ripenne System: H-19/		Operator: Do	JIIIIIIOII TTaiisiiiissioii		
Location: Taylor Ridge, Marsh	all County	Date of Occurrence: October 23, 2008			
Medium Released: Natural Ga	as	Quantity: Not Provided			
PHMSA Arrival Time & Date:	January 9, 2009	Total Damages	\$ 13,433		
Investigation Responsibility:	X State PHMS	A NTSB	Other		
Company Reported Apparent Car	use: Corrosion		X Excavation		
Natural Forces	Incorrect Ope	eration	Other Outside Force Damage		
Material and/or Welds	Equipment ar	nd Operations	Other		
Leak Yes Fire Explosion	No No No Number of Pe	ersons <u>NA</u>	Area NA		
	Narrative S	Summarv			
-			tion to make them aware of the basic scenario and		
DTI submitted a nullification letter REPORTABLE INCIDENT.	to the Information Officer	which indicated	this event did NOT meet the criteria of a		
This event was investigated by the WV PSC at the request of the RD, Eastern Region. The WV PSC investigation was deferred with the knowledge that this event would not meet the threshold criteria to be classified as an incident. There was no fire, explosion, evacuation, or injuries.					
While constructing a new cross-over connection between existing transmission lines H-197 and TL-558 the backhoe operator snagged the top of an abandoned tap on H-197 about 3" below grade. The existence of the tap was unknown to the construction crew and was not shown on the existing plant drawings. The "original" drawing (5-29-1958) did not show the existence of the 2" tap, but did note modifications done to the yard piping in 1990. The 2" tap is believed to be a pre-code component that pre-dates the drawing. The tap was damaged sufficiently to cause a leak, but the gas did not ignite. The dig-in occurred with the line in service and operating at 250 psig. Pressure was reduced to 50 psig to allow the line to be repaired. The dig-in occurred at 10:10 AM and repairs were completed at 3:30 PM. Crews left the site at 6:30 PM, October 23.					
Region/State: Eastern / West Virg	ginia	Reviewed by: I	David A. Hippchen		
Principal Investigator: Edwin D.	Clarkson	Title: Senior En	ngineer, Gas Pipeline Safety Section		
Date: May 28, 2009		Date: May 28, 2009			

Failure Location & Response				
Location (City, Township, Range, County/Parish): (Acquire Maj				(Acquire Map)
Taylor Ridge, Franklin District, Marshall C Map – Appendix 13	ounty			
Address or M.P. on Pipeline:	(1)	Type of Area (Rural, C	tv)·	(1)
39.83884 N		Rural	ity).	
80.77055 W				
Date: October 23, 2008		Time of Failure: 10:1	0 AM	
Time Detected: 10:10 AM		Time Located: 10:10	AM	
How Located:				
Dig-in during excavation activities				
NRC Report #: (Attach Report)	Time Reported to N	RC:	Repor	rted by:
888046	4:12 PM		Jim S	hafer, Dominion Transmission
Type of Pipeline:				
Gas Distribution	Gas Transmission	Hazardo	ıs Liquid	LNG
LP X	Interstate Gas	Interstate L	quid	LNG Facility
Municipal	Intrastate Gas	Intrastate L	quid	
Public Utility	Jurisdictional Gas Gather	ing Offshore Li	quid	
Master Meter	Offshore Gas	Jurisdiction	al Liquid Gat	thering
	Offshore Gas - High H ₂ S	CO ₂		
Pipeline Configuration (Regulator Station, I Existing regulator station on piping run between these two pipelines. Pipeline facility that date the statement of	ween pipelines H-197	and TL-558. Operator v		
Operator/Owner Information				
Owner Descriptor Transmission Inc.	Operaior/Own	Ţ.		Tu a
Owner: Dominion Transmission, Inc. Address:		Operator: Dominion T Address:	ransimssic	on, mc.
445 West Main Street		Address: 445 West Main Street		
Clarksburg, WV 26301		Clarksburg, WV 2630	1	
			G1	
Company Official: Jim Shafer		Company Official: Jin		T
Phone No.: 304-627-3430 Fax No.: 1		Phone No. 304-627-34	30 .	Fax No. Not Avail.
<u>Drug and Alcohol Testing Program Contacts</u> X N/A				
Drug Program Contact & Phone:				
Alcohol Program Contact & Phone:				
	Dam	ages		
Product/Gas Loss or Spill Not Avail	able	Estimated Property Da	mage \$	Not Available
Amount Recovered		Associated Damages ⁽³⁾	\$	NA

¹ Photo documentation

² Initial volume lost or spilled

³ Including cleanup cost

		Damages				
Estimated Amount \$	13,433					
Description of Property Dam	age: Damaged valve a	and nipple				
Customers out of Service:	X Yes	No	Nu	mber: <u>1</u>		
Suppliers out of Service:	Yes	X No		mber:		
11						
		Fatalities and In	ijuries			
Fatalities:	Yes	X No Compa	ny:	Contrac	tor:	Public:
Injuries - Hospitalization:	=		ny:	Contrac	tor:	Public:
Injuries - Non-Hospitalization			ny:		tor:	-
Total Injuries (including Non	ı-Hospitalization):	Compa	ny:	Contrac	tor:	Public:
			Yrs w/	Yrs.		
Name	Job l	Function	Comp.	Exp.	Ту	pe of Injury
		Drug/Alcohol T	Testing			X N/A
Were all employees that coul		he incident, post-a	ccident test	ed within the 2	hour time	e frame for alcohol or
the 32 hour time frame for all Yes No	I other drugs?					
				Resul	ts	
Job Function	Test Date & Time	Loca	tion	Pos Neg		Type of Drug
					$\dashv \vdash$	
					声十	
	1	1				
	System Description					

Describe the Operator's System: The failure occurred by dig-in to a 2" nipple and valve (abandoned	tap) on pipeline H-197.
= -	
Integrity Test A	fter Failure N/A
Pressure Test Conducted in place? (Conducted on Failed Component	nts or Associated Piping): X Yes No
If NO, Tested after removal?	Yes No
Method: Line operating pressure and leak test.	
Describe any failures during the test. None.	
Outside Fore	ce Damage X N/A
Responsible Party:	Telephone No.:
Address:	
Work Being Performed:	
Equipment Involved:	Called One Call System? Yes No
One Call Name:	One Call Report # (4)
Notice Date:	Time:
Response Date:	Time:
Details of Response:	
Was Location Marked According to Procedures? Yes	No
Pipeline Marking Type:	(1) Location:
State Law Damage Prevention Program Followed? Yes	No No State Law
Notice Required: Yes No Re	esponse Required: Yes No
Was Operator Member of State One Call? Yes No W	Vas Operator on Site? Yes No
Did a deficiency in the Public Awareness Program contribute to the	accident? Yes No
Is OSHA Notification Required? Yes No	

⁴ Attach copy of one-call report

Weather	· Conditi	ons	X N/A	
Temperature:	Wind (Direction & Speed):		
Climate (Snow, Rain):	Humid	ity:		
Was Incident preceded by a rapid weather change?	☐ No			
Weather Conditions Prior to Incident (Cloud Cover, Ceiling Hei	ghts, Sno	w, Rain, Fog):		
Class Location/High	n Conseq	uence Area	N/A	
Class Location: 1 X 2 3 4 Determination:	HCA A	rea? Yes X No N/A ination:		
Odorization Required? Yes No X N/A				
Maps &	Dagarda		N/A	
Are Maps and Records Current? (5) Yes X No	Kecorus		IV/A	
Comments:				
The "original" drawing (5-29-1958) did not show the existence of			ard piping	
in 1990. The 2" tap is believed to be a pre-code component that	pre-dates	s the drawing.		
Operator/Cont	tractor E	Error	□ N/A	
Name: Don Pethel		Job Function: Equipment Operator		
Title: [Not available]		Years of Experience: [Not available]		
Training (Type of Training, Background): Company Internal Tra	aining			
Was the person "Operator Qualified" as applicable to a precurso	r abnorm	al operating condition? X Yes No	N/A	
Was qualified individual suspended from performing covered ta	Was qualified individual suspended from performing covered task X Yes No NA			
Type of Error (Inadvertent Operation of a Valve): Did not antic	ipate find	ing tap on line at less than standard cover.		
Procedures that are required:				
See Work Procedure Number OQ-040-GL – Appendix 10 Actions that were taken:				
Hand digging to expose pipe; removing cover with mechanized	equipme	nt.		
Pre-Job Meeting (Construction, Maintenance, Blow Down, Purg				
Prevention of Accidental Ignition (Tag & Lock Out, Hot Weld F	Permit): N	A		
Procedures conducted for Accidental Ignition: NA				
Was a Company Inspector on the Job? X Yes No				
Was an Inspection conducted on this portion of the job? X Yes No				
Additional Actions (Contributing factors may include number of	f hours at	work prior to failure or time of day work be	ing	
conducted): NA				

5 Obtain copies of maps and records

	Maps & Records				
Are Maps and Records Current? (5)	Yes X No				
Training Procedures:					
NA					
Operation Procedures:					
NA					
Controller Activities:					
NA	T				
Name	Title	Years Experience	Hours on Duty Prior to Failure	Shift	
Alarm Parameters: NA					
High/Low Pressure Shutdown: NA					
Flow Rate: NA					
Procedures for Clearing Alarms: NA	Procedures for Clearing Alarms: NA				
Type of Alarm: NA					
Company Response Procedures for Abnormal Operations: NA					
Over/Short Line Balance Procedures: NA					
Frequency of Over/Short Line Balance: NA					
Additional Actions: NA					
	Additional Actions Taken b			□ N/A	
Make notes regarding the emergency and Failure Investigation Procedures (Pressure reduction, Reinforced Squeeze Off, Clean Up, Use of Evacuators, Line Purging, closing Additional Valves, Double Block and Bleed, Continue Operating downstream					

Pumps):

Additional Actions Taken by the Operator \[\sum N/A \]
Dominion revoked the OQ credentials for the two individuals directly involved with the dig-in: Don Pethel and Jesse Ramsey. These individuals were to be re-qualified for subsequent work.
Dominion revised the equipment drawing for XS-2118 to show the presence of the abandoned 2" tap on H-197 (2" 600# BV, screw [threaded connection], 12' from new crossover). (Appendix 2 – Appendix 3)
Dominion placed a field marker on site to identify the abandoned 2" tap location. Dominion did not place tub enclosure around abandoned facility, however.
Dominion will emphasize appropriate marking in the field and adequate as-built drawings during employee training.

