MP 608 – Marshall, Michigan Incident NTSB/PHMSA Information Request No. 24

24.9 Reference: Field Request

Preamble:

Request: Provide a list of all leaks discovered on the pipeline including

when they were detected, their severity and when they were

repaired.

Response: Repair/Leak Records: MP 671.96.pdf, MP 722.81, MP 716.32.pdf,

MP 749.93.pdf, MP 751.07.pdf, MP 512.27.pdf, MP 714.93.pdf, MP 475.30.pdf, MP 682.77.pdf, MP 468a.pdf, MP 468b.pdf

EEC Report Number:

FA1970-001

Report Date:

03/22/2010

Report Type:

Pipe Repair/Replacement

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Location						
Reporting Office Date Discovered Date Re Ft Atkinson 06/17/70 06/18/					Report Dat 03/22/20	
Pipe Line Location - Pump Station or Milepost Line No. 468 6B				Line Size	!	Special Cost Number
Specific Location - Location from a known stationing on a Rout 154+45 - 390' West of PI 134+56					Route She C-376	et Number
Quarter	Section 01	Township 35N		Range 9W		Tract No. N-603-3
Meridian/County 68	Province/State IN	Lat & Long Loca Lat. Long.	ation	GPS Locatio	n	GPS Reading N. W. E.
Property Owner's Name and Address Chesapeake & Ohio Railro Chesapeake & Ohio Railroad Co 500 Water Street J 910 500 Water Street J 910 (410) 237-3401					s Name and A	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)						

Leak

Describe Specific Nature and Cause of Break or Leak Pin point leak in seam, 40" from downstream end of joint. Permanent repair at a later date will consist of sleeving the entire joint. Oil Out of Line - Barrels Oil Recovered - Barrels Net Loss - Barrels Crude Type 0 3 Batch Number Disposition of Lost Oil Oil soaked soil removed and buried Name and Address of Person Reporting Leak Was a Report Fee Paid? Buckeye Pipe Line Co. Partol Pilot No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Temporary repair by 14" Plidco clamp, not welded	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel	

General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating	Type and Length of Repair Coating -			
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split			
LPL Personnel must also complete a Corrosion Inspection Report					

O LI 101				
Was there any Stock Pipe Instal	lled? (If yes, attach hydrotest	Hydrotest Number		
Remarks:		,		
Government Agency Notified	Individual contacted	Date		Time
Report Completed by and Signa Julia Rask	Date Enter 03/22/20	•	gs By Tech. Services	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	FA1970-001	Report Date:	03/22/2010
Part A - General Inform	ation Concerning Exce	avation	
Line Number and Size 6B - (30)	MilePost/Station 468	Tract No. N-603-3	Stationing 154+45
Purpose of Excavation Pipe Repair/Replacen	nent	Soil Type Sand	Terrain Type
Comple	ete These Lines if Exc	avation is for Instrument	Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth		Anomaly Size
Part B - Inspection Res	ults		
Condition of Outside of Pipe No Corrosion			
Comments			
Existing Coating is : Condition of Coating : Satisf Comments : New Coating is :	factory	c	oating Length is :
Pipe to Soil Potential:			
Comments :		VIII. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Condition of Inside of Pipe : Comments :			
Inspected By :		D	ate Inspected:
Part C - Signatures			Del
Pipe Line Foreman Julia Rask			Date 03/22/2010

INTERPROVINCIAL PIPE LINE COMPANY LAKEHEAD PIPE LINE COMPANY, INC.

Permanent Repair/Break or Leak Report

Service of the State of the Control	37	REPORTING OFFICE		DATE OF REPAIR	- Marin Salaharan - Indonesia	DATE OF REPORT
PALE PALE	MBREAK	Fort Atkins	on	June 17, 1970		June 18, 1970
	LD, STATIOH, O	n Between Stations		Line Size	***************************************	DATE AND TIME (MST) OF DUBAK
MP 468	-			30'!		Unknown
	FROM A MILE	POST, AM MARKER	, TELEGRAPH PO	LE OR SOME KNOWN POL	ML ON COME	ANY MAP
MP 468	_ =	West of Pl				h his state paper of the state
	TION		ANGE "	MERIDIAN COUNTY	PROVINCE	
	EC. 1	35N	9W	Lake	Indian	18
PROPERTY OWNER'S HAD			(- 1	n Caratarakan 1	7 a 11 day alam	_
PROPERTY TENANT'S NAM			Madison AV	e. Covington, I	xemucky	
PROPERTY TERRITORY	H MID ADMING	.		à.		
NATURE AND CAUSE OF I Pin point leak			ownstream	end of joint.		
NATURE OF REPAIR				• • •		
Temporary r	epair by	14" Plidco cl	amp, not w	'clded.		
					•	
Control of the Contro		n Commission of State of the State State of the State of		**************************************		
DISPOSITION OF LOST		. 1 1 1	1			
Oil soaked so	PROPERTY D.	<u>ed and buriec</u>	Comments and Landson the Comments of Comme	44. A comment of the		
•			and denoci	ted over an area	ofannr	oximately
WIIIII OF OIL	Was Call	ied by water	and deposi	tod over all area	t or appr	OAIIIEUCZY
80' X 6". Th	is was re	moved. The	area is scr	ub land not unde	er cultiv	ation. Little
	and the second	California, prop del California del	PTERMENTAL STATE OF STREET, ST	MAC 1980 MACHINI, A ST. L. C. C. CONST. THE SPICE STORES OF SET SPICE OF PARTY AND ADMINISTRATION SPECTROSPHEN SPICES.	ENTERNATION OF AMERICAN ASSESSMENT OF THE	rykrykry przypych y przy przy przy na namena a postania konkum politik 1860 dobb 62 km by obci 2000 kiele bisku je platy 1200kg
if any proper	rty damag	ge.				
		·				A CONTRACTOR OF THE PROPERTY O
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E AND ADDRESS OF	PERSON REPORT	ING LEAK		ALPHA PERMINDEL SECTION AND WIND A MIND A MIND AND PROPERTY OF THE PERMIND AND PROPERTY.		WAS REPORT FEE PAID? AMOUNT
Buckeye Pipe	Line Co	. Patrol Pil	ot		l	XNO YES S
EXPLAIN BRIEFLY BELOW.	ANY REQUEST	OR DISCUSSION WITH	OWNER OR TENA	NT CONCERNING DAMAGES	TO PROPERT	Y WHICH MAY HAVE ARISEN VOLUN
TARILY WITHOUT INVEST	IGATION ON YO	OUR PART.		,		
فيقا فللمستقل فيسبب بم جهانها فاستنبط فللمستقل وفروا ويسهمونها	No vive vive vive		· · · · · · · · · · · · · · · · · · ·	* Mary Aria S. S. Santan da .		
None						
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		*	dake kana-dahir, sambakada dak dakidara sak banyang dakang	p	D. C.	
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					BARRELS OF OUT OF LINE	
COATING, PATCHES, PIPE	, ETC., TO BE		NG DIAGRAM AND KIND OF SOIL	·		to specific the supplements that the state of the proof of out or the supplementation on the proof of States and some of the supplements of the su
Number of Clamps removed			- silt	•	BARRELS OF RECOVERED	r oil Nil
						_ q.J.
NUMBER OF SPOT WELDS	•		l condition of li Good	TIA.	NET LOSS-B	BLS. 3
			L CONDITION OF C	N 8 711/7	****	
NUMBER OF ANODES ADDED		i .	Good	JATING	CRUDE TYPE	BATCH NO
REMARKS			1000			در دهاید ۱۹۸۹ کاری تولیدی بیسیارسی فیدود بایا که سالت سیدیات دیناد داند داند داند تا بدارای بایان بایان بایان در دهاید ۱۹۸۹ کاری تولیدی بیسیارسی فیدود بایان استان بایان دیناد داند داند تا بدارای بایان بایان بایان بایان
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APPROYED	C F C M C M	NUMBER	FF			The state of the s
DIV. MGR.		BREAK C	noar No. Cent:	ral No. 131	or leak	Leak
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EEC Report Number:

BC1970-001

Report Date:

03/22/2010

Report Type: Pipe Repair/Replacement

Location

Reporting Office Bay City	Date Discovered Date Repair 08/17/70 09/21/70		ed	Report Date 03/22/2010
Pipe Line Location - I 468.51	Pump Station or Milepo	ost Line No. 6B	Line Siz	e Special Cost Number
Specific Location - Lo 154+45 -	ocation from a known s	tationing on a Route S	iheet	Route Sheet Number c-376
Quarter	Section 01	Township 35N	Range 9W	Tract No. N-603-3
Meridian/County 68	Province/State IN	Lat & Long Location Lat. Long.	on GPS Location	on GPS Reading N. W. E.
Property Owner's Na Chesapeake & Ohio Chesapeake & Ohio 500 Water Street J 9 500 Water Street J 9 (410) 237-3401	Railro Railroad Co 910		Property Tenant	's Name and Address

Leak

_oak			
	and Cause of Break or Leak		
Pin point leak in sear	m, 40" from end of joint		
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels	Crude Type
3	0	3	50 × 60 × 60 × 60 × 60 × 60 × 60 × 60 ×
Batch Number			•
Disposition of Lost Oil			
	, was removed and buried		
			T W D F D-:-10
Name and Address of Per			Was a Report Fee Paid?
Buckeye Pipe Line P	artol Pilot		No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)

Joint of pipe was removed and new joint installed. A 30" x 15" plidco sleeve was used on final tie-in.

Permanent repairs were made on Aug 8, 1970 with the last 30" completion plug to be installed Sept 22, 1970.

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel

General Condition of Line (See Corrosion Inspection Report) Steel Not Exposed	Type of Existing Coating	Type and Length of Repair Coating -	
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split	
LPL Pers	sonnel must also complete a Corrosion Ins	spection Report	

- tiloi					
Was there any Stock Pipe Instal No	ed? (If yes, attach hydrotest	Hydrotest Number			
Remarks:					
Government Agency Notified	Date		Time		
Report Completed by and Signa Julia Rask	Date Enter 03/22/20		rawings By Tech. Services		

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EEC Report Number Report Date:	ber: FA1970- 03/22/20			Report	Type	Dine	Repair/Replacement
	03/22/20	10		report	Type.	Tipe	пераплеріасетіенс
_ocation							
Reporting Office Ft Atkinson	Date Discovered 06/17/70		e Repaired 18/70			t Date 2/2010)
Pipe Line Location - Pi 468	ump Station or Milepos	st Line N 6B	lo.	Line Size	e	S	Special Cost Number
Specific Location - Loc 154+45 - 390' Wes		ationing on a	Route Shee		Route C-37	Contract the Contract of the C	Number
Quarter	er Section Township 01 35N		Range 9W			Tract No. N-603-3	
Meridian/County 68	Province/State IN	Lat & Long Lat, Long.	g Location	GPS Location			GPS Reading N. W. E.
Property Owner's Nar	me and Address		Pro	perty Tenant'	s Name	and Add	Iress
Chesapeake & Ohio F 500 Water Street J 9 500 Water Street J 9 (410) 237-3401	10 10	y communica	ations with ow	ner or tenant	(Attach a	a sketch	if necessary)
			end of join	t. <mark>Permane</mark>	ent repa	air at a	later date will consist of
Oil Out of Line - Barre	Oil Recovered	- Barrels	Net 3	Loss - Barrel	s		Crude Type
Batch Number							
Disposition of Lost Oil Oil soaked soil re	moved and buried	ľ					
	f Person Reporting Le ne Co. Partol Pilot	ak				Was a F No	Report Fee Paid?
Repair							
	tting added to Mainline	(Attach sket	ch - Identify (upstream & Pi	pe Orien	tation)	
	by 14" Plidco clar Procedures with Wek		lded				
Welding Inspector Na	me		-				
NDE Personnel						-	

