasonic	
Most recent year run:	
- Geometry	
Most recent year run:	
Most recent year run:	
- Crack	
Most recent year run:	
- Hard Spot	
Most recent year run:	
- Combination Tool	
Most recent year run:	
- Transverse Field/Triaxial	
Most recent year run:	
- Other	
Most recent year run: Describe:	
6. Has one or more hydrotest or other pressure test been conducted	
since original construction at the point of the Accident?	

- If Yes:	
Most recent year tested:	
Test pressure (psig):	
Has one or more Direct Assessment been conducted on the pipeline segment?	
- If Yes, and an investigative dig was conducted at the point of the Ad	icident -
Most recent year conducted:	
- If Yes, but the point of the Accident was not identified as a dig site -	1
Most recent year conducted: 8. Has one or more non-destructive examination(s) been conducted at	
the point of the Accident since January 1, 2002?	
 8a. If Yes, for each examination conducted since January 1, 2002, s recent year the examination was conducted: - 	elect type of non-destructive examination and indicate most
- Radiography	
Most recent year conducted:	
- Guided Wave Ultrasonic	
Most recent year conducted:	
- Handheld Ultrasonic Tool	
Most recent year conducted:	
- Wet Magnetic Particle Test	
Most recent year conducted:	
- Dry Magnetic Particle Test	
Most recent year conducted: - Other	
Most recent year conducted:	
Describe:	
G6 - Equipment Failure - only one sub-cause can be selected from t	he shaded left-hand column
Equipment Failure – Sub-Cause:	
- If Malfunction of Control/Relief Equipment:	•
1. Specify: (select all that apply) -	
- Control Valve	
- Instrumentation	
- SCADA	
- Communications	
- Block Valve	
- Check Valve	
- Relief Valve	
- Power Failure - Stopple/Control Fitting	
- ESD System Failure	
- Other	
- If Other – Describe:	
- If Pump or Pump-related Equipment:	
2. Specify:	
- If Other – Describe:	
- If Threaded Connection/Coupling Failure:	
3. Specify:	
- If Other – Describe:	
- If Non-threaded Connection Failure:	I
4. Specify:	
- If Other – Describe:	
- If Defective or Loose Tubing or Fitting:	
- If Failure of Equipment Body (except Pump), Tank Plate, or other M	aterial:
- If Other Equipment Failure:	
5. Describe:	
Complete the following if any Equipment Failure sub-cause is selected	A
6. Additional factors that contributed to the equipment failure: (select all that apply)	
6. Additional factors that contributed to the equipment failure: (select all the	
 Additional factors that contributed to the equipment failure: (select all the select all the selec	
- Excessive vibration	
- Excessive vibration - Overpressurization	
- Excessive vibration - Overpressurization - No support or loss of support	
- Excessive vibration - Overpressurization - No support or loss of support - Manufacturing defect	
- Excessive vibration - Overpressurization - No support or loss of support	

	-
- Mismatched items (different manufacturer for tubing and tubing	
fittings)	
- Dissimilar metals	
- Breakdown of soft goods due to compatibility issues with	
transported commodity - Valve vault or valve can contributed to the release	
- Valve valit of valve can contributed to the release - Alarm/status failure	
- Alamistatus faiture - Misalignment	
- Thermal stress	
- Other	
- If Other, Describe:	
G7 - Incorrect Operation - only one sub-cause can be selected from	the shaded left-hand column
Incorrect Operation – Sub-Cause:	Pipeline or Equipment Overpressured
- If Damage by Operator or Operator's Contractor NOT Related to Exe	cavation and NOT due to Motorized Vehicle/Equipment
Damage:	
- If Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or	r Overflow:
1. Specify: - If Other. Describe:	I
If Valve Left or Placed in Wrong Position, but NOT Resulting in a Ta Overpressure:	nk, Vessel, or Sump/Separator Overflow or Facility
- If Pipeline or Equipment Overpressured:	
- If Equipment Not Installed Properly:	
- If Wrong Equipment Specified or Installed:	
- If Other Incorrect Operation:	
2. Describe:	
Complete the following if any Incorrect Operation sub-cause is select 3. Was this Accident related to (select all that apply): -	ited.
- Inadequate procedure	
- No procedure established	Yes
- Failure to follow procedure	
- Other:	
- If Other, Describe:	Name at an and the second the second
4. What category type was the activity that caused the Accident?5. Was the task(s) that led to the Accident identified as a covered task	Normal operating conditions
in your Operator Qualification Program?	No
5a. If Yes, were the individuals performing the task(s) qualified for the task(s)?	
G8 - Other Accident Cause - only one sub-cause can be selected from the shaded left-hand column	
Other Accident Cause – Sub-Cause:	
- If Miscellaneous:	
1. Describe:	
- If Unknown: 2. Specify:	
PART H - NARRATIVE DESCRIPTION OF THE ACCIDENT	
A rupture of the crude oil pipeline operated by Bridger Lake, LLC occurred while the pipeline was on a scheduled monthly one-day downtime period for storage tank measurements. The tank volume measurements are taken and used to compare with lease operators stated input quantities. The pipeline¿s main manual valve to the storage tank is closed during this period to prevent additional flow into the tank during measurement. The Bridger Lake employee indicated that a third-party began introducing additional crude oil into the pipeline during this time. In such a case, the extra input of oil led to an overpressurization of the pipeline that resulted in the failure at the weakest spot along the pipeline, in this case, a dent. The dent occurred at some point	

The Bridger Lake employee became aware of the spill on Monday morning, April 5, 2010 because the pipeline pressure was extremely low, a secondly, the line ¿flyer reported a dark spot in the snow between mile post 16 and 17.

File Full Name

PART I - PREPARER AND AUTHORIZED SIGNATURE	
Preparer's Name	Karen Courtman
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Date	05/25/2011

Kiefner Forensic Metallurgical Analysis Report

This document is on file at PHMSA