	Photo Documentation (1)				
	Overall Area from best possible view. Pictures from the four points of the compass. Failed Component, Operator Action, Damages in Area, Address Markings, etc.				
Photo No.	Description (Appendix 4)	Photo No.	Description		
1	Construction Site Close-up				
2	Construction Site General				
3	Damaged Valve and Nipple				
4	Post-Incident General View (1)				
5	Close-up of Marker				
6	Post-Incident General View (2)				
7	7 Post-Incident General View (3)				
Camera	Camera Type: Unknown Make of Digital by Dominion Transmission				

Persons Interviewed			
Name Title Phone Number			
Shawn Miller	Compliance Engineer	304-627-3404	
Joseph Pernell Corrosion Tech		304-266-2742	
William Everitt	Operations Supervisor	304-627-3098	
Jeremy Smith	Operations Superintendent	304-269-6933	

Event Log				
Sequence of events prior, during, and after the incident by time. (Consider the events of all parties involved in the incident, Fire Department and Police reports, Operator Logs and other government agencies.)				
Time / Date	Event			
	See DTI Accident Investigation Appendix 1			

Failure Investigation Documentation Log						
Operator: Dominion Transmission, Inc. Unit #: 2714 CPF #: N			A	Date:	Date: 10/23/08	
Appendix Documentation Description		Date		Posted on eb		
Number	1		Received	Yes	No	
1	DTI Accident Investigation			1/9/09	NA	
2	XS-2118 Original Drawing			1/9/09	NA	
3	XS-2118 Current Drawing			1/9/09	NA	
4	Photographs (7)			6/12/09	NA	
5	TFIR 36970			1/9/09	NA	
6	TFIR 36971			1/9/09	NA	
7	TFIR 36976			1/9/09	NA	
8	TFIR 36986		1/9/09	NA		
9	TFIR 37040			1/9/09	NA	
10	Work Procedure Number OQ-040	-GL		1/9/09	NA	
11	Miss Utility Ticket #2380341			1/9/09	NA	
12	Miss Utility Ticket #2900038			1/9/09	NA	
13	Incident Location Map			11/8/2010	NA	

From: Jeremy Smith

Date: 11/3/2008

Category: Accident Investigation

Subject: H-197 Line Hit Investigation

Overview

H-197 near Taylors Ridge @ XS-2118 in Marshall County, WV was exposed to install a 12" split tee for a hot tap. The line was spotted by hand digging then the excavator was used with a spotter to expand the hole to accommodate the fitting and welders. While clearing off the topsoil over the pipe a 2" valve and nipple that was stubbed off under ground was struck. The valve was only 3" below the ground. H-197 was at 275 psi. There was no indication or record of the tap being there. Pressure was lowered to less than 50 psi and a new valve and nipple was installed. Fittings were tightened and leak checked. The Certainteed plant was the only customer we could not keep in gas.

DOT Reportable Incident? N

*** NRC Report #888046

***Incident was initially reported in case the damage was more than the \$50,000 threshold. It was later determined to be less than \$50,000.

Accident Chronology

<u>Date</u> 10/23/08	Time 9:00 AM	Description of Event Hand digging began on H-197 by Southern Area Support (SAS) to expose line for 12" split tee. Line was spotted and then excavated with equipment. Don Pethel was equipment operator, Jesse Ramsey spotter.
10/23/08	10:10 AM	A 2" nipple and valve was struck and broke while continuing to remove cover from H-197. The valve was only 3" below grade. Equipment was shut off and employees evacuated the site. Pressure was approximately 275 psi.
10/23/08	10:12 AM	All employees were safe and accounted for then Jeff Hull/Jeremy Smith were notified by area employees.

10/23/08	10:15 AM	Gas Control was notified. Gas Control had notified Hope Gas and Spectra of the incident. Spectra dispatched meter specialist to Taylor Ridge M&R.
10/23/08	10:30 AM	Jim Merritt arrived on site and contacted Jeremy Smith/Jeff Hull.
10/23/08	11:30 AM	Kenny Davis and Bernard Grisby were contacted @ West Union extraction plant and dispatched to Taylor Ridge M&R to assist with pressure control.
10/23/08	12:00 PM	Gas Control ask Spectra to lower pressure to 100 psi.
10/23/08	1:00 PM	Spectra lowered the pressure from 275 psi to 100 psi.
10/23/08	1:20 PM	SAS could not repair leak at that pressure.
10/23/08	1:45 PM	Kenny Davis and Bernard Grisby lowered pressure to 75 psi on the DTI regulator runs.
10/23/08	2:30 PM	SAS could not repair leak at that pressure
10/23/08	3:00 PM	Pressure was lowered again to 50 psi
10/23/08	3:21 PM	SAS repaired leak with new 2" nipple and valve.
10/23/08	3:30 PM	Pressure was increased until the original set point of 275 psi was reached. Leak checks were performed periodically until 275 psi was achieved. Gas Control, Hope Gas and Spectra were all contacted.
10/23/08	6:30 PM	Pressure through regulation had been set and holding 275 psi. Gas Control was notified by Kenny Davis that they were leaving the M&R.

Drug/Alcohol Testing

<u>Date</u> <u>Time</u> <u>Name of Person Tested</u> <u>Type of Test</u>

Testing not required per Jim Parsons/Jim Shafer

List of Samples Sent for Analysis

<u>Date</u> <u>Sample Type</u> <u>Description</u> <u>Name of Laboratory</u>

Root Cause Analysis

Investigation

1. Investigation of incident revealed that the valve was only 3" deep. The line had been located with a locator then exposed by hand digging. Once exposed the excavator was used to expose more pipe. It is nearly impossible to locate buried taps that do not come above grade unless someone is aware of their location or they are marked on a drawing. There was no gate site drawing for this location. Locator technology does an acceptable job for line location and an approximate depth but does not indicate the location of taps and such in a vertical position. There was no marker indicating the buried valve. It should have been placed in a valve tub. Both the equipment operator and spotter were OQ qualified and very experienced @ excavating.

Causes

- 1. There was no gate junction-drawing showing the location of the buried valve.
- 2. There were no above ground markings indicating the buried valve.
- 3. Not a known way of finding a buried tap on a pipeline
- 4. Current locator technology does not indicate taps, valves, etc. while locating a pipeline.

Countermeasures

- 1. Operations is working with Maps and Records to develop a gate site drawing for this location. Tap and valve will be on the drawing
- 2. Valve has been painted orange and will be encompassed in a tub so that it will remain above ground and can be seen.
- 3. Valve indication marker will be install @ valve location.
- Awareness through the "Near Miss" program. Hope to educate people on the importance of marking underground facilities in the field and on drawings.

Lessons Learned

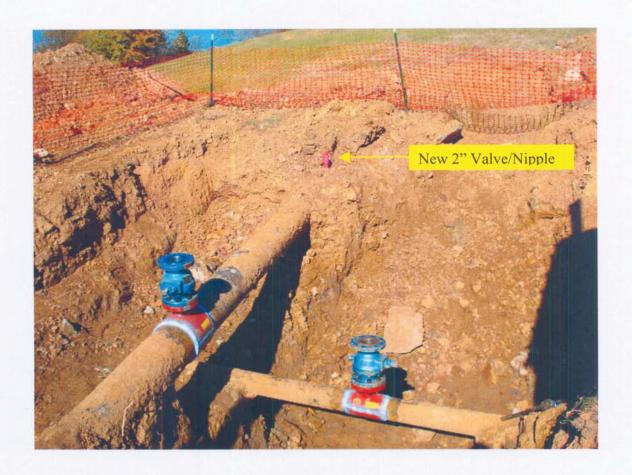
- 1. There was no gate junction drawing on record. Field Operations is working with Maps and Records to develop a gate junction drawing.
- 2. 2" valve contacted by excavator with no above ground marker. Operations is installing a valve tub and marker to prevent reoccurrence @ this location.
- 3. There is a high probability that there are many more of these unknown buried facilities. There is a chance of contacting these other buried facilities in the future. It is prudent that we discuss with our employees the importance of not marking buried piping, valves, etc. Whenever possible the avoidance of burying this equipment all together is the best practice. When this cannot be done the buried piping should be well marked and documented.

Additional Information

- There were no injuries, fires or excavations.
- One call had been placed and cleared. GPS Coordinates 39.832503 / -80.774212
- Originally reported as DOT reportable. After investigation it is clear it is <u>NOT</u> DOT recordable.
- Jeff Barger, Jim Parsons, Phyllis Hinterer were all contacted during incident.
- Also spoke with Jim Shafer, Joe Kienle and the Certificates group.
- Certainteed Plant was unable to stay online due the low pressure. (Not a Firm Customer)
- The needed pressure supply to Certainteed was restored in less than 3 hours.
- OQ qualifications for excavation a pipeline were revoked for the equipment operator and the spotter.
- Bob Nutter (Safety Rep) worked on investigation with Jeremy Smith and Jim Merritt
- Gas Loss was \$13,433
- Some times were approximated.