General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating	Type and Length of Repair Coating -
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split
LPL Pers	sonnel must also complete a Corrosion Ins	spection Report

Was there any Stock Pipe Instal	Hydrotest Number	er		
Remarks:				
Government Agency Notified	Individual contacted	Date		Time
Report Completed by and Signa Julia Rask	ture	Date Entered 03/22/201		rings By Tech. Services

EEC Report Number:

GT1978-001

Report Date:

03/23/2010

Report Type: Pipe Re

Pipe Repair/Replacement

Location

Location						
Reporting Office Griffith	Date Discovered 11/14/78	Date Rep 11/15/78			Report Date 03/23/201	
Pipe Line Location - Pt 475.30	ump Station or Milepos	t Line No. 6B		Line Size		Special Cost Number
1 '	cation from a known sta d/s of valve at 511	•	Sheet		Route Shee c-377	t Number
Quarter	Section 07	Township 35N		Range 7W		Tract No. N-610-2
Meridian/County 68	Province/State IN	Lat & Long Loca Lat. Long.	ition	GPS Locatio	n	GPS Reading N. W. E.
Property Owner's Name and Address Nayak Raghuveer P & Anita R LLC SE Raghuveer P & Anita R Nayak LLC SE 124 Covington Ct 124 Covington Ct						
Full Description of Pro	perty Damage and any	communications	with own	er or tenant (Attach a sketc	h if necessary)

Leak

Describe Specific Nature and Cause of Break or Leak

Pipe damaged by three intersecting gouges about 3 ft 3 in long at 3 o'clock position looking downstream. 2" crack at gouge intersection.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels	Crude Type
70	15	55	UHG 38-39 Grav
Batch Number UHG-508			

Disposition of Lost Oil

15 barrels picked up and hauled to Griffith. The rest was hauled to an approved landfill.

Name and Address of Person Reporting Leak
Mr. Nick Rombotis 5307 E 61st Ave, Hobart IN, 46342

Was a Report Fee Paid?
No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)	
Installed 30" x 60" Plidco repair sleeve. Repair sleeve supported by three Sakrete support	rts on pipe
and sleeve. No sketch made.	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel	

General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating	Type and Length of Repair Coating -
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split
LPL Perso	nnel must also complete a Corrosion Inspe	ection Report

- W. 101				
Was there any Stock Pipe Instal	ed? (If yes, attach hydrotest re	Hydrotest Number		
Remarks:				
Government Agency Notified	Individual contacted	Date		Time
Report Completed by and Signa Steve G Booth	ture	Date Entere 03/23/20	•	gs By Tech. Services

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	GT1978-001	Report Date:	03/23/2010
Part A - General Informa	ation Concerning Exce	avation	
Line Number and Size 6B - (30)	MilePost/Station 475.30	Tract No. N-610-2	Stationing 513+10
Purpose of Excavation Pipe Repair/Replacem	nent	Soil Type	Terrain Type
Comple	ete These Lines if Exc	avation is for Instrumen	t Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth		Anomaly Size
Part B - Inspection Resi	ılte		
T dit D Mopociion Nooi	110		
Condition of Outside of Pipe No Corrosion Comments			
Existing Coating is: Condition of Coating: Unsate Comments: Oil soaked co gouging from backhoe t some time before report New Coating is:	oating replaced. Pipe o eeth. Slight leak may l	have been present for	Coating Length is :
Pipe to Soil Potential : Comments :			Jan. 19 201 1911 10 1
Condition of Inside of Pipe : Comments :			
Inspected By :		С	Date Inspected:
Port C. Signatures			
Part C - Signatures Pipe Line Foreman			Date
Steve G Booth			03/23/2010

Enbridge Energy Company PLM Activity Report

General Information

Report Number:

GT1978-001 Julia Rask

Report Date:

03/23/2010

Reporter's Name: Inspector'sName:

Type of Work Performed:

Where Was Work Performed:

Pipe Repair/Replacement

Mainline

Mainline Information

Line Number:

6B

Line Size:

30

Wall Thickness:

0.250

Milepost: Stationing: 475.30

513+10

Report Information

The following reports may need to be completed for each type of work listed below:

Pipe Repair/Replacement

Shorted Casing

Fitting Installation

Line Lowering

Valve Installation

Casing Extension

Pump Installation

- Pipe Repair/Replacement
- R-O-W Information Report
- Corrosion Inspection

Kaliper Tool Anomaly

Corrosion Tool Anomoly

- R-O-W Information Report
- Corrosion Inspection
- If you install a repair sleeve or a cutout:

Pipe Repair/Replacement

Foreign Crossing

- Foreign Crossing
- If pipe was exposed:

Corrosion Inspection

If pipe was damaged:

R-O-W Information Report

Pipe Repair/Replacement

INTERPROVINCIAL PIPE LINE COMPANY LAKEHEAD PIPE LINE COMPANY, INC.

Permanent Repair/Break or Leak Report

		REPORTING OFFICE		DATE OF REPAIR	E 274 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE OF REPORT
1 PERMANENT	CTOBREAK	ALFORTING OFFICE				
PERMANENT PREPAIR		District 5		November 15,	1978	November 17, 1978
		OR BETWEEN STATION	5	LINE SIZE	100	DATE AND TIME (MST) OF BREAK
Field - MF	2473.21 ON $-$ FROM A MILE	POST, AIR MARKE	R, TELEGRAPH PO	30-inch ole or some known po	INT ON COM	November 14, 1978
		alve at st		I was to see		
VARTER	SECTION		RANGE	MERIDIAN - COUNTY		STATE
NW	7	35N	7W	Lake County	India	na
	NAME AND ADDRES					
	Petticord		ract N-61	0-2		
ROPERTY TENANT'S	S NAME AND ADDRES	SS				
ATURE AND CAUSE	E OF BREAK OR LEAK	Dina James				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Long at 3	o'clock po	sition loo	king down	stream. 2" ci	ack at	es about 3 ft. 3 inc gouge intersection
Installed	30" X 60"	Plidco rep	air sleev	e. Repair sle	eve su	pported by three
Sakrete su	ipports on	pipe and s	leeve.			
asposition of L	osron Fifte	en barrels ed landfill	picked u	p and hauled t	o Grif	fith. The rest was
ULL DESCRIPTION	N OF PROPERTY D	AMAGE	*			
)il soaked	d topsoil.	grass and	brush. N	o crop damage.	Mate	rial picked up and
						THE PROPERTY OF GIAG
auled to	approved 1	Landfill.				· · · · · · · · · · · · · · · · · · ·
AND ADDRESS	S OF PERSON REPOR	TING LEAK			. Mr. altinostication	WAS REPORT FEE PAID? AMOUNT
.Jand Address	s of person repor	TING LEAK 5307	E. 61st	Ave.		WAS REPORT FEE PAID? AMOUNT
. J and address Ir. Nick R EXPLAIN ERIEFLY BE	s of person repor Rombotis	TING LEAK 5307 Hobar OR DISCUSSION WITH	E. 61st t, Indian	AVe. a. 46342 ant concerning damage	S TO PROPER	
. Jand address Ir. Nick R XPLAIN BRIEFLY BE ARILY WITHOUT IN	s of person repor Rombotis ELOW, ANY REQUEST EVESTIGATION ON Y	ting leak 5307 Hobar or discussion with	E. 61st t. Indian H OWNER OR TEN	AVe. a. 46342 ant concerning damage	S TO PROPER	WAS REPORT FEE PAID? AMOUNT X NO YES \$ TY WHICH MAY HAVE ARISEN VOLU
XPLAIN BRIEFLY BE ARILY WITHOUT IN	s of person repor Rombotis ELOW, ANY REQUEST EVESTIGATION ON Y	TING LEAK 5307 HODAY OR DISCUSSION WITH	E. 6lst t. Indian H OWNER OR TEN.	Ave. a. 46342 ant concerning damage	S TO PROPER	
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NONE	ELOW, ANY REQUEST NVESTIGATION ON Y	OR DISCUSSION WITH OUR PART.	T. INCLAN H OWNER OR TEN.	A. 40.142 ANT CONCERNING DAMAGE	BARRELS C	X NO YES 5 RTY WHICH MAY HAVE ARISEN VOLU
NONE COATING, PATCHES,	ELOW, ANY REQUEST NVESTIGATION ON Y	OR DISCUSSION WITH OUR PART.	T, INCLAN	A. 40.142 ANT CONCERNING DAMAGE	BARRELS C	NO YES 5 RTY WHICH MAY HAVE ARISEN VOLU OF OIL NE 70 OF OIL
NONE COATING, PATCHES,	ELOW, ANY REQUEST NVESTIGATION ON Y	SHOWN ON SUPPORT	T. INCLAN H OWNER OR TEN.	a 40.142 ANT CONCERNING DAMAGE	BARRELS COUT OF LIN	NO YES 5 RTY WHICH MAY HAVE ARISEN VOLU OF OIL NE 70 OF OIL 15
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XPLAIN BRIEFLY BEARILY WITHOUT IN NONE OATING, PATCHES, UMBER OF LAMPS REMOVED UMBER OF POT WELDS	ELOW, ANY REQUEST NVESTIGATION ON Y	SHOWN ON SUPPORT GENERAL GOOGLE	ING DIAGRAM E AND KIND OF SO	a 40.342 ANT CONCERNING DAMAGE	BARRELS COUT OF LIN BARRELS CRECOVEREI	DF OIL 70 DF OIL 15 BBLS. 55
NONE OATING, PATCHES, UMBER OF LAMPS REMOVED UMBER OF OOT WELDS UMBER OF	ELOW, ANY REQUEST NVESTIGATION ON Y	SHOWN ON SUPPORT OR DISCUSSION WITH OUR PART. SHOWN ON SUPPORT NATURE GENERA GOO GENERA	ING DIAGRAM E AND KIND OF SO AL CONDITION OF OCU	a 40.342 ANT CONCERNING DAMAGE	BARRELS COUT OF LIN BARRELS CRECOVERED NET LOSS-I	TY WHICH MAY HAVE ARISEN VOLU OF OIL
AVAILAIN BRIEFLY BEARRILY WITHOUT IN NONE OATING, PATCHES, UMBER OF LAMPS REMOVED UMBER OF NODES ADDED EMARKS	ELOW, ANY REQUIST NVESTIGATION ON Y	SHOWN ON SUPPORT NATURE GENERA GOOG GENERA POOT	ING DIAGRAM E AND KIND OF SO AL CONDITION OF OCI CONDITION OF COIL SOAK	ant concerning damage The line coaring ed and loose	BARRELS COUT OF LESS - LOSS -	DE OIL NO TES 5 OF OIL TO DE OIL TO
NONE OATING, PATCHES, UMBER OF LAMPS REMOVED UMBER OF POT WELDS UMBER OF NODES ADDED	ELOW, ANY REQUIST NVESTIGATION ON Y	SHOWN ON SUPPORT NATURE GENERA GOOG GENERA POOT	ING DIAGRAM E AND KIND OF SO AL CONDITION OF OCI CONDITION OF COIL SOAK	ant concerning damage The line coaring ed and loose	BARRELS COUT OF LESS - LOSS -	TY WHICH MAY HAVE ARISEN VOLU OF OIL
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NONE COATING, PATCHES, UMBER OF POT WELDS UMBER OF POT WELDS UMBER OF NODES ADDED REMARKS OIL SOAKED Slight lea	ELOW, ANY REQUIST NVESTIGATION ON Y	SHOWN ON SUPPORT SHOWN ON SUPPORT REPLACED PERMA DIAGRA	ING DIAGRAM E AND KIND OF SO AL CONDITION OF OCU AL CONDITION OCU AL CONDITION OF OCU AL CONDITION OF OCU AL CONDITION OF OCU	ant concerning damage onl line coating ed and loose ge looks like ome time befor	BARRELS COUT OF LINE BARRELS CRECOVERED WITH TYPE 38 - GOUGING WITH COURSE OF PERMANENT	MNO YES 5 RTY WHICH MAY HAVE ARISEN VOLU OF OIL OF
NONE COATING, PATCHES, UMBER OF POT WELDS UMBER OF POT WELDS UMBER OF NODES ADDED REMARKS OIL SOAKED Slight lea	ELOW, ANY REQUIST NVESTIGATION ON Y	SHOWN ON SUPPORT SHOWN ON SUPPORT NATURE GENERA POOT Ceplaced. PERMA	ING DIAGHAM E AND KIND OF SO AL CONDITION OF OIL SOAK Pipe dama ent for s NENT REPAIR—REP AM R	ant concerning damage onl line coating ed and loose ge looks like ome time befor	BARRELS COUT OF LINE BARRELS CRECOVERED HOT LOSS-ING TYPE 38-	ETY WHICH MAY HAVE ARISEN VOLU OF OIL OF OIL

Lakehead Pipe Line Company, Inc.