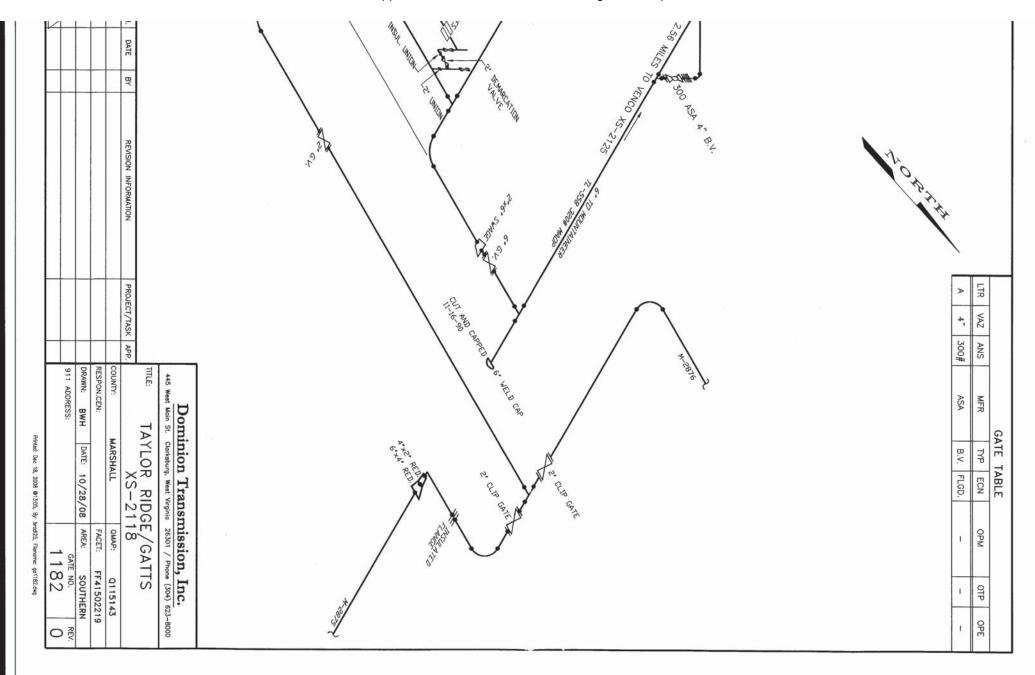
Photographs and Videos

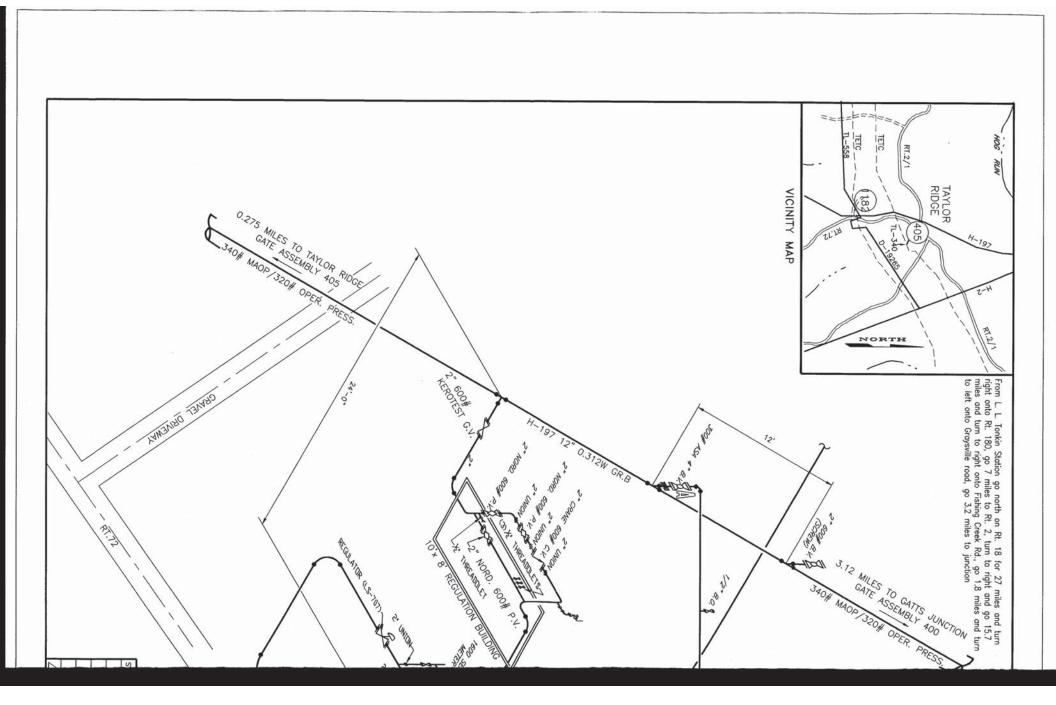
New 2" Valve and Nipple.



Damaged 2" Valve and Nipple Assembly







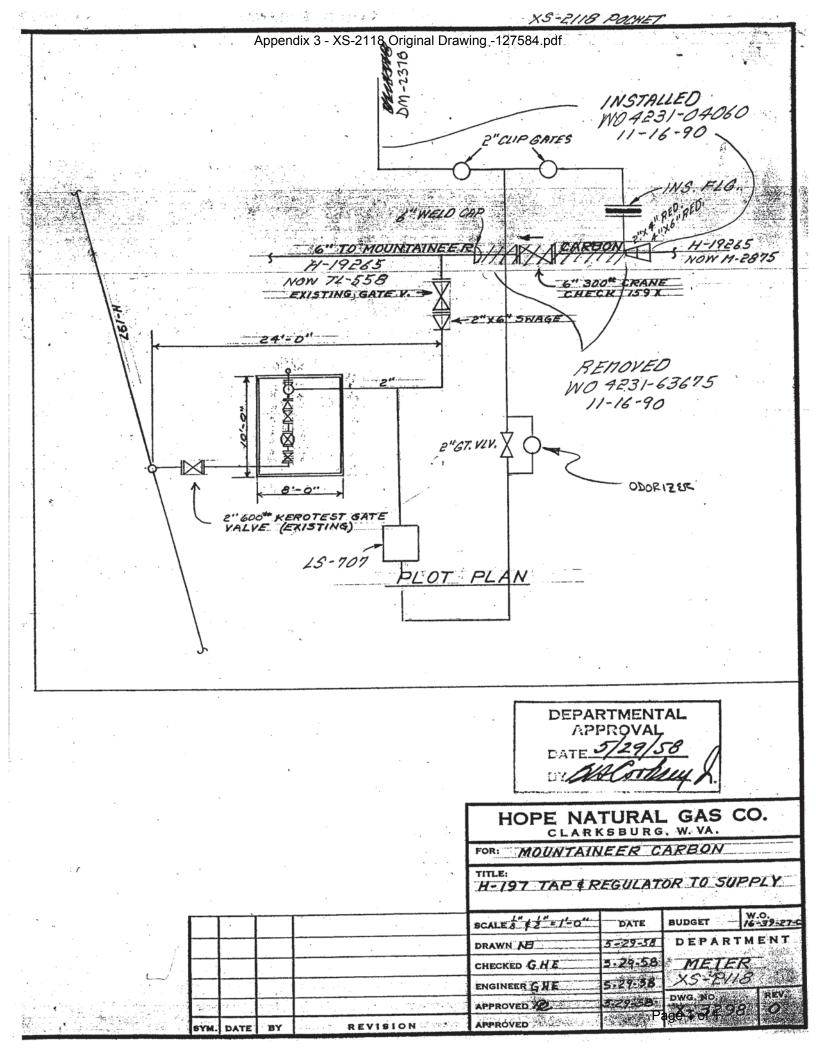


Photo 1 - Construction Site Closeup



Photo 2 -Construction Site General



Photo 3 - Damaged Valve and Nipple



Photo 4 – Post Incident General View



Photo 5 – Close up of Marker



Photo 6 – Post Incident General View (2)



Photo 6 – Post Incident General View (3)



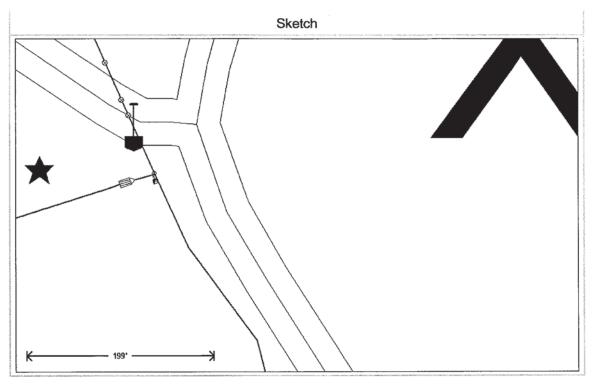


TFIR By Report Number

TFIR 36970

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ction Taken														~~~~~		
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Gas Loss		Discort	delagred del despe			,,		D'-	Dur St							Na
Did gas escape?		Blowdow Purge			Busine Funct				Run Diar (Nominal)			Blowdo	ngth	ipe		Blowdown Temp.
Purge Diameter	Pur	ge Time	Leak	Date	Leak D	uration	1									
Attachment Attachment ID	Incide	ent ID A	ttachi	ment A	Attachme	ent Ty	pe Atta	achme	ent Desc	Hyperlin	ık					



Jan 9, 2009 - 1 - 8:33:19 AM

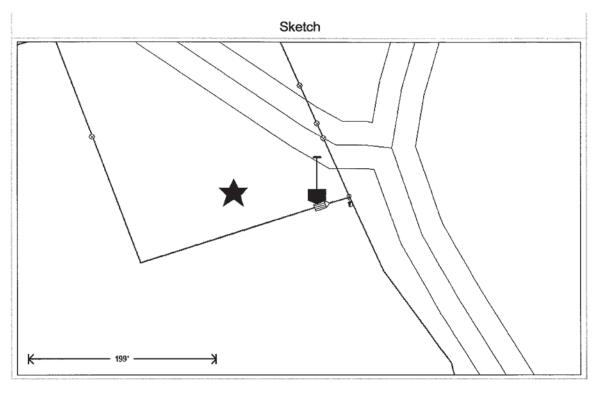


TFIR By Report Number

TFIR 36971

TFIR Report	Inspe	ection	Re	sp. Ce	nter	Cou	nty	Tow	nship	TFIR Use	er	,,,1-1,1	Co. On			one Call	Facility in
No.	Da	ite					· · · · · · · · · · · · · · · · · · ·			ID			Ticket	No.	Tick	et No.	HCA?
36971	8/29/0	3	Brid Stat	lgeport tion		Mars	hall	Fran	klin	jose415		23	80341	M. AM. AM. J. (1887) 2 M. AMAMA AP. (27)			No
Foreign/Comp	any Fa	cility	Facility	/ Туре	Fac	ility Cla	ass	*	Pipeli	ne Numbe	r	С	lass Lo	cation			
***************************************			Pipelin	ie	Trai	nsmiss	ion	TL	558			С	lass 1	************			
Reason For	Report	Be	llhole T	ype 1	Defect	Туре	Discovered By		ed By	Pipe Cov	er	So	il Type	Post of the second	ever#		
In-House Con	structio	n				on many reserved a second				Soil		Ea	rth	***************************************			
SAMS Sys ID	Survey	Statio	on Ph	ysical	Locatio	on G	PS La	atitude GPS		S Longitud	е	Dist	to Ne	arest 9	Structure		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		******************	TA	YLOR	RIDG	E	39.	83879		-80.7705	5						
Damage Desci	ription	Prope	erty Da	mage	Repo	rtable	Incid	dent T	ype	Report Nu	mbe	er	WBS T	уре	WBS Numbe	er	
						and colombia	ris madaa	e, a constitue de la constitue					Worthern collections is not		39066.1.2		
	***************************************	Rem	arks		i	***, action #1000.0000	THE STREET STREET				*******				***************************************	urane Š	
TL558 PRE E	VALUA	TION	OF PIP	ING F	OR H	OT TA	P										
etailed Pip	e Insp	ectio	n:														
Did you obser			····	Eval Fil	led O	ıt? C	orrEv	al No.	Lir	ne Location	1						
Yes	***************************************	,	No	***************************************	***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Un	der Ground	d						
Outside Diame					ness	Origii	nal W	Vall Th	ickne	ss Existin	g P	ipe	Grade	Exist	ing Coating	Existing .	Joint Coatin
6		Remaining Wan Tric			0.28		de code alla de la constitución de	Uı	nknov	vn UNKN	OW	/N		None)	None	
Existing Joint	Foota	ge Exp	osed	Mater	ial C	over A	mour	nt Tr	ench	Condition	Ту	pe	of Long	itudin	al Seam		
Weld Elec.		TO STATE OF THE ST	10	Steel			4	15				L. Mary					
Cathodic Prote	ection	Locat	ion of C	Sirth W	/elds	No. of	f Wri	nkle B	ends	Previous	Lea	k C	lamps	Previ	ous Leak Re	pair Other	***
			-non-kgratis-terrorons	erronomogoacemaaatea		v v v oden					agency construction of		0		erannere dun markere dell'elemane mar ambere e e delle	0	***
Existing Coat Cond.	ing		Cond. d Top	WW change and		Cond. Side		Coat. Cond. Bottom					Cond.		Coat. Cond. Dam. Side	Coat	. Cond. Dan Bottom
M0000000000000000000000000000000000000		-,	0.0010000000000000000000000000000000000				i Messonion	uordination s			reformació						WARRAN WARRAN
Coat. Cond. Top	Dist.	Coat	t. Cond Side	. Dist.	(Coat. C Bo	ond.			Coat. Cond Top		rittle	e Co		ond. Brittle ide		Cond. Brittle Sottom
Pipe Damage	Dam	age Lo	ocation	Cau	se of I	Damag	je L	_eak G	rade	Defect In	ispe	ectio	on Type				
None	000000000000000000000000000000000000000																
Damage Resi	ult Cu	rrent/L	.atent	Anom	aly O	rientati	on										
Ext. Corr. Kind	Ext.	Corr. Loc. Ext. Corr. Loc. Ext. Corr. Loc. Ext. Corr. % Ext. Corr. Deep Top Side Bottom Exposed Pit			st Ext. C	orr. Corrode Len.											
General	Yes			Yes		No 30						0					
ine Hit	A CALL SECTION A			1111/1 10						THE PERSON NAMED IN COLUMN TWO				- vicential de			
Reason for Line Hit	Kr		no caus) (One Call	all Tid ed In		R	esponsible Party	•	(Contac Name	t	Contact Phone	Conta Addre	

Checked Intern Corrosion?		. Corr. Kind		r. Least \ ickness	/vall	Int. C Location		i i	nt. Corr. cation Sid	1	nt. Corr. Bot	tom			Corr. d Length
No			Locustrones on Flur concept max			**************************************						manas-s-			
Int. Corr. Adj. Pip	e Corro	sion Tecl	n Dista	nce To N	learest	Girth We	lds C		ion of Exi	st. Lor	ng. Sear	n			
Fluid In Pipe?	Corrosion	Type R	emarks	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************				and the			
Soil Informatio	n				A										
Was Soil Reading or Sample Taken?	Calib	Meter orated?	So Resis		Soil Res	sistivity Type	pH of Next Pip	То	pH of Soil in Ditch	- Charles	of Flui Under Coating	d	MIC Sample Taken?	p	H Sample Taken?
ction Taken	***************************************					<u> </u>			****		***************************************			***************************************	
Action Taken	Repair Schedule		Date of Action	Lea	k Detec	cted	Dete		% LEL	% Ga	- 1	No. c			covery
Pipe Repl.		Se ₁	p 20, 08	Suspension currently in carcion and											
Repair Pressure	Pipe Re	pl. Mat'l	Isolate	d? Pipe	Repl.	Coating	Repl.	Footing	g Installed	Fro	m Line	Plus	To Line	Plus	
Testing Duration	Test Pre			Pressure Max.			t	New I	Pipe Coat Acceptat		ond.	Cl	heck Holid Re	day D pair?	etail and
Repl. Pipe Mfg.	ol. Pipe Mfg. Repl. Pipe O. D		Repl. F	ipe Wall	Repl	. Pipe Gra	ade N	MAOP	No. Leal	s Rep	paired	Test	Stations Ir	nstalle	ed
Actual Anode No	. Add'l 2	2 Ft. Expo	sed?	Hole Size	e No.	of Holes	Work	320 Perfor	med By	Contr	actor N	ame	Anode A	ttache	ed?
According to the second	Yes														
No. of Bonds	Wrinkle Remo			Girth We		1	rth We Remov			o. Wel epaire			oe Mfg. Date	2	fill Test Report
Backfill Type O	rient. of N	lew Long	. Seam	Compo	nent Ty	ype CM	SID				·····			\$	
ncroachment															
Encroachment Type	Aerial No.	Canopy Desc.	Conta Perso	2		Alternate Phone	Con	tractor/	Landowne		vestiga Complet	3	Excavate 10 FT.1	3	Monitored Activity?
Follow Up Required?		w Buildir Address	ig	Structur Type	е	Dwellin Numbe	- 1		ntact St. ddress		Conta City		Contac State	t	Contact Zip
Erosion	-					onnon on a selection of the second	•								
	Reassessi	ment Dat	e Eros	on Activi	ty Ac	tion Take	n								
Sas Loss			····	yy					,,				and the same a street of the same of		3**5/2000***
Did gas escape?		wdown o Purge?	r	Busin Func		F		un Diar ominal)			Blowdo Ler	wn Pi ngth	pe		wdown emp.
Purge Diameter	Purge T	ime Le	ak Date	Leak D	uration	1									
Attachment Attachment ID	Incident I	D Attac	hment	Attachm	ent Tvi	pe Attac	hment	Desc	Hyperlin	k					