W. C. COCHRANE

Vice-President & Manager

D. D. BURLEY

Asst. Manager

3025 Tower Avenue
P. O. Box 388
Superior, Wisconsin 54880

November 21, 1978

GCD-2917

Office of Pipeline Safety U.S. Department of Transportation Washington, D.C. 20590

Gentlemen:

Enclosed are two copies of Pipeline Carrier Accident Report (Form 7000-1) reporting on an accident which occurred on this company's pipeline system on November 14, 1978. The accident occurred in Section 7, Township 35 North, Range 7 West, Lake County, Indiana.

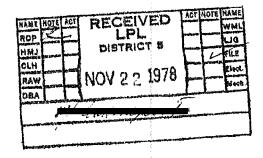
Very truly yours,

W. C. Cochrane

JES:sb Enclosures - 2

bcc: Mr. G. A. Cole w/att.

Mr. R. D. Piper "



	DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION PIPELINE CARRIER ACCIDENT REPORT							FORM APPROVED BUDGET BUREAU NO. 004R5501		
Instruc- tions	Complete in duplicate. If the space provided for any question is not adequate, attach an additional sheet. Definition of a reportable accident is stated in the Code of Federal Regulations, Title 49, Chapter 1, Part 195. File both copies of this report within 15 days after discovery of the accident with the Administrator, Federal Railroad Administration, Department of Transportation, Washington, D. C. 20591 (Re: Sec. 195.54). Detailed instructions for preparing this form are found in Part 195. Specimen copies of this form will be supplied upon request without charge. Additional copies may be reproduced using the same format and size.									
A Carrier Information	Lakehead Pipe Line Company, Inc. 2. PRINCIPAL BUSINESS ADDRESS							(*	
	3025 T	ower Aveni	ie, Sur	erior, Wisco	onsi	n 54880		i i		
B Time and Location of Accident	11-14-		3:05	CST NPM		RT OF CARRIER	PUMPING ST			DELIVERY POINT
	Indian	i (state. cou a, Lake, i	nty, city near Ho	bart	□ */	NK FARM	OTHER (SPE	CIF	-Y}	
	5. PHYSICAL	LOCATION (15	LOCATIO	ON IS NEAR PUBLI	C OR	PRIVATE BUILDS DRAWING SHOWS	NGS, OR OT	HEF NSH	S SIGNIFIE	CANT LANDMARKS
		NW Quar	cter, S	Sec. 7, T35N	, R7	W (Pipeline	M.P. 47	75.	21)	
C Origin of Liquid or Vapor	X PIPE	. !	GIRTH	WELD LONG	וסעדוי	NAL WELD [PUMP [] v	ALVE [SCRAPER TRAP
Release	METERO	RPROVER	TANK	MELD.	ED FI	TTING [BOLTED	117	TINGS	
	SAMPLE	10USE	HAY T	ANK STRA	INER	OR FILTER [OTHER (5	PE	CIFY)	
D Cause of Accident	☐ CORROSIC	•	DEFEC WELD	-		OPERATION BY		Ŀ	sonner Iquipme other(s	ent had gouged
E Death	1.	NUMBER OF	PERSONS	KILLED		2. !	NUMBER OF	PEI	RSONS IN.	IURED
or Injury	CARRIER	EMPLOYEES		NON-EMPLOYEES		CARRIER E	MPLOYEES	NON-EMPLOYEES		
•		0		0		C)	0		
F Property Damage		S DAMAGE (PH' R TY DAMAGE!		EMS DAMAGED						
	\$ 3,400	***************************************	Ι	amage to sid	de o	f pipe.				
	3. OTHER PE	ROPERTY DAM	AGE 4. 17	EMS DAMAGED						
	\$ 500]	immediate gro	ound	area was s	aturated	l w	ith o	LI.
G General Information		Y BEING TRA		STIMATED LOSS TO ACCIDENT		EAR FACILITY FALLED (EXCLU	4. WAS T	нег	REA	5. WAS THERE AN EXPLOSION?
	DENT	time of acci- de Oil	DUE	70 BARRELS	ING	n/a			IXI NO	YES XINO
Instructions	Cru	de Oil		70 BARRELS	Т	n/a	YES		⊠ но	YES NO
Instructions H Occurred	Answer se	de Oil	J only if	70	part ic	n/a ular accident b	YES ing reported 5. CONDIT	ION		6. TYPE OF JOINT
	Answer se	de Oil ctions H, I or 2. WALL THICKNESS	J only if	70 BARRELS they apply to the 4. YEAR OF INS	part ic	n/a ular accident b	TYES THE TENT TENT TENT TENT TENT TENT TENT T	D D	WHEN	
H Occurred	Answer see 1. NOMINAL DIAMETER 30 IN.	de Oil ctions H, I or 2. WALL THICKNESS .250 IN.	J only if 3. GRADS	TO BARRELS they apply to the 4. YEAR OF INS BEFORE 1920 X AFTER 1935 (part ic	n/a ular accident b	YES THE TENT OF T	ION D	WHEN	6. TYPE OF JOINT WELD COU- PLED : THREADED
H Occurred	Answer see 1. NOMINAL DIAMETER 30 IN.	ctions H, I or 2. WALL THICKNESS .250 IN.	J only if 3. GRADS	TO BARRELS they apply to the 4. YEAR OF INS BEFORE 1920 X AFTER 1935 (partic TALLA SPECI	n/a ular accident b	TYES THE TENT TENT TENT TENT TENT TENT TENT T	DITI	WHEN	6. TYPE OF JOINT WELD COU-
H Occurred	Answer se 1. NOMINAL DIAMETER 30 IN. 7. CONFIGUR	de Oil ctions H, I or 2. WALL THICKNESS .250 IN. RATION AT POI T SAG	Jonly if 3. GRADE 5LX52 NT OF AC	TO BARRELS they apply to the 4. YEAR OF INS BEFORE 1920 X AFTER 1935 (partic	n/a rular accident be TION 120-30 1930-5 FY YR.) 1969	TYES S. CONDITINSTALLE RECONDITINSTALLE RECONDITINSTALLE CONTENT OCCUPATION OCCUPATI	DITI	WHEN IONED ED	6. TYPE OF JOINT WELD COU- PLED THREADED 9. PIPE WAS ABOVE GROUND BELOW THERE BEEN A
H Occurred	Answer so Answer so NOMINAL DIAMETER 30 IN. CONFIGUR STRAIGHT	de Oil ctions H, I or 2. WALL THICKNESS .250 IN. RATION AT POI T SAG	Jonly if 3. GRADE 5LX52 NT OF AC	TO BARRELS they apply to the 4. YEAR OF INS BEFORE 1920 X AFTER 1935 (CCIDENT BEND SIDES	partic	n/a rular accident be	TYES S. CONDITINSTALLE RECONDITINSTALLE RECONDITINSTALLE CONTENT OCCUPATION OCCUPATI	DITI	WHEN IONED ED	6. TYPE OF JOINT WELD COU- PLED: THREADED 9. PIPE WAS ABOVE GROUND
H Occurred	Answer so 1. NOMINAL DIAMETER 30 IN. 7. CONFIGUR STRAIGH	de Oil ctions H, I or 2. WALL THICKNESS .250 IN. RATION AT POI T SAG F BELOW	Jonly if 3. GRADE 5LX52 NT OF AC	they apply to the 4. YEAR OF INST BEFORE 1920 X AFTER 1935 (CIDENT BEND SIDES	PARTICIPATION	n/a rular accident by TION 120-30 [1930-5 FY YR.) 1969 RESSURE AT TIM OF ACCIDENT 397 URATION OF	TYES S. CONDIT INSTALLE RECONT 8. PIPE WA COATER NOT CO	DITI	WHEN IONED 13. HAD PRESSUR X YES	6. TYPE OF JOINT WELD COU- PLED THREADED 9. PIPE WAS ABOVE GROUND BELOW THERE BEEN A E TEST ON SYSTEM?

EEC Report Number:

FA1984-001

Report Date:

03/29/2010

Report Type: Pi

Pipe Repair/Replacement

Location

Reporting Office Ft Atkinson	Date Discovered 01/11/84	Date Repaire 01/11/84	d	Report Date 03/29/2010	
Pipe Line Location - P 512.27	ump Station or Milepo	st Line No. 6B	Line Size	Special Cost Number D5-97-84	
Specific Location - Loc 2464+98 - 240' E		ationing on a Route Sh	neet	Route Sheet Number C-385	
Quarter	Section 03	Township 37N	Range 2W	Tract No. N-643-3	
Meridian/County 70	Province/State IN	Lat & Long Location Lat. Long.	GPS Location	on GPS Reading N. W. E.	
Property Owner's Na	me and Address		Property Tenant'	s Name and Address	
Property Owner's Name and Address Johnson Thomas M & Kelly M Moody Thomas M Johnson & Kelly M Moody 5841 North County Road 350 East					
Full Description of Pro	perty Damage and an	y communications with	owner or tenant	(Attach a sketch if necessary)	

Leak

	nd Cause of Break or Leak athodic protection interfere	ence with another pipe li	ne in area (Wolverine Pipe Line)	
Oil Out of Line - Barrels 5	Oil Recovered - Barrels 0	Net Loss - Barrels 5	Crude Type SW	
Batch Number SWX 897				
Disposition of Lost Oil Oil dispensed into surronding soil. Unable to pick up.				
Name and Address of Per- Dale Nelson - Employ			Was a Report Fee Paid? No	

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Standard 14" long 30" diameter Plidco repair sleeve installed over leak. Split repair sleeve will not be
put over other coroded areas.
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
(See Corrosion Inspection Report)		-

	Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split		
ĺ	LPL Personnel must also complete a Corrosion Inspection Report				

Was there any Stock Pipe Insta	iled? (If yes, attach hydrotest red	cords)	Hydrotest Number	
Remarks:				
Government Agency Notified Yes	Individual contacted Bruce Frost (Ind. St. Board of Health)	Date 01/16/	/84	Time 12/30/1899 11:30:00 AM
Report Completed by and Signature Julia Rask		Date Entere 03/29/201	•	gs By Tech. Services

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	FA1984-001	Report Date:	03/29/2010
Part A - General Inform	ation Concerning Exce	avation	
Line Number and Size 6B - (30)	MilePost/Station 512.27	Tract No. N-643-3	Stationing 2464+98
Purpose of Excavation Pipe Repair/Replacen	nent	Soil Type Sand & Clay	Terrain Type
Compl	ete These Lines if Exc	avation is for Instrument	Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	,	Anomaly Size
Part B - Inspection Res	ults		
Condition of Outside of Pipe			
Comments			
Existing Coating is : Condition of Coating : Satisf Comments : New Coating is :	factory	Co	pating Length is :
Pipe to Soil Potential : Comments :			
Condition of Inside of Pipe : Comments :			
Inspected By :		Da	ate Inspected:
Part C - Signatures			
Pipe Line Foreman Julia Rask			Date 03/29/2010

Enbridge Energy Company PLM Activity Report

General Information Report Number: FA1984-001 Report Date: 03/29/2010 Reporter's Name: Julia Rask Inspector'sName: Type of Work Performed: Pipe Repair/Replacement Where Was Work Performed: Mainline **Mainline Information** Line Number: 6B Line Size: 30 Wall Thickness: 0.250 Milepost: 512.27

Line Lowering

Report Information

Stationing:

The following reports may need to be completed for each type of work listed below:

2464+98

Pipe Repair/Replacement Shorted Casing Fitting Installation
Valve Installation Casing Extension Pump Installation

- Pipe Repair/Replacement
- R-O-W Information Report
- Corrosion Inspection

Kaliper Tool Anomaly Corrosion Tool Anomoly

- R-O-W Information Report
- Corrosion Inspection
- If you install a repair sleeve or a cutout:
 Pipe Repair/Replacement

Foreign Crossing

- Foreign Crossing
- If pipe was exposed:

Corrosion Inspection

If pipe was damaged:

R-O-W Information Report Pipe Repair/Replacement

				BREA	AK OR LEAK REPOR	RT 💯
ERPROVINCIAL PIPE LINE	LIMITED / LAKEF	IEAD PIPE LINE	COMPANY, INC.	PERM	MANENT REPAIR RE	EPORT []
ORTING OFFICE -	DATE AND TIME (MST) OF BREAK	DATE OF REPAIR		DATE OF REPORT	
at Atkinson	Hokoos	111	laminory	11. 1984	Incomme	r 13
LINE LOCATION - PLIMPING S	TATION OF MU EAG	EMARKED	I INE SIZE		SPECIAL COST NO	
MP-512 SO - 3	Off line MA	37 2464 +98	300 .	0.395		•
SPECIFIC LOCATION - FOOT	O LINE DIO	NOTATIONING ON	THE ATLAS BEALW		05-97-8	. · · •
	Cty Road 3					
RTER SECTION		RANGE	TRACT NO.	MERIDIAN - COU		
V/E : 3 *	3711	211 '	N-643-7	LaPorte	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	H ma
É AND ADDRESS OF PERSON					WAS REPORT FEE	PAID? AMOUNT
Dale Nelsc	un - Employe	e '			☑ NO ☐ YE	ES \$
PERTY OWNER'S NAME AND A	ADDRESS					
Bernard J. Bir	chfield: 57	67 N. CIV	Rd. 350 F.	e Lagorra C	(v) 7 N	
PERTY TENANT'S NAME AND					, , , , , , , , , , , , , , , , , , ,	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

L DESCRIPTION OF PROPERTY						
Essentiall	y none. Sm	<u>ıəll area (</u>	of contamina	<u>ated soil.</u>		

AM GRIEFI V SELOW ANV F	POLICE OF FIGURE	SACAL MANAGE	O O O TECHNOLITY OF ALL		the state of the s	
LAIN BRIEFLY BELOW, ANY F SEN VOLUNTARILY WITHOUT	INVESTIGATION OF	SION WITH OWNE VOUR PART,	CONCERNANT CONC	LERNING DAMAGES	TO PROPERTY WH	ICH MAY HAVE
Property c	wner advise	d R/W dept	t. would be	contacting	dita. This	
						110101110011111111111111111111111111111
has been o	one by the	Right of 1	Jay Dent. G	A. Derver		
URE AND CAUSE OF BREAK	· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,	11000	1.00		
		and the form of the same	ر فار التاجيب التاجيب التاجيب التاجيب			
COLLDSION	caused by c	athoaic pi	rotection in	HORBY 671801	With and the	· (2.)*
	<u>in area. (W</u>			######################################		
NATURE OF REPAIR & FITT	INGS ADDED TO MA	IN LINE: SHOW B	BY APPROPRIATE SK	ETCH.		
Standard 1	.4" long 30"	' diameter	Pliden repa	air sleave	installed :	No. of
		,	······································			A Print Street Construction Con
leak, Spl	if repair s	cleeve wil	I he put ove	ar other in	errobad eras	* 1 ()
	The Res Contract of Charles and Charles	The Application of the Act	2. 10 % 18 8 7 C C S V C		5/8/1//12/21/1 (4/8/19)	1
URE AND KIND OF SOIL	TRABBELE OF OU		Tonung			****
	BARRELS OF OIL		CRUDE TYPE		BATCH NO.	14.
Sandy - Clav	8	norox. 🤌 🖰	1411	1) ·	
IERAL CONDITION OF LINE	BARRELS OF OIL RECOVERED	•	DISPOSITION OF L	OST OIL		
Good	KECOVERED	Nil *	Oil dia	pegget into	surround b	10.
IERAL CONDITION OF	NET LOSS - BBLS.					And the state of t
TING Good		5	soft,	Urable to o	cost in	
1ARKS	_1		137.65 24 6	CONTRACTOR LANGE	ZSA NGA	
MNN						
	A			water water and the same and th		·
AND						***************************************
<u>RE</u>	PORTED TO GOVER	NMENTAL AGENC	IES: FEDERAL, PRO	VINCE/STATE, COA	ST GUARD, ETC.	
AGENCY	*	INDIVIDUAL CO	NTACTED	DATE	TIME	
		***************************************	The state of the s			☐ TELEPHON
Ind. St. Board	l of Health	Bruce	Princt *	17 (8	11:30 054	☐ LETTER
	- gray CONGAGEST	4 # Bu Met North	.,	y 1,11		
Taparta Cen	lantch Dane	Permanen	E7 9442	18 8 1 4		☐ TELEPHON
LaPorte Cty. }	rearru nebr.	. targene	F. Nochana	1/11		☐ LETTER
						☐ TELEPHON
						☐ LETTER
IGNED				NUMBER OF	THIS REPORT	
i Danier	Carrier Contract of the Contra			PERMANENT REPAIR		
ROVED			**************************************			The state of the s
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				BREAK OR LEAK	INTRAL NO	1 1120
.MGR.					MIKITH IVE	1. 11 a

EEC Re	port	Num	ber:
	Poit		001.

MR95042

Report Date:

07/05/95

Report Type: Corrosion Tool Anomaly

Location

Reporting Office Marshall	Date Discovered 06/26/95	Date Repaired 06/26/95		Report Date 07/05/95
Pipe Line Location - 671.96	Pump Station or Milep	ost Line No. 6B	Line Size	Special Cost Number SCN-3497
Specific Location - L 10897+11 -	ocation from a known	stationing on a Route She	eet	Route Sheet Number C-416
Quarter NW	Section 17	Township T3N	Range R5E	Tract No. M-786-2
Meridian/County Livingston	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	on GPS Reading N. W. E.
Property Owner's N	ame and Address	F	Property Tenant's	s Name and Address
MI 48843				

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)

Damage Accessing: Few ruts and trampled grass, 3/4" water hose to horse pen.

Damage to Work Area: 1 Excavation - 25' x 85'. Broke a few branches off a couple of White Pine Trees - Branchs 1" dia. Mr. Baldwin requested switch grass be planted over excavation for rabbits and birds which we did and repaired fence.

Leak

-car			
	and Cause of Break or Leak pit 2" long x 1-1/2" circ.		
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels	Crude Type
Batch Number		,	
Disposition of Lost Oil Rags and shirt.	I		
Name and Address of Per- Mick Collier	son Reporting Leak		Was a Report Fee Paid?

Repair

l	Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
L	1/2" x 30" x 30" long split repair sleeving filet welded to pipe.
	Welding Procedure or Procedures with Welder Name(s)
	Welding Inspector Name
	NDE Personnel

General Condition of Line (See Corrosion Inspection Report)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Tapecoat 20 - 55
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.35	Type of Sleeve

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		records) Hydi	Hydrotest Number	
Remarks:				
Government Agency Notified	Individual contacted	Date	Time	
Report Completed by and Signa	ture	Date Entered on 3	System Drawings By Tech. Services	S

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MR95042	Report Date:	07/05/95		
Part A - General Inform	ation Concerning Excava	tion			
Line Number and Size 6B - (30")	MilePost/Station 671.96	Tract No. M-786-2	Stationing 10897+11		
Purpose of Excavation Corrosion Tool Anoma	aly	Soil Type Clay	Terrain Type Wooded		
Compl	ete These Lines if Excava	ation is for Instrumen	t Pig Investigation		
Type of Pig British Gas	Indication No. 23	Log Footage 1093074	Reported Grade Depth or RPR 90%		
Corrosion Type External					
Part B - Inspection Res	ults				
Condition of Outside of Pipe					
Comments 1 - external corrosion Weeper.	pit 2" long x 1-1/2" circ.				
Existing Coating is : Polyke Condition of Coating : Comments : Ultrasoniced New Coating is : Tapecoat	at fillet weld locations.	C	Coating Length is : 55		
Pipe to Soil Potential: -1.35 Comments:					
Condition of Inside of Pipe : Comments :	70.18				
Inspected By : Brian Whit	taker]	Date Inspected: 07/05/95		
Part C - Signatures	1670-127				
Pipe Line Foreman			Date 07/05/95		

EEC Report Number:

MA1978-003

Report Date:

04/20/2010

Report Type:

Pipe Repair/Replacement

Location

Reporting Office Marshall	Date Discovered 04/07/78	Date Repaire 04/08/78	ed		Report Date 04/20/2010	0
Pipe Line Location - F 682.77	st Line No. 6B		Line Size 30	1	Special Cost Number D6-95-78	
Specific Location - Location from a known stationing on a 11467+65 -			heet		Route Sheet C-418	Number
Quarter	Section 26	Township 4N		ange E		Tract No. M-795-5
Meridian/County 40	Province/State MI	Lat & Long Locatio Lat. Long.	n Gl	GPS Location		GPS Reading N. W. E.
Property Owner's Name and Address Hightower Larry & Eileen Larry & Eileen Hightower 12330 Rohn Road 12330 Rohn Road					dress	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)						

Leak

Leak			
	and Cause of Break or Leak end of casing and 2 small p	oin hole leaks.	
Oil Out of Line - Barrels 4 Batch Number	Oil Recovered - Barrels 4	Net Loss - Barrels 0	Crude Type Sox
Sox-308 Disposition of Lost Oil			
Pumped back in line.			
Name and Address of Per Mr. Richard Graham	son Reporting Leak 7520 Denton Hill Rd Fento	on MI 48430	Was a Report Fee Paid?