Jan 9, 2009 - 1 - 8:34:41 AM

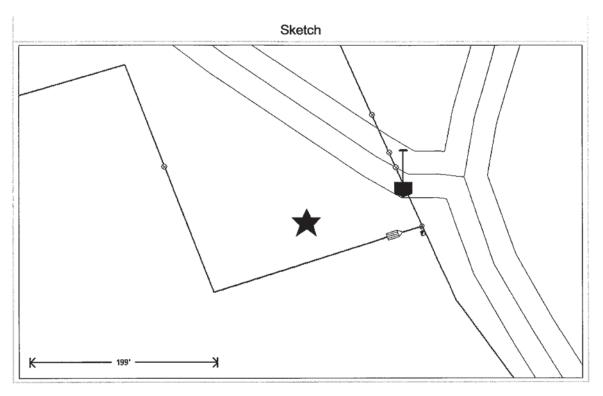


TFIR By Report Number

TFIR 36976

TFIR Report No.	Inspe Da	ction	R	esp. Ce	enter	Co	unty	То	wnshi	p TFIR		er		One C			ne Call et No.	Facility in HCA?
36976	10/24/0	08		geport smissio	n	Ma	rshal	l Fra	anklin	jose4	15		290003	38			***************************************	No
Foreign/Comp	oany Fa	cility	Facility	у Туре	Facili	ty Clas	ss	* Pi	peline	Number		Cla	ass Loc	ation		**************************************	· · · · · · · · · · · · · · · · · · ·	***************************************
***************************************			Pipelir	ie	Trans	smissic	on ł	H 19	97			Cla	ass 1	PMP () - (Ta Velena della			
Reason For	Report	Ве	ellhole T	ype [Defect 7	Гуре	Disc	overe	d By	Pipe Cov	er	So	il Type	Superior de superior	.3			
n-House Cor	structio	n			* ************************************			, , , , , , , , , , , , , , , , , , ,		Soil		Ea	rth	- Contraction				
SAMS Sys ID	Surve	y Stat	ion Pl	nysical	Locatio	n Gl	PS La	S Latitude		S Longitu	ide	Di	st. to N	eares	t Structur	re		
			TA	YLOR	SRIDG	SE	39.	83880)	-80.770	61		B-0.04747-0.001			The second second		
amage Desc	ription	Prop	erty Da	mage	Repor	table I	ncide	ent Ty	pe R	Report Nu	ımbe	er	WBS T	ype	WBS Nur	mber		
***************************************		agreement on the second			a							- Contraction of the Contraction			39066.1.	.2		
		å.	Remark	S		- PUBLICATION	. m.araroo			***************************************	*****			***************************************	***************************************		rri	
1197 HOT TA	AP INST	TALL	FULL S	SADDL	E]TO	TIE IN	TL5	58										
etailed Pip	e Insr	ectio	on:															
oid you obser				Eval Fill	ed Out	? Cor	rrEva	l No.	Line	Location	1							
'es		****	No	B.40.800000.0.0.4.0.0008.	udau, n. 1907 (n. 1907) (7 19 19 19 19 19 19 19 19 19 19 19 19 19				Und	er Groun	d							
Outside Diam	eter Remaining Wall Thic				ness	Origina	al Wa	all Thi	ckness	Existin	ıg Pi	ipe	Grade	Exist	ing Coati	ng l	Existing J	oint Coating
2				0.29				0.312	2 Grade	В	men in order cod		None	Э		None		
xisting Joint	Foota	ge Ex	posed	Materi	al Co	ver Am	ount	Tre	ench C	ondition	Ту	ре	of Long	itudin	al Seam			
Weld Elec.		enia consulutinthos	10	Steel			18				<u> </u>					Y.		
Cathodic Prot	ection	Loca	tion of (Girth W	elds 1	No. of Y	Wrinl	kle Be	ends	Previous	Lea	k C	lamps	Previ	ous Leak	Repa	air Other	
			verilität viin aan valan de di Antonio					VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV					0				0	
Existing Coat Cond.	ting		. Cond. nd Top		Coat. C		C	_	Cond. ottom				Cond. . Top		Coat. Co Dam. Si			Cond. Dam Bottom
Coat. Cond. Top	Dist.	Coa	it. Cond Side	. Dist.	Co	oat. Co Bott		Dist.	Co	oat. Cond Top		ittle	Co		ond. Brittl ide	e		ond. Brittle
Pipe Damage	Dam	age L	ocation	Caus	e of Da	amage	Le	ak Gı	rade	Defect Ir	nspe	ectio	n Type)			o. oo o o o o o o o o o o o o o o o o o	nerom en en en en el demokration en el el
None				- Andrews														
Damage Res	ult Cu	rrent/	Latent	Anoma	aly Orie	entatio	n						mp 1.7 1,3,711111117 11	,X				
Ext. Corr. Kind	Ext.	Corr.	Loc.	Ext. Co	orr. Loc			Corr.		1	. Co			Ext. (Corr. Dee	pest	Ext. Co	rr. Corrode Len.
General	No	F	· · · · · · · · · · · · · · · · · · ·	No		No												
ine Hit		**********		00000000000000000000000000000000000000	*				wa 6667		Marin 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			***********				······································
Reason for Line Hit	· Kr		ho caus		O	ne Call		æt	Re	sponsible Party)		Contact Name	t i	Contact		Contac	·

Checked Inte		Int. Con Kind	. Int.		Least V kness		Int. C Locatio		ì	Int. Corr. cation Sid	1	Corr. Loca Bottom			. Corr. ed Length
No															
Int. Corr. Adj. F	Pipe	Corrosion 7	Γech [istan	ce To N	learest G	irth We	elds C	rientat	ion of Exi	st. Long.	Seam			
		g (/1-g						1		elemente de elektra sura conserv					
Fluid In Pipe?	Corr	rosion Type	Rema	rks	occes e escolo se seceses	rrrrr - Addin in tone in account	and the second of the second o		•••••	ORIGINAL CONTRACTOR OF THE STATE OF THE STAT	- Anth-Si-Channell Abundantino				
Soil Informat	ion				- m mmymmm										
Was Soil Reading or Sample Taker	ո?	UT Mete Calibrated		Soil esisti		Soil Resis Test Ty		pH of Next Pip	То	pH of Soil in Ditch	pH of Und Coa	der	MIC Samp Taker	le	pH Sample Taken?
Action Taker	1														
Action Taken		Repair Schedule		ate o		eak Dete By	cted		ection ethod	% LEL	% Gas	No. Clar			scovery essure
Component Repl.			Oct 200												and the second
Repair Pressu	re P	ipe Repl. M	at'l Iso	lated'	? Pipe	Repl. C	oating	Repl.	Footin	g Installed	From l	ine Plus	To Lin	e Plus	
25	0							~~~						***************************************	-
Testing Duration	· ·			est Pr Ma	ressure ax.	t Repor	t New Pipe Coati Acceptab			_	C		oliday I Repair	Detail and ?	
Repl. Pipe Mfg	epl. Pipe Mfg. Repl. Pipe O. [D. Re	ol. Pip	oe Wall	Repl. F	Pipe Gra	ade N	1AOP 340	No. Leal	s Repaire	ed Test	Stations	s Instal	led
Actual Anode I	۷o. ا	Add'l 2 Ft. E	xposed	? H	ole Size	No. of	Holes	Work	- proposition in a second	med By	Contract	or Name	Anode	Attach	ned?
	N. AND COMPANY CO.	Yes						2					200		0.00
No. of Bonds	W	rinkle Bend Removed	S		irth We Reinforc			irth We Remove			o. Welds epaired	Pi	pe Mfg. Date	Withouthousen	Mill Test Report
Backfill Type	Orier	nt. of New L	ong. Se	am	Compo	nent Typ	e CM	SID					dy delended become		
Encroachme	nt	destruction described the state of the state		2	^- 										
Encroachmen Type	Αε	erial Cano		ntact	Conf		ternate Phone	Cont	ractor/	Landowne	1	tigation	Excav 10 F	- 1	Monitore Activity?
Follow Up Required?		New Bu	_	S	Structure	9	Dwellin Numbe	~ ;		ntact St.	3 1	ontact City	Conta Stat		Contact Zip
*								······································						······	
Erosion Erosion Type	Rea	ssessment	Date E	rosio	n Activi	ty Actio	n Take	n							
Gas Loss						rurenten en recorden en re		i							
Did gas escape?		Blowdow			Busin Funct		F	Pipe Ru (No	ın Diar		Blo	wdown P Length	ipe		owdown Temp.
Purge Diamete	er P	urge Time	Leak D	ate	Leak D	uration	i								
Attachment					00000000000000000000000000000000000000										
				TO PROPERTY OF						·	1-790				