Repair

Nepali	
Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)	
Installed 30" x 30" Plidco Sleeve onto M/L	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel	

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
(See Corrosion Inspection Report)		-

Dent Buckle or Gouge Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split	
LPL Pers	sonnel must also complete a Corrosion	n Inspection Report	
Was there any Stock Pipe Installed? (If No	yes, attach hydrotest records)	Hydrotest Number	
Remarks:			

Individual contacted

Date 04/07/78

Mr. Ron Shaver and Mr. Mike Young Report Completed by and Signature Julia Rask

Government Agency Notified Yes

Date Entered on System Drawings By Tech. Services 04/20/2010

Time

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MA1978-003	Report Date:	04/20/2010
Dort A. Conoral Inform	ation Concerning Even	ration	
Part A - General Inform	ation Concerning Excav	valion	
Line Number and Size 6B - (30)	MilePost/Station 682.77	Tract No. M-795-5	Stationing 11467+65
Purpose of Excavation Pipe Repair/Replacem	nent	Soil Type Clay	Terrain Type
Comple	ete These Lines if Exca	vation is for Instrument	Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	,	Anomaly Size
Part B - Inspection Res	ulte		
Tart D - mapociton reas	uito		
Condition of Outside of Pipe Dent Buckle or Gouge Comments Buckle at end of casin			
Existing Coating is : Condition of Coating : Satisf Comments :	factory		and the state of t
New Coating is : Pipe to Soil Potential : Comments :		Co	oating Length is :
Condition of Inside of Pipe : Comments :			
Inspected By : JE M Came	у	Da	ate Inspected: 04/08/78
Part C - Signatures			
Pipe Line Foreman Julia Rask			Date 04/20/2010

Enbridge Energy Company PLM Activity Report

General Information

Report Number: Reporter's Name: MA1978-003 Julia Rask Report Date:

04/20/2010

Inspector'sName:

Type of Work Performed:

Where Was Work Performed:

Pipe Repair/Replacement

Mainline

Mainline Information

Line Number:

__6B

Line Size:

30

Wall Thickness:

0.250

Milepost:

682.77

Stationing:

11467+65

Report Information

The following reports may need to be completed for each type of work listed below:

Pipe Repair/Replacement Valve Installation

Shorted Casing Casing Extension

Fitting Installation
Pump Installation

Line Lowering

- Pipe Repair/Replacement
 - R-O-W Information Report
 - Corrosion Inspection

Kaliper Tool Anomaly

Corrosion Tool Anomoly

- R-O-W Information Report
- Corrosion Inspection
- If you install a repair sleeve or a cutout:

Pipe Repair/Replacement

Foreign Crossing

- Foreign Crossing
- If pipe was exposed:

Corrosion Inspection

• If pipe was damaged:

R-O-W Information Report

Pipe Repair/Replacement

	REPORTED TO GOV	VERNMENTAL AGENCIES: FEDERAL, PROVI	NCE/STATE, COA	ST GUARD, ETC.	
	AGENCY	INDIVIDUAL CONTACTED	DATE	TIME	
					₩ TELEPHONE
NR	Mt. Pleasant, MI	Mr. Ron Shaver	4/7/78	2230 MST	☐ LETTER
					TELEPHONE
PΑ	Washington	Mr. Mike Young	4 /7/78	2255 MST	□ LETTER
					TELEPHONE
jee	Dig		4/7/78	2023 MST	☐ LETTER
	JIGNED		NUMBER OF	THIS REPORT	
ظعسد			PERMANENT REPAIR	Central No.	615
APPR	OVED		BREAK OR LEAK	Central No.	615

Form F-17A (1976)

1. White - Division Office
2. Green - District Office

3. Yellow - Retain

FORM D.O.T. 195.416-.418

PART A -

1330 AL

D.O.T. REGULATION COMPLIANCE

Lakehead Pipe Line Company, Inc.

"AME NOTE AC		ACT NOTE	NAME
RSB	PIPE LINE CO, INC.	1400	-61
WAB			710
908	APR 12 1978		GSM
NOU	117 6 0-110 10010		CEN
ING			DET

Lack Report 20 615

CORROSION INSPECTION REPOR

PARTS A & B OF THIS REPORT MUST BE COMPLETED WHENEVER THE PIPE LINE IS EXPOSED FOR ANY REASON. PART C MUST ALSO BE COMPLETED WHEN ANY PORTION OF THE PIPE LINE IS REMOVED.

GENERAL INFORMATION CONCERNING EXCAVATION

1. ATLAS STATION	ATION 4. PURPOSE				
c-418	Dig leak and weld	1 30" x 30" Plidco Sleeve			
2. TRACT NO.					
M-7 95-5	5. TYPE OF SOIL AND TERRA	AIN			
3, MILE POST					
682	Clay				
PART B - INSPECTION F	OR EXTERNAL CORROSIO	N	D.O.T. Regulation Sec. 195.416 (e)		
1. CONDITION OF PIPE		2. CONDITION OF COATING	·		
Good		Fair			
3. REMARKS - GIVE DESCRIPTION C	OF ANY ABNORMAL CONDITIONS				
Buckle at	end of casing				
			and the second s		
4. DATE INSPECTED		5. INSPECTED BY			
April 8, 1978					
PART C - INSPECTION FOI	R INTERNAL CORROSION		D.O.T. Regulation Sec. 195,418 (d)		
1. CONDITION OF INSIDE OF PIPE					
2. REMARKS - GIVE DESCRIPTION O	OF ANY ABNORMAL CONDITIONS				
O DATE INSPECTED		4. INSPECTED BY			
PIPE LINE FOREMAN,		DISTRICT SUPERINTENDENT			
		(Annual of the second of the			
Copies to: Division Manager and District	Superintendent - Originator makes cop	y as desired.	LINE SIZE 30"		

EEC Report Number: MA1979-001

Report Date: 04/26/2010 Report Type: Excavated for leak in 30"

crude oil line. L6

10	00	Ŷ۱	-	n
-u	ca	Ł	u	

NDE Personnel

Reporting Office Marshall	Date Discovered 01/09/79		Repaired		Report Dat	
The state of the s	Pump Station or Milepo:	01/09 st Line No.	0119	Line Size	04/26/20	- APA-07-10-10-10-10-10-10-10-10-10-10-10-10-10-
714.93	rump Station or Milepo:	6B		30		Special Cost Number
Specific Location - Lo 13165+57 -	cation from a known st	ationing on a R	oute Sheet		Route She C-425	et Number
Quarter	Section 15	Township 5N		Range 11E		Tract No. M-824-4
Meridian/County 41	Province/State MI	Lat & Long L Lat. Long.	ocation	GPS Location	'n	GPS Reading N. W. E.
Property Owner's Na	me and Address		Pro	perty Tenant's	s Name and A	Address
Old Joseph & Kathy Joseph & Kathy Old PO box 598 PO box 598						
eak Describe Specific Na	ture and Cause of Brea	ak or Leak				
			1			
Oil Out of Line - Barre	els Oil Recovered	- Barrels	Net 0	Loss - Barrels	3	Crude Type
Batch Number						<u></u>
Disposition of Lost O	il					
Name and Address of	of Person Reporting Lea	ak			Was a	a Report Fee Paid?
Repair Nature of Repair & Fi	itting added to Mainline	(Attach eketch	- Identify ::	netroam & Dir	a Orientation	1
Excavation.	itting added to Maii iii le	(Mildeli Skeich	- ruentiny u	policaili a rij	e Onemation)
Welding Procedure o	r Procedures with Weld	der Name(s)				
Welding Inspector Na	ame					
vveiding inspector No	iiiic					

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report)		(=0)	
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve	
LPL Pers	sonnel must also complete a Corrosion Ins	spection Report	

Was there any Stock Pipe Installed? (If yes, attach hydrotest records)			Hydrotest Number	
Remarks:			•	
Government Agency Notified	Individual contacted	Date		Time
Report Completed by and Signature Julia Rask		Date Entere 04/26/20		gs By Tech. Services

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MA1979-001	Report Date:	04/26/2010
Part A - General Informa	ation Concerning Excava	ation	
Line Number and Size 6B - (30)	MilePost/Station 714.93	Tract No. M-824-4	Stationing 13165+57
Purpose of Excavation Excavated for leak in 3	30" crude oil line. L6	Soil Type Clay	Terrain Type
Comple	ete These Lines if Excav	ation is for Instrument	t Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth		Anomaly Size
			100000000000000000000000000000000000000
Part B - Inspection Res	ults		
Condition of Outside of Pipe			
.,,			
Comments			
Existing Coating is :			
Condition of Coating:			
Comments : New Coating is :			Cooting Longth is :
Pipe to Soil Potential :			Coating Length is:
Comments:			
Condition of Inside of Pipe :			
Comments :			
Inspected By :		D	Pate Inspected: 01/09/79

Part C - Signatures			
Pipe Line Foreman Julia Rask			Date 04/26/2010

FORM D.O.T. 195.416-418

D.O.T. REGULATION COMPLIANCE

Lakehead Pipe Line Company, Inc.

A got the

CORROSION INSPECTION REPORT

PARTS A & B OF THIS REPORT MUST BE COMPLETED WHENEVER THE PIPE LINE IS EXPOSED FOR ANY REASON. PART C MUST ALSO BE COMPLETED WHEN ANY PORTION OF THE PIPE LINE IS REMOVED.

PART A - GENERAL	. INFORMATION CONCERNIN	IG EXCAVATION			
1. ATLAS STATION	4. PURPOSE	4. PURPOSE			
13165 + 57	Excavated for 3	Excavated for leak in 30" crude oil line, Line6.			
2. TRACT NO.		The state of the s			
M-824-4	5. TYPE OF SOIL AND TE	RRAIN			
3. MILE POST					
714.93	Clay Loam				
PART B - INSPECTI	ON FOR EXTERNAL CORRO	SION	D.O.T. Regulation Sec. 195,416 (e)		
1. CONDITION OF PIPE		2. CONDITION OF COATING			
Good		Good			
3. REMARKS - GIVE DESCRIPT	TION OF ANY ABNORMAL CONDITION	NS	32-32-32-32-32-32-32-32-32-32-32-32-32-3		
And the second s					
4. DATE INSPECTED		5. INSPECTED BY			
January 9, 1979					
	FOR INTERNAL CORROSIO	N	D.O.T. Regulation Sec. 195,418 (d)		
1. CONDITION OF INSIDE OF	PIPE				
		2000/0000000000000000000000000000000000			
2. REMARKS - GIVE DESCRIP	TION OF ANY ABNORMAL CONDITIO	NS			
3. DATE INSPECTED		4. INSPECTED BY			
PIPE LINE FOREMAN		DISTRICT SUPERINTENDENT			

EEC Report Number: Report Date:

MA1987-001

04/26/2010

Report Type:

Pipe Repair/Replacement

Location

Location						
Reporting Office Marshall	Date Discovered 07/30/87	Date Rep 07/31/8			Report Date 04/26/201	
Pipe Line Location - 1 716.32	Pump Station or Milepo	st Line No. 6B		Line Size		Special Cost Number 3693
Specific Location - Location from a known stationing on a Route 13239+28 -			e Sheet		Route Shee C-425	t Number
Quarter	Section 13	Township 5N		Range 11E		Tract No. M-826-1C
Meridian/County 41	Province/State MI	Lat & Long Loc Lat. Long.	ation	GPS Location	n	GPS Reading N. W. E.
Property Owner's Name and Address Blough John P John P. Blough 76955 Dequindre Road 76955 Dequindre Road (248) 628-4840					s Name and Ac	
Full Description of Pr	roperty Damage and an	y communications	with ow	ner or tenant	(Attach a sketc	h if necessary)

Leak

Describe Specific Nature and Cause of Break or Leak					
Oil Out of Line - Barrels	Oil Recovered - Barrels 0	Net Loss - Barrels	Crude Type		
Batch Number					
Disposition of Lost Oil Negligible amounts of oily rags and sail hauled to Marshall for disposal.					
Name and Address of Per- Aerial Partol Pilot	son Reporting Leak		Was a Report Fee Paid? No		

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 30" x 14" Plidco Repair Sleeve was installed.	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel	

General	Condi	tion of	Line

(See Corrosion Inspection Report) Dent Buckle or Gouge		-	
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split	
LPL Pers	onnel must also complete a Corrosion Ins	spection Report	
Other			

Was there any Stock Pipe Install	ed? (If yes, attach hydrotest r	ecords)	Hydrotest Number	
Remarks:				
Government Agency Notified	Individual contacted	Date		Time
Report Completed by and Signa Julia Rask	ture	Date Entere 04/26/20	•	gs By Tech. Services