Jan 9, 2009 - 1 - 8:30:35 AM

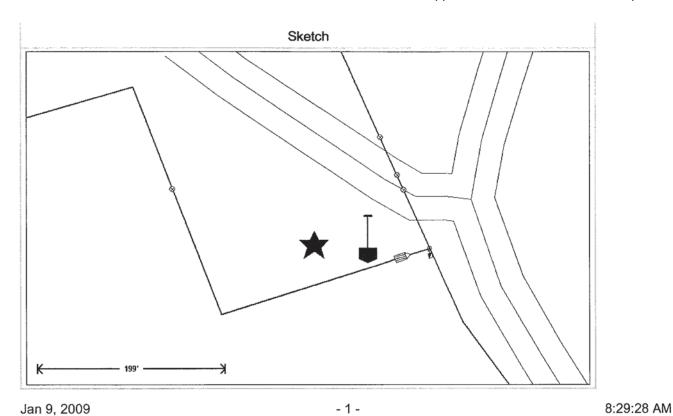


TFIR By Report Number

TFIR 36986

Common S	ectio	n:								w.w	TO THAT I WARRING		VIII.				
TFIR Report No.		ection ate	R	esp. C	enter	Со	unty	/ To	wnsh	ip TF	IR Use	er		One C ket No		One Call cket No.	Facility in HCA?
36986	10/24/0	08		geport smissi	on	Ma	rsha	III Fra	anklin	jos	se415		29000	38			No
Foreign/Comp	any Fa	cility	Facility	/ Туре	Faci	lity Clas	ss	* P	ipelir	ne Num	ber	(Class Lo	cation	1		
			Pipelir	ie	Tran	smissio	on	TL 5	58			(Class 1				
Reason For	Report	Be	ellhole T	уре	Defect	Туре	Disc	covered	d By	Pipe (Cover	S	oil Type				
In-House Con	structio	n								Soil	*************	Е	arth				
SAMS Sys ID	Surve	y Stati	ion Pl	nysical	Locati	on G	PS La	atitude	e GF	S Long	gitude	D	ist. to N	leares	t Structure		
			TA	YLOR	SRID	GE	39.	.83884	1	-80.7	77061						
Damage Desc	ription	Prop	erty Da	mage	Repo	rtable I	ncid	ent Ty	pe l	Report	Numb	er	WBS T	уре	WBS Numb	er	
						v									39066.1.2		
	Re	marks	11/1/1														
TL558 HOT T	AP INS	STALL	[FULL	SADD	LE]												
etailed Pip	e Insp	ectio	on:														
Did you obser	ve bare	pipe?	Corrl	Eval Fil	led Ou	t? Cor	rEva	al No.	Lin	e Loca	tion						
res .		out envisionation	No	ALLEGO MATERIAL STREET	and the state of t	,	uduuuuduu + udd	ibe.co.arrous/rr/ com	Unc	der Gro	und						
Outside Diame	le Diameter Remaining Wall Thickr				ness	Origina	al Wa	all Thi	cknes	s Exi	sting P	ipe	Grade	Exist	ing Coating	Existing J	loint Coatin
6				0.28				.28	0 Gra	ade B			None	е	None		
Existing Joint	Foota	ige Ex	posed	Mater	ial Co	over Am	oun	t Tre	nch (Conditio	on Ty	/pe	of Long	jitudin	al Seam		W. C. D. C.
Weld Elec.	TO THE PARTY OF TH		12	Steel	MODEL OF THE PERSON OF THE PER		45	5			000000000000000000000000000000000000000						
Cathodic Prote	ection	Locat	tion of 0	Sirth W	/elds	No. of \	Wrin	kle Be	nds	Previo	us Lea	ık (Clamps	Previ	ous Leak Re	epair Other	Contraction and decreased
													0			0	
Existing Coat Cond.	ing		. Cond. d Top		Coat. (Bond		(Coat. C	Cond. ottom				. Cond. n. Top	***************************************	Coat. Cond Dam. Side	,	Cond. Dan Bottom
Coat. Cond. Top	Dist.	Coa	t. Cond Side	. Dist.	С	oat. Co Bott		Dist.	C	Coat. Co	ond. Bi	rittl	e Co		ond. Brittle lide		Cond. Brittle ottom
Pipe Damage None	Dam	age L	ocation	Cau	se of D)amage	Le	eak Gr	ade	Defec	t Inspe	ect	ion Type	•			2 11 111 111 111
Damage Resi	ult Cu	ırrent/l	_atent	Anom	aly Ori	entation	n i		,								
Ext. Corr. Kind	Ext.	Corr.	orr. Loc. Ext. Corr. Loc. Ext. Corr. Loc. Ext. Corr. % Ext. Corr. Deepe op Side Bottom Exposed Pit			Corr. Deepe	st Ext. Co	orr. Corrode									
General				= = -	No 30						80						
ine Hit							A36611 61	********			- varga radar - gry				······································	vi	//w// A///// WWW A 1 1 A 2 A
Reason for Line Hit	Kr		ho caus		; C	ne Call			Re	espons Party			Contac	t	Contact Phone	Conta Addres	

Checked Inte			Corr. ind	Int. Co	r. Lea ickne			Int. Co ocation			nt. Corr. cation Sid	- 1	Int. Corr Bo	r. Loca ottom			. Corr. ed Length
No																	
Int. Corr. Adj. F	Pipe	Corros	ion Tecl	h Dista	nce .	To Ne	arest Gir	th Wel	ds C	rientat	ion of Exi	st. Lo	ng. Sea	m			
			0011100000 APP - 1000 - 2000 A						1								
Fluid In Pipe?	Co	rrosion 7	Гуре R	emarks													
oil Informat	ion											· · · · · · · · · · · · · · · · · · ·					
Was Soil Reading or Sample Taker	ո?		Meter rated?		oil stivity		il Resisti Test Typ		pH of Next Pip	То	pH of Soil in Ditch	p	H of Flu Under Coating	WANT WHEN W	MIC Samp Taker	le	pH Sample Taken?
Action Taker	1		one and the second section is a set of the second	den Protostonemanten eru antu den		e	***************************************			•			-				
Action Taken		Repa	1	Date		Lea	k Detec	ted		ection ethod	% LEL		% Gas	No. Clan	- 1		scovery
Component Repl.			And the second s	Oct 24, 2008				i		III. III. III. III. III. III. III. III			A description of the second		нун типтуп улитттүү		
Repair Pressu	e F	Pipe Rep	pl. Mat'l	Isolate	d?	Pipe F	Repl. Co	ating	Repl.	Footin	g Installed	ł Fr	om Line	Plus	To Lin	ne Plus	
25	0				A CONTRACTOR OF THE PARTY OF TH				SDA SAN CONTRA	**************************************			2.70ambry.200000.004427-13-1-1				
Testing Duration	•				Press Max.	sure	Test I		New	Pipe Coat Acceptat		ond.	С		oliday Repair	Detail and ?	
Repl. Pipe Mfg	epl. Pipe Mfg. Repl. Pipe O. D		e O. D.	Repl. I	Pipe \	Wall	Repl. Pi	pe Gra	de N	AOP	No. Leal	ks Re	paired	Test	Stations	s Insta	led
			Arvanud Indo-Arvaheni Mirandi arkada Ak							320							
Actual Anode I	No.	Add'l 2	Ft. Expo	osed?	Hole	Size	No. of H	Holes	Work	Perfor	med By	Con	tractor N	lame	Anode	Attacl	ned?
		Yes					c19686096.24 (61) - 500000000000000000000000000000000000							+-9-40 3X3000000			
No. of Bonds	٧	Vrinkle E Remov				n Weld	3		rth We			b. We		į '	pe Mfg. Date	***	Mill Test Report
Backfill Type	Orie	ent. of N	ew Long	ı. Seam	Co	mpone	ent Type	CMS	SID					.\$			
Encroachme	nt						A-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-	\$mm									
Encroachmen Type	t A	erial (Canopy Desc.	Conta	1	Conta Phon		rnate	Con	tractor/	Landown	er	nvestiga Comple		Excav 10 F		Monitore Activity?
Follow Up Required?			w Buildir Address	ng		ucture ype		welling	- 1		ntact St. ddress		Conta City		Cont Sta		Contact Zip
Erosion	A CONTRACTOR OF THE PARTY OF TH				en constitution					······································	***************************************			v			
Erosion Type	Re	assessn	nent Dat	e Eros	ion A	Activity	Action	Taker	1								
Gas Loss											·						
Did gas escape?			wdown o Purge?	or		Busines Functio		F		un Diar ominal			Blowdo Le	own P ength	ipe	В	owdown Temp.
Purge Diamete	er i	Purge Ti	ime Le	ak Date	Le	ak Dui	ration										
Attachment	i aanii Ahiii			#*************************************						20.007							
												11					