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MA1987-001	Report Date:	04/26/2010
Part A - General Inform	nation Concerning Excav	vation	
Line Number and Size 6B - (30)	MilePost/Station 716.32	Tract No. M-826-1C	Stationing 13239+28
Purpose of Excavation Pipe Repair/Replacer	nent	Soil Type Clay, Rocky	Terrain Type Wooded
Compl	lete These Lines if Exca	vation is for Instrumen	t Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth		Anomaly Size
	1		
Part B - Inspection Res	suits	,	
30" line. At caused app small leak. A 14" Plido was ultrasoniced with o circumference ends for	d at approx 6:30 position prox 3 1/2" diameter dent sleeve was installed. At company equipment arou	which created a fter it was installed it	
Existing Coating is : Condition of Coating :			
	or where oil had leaked.	c	Coating Length is :
Pipe to Soil Potential : Comments :			
Condition of Inside of Pipe : Comments :			
Inspected By : DL Fritz		D	Pate Inspected: 07/30/87
Part C - Signatures			
Pipe Line Foreman Julia Rask			Date 04/26/2010

Enbridge Energy Company PLM Activity Report

General Information

Report Number:

MA1987-001 Julia Rask

Report Date:

04/26/2010

Reporter's Name: Inspector'sName:

Type of Work Performed:

Pipe Repair/Replacement

Where Was Work Performed:

Mainline

Mainline Information

Line Number:

6B

Line Size:

30

Wall Thickness:

0.250

Milepost:

716.32

Stationing:

13239+28

Report Information

The following reports may need to be completed for each type of work listed below:

Pipe Repair/Replacement

Shorted Casing

Fitting Installation

Line Lowering

Valve Installation

Casing Extension

Pump Installation

- Pipe Repair/Replacement
- R-O-W Information Report
- Corrosion Inspection

Kaliper Tool Anomaly

Corrosion Tool Anomoly

- R-O-W Information Report
- Corrosion Inspection
- If you install a repair sleeve or a cutout:

Pipe Repair/Replacement

Foreign Crossing

- Foreign Crossing
- If pipe was exposed:

Corrosion Inspection

If pipe was damaged:

R-O-W Information Report

Pipe Repair/Replacement

Form F-17A (1976)

Rocalin.

1. White - Division Office

2, Green - District Office

3. Yellow - Retain

D.O.T. REGULATION COMPLIANCE

Lakehead Pipe Line Company, Inc.

CORROSION INSPECTION REPORT

PARTS A & B OF THIS REPORT MUST BE COMPLETED WHENEVER THE PIPE LINE IS EXPOSED FOR ANY REASON. PART C MUST ALSO BE COMPLETED WHEN ANY PORTION OF THE PIPE LINE IS REMOVED.

PARTA - GENERAL INFORMATION CONC	ERNING EX	CAVATION	V	
1. LINE SIZE AND NO.	2. MILE POS	Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3. TRACT NO.	4. ATLAS STATION
30" line 6	716.5	446 - Deni	M-826-1C	13239 + 28
5. PURPOSE OF EXCAVATION Leak at M.P. 716.5			6. SOIL ☐ SAND ☐ LOAM ☒ CLAY ☒ ROCKY	7. TERRAIN 图 WOODED □ CULTIVATED □ SWAMPY
COMPLETE THIS LINE IF EX	CAVATION IS	FOR INSTRU	MENT PIG INVESTIGAT	ION
8. TYPE OF PIG	9. INDICATI	ON NO.	10. LOG FOOTAGE	11. GRADE OF INDICATION
PART B - INSPECTION FOR EXTERNAL CO	RROSION			D.O.T. Regulation Sec. 195.416 (e)
1. CONDITION OF PIPE Good		Good	ION OF COATING where oil had leak	ed.
A rock was uncovered at appliance. It caused approximately A 14" Plidco REpair Sleeve was After the 14" Plidco was: with Company Equipment around to	3½" diamet installed. installed c	er dent w	which created a sma lent, it was ultras ds.for internal co	all leak.
July 30, 1987		l	Pritz, D. H. LaVoy	and L. H. DeBriyn
PART C — INSPECTION FOR INTERNAL CO 1. CONDITION OF INSIDE OF PIPE	RROSION			D.O.T. Regulation Sec. 195.418 (d)
2. REMARKS - GIVE DESCRIPTION OF ANY ABNORM	MAL CONDITION	ONS		
3. DATE INSPECTED		4. INSPECT	red by	
D. H. LaVoy		DISTRICT	SUPERINTENDENT	
Copies to: Division Manager and District Superintendent - Origina	tor makes copy as	desired.		

Enbridge Energy Company Permanent Repair Report

EEC Report Number:

MA1988-002

Report Date:

04/26/2010

Report Type: Spill Cleanup

Location

Reporting Office Marshall	Date Discovered 06/16/88			Report Date 04/26/2010
Pipe Line Location - Pump Station or Milepost Line No. 722.81 6B			Line Size	e Special Cost Number D6-99-88
Specific Location - Lo 13581+76 -	ocation from a known s	tationing on a Route Sh	eet	Route Sheet Number C-427
Quarter	Section 12	Township 5N	Range 12E	Tract No. M-832-1L
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	on GPS Reading N. W. E.
Property Owner's Na Enbridge Energy Lir Enbridge Energy Lir 119 N. 25th Street E 119 N. 25th Street E	nited Partnership nited Partnership East East			's Name and Address (Attach a sketch if necessary)

Leak

LCGK			
Describe Specific Nature a Repair not due to a le	and Cause of Break or Leak eak.		
Oil Out of Line - Barrels 8500	Oil Recovered - Barrels 7300	Net Loss - Barrels 1200	Crude Type Bowriver
Batch Number			
Disposition of Lost Oil Burned and soaked i	nto soil		
Name and Address of Per John Ferguson 1520	son Reporting Leak 3 Reid Rd Romeo, MI 480	65	Was a Report Fee Paid?

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
Cleanup from an idle crossover line that ruptured due to pressure build up due to thermal expansion.
Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
(See Corrosion Inspection Report)		-

Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve	
LPL Pers	sonnel must also complete a Corrosion Ins	spection Report	

Other

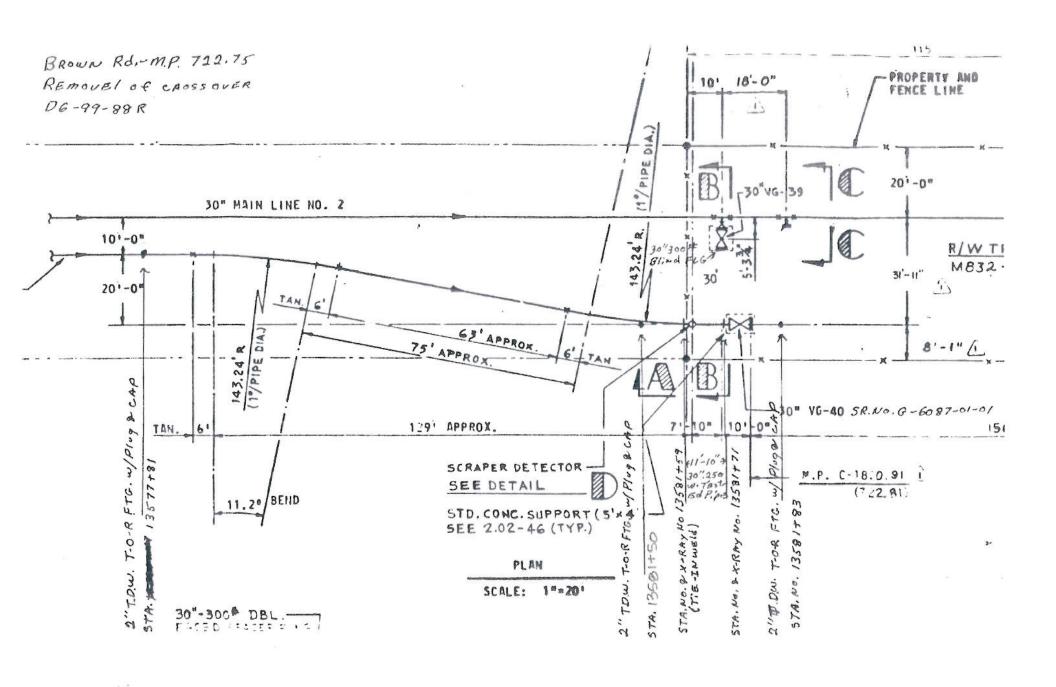
Was there any Stock Pipe Instal	ed? (If yes, attach hydrotest record	ds) Hydrotest N	lumber
Remarks:		1	The second second second second
Government Agency Notified Yes	Individual contacted Michigan State Police9	Date 06/16/88	Time 12/30/1899 09:15:00 AM
Report Completed by and Signa Julia Rask	The second secon	Date Entered on System 04/26/2010	Drawings By Tech. Services

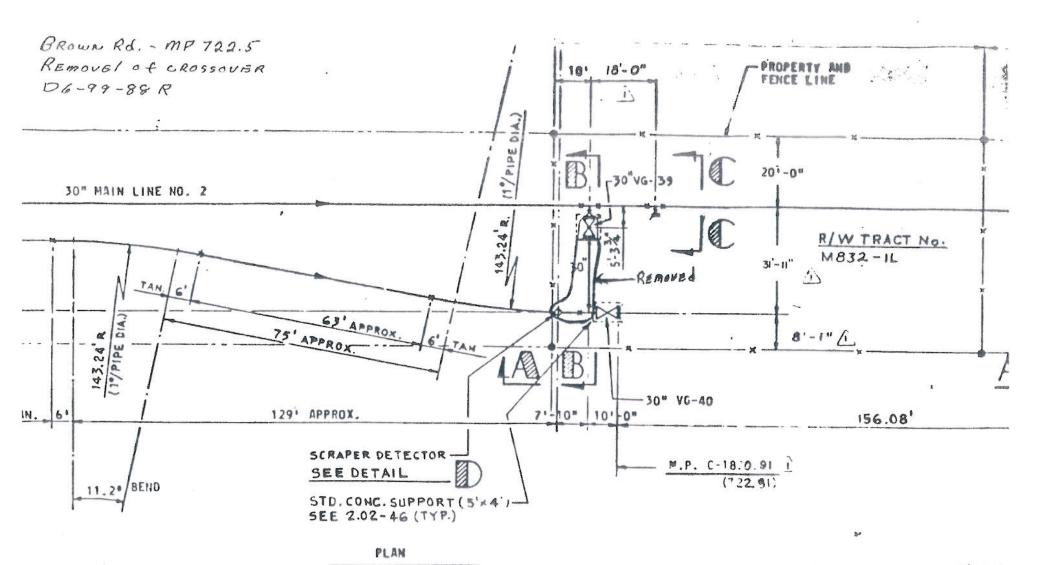
Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MA1988-002	Report Date:	04/26/2010
Part A - General Inform	ation Concerning Excav	ation	
Line Number and Size 6B - (30)	MilePost/Station 722.81	Tract No. M-832-1L	Stationing 13581+76
Purpose of Excavation Spill Cleanup	A SECURIOR CONTRACTOR	Soil Type Clay	Terrain Type
Compl	ete These Lines if Excav	ation is for Instrumen	t Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth		Anomaly Size
Part B - Inspection Res	ults		
Condition of Outside of Pipe			
Comments			
Existing Coating is : Condition of Coating : Comments : New Coating is :	16-110-111	C	Coating Length is :
Pipe to Soil Potential :			
Comments :			
Condition of Inside of Pipe : Comments :			
Inspected By :		С	Date Inspected:
Part C - Signatures			- 10 100
Pipe Line Foreman Julia Rask			Date 04/26/2010

Form F-17A (1976)

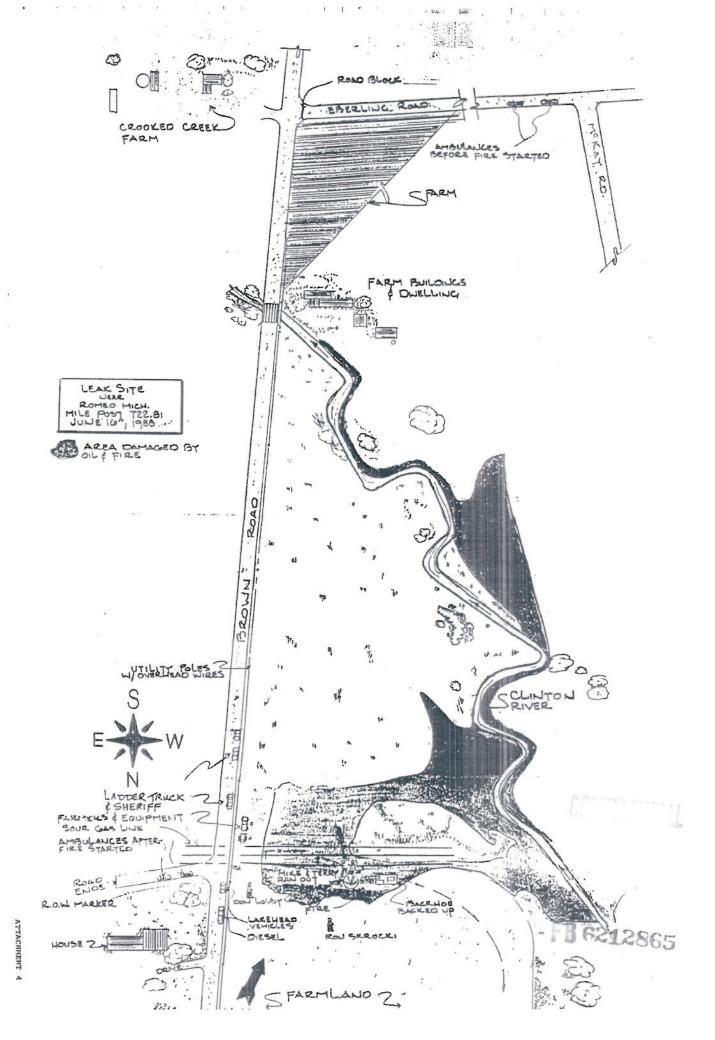
1. White - Division Office 2. Green - District Office 3. Yellow - Retain





SCALE: 1"=20"

30"-30C DBL.



MTERPKOVINCIA AKEHEAD PIPE				LINE NO. 6			1. 3.
				LOCATION MP 7			
OM DESTRUCTION OF		STATE OF THE PARTY	PILLET U	CHAINAGE 13577			
VE	- SAVER SI	MAT & SATISF	- waterial & M	TYPE OF SLEEVE			
Complete one and for each				eld WELD UPSTREAM OR DOWNS	TREAM	/A	
defective we		cabarra	OASE	INSPECTION DATE(S)	3/10/88	19 88	
INSPECTION C	ONTRACTOR		บลหอ	MERS POWER CO).		
INSPECTOR'S	NAME(S) _		Hom	AS J STUMT	>		
INSPECTOR'S	CERTIFICA:	TION(S)	***************************************	LEVEL TT.			
ULTRASONIC I	nstrument			~/A COUPLANT	N/A		
ULTRASONIC P	2082(S)			MA			
ULTRASONIC C	ALIBRATIO	M BLOCK	3	N/A			
				WIC/MT			
				SENSITIVITY NA TRANS		N/A	
î e				PROBE 3743-00581 POWE			
				SANG BACKGROUND LACQUER	, January and San	V _A	
Location	Sketch o		1/			\triangle	-
measured	circumfe	rential	limits.				
around from	features			Defect characteristics an Orientation clockwise lo			The state of the s
Orientation	Sleeva	Weld	Pipe	Item or Defect Description	Max Depth	Langth	1
12 O'Clock	11	111	x1/	pla.	NA	NA	
3 O'Clock	MA	MA	17/A	1/14	14		James 2
		0.53		i			
		1	7				
6 O'Clock	Ĩ	1					
		Special services		**************************************			1
						<i> </i>	- 1
9 O'Clock							
2 0 CTOCK	- Items			\$			1
							1
10 0101			100				
12 O'Clock				10 mm 10 mm			
Thickness:				CPCO/LCS		<u> </u>	-
Sleeve	1	1	100	RECEIVECAL SERVICES			
Pipe/Shoe	1		٠.,	PONDESTRICTIVE .	. 0	1	~
	<u> </u>			TESTING SERVICES T	nspector's	SIRDARINA	
)ISTRIBUTION:	Distric Enginee	t Manag ring De	8 2	135 W. TRAIL ST.	PI/I.Pl. Barr)9

Signature

MTERPROVINCI. AKEHEAD PIPE				LINE NO. 6		W.
machien FIFE	urus oom			LOCATION MP 77		
ON DESTRUCTI			PILLET W	CHAINAGE 13591+ FITTING TYPE OF SLEEVE	<u> </u>	
					1	U/A
Complete one and for each defective we	wald on			eld Weld Upstream or Downs Inspection Date(s)		19 <u>88</u>
	-11.00 M	. (0.1811	MERS POWER CO		
				AS J STUMP		
				LEVEL TIL		
INSTRUCTION 3	CERTILION	rros(3)	***************************************	M/A COUPLANT	N/λ	
				11/	17	
*	500			N/ ₂		
ULTRASONIC C						
ULTRASONIC C	ALIBRATIO	N PROCE	DURE(S) _	WIC/MT		N/6
				SENSITIVITY PARS		
			1	PROBE 3743-00581 POWE	* 1	
MAGNETIC PAR	TICLE TYP	B DR	Y/EREX	BSAOB ENCECEDAND FREGUES		<u>A</u>
Location	Sketch o		Control of the Contro			
around from		m and o	ther	Defect characteristics ar Orientation clockwise loc		
Orientation	Sleeve	Weld	Pipe	Item or Defect Description	Max Depth	Length
12 O'Clock		111	1,1/	N/A.	NO	2/41
3 O'Clock	MA	MA	1/4	- //+	21	
2 0 CTOCK	113			1		
		1	7			
(0101 · 1	,					
6 O'Clock						
	/ .					
9 O'Clock	The second second					
MARION WARRANTON 14		The second secon		CPCO/Les		
12 O'Clock				LABORATORY AND FIELD		
Thickness:				TECHNICAL SERVICES DEPARTMENT		
Sleave	1	1		NONDESTRICTIVE		
				TESTING SERVICES	10	1 0-
Pipe/Shoe	2 2		4.1			
Pipe/Shoe				185 W. TRAIL ST. I	spector's	Signatura
Pipe/Shoe	Divisio Distric			JACKSON, MICHIGAN	aspector's	Signatura

MTERPROVINCIA				LINE NO. 6"		
STIT CASHEXA	LINE COM	PANY, IE		LOCATION MP 77		
ON DESTRUCTIV				CHAINAGE 13581	+83	
MSPECTION OF				TYPE OF SLEEVE	2"T	DW_
Complete one	form for	each in	place w	ald WELD UPSTREAM OR DOWNS	TREAM	N/A_
and for each defective we	meld on	repairs	over	INSPECTION DATE(S)		19 88
IMSPECTION C	ONTRACTOR	. (0220	MERS POWER CO)	
IMSPECTOR'S	KAME(S) _		Hom	AS 5 STUMP	>	
				LEVEL TI		
ULTRASONIC I	nstrument	-		M/A COUPLANT	N/A	
. 7.				NA	•	
ULTRASONIC C	ALIBRATIO	H BLOCK	3	N/A		
ULTRASONIC G	ALIBRATIO	PROCE	OURE(S) _	wic/MT		
ULTRASONIC F	requency .	N	<u>/A</u>	SENSITIVITY NA TRANS	PER CORR'S	NA
				PROBE 3743-00581 POWER		
MAGNETIC PAR	TICLE TYP	E DR	Y/GREY	SSAOR BACKGROUND LACQUER	~	/A
Location	Sketch o			f. 2		
measured around from top centre	Long sea	a and o	cher	Defect characteristics an Orientation clockwise loo		
Orientation	Sleeve	Weld	Pipe	Item or Defect Description	Max Depth	Length
12 O'Clock	, j	117	1.1/	W/n·	NO	N/1
3 O'Clock	MA	MA	1/4	1.11		
				<i>t</i>		
6 O'Clock						
W						-/
9 O'Clock						
	- Control of the cont				1	
12 0'Clock	and the second			- creotics		
				TECHNICAL SERVICES]\	
Thickness:		1		DEPARTMENT.		
Sleeve				NONDESTRICTIVE TESTING SERVICES	. ()	10-
Dina/Chas			(]	DIVISION	~~\	
Pipe/Shoe				135 W TRAIL ST	spector's	ignature
Pipe/Shoe ISTRIBUTION:	Division	1.35		135 W. TRAIL ST	spector's S	ignature

Enbridge Energy Company Permanent Repair Report

EEC Report Number:

MA1987-003

Report Date:

04/27/2010

Report Type:

Pipe Repair/Replacement

Location

Location						
Reporting Office Marshall	Date Discovered 05/12/87	Date Repa 05/19/87			Report Date 04/27/2010)
Pipe Line Location - Pt 749.93	ump Station or Milepos	st Line No. 6B		Line Size		Special Cost Number D6-98-87
Specific Location - Loc 15013+78 -	cation from a known st	ationing on a Route	Sheet		Route Sheet C-432	Number
Quarter	Section 06	Township 5N		Range 17E		Tract No. M7-29-A
Meridian/County 32	Meridian/County Province/State Lat & Long Loc				n	GPS Reading N. W. E.
Property Owner's Nan	ne and Address		Prop	perty Tenant's	Name and Add	dress
Moeller Ronald Ronald Moeller 3334 Mclain Road 3334 Mclain Road (810) 982-6875						
Full Description of Pro	perty Damage and an	y communications v	with owr	ner or tenant (Attach a sketch	if necessary)

Leak

Describe Specific Nature a Small Corrosion Leal	and Cause of Break or Leak (.		
Oil Out of Line - Barrels 2 Batch Number SW-589	Oil Recovered - Barrels 0	Net Loss - Barrels 2	Crude Type Sweet
Disposition of Lost Oil Held pending disposa	al permit for land fill.		
Name and Address of Per Ariel Partol Pilot	son Reporting Leak		Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)	
Installed a 30" x 30" Plidco Repair Sleeve.	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel	

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

	(See Corrosion Inspection Report) Extensive Corrosion		-	
	Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve Plidco/Split	
F	LPL Person	nnel must also complete a Corrosion Ins	pection Report	

Other

Was there any Stock Pipe Insta	alled? (If yes, attach hydrotest red	cords)	ber	
Remarks:				
Government Agency Notified Yes	Individual contacted Michigan DNR/Mike Czuprenski/Tom Turnbu	Date 05/12	<u>!</u> /87	Time 12/30/1899 07:45:00 PM
Report Completed by and Sign Julia Rask	ature	Date Entere 04/27/20	•	wings By Tech. Services

Enbridge Energy Company PLM Activity Report

General Information Report Number:

MA1987-003

Report Date:

04/27/2010

Reporter's Name:

Julia Rask

Inspector'sName:

Type of Work Performed: Where Was Work Performed: Pipe Repair/Replacement

Mainline

Mainline Information

Line Number: Line Size:

6B 30

Wall Thickness:

0.250

Milepost: Stationing: 749.93 15013+78

Report Information

The following reports may need to be completed for each type of work listed below:

Pipe Repair/Replacement

Shorted Casing

Fitting Installation Pump Installation

Line Lowering

Valve Installation

Casing Extension

- Pipe Repair/Replacement
- R-O-W Information Report
- Corrosion Inspection

Kaliper Tool Anomaly

Corrosion Tool Anomoly

- R-O-W Information Report
- Corrosion Inspection
- If you install a repair sleeve or a cutout: Pipe Repair/Replacement

Foreign Crossing

- Foreign Crossing
- If pipe was exposed:

Corrosion Inspection

If pipe was damaged:

R-O-W Information Report Pipe Repair/Replacement

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MA1987-003	Report Date:	04/27/2010
Part A - General Informa	ation Concerning Exc	avation	
Line Number and Size 6B - (30)	MilePost/Station 749.93	Tract No. M7-29-A	Stationing 15013+78
Purpose of Excavation Pipe Repair/Replacem	nent	Soil Type Peat & Clay	Terrain Type Grass R/W
Comple	ete These Lines if Exc	cavation is for Instrumen	t Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth		Anomaly Size
Part B - Inspection Res	ults		
Condition of Outside of Pipe Extensive Corrosion Comments Leak occured in an are sleeve was installed ove Numerous other pits exileak.	er the leak and other p	its in close proximity.	
Existing Coating is : Condition of Coating : Unsat Comments :	isfactory		
New Coating is : Pipe to Soil Potential : Comments :		С	Coating Length is :
Condition of Inside of Pipe : Comments :			
Inspected By : DH LaVoy			Date Inspected: 05/12/87
Part C - Signatures			
Pipe Line Foreman Julia Rask			Date 04/27/2010

INTERPROVIN	NCIAL PIPE LINE	LIMITED / LAKEF	IEAD PIPE LINE			ANENT REPAIR R	EPORT 🛛
REPORTING OF	FICE -	DATE AND TIME (DATE OF REPAIR Sleeve Instal Welds made	led 5/12/87	DATE OF REPORT	•
Bay City,		5/12/87	1330 MST			5/20/87	
		ATION OR MILEAG	E MARKER	LINE SIZE	1	SPECIAL COST NO),
	749.93			30"	C432	D6-98-87	
			N STATIONING ON	THE ATLAS DRAWI	NG (SPECIFY)		
***************************************	8 Center of		RANGE	TRACT NO.	MERIDIAN - COUN	TY PROVINCE	CTATE
QUARTER	SECTION	TOWNSHIP			St. Clair	Michiga	
ALDEED VALD ADD	6 DRESS OF PERSON F	T5N	R17E	M7-29A	St. Clair	WAS REPORT FEE	
	trol Pilot	REPORTING LEAR				□ NO □ YE	
	NER'S NAME AND A	DOESS					
Max Thomp			45 Mary	sville, MI 48	8040		
	ANT'S NAME AND A		,				
11101 (1111 1 1211	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
FULL DESCRIPT	TION OF PROPERTY	DAMAGE : SHOW B	Y APPROPRIATE S	SKETCH.			
	stream of M-2						
				***************************************	The second secon		
Excavation	n 26' Wide b	y 75' Long.					
EXPLAIN BRIEF	LY BELOW, ANY RI	EQUEST OR DISCUS	SION WITH OWNE	R OR TENANT CONC	ERNING DAMAGES	TO PROPERTY WH	ICH MAY HAVE
ARISEN VOLUN	HARILT WITHOUT	INVESTIGATION ON	TOOK PART.				
All conta	cts with owne	er were through	gh Right-of-	Way Department	*		
water and the second se		20034-100-00-00-00-00-00-00-00-00-00-00-00-00					
	AUSE OF BREAK O	R LEAK					
Small cor	rosion leak.						
	was server and the se						
				Y APPROPRIATE SKE	тсн.		
		ngs added to ma Plidco Repair		Y APPROPRIATE SKE	тсн,		
				Y APPROPRIATE SKE	тсн.		
				Y APPROPRIATE SKE	тсн,		
				Y APPROPRIATE SKE	тсн,		
Installed	30" x 30" I	Plidco Repair		CRUDE	тсн,	ватсн	
Installed	30" x 30" I		Sleeve.	CRUDE TYPE	тсн.	BATCH NO.	Sw-589
Installed NATURE AND K Clay/Loam	30" x 30" I	BARRELS OF OIL		CRUDE		NO.	SW-589
NATURE AND K Clay/Loam GENERAL CONG	30" x 30" I	Plidco Repair	Sleeve.	CRUDE TYPE Sweet DISPOSITION OF LC	OST OIL	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG	XIND OF SOIL DITION OF LINE	BARRELS OF OIL BARRELS OF OIL RECOVERED	Sleeve. 2 Negligible	CRUDE TYPE Sweet DISPOSITION OF LC		NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG	XIND OF SOIL DITION OF LINE	BARRELS OF OIL BARRELS OF OIL	Sleeve. 2 Negligible	CRUDE TYPE Sweet DISPOSITION OF LC	OST OIL	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	XIND OF SOIL DITION OF LINE	BARRELS OF OIL BARRELS OF OIL RECOVERED	Sleeve. 2 Negligible	CRUDE TYPE Sweet DISPOSITION OF LC	OST OIL	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG	XIND OF SOIL DITION OF LINE	BARRELS OF OIL BARRELS OF OIL RECOVERED	Sleeve. 2 Negligible	CRUDE TYPE Sweet DISPOSITION OF LC	OST OIL	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	XIND OF SOIL DITION OF LINE	BARRELS OF OIL BARRELS OF OIL RECOVERED	Sleeve. 2 Negligible	CRUDE TYPE Sweet DISPOSITION OF LC	OST OIL	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	XIND OF SOIL DITION OF LINE	BARRELS OF OIL BARRELS OF OIL RECOVERED	Sleeve. 2 Negligible	CRUDE TYPE Sweet DISPOSITION OF LC	OST OIL	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	RIND OF SOIL DITION OF LINE	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS.	Sleeve. 2 Negligible 2	CRUDE TYPE Sweet DISPOSITION OF LC	ostou. ng disposal p	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	RIND OF SOIL DITION OF LINE	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS.	Sleeve. 2 Negligible 2	CRUDE TYPE Sweet DISPOSITION OF LO Held pendin	ostou. ng disposal p	NO.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	RIND OF SOIL DITION OF LINE DITION OF	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS.	2 Negligible 2	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir ES: FEDERAL, PROV	ost oil ng disposal pe	NO. ermit for la	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING Poor	CIND OF SOIL DITION OF LINE DITION OF	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS.	Sleeve. 2 Negligible 2	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir ES: FEDERAL, PROV	ost oil ng disposal pe	NO. ermit for la	nd fill.
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS	CIND OF SOIL DITION OF LINE DITION OF	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL ng disposal po /INCE/STATE, COAS DATE 5/12/87	NO. ermit for la st GUARD, ETC. TIME 7:40 p.m.	nd fill.
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS Michigan	CIND OF SOIL DITION OF LINE DITION OF	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL ng disposal po /INCE/STATE, COAS DATE 5/12/87	NO. ermit for la st guard, etc.	nd fill.
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS Michigan	RIND OF SOIL DITION OF LINE DITION OF REP AGENCY	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL ng disposal po /INCE/STATE, COAS DATE 5/12/87	NO. ermit for la st GUARD, ETC. TIME 7:40 p.m.	TELEPHONE LETTER TELEPHONE LETTER TELEPHONE
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS Michigan	RIND OF SOIL DITION OF LINE DITION OF REP AGENCY	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL ng disposal po /INCE/STATE, COAS DATE 5/12/87	NO. ermit for la st GUARD, ETC. TIME 7:40 p.m.	M TELEPHONE LETTER TELEPHONE LETTER
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS Michigan	RIND OF SOIL DITION OF LINE DITION OF REP AGENCY	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL ng disposal po /INCE/STATE, COAS DATE 5/12/87	NO. ETGUARD, ETC. TIME 7:40 p.m. 12:30 p.m.	TELEPHONE LETTER TELEPHONE LETTER TELEPHONE
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS Michigan National	RIND OF SOIL DITION OF LINE DITION OF REP AGENCY	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL Ing disposal portion of the permanent	NO. ETGUARD, ETC. TIME 7:40 p.m. 12:30 p.m.	TELEPHONE LETTER TELEPHONE LETTER TELEPHONE
NATURE AND K Clay/Loam GENERAL CONE Fair GENERAL CONE COATING POOT REMARKS Michigan National	RIND OF SOIL DITION OF LINE DITION OF REP AGENCY	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN Mike Cziter Petty O:	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL ng disposal per of the permanent repair	NO. ETGUARD, ETC. TIME 7:40 p.m. 12:30 p.m.	TELEPHONE LETTER TELEPHONE LETTER TELEPHONE
NATURE AND K Clay/Loam GENERAL CONG Fair GENERAL CONG COATING POOT REMARKS Michigan National	RIND OF SOIL DITION OF LINE DITION OF REP AGENCY	BARRELS OF OIL OUT OF LINE BARRELS OF OIL RECOVERED NET LOSS - BBLS. ORTED TO GOVERN	2 Negligible 2 IMENTAL AGENCI INDIVIDUAL COI	CRUDE TYPE Sweet DISPOSITION OF LO Held pendir Held pendir	OST OIL Ing disposal portion of the permanent	NO. ETGUARD, ETC. TIME 7:40 p.m. 12:30 p.m.	TELEPHONE LETTER TELEPHONE LETTER TELEPHONE LETTER LETTER

K

BREAK OR LEAK REPORT

Form F-17A (1976)

White - Division Office
 Green - District Office
 Yellow - Retain

FORM D.Q.T. 195.416-.418 - 1979

D.O.T. REGULATION COMPLIANCE NAME NOTE ACT

Lakehead Pipe Line Company, Inc.

NAME NOTE ACT DDB WCC PIF

GWM

RECEIVED ACT NOTE
LAKEHEAD
PIPELINE CO. INC

GIM
CEN
BJP
CWS
CWS

CORROSION INSPECTION REPUBLI

PARTS A & B OF THIS REPORT MUST BE COMPLETED WHENEVER THE PIPE LINE IS EXPOSED FOR ANY REASON.

MAY 26 1987

CWS JES DGT

NAME

PARTA - GENERAL INFORMATION C	DNCERNING EX	CAVATIO	N	
1. LINE SIZE AND NO.	2. MILE POS		3. TRACT NO.	4. ATLAS STATION
30" 6	749.9	•	M7-29A	15013 + 78
5. PURPOSE OF EXCAVATION Leak at M.P. 749.93			6. SOIL ☐ SAND ☑ LOAM ☑ CLAY ☐ ROCKY	7. TERRAIN ☐ WOODED ☐ CULTIVATED ☐ SWAMPY [X] Grass R/W
COMPLETE THIS LINE I	F EXCAVATION IS	FOR INSTR	UMENT PIG INVESTIGAT	ION
8. TYPE OF PIG	9. INDICATI	ON NO.	10. LOG FOOTAGE	11. GRADE OF INDICATION
PART B - INSPECTION FOR EXTERNAL	CORROSION			D.O.T. Regulation Se 195.416 (e)
1. CONDITION OF PIPE		2. CONDI	TION OF COATING	
Poor		Poo	r	
Leak occurred in an area of was installed over the leak and pits exist on the bottom quadrar	external corr	cosion.	oximity. Numerous	
4. DATE INSPECTED		5. INSPEC	TED BY	
4. DATE INSPECTED		l 5 "	. LaVoy	
May 12th and 19th, 1987		р. н	· Lavoy	

3. DATE INSPECTED

4. INSPECTED