Page 3 of 3 1/9/2009

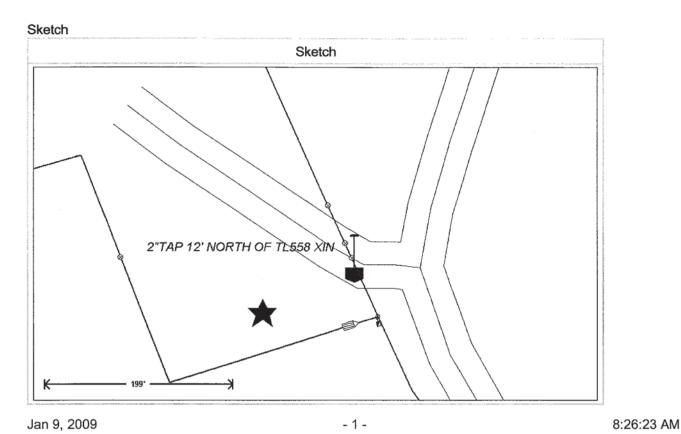


TFIR By Report Number

TFIR 37040

							- A 3 - A Ayr				41.21					
Common S	ectio	n:														
TFIR Report No.		Inspection Resp. C		Center (County To		nship	TFIR User ID		Co. One Ca Ticket No.			One Call ket No.	Facility in HCA?	
37040				dgeport ansmission		Ма	Marshall		nklin	jose415		2900038		o de de transcrio de compressión de la		No
Foreign/Company Facility Facili		Facility	ty Type Facility		lity Cla	Class *		eline	Number	umber C		ation	The state of the s			
			Pipelin	ie	Tran	smissi	on I	H 197	,		С	lass 1	***************************************	And after the control of the control		
Reason For	Report	Bell	lhole T	ype [Defect	Туре	Disc	overed	Ву	Pipe Cover	S	oil Type		5		
In-House Construction		on								Soil		Earth				
SAMS Sys ID Survey Station			Physical Location					GPS	Longitude			learest	Structure			
				ottooalaltooottitoosin				83884	L.	-80.77055	oud-ma			HARLES AND THE STREET		
Damage Desci	ription	Prope	rty Da	mage	Repo	rtable 1	ncide	ent Type	e Re	eport Numb	oer	WBS T		WBS Numbe	r	
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H197 2" TAP	ON H1	Remar 97 12' N	a	H OF T	L558 2	XING										
etailed Pip	e Insi	pection	n:													
Did you obser				Eval Fil	led Ou	it? Co	rrEva	l No.	Line	Location						
Yes		A 4 - LLOOLOOD LOLOOLOOD	No			**************************************		100	Unde	er Ground						
Outside Diame	eter F	Remainii	ng Wa	II Thick	ness	Origin	al Wa	all Thick	ness	Existing	Pipe	e Grade	Exist	ing Coating	Existing J	oint Coating
12	Manager and the second						0.31		Grade B			None		None		
Existing Joint	Foota	age Exp	osed	Materi	al Co	over An	ount	Tren	ch Co	ondition T	ition Type of Longit		jitudin	al Seam		
Weld Elec.			10	Steel			18	3		or or annual						
Cathodic Protection L		Locatio	Location of Girth W			elds No. of		Wrinkle Bend		Previous Le	Leak Clamps		Previ	ous Leak Re	pair Other	
		Santa Carlos Santa Carlos Anno Anno Anno Anno Anno Anno Anno An				0000.0000000000000000000000000000000000	· · · · · · · · · · · · · · · · · · ·				Continue and	0			0	
Existing Coating Coat. Coat. Cond. Bond											oat. Cond. Dam. Top		Coat. Cond. Dam. Side		Coat. Cond. Dam Bottom	
Coat. Cond. Dist. Coa Top		Coat.	Cond Side				at. Cond. Dist. Bottom			Coat. Cond. Brittle Top		le Co	e Coat. Cond. Brittle Side		Coat. Cond. Brittle Bottom	
Pipe Damage	Dam	age Lo	cation	Caus	se of D	amage	. Le	ak Gra	de l	Defect Insp	ect	ion Type	•			
None																
Damage Resu	ılt Cu	ırrent/La	atent	Anom	aly Ori	ientatio	n						3			
Ext. Corr. Kind	Ext. Corr. Loc.		oc.	Ext. Corr. Loc. Side		c.	Ext. Corr. Lo Bottom		oc.	Ext. C				Corr. Deepes Pit	t Ext. Co	orr. Corrode Len.
General	al No		ı	No		N	No									
ine Hit			64-50 m25.m		9.000.0 <u>4</u> 1 1		magazzaranya -a				****	month transport name Son			o Parazas - no assere asser	
Reason for Line Hit	K	now wh	o caus		С	ne Cal				ponsible Party		Contact	t]	Contact Phone	Contac	

Checked Inter Corrosion?		Int. Corr. Kind		Int. Corr. Least Wall Thickness			Int. Corr. Location Top		Int. Corr. Location Side		Int. Corr. Loca Bottom				
No		and proposed discounts.													
Int. Corr. Adj. Pi	pe Cor	rosion Tec	h Dista	nce To	Neare	st Girth We		rientat	ion of Ex	xist.	Long. Sea	ım			
Fluid In Dino?	Corrocio		Remark			************************************	1	whoer serv-assessmen			t de manera e				
Fluid In Pipe?	Corrosio	Corrosion Type		IND											
Soil Information	on	<u>_</u>													
Was Soil Reading or Sample Taken	UT Meter Calibrated?		Se Resis			lesistivity st Type	Next	pH of Soil Next To Pipe		The second of the second secon	pH of Fluid Under Coating		MIC Sample Taken?		Sample Faken?
Action Taken	g mg a, 1 \$, 1 mg 1		· i www						*****	W					
Action Taken	Repair Schedule		Date Actio			Detected By		Detection Method) L	% No. (Disco	overy
Component Repl.	Component		Oct 24, 2008	Marian Ma	The state of the s										
Repair Pressure	Pipe F	Pipe Repl. Mat'l I		Isolated? Pi		ipe Repl. Coating		Repl. Footing		ed	From Line Plus		To Line Plus		
250)				COMMUNICOCION POR			PC-2000000000000000000000000000000000000	K50004000000000000000000000000000000000	HHIMNEN	#4III-Will adoption conse				
Testing Test Pressure Duration Min.		Test Pressure Max.			Test Report No.		New Pipe Coatin Acceptable					Check Holiday Detail and Repair?			
Repl. Pipe Mfg. Repl. Pipe O. D.		Pipe O. D.	Repl. Pipe Wall Re		II Re	pl. Pipe Gr	ade M	IAOP			Repaired Test		Stations Installed		J
Actual Anode N	o. Add'	l 2 Ft. Expo	osed?	Hole Si	ze No	o. of Holes	Work	340 Perfor	med By	Co	ontractor N	√ame	Anode A	tached	1?
	Yes							MANAGER MANAGEMENT			VPA 21,0000-4942-8001(1) 9140	CECCO POR MERCHANI			
No. of Wrinkle Bends Bonds Removed		Girth Welds Reinforced				irth Welds Removed		Fab. Welds Repaired		Pipe Mfg. Date			ll Test eport		
Backfill Type (Orient. of	New Long	ı. Seam	Comp	onent	Type CM	SID	WW.20000000 V 4. 11	a Šer ja neju		1.7.6.818 PARTS 17.5.7.1		**************************************		
Encroachmen	nt														
Encroachment Aerial Canopy Type No. Desc.		Contact Contact Person Phone			Alternate Phone	Contractor/L				Investigation Complete?		Excavated 10 FT.?		lonitore Activity?	
Follow Up Required?	No. of the control of	New Buildin Address		ng Structure Type		e Dwelling Number					Contact City		Contact State		Contact Zip
Erosion						consider transferrors with the with although the least of a			**************************************				111 11111117 - 4-3-2-99		
Erosion Type	Reasses	sment Dat	e Eros	ion Acti	vity A	Action Take	n								
Gas Loss	may	M - AMARIA III III IMPA				······································	PPINE II N								······································
Did gas Blowdown of escape? Purge?			or Business Function			aa	Pipe Run Diameter (Nominal)				Blowdown Pipe Blowdown Length Temp.				
Purge Diameter	Purge	Time Le	ak Date	Leak	Duratio	on									



Dominion Transmission

DOT Operator Qualification

Work Procedure Number: OQ-040-GL

Work Procedure Description:

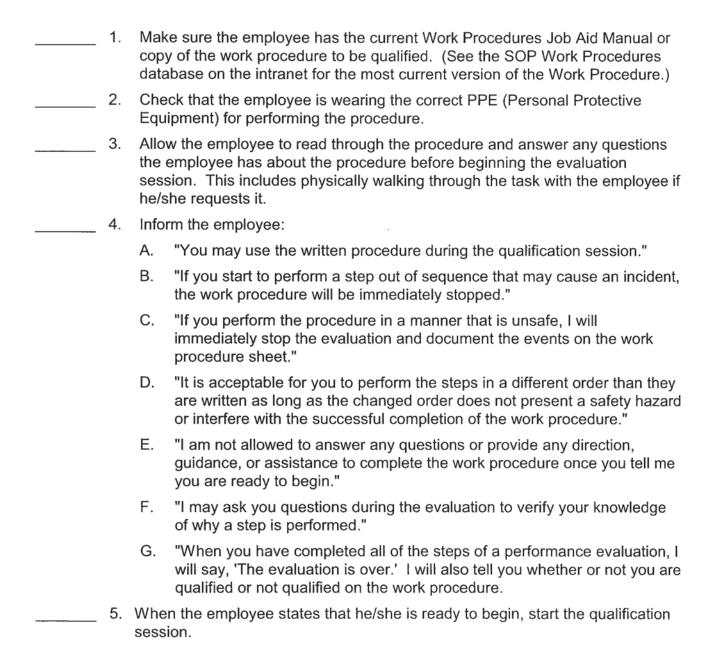
<u>Excavating a Pipeline Facility Using Power</u>

<u>and/or Hand Equipment</u>

Employee:		
Local Person ID #:		
Job Location:		
Supervisor:		
Evaluator:		A
Evaluator's Signature:		
Rating (circle one):	Qualified	NOT Qualified
Date:		

Dominion Transmission

DOT Operator Qualification Qualifier Checklist for Hands-on Sessions



WORK PROCEDURE

DEPARTMENT:	WORK PROCEDURE NUMBER: OQ-040-GL						
OPERATOR QUALIFICATION TASKS AND WORK	DOT Operator Qualification:						
PROCEDURES	Covered Task: Yes						
PROCEDURE CATEGORY:	PROCEDURE SUBCATEGORY:						
TITLE: Excavating a Pipeline Facility	Date Approved: 12/20/2000 Section Sponsor Name: Michael G. Grose	Date Revised: 11/25/2008 Section Sponsor Name:					
Using Power and/or Hand Equipment DATE REVIEWED 11-04-2008	Michael G. Grose	James E. Parsons, Jr.					

When Performed:

When a pipeline facility (CFR 192 or 195) needs to be excavated for: operations & maintenance, replacement construction, new construction on existing right-of-way or facility site, and during & after tie-in on new "green field" construction. The above pertains to whether the facility is loaded OR NOT loaded with gas or liquids.

Safety Precautions:

Follow Safety's Job Task and Personal Protective Equipment requirements If you detect the odor of gas, contact your supervisor immediately. Report all equipment and/or pipeline damages to your immediate supervisor.

Consequences of Inadequate Performance:

Could lead to Abnormal Operating Conditions (See Task-Specific AOC's at the end of this procedure, See Work Procedure OQ-074-GL Recognizing and Responding to General Abnormal Operating Conditions, and SOP 020-01 Abnormal Operating Conditions)

Tools and Equipment:

Safety equipment as needed for items under "Safety Precautions" above Barring equipment (restricted use; refer to NOTE in step #4 below) Backhoe/sideboom

Dozer

Flatbed truck/trailer

Boom truck

OQ-040-GL

Trench box

Air compressors

Lights

Ditch pump

Pipe slings with capacity tags & proper rating

Oxygen meter

Combustible Gas Indicator (CGI)

Air mover

Proper breathing apparatus

Safety belts or harnesses

Lifelines

Warning vests

Standby emergency breathing apparatus

Barriers

Cable/wire

Ladder

Shovels

Lower Explosive Limit (LEL) meter

References:

Soil Classification Guidelines from 29 CFR 1926 - Subpart P - Appendix A Competent Person Excavation Checklist (Found in the Excavation category of Safety webpage)

SOP 020-01

SOP 090-01

SOP 185-23

SOP 360-25

INSTRUCTIONS

Complete a Job Safety Brief form prior to commencement of a job involving 2 or more personnel.

NOTE:

Please refer to and follow the instructions in Work Procedure IMP-004-GL during

the performance of this task.

NOTE:

Barring added to the bucket teeth of power equipment may reduce the potential for

puncture and other damage to the pipeline.

OQ-040-GL Abnormal Op 1. F

Abnormal Operating Conditions (AOC's)

1. Explain how to recognize AOC's that may be encountered while performing this procedure:

Accidental ignition

Coating &/or pipe damaged during repair

Combustible gas mixture is present in atmosphere, pipe, or other equipment

Damage or defect or deterioration in pipe, fittings, equipment, components, etc.

Damaged cathodic protection components

Firm support under pipe not provided

Gas leakage

General corrosion or localized pitting of pipelines with remaining wall thickness

less than required for MAOP

Insufficient cover

Land subsidence, earth slippage, soil erosion, extensive tree root growth, flooding Loss of cover or excessive fill

Loss of segment support due to settlement or shifting of soil around the pipe

Noncompliance with procedures or standards

Pipe location inaccurately marked

Pipeline settlement

- 2. Explain how to react to the AOC's that may be encountered while performing this procedure by:
 - A. Initiating action to address the AOC
 - B. Initiating reporting requirements

Appendix 11 - MUWV 2380341 -127584.pdf

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SEQUENCE NUMBER 0048
                      CDC = CBA
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AC =VERIZON - CUS
                    CBA=DTC-BRIDGEPORT HE =DOMINION-BRS RN MAC=MARSHALL PSD #4
TEG=TX EAST TRANS GVD=GRANDVW-DLN PSD MH =AEP/WHELING-UTL
             ----> Miss Utility of West Virginia Notice <----
NOTICE: 2380341 -->ROUTINE
                                                        Lead Time:
 County:
                MARSHALL
                                            Town:
                                                        CRESAP
                 0 GATTS RIDGE RD
Street:
              TAYLORS RIDGE RD
 Near Inter:
 Excavation Length: 25 FT
                                            Excavation Direction: U
 Excavation Depth: 10FT
                                            Blasting:
                                                        NO
 Work for: DOMINION TRANSMISSION CORP
 Type of Work: EXPOSING P/L & INSTL TAPS
 In St:
                                           On Sidewk:
                P/L R/W
 Other:
 On Prop Location:
                                            UNKNOWN
 Dig Site Marked in White ?: NO
 Start Date:
                 29-AUG-08
                                            Time:
                                                         0800
 DBLookup:
                PINPOINT GRIDS 37
                                            Prepared By: JANE WADSWORTH
 Remarks: Distance From Intersection: 2 MI
                                              Direction: S
 GATTS RIDGE RD AKA ROUTE 72. TAYLORS RIDGE RD AKA ROUTE 2/1.
 SITE IS 2MI S OF ABOVE INTER ON RGT SIDE OF GATTS RIDGE RD AT
 DOMINION TRANSMISSION FACILITY
 MARK 25FT RADIUS OF STAKE AT XS #2118
                     DOMINION TRANSMISSION CORPORATION
 Contractor:
 Phone:
                     304-627-3098
                     RT 2 BOX 145; BRIDGEPORT WV 26330
 Address:
                                                            304-627-3098
 Contact:
                     BILL EVERITT
                                           Contact Phone:
 Alt Contact Phone:
                                           Fax:
                                                            304-627-3086
                                           Alt Phone:
 Alt Contact:
                      TERRY NICHOLSON
                                           Prepared:
                                                            25-AUG-08@1446
 Caller:
 Grids:
      39500 - 080462 \quad 39502 - 080462 \quad 39498 - 080464 \quad 39500 - 080464 \quad 39502 - 080464
      39496-080466 39498-080466 39496-080468 39492-080470 39494-080470 39490-080472 39492-080472 39494-080472 39500080460A 39500080460C
      39502080460C 39498080462A 39498080462B 39498080462C 39496080464A
      39496080464B 39494080466A 39494080468A 39494080468B 39494080468C
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                    39498080468D 39488080470A 39490080470A
                                                              39490080470B
      39490080470C 39496080470B 39496080470C 39496080470D 39488080472A
      39488080472B 39496080472D
Ticket File: T2380341.CBA
                                 OCS Received: 08/25/2008
OCS Screening Ticket: T2380341.CBA
                                                     CDC = CBA
OCS Screening Comment: (APO) CONFLICT - IMPACT! Found on map.
OCS Transmission To DTI Date: 08/25/2008 Time: 1450
OCS Screened Lat/Long: -80.774124 39.832503 LineSegExported = 22
```

DOMINION TRANSMISSION INC

COMMENT: 08/26/08 06:34 Terry Nicholson - Assigned to terry79, Active Working, DTI Construction Work, Req. Notified=NO, Marked=NO, Flagged=NO, Staked=YES, In HCA=NO, Response=09,

11/19/08 15:24 Terry Nicholson - Assigned to terry 79, Completed, DTI Construction Work, Req. Notified=NO, Marked=NO, Flagged=NO, Staked=YES, In HCA=NO, Response=09, , TFIR#=36970

Appendix 12 - MUWV 2900038 -127584.pdf

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SEQUENCE NUMBER 0013
                        CDC = CBA
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                                     a aaaaa
                      a
 AC =VERIZON - CUS CBA=DTC-BRIDGEPORT HE =DOMINION-BRS RN MAC=MARSHALL PSD #4
TEG=TX EAST TRANS GVD=GRANDVW-DLN PSD MH =AEP/WHELING-UTL
              ----> Miss Utility of West Virginia Notice <----
 NOTICE: 2900038 -->ROUTINE
                                                            Lead Time:
                                                                           48
                  MARSHALL
                                               Town:
                                                            CRESAP
 County:
                  0 GATTS RIDGE RD
 Street:
 Near Inter:
                TAYLORS RIDGE RD
                                               Excavation Direction: U
 Excavation Length: 25 FT
 Excavation Depth: 10FT
                                               Blasting:
 Work for: DOMINION TRANSMISSION CORP
 Type of Work: EXPOSING P/L & INSTL TAPS
 In St:
                                              On Sidewk:
                 P/L R/W
 Other:
 On Prop Location:
                                               UNKNOWN
 Dig Site Marked in White ?: NO
                                                              0830
 Start Date:
                  20-OCT-08
                                                Time:
                  PINPOINT GRIDS 37
 DBLookup:
                                                Prepared By: ANNA MASAOUD
 Remarks: Distance From Intersection: 2 MI
                                                  Direction: S
 GATTS RIDGE RD AKA ROUTE 72. TAYLORS RIDGE RD AKA ROUTE 2/1.
 SITE IS 2MI S OF ABOVE INTER ON RGT SIDE OF GATTS RIDGE RD AT
 DOMINION TRANSMISSION FACILITY
 MARK 25FT RADIUS OF STAKE AT XS #2118
                       DOMINION TRANSMISSION CORPORATION
 Contractor:
 Phone:
                       304-627-3098
                       RT 2 BOX 145; BRIDGEPORT WV 26330
 Address:
                       BILL EVERITT
                                              Contact Phone:
                                                                 304-627-3098
 Contact:
 Alt Contact Phone:
                                               Fax:
                                                                 304-627-3086
                                              Alt Phone:
 Alt Contact:
 Caller:
                       JEREMY SMITH
                                              Prepared:
                                                                 16~OCT-08@0815
 Grids:
      39500-080462 39502-080462 39498-080464 39500-080464 39502-080464
      39496-080466 39498-080466 39496-080468 39492-080470 39494-080470 39490-080472 39492-080472 39494-080472 39500080460A 39500080460C
      39502080460C 39498080462A 39498080462B 39498080462C 39496080464A
      39496080464B 39494080466A 39494080468A 39494080468B 39494080468C
      39498080468B 39498080468D 39488080470A 39490080470A 39490080470B 39490080470C 39496080470B 39496080470C 39496080470D 39488080472A
       39490080470C
      39488080472B 39496080472D
П
Ticket File: T2900038.CBA
                                    OCS Received: 10/16/2008
OCS Screening Ticket: T2900038.CBA
                                                         CDC = CBA
OCS Screening Comment: (JAHIRT ) CONFLICT - IMPACT! Found on map.
OCS Transmission To DTI Date: 10/16/2008 Time: 0834
OCS Screened Lat/Long: -80.776503 39.834244 LineSegExported = 21
DOMINION TRANSMISSION INC
                              FLAGGED: ___ STAKED: ___ IN HCA: ___ COMMENT: 10/17/08 06:40 Terry Nicholson - Assigned to
REQ. NOTIFIED: ___ MARKED: __
 terry79, Active Working, DTI Construction Work, Response=09,
 11/19/08 15:26 Terry Nicholson - Assigned to terry79, Completed, DTI Construction Work, Response=09, 36986, 36976, TFIR#=37040
```

Incident Location

39.83884 N 80.77055 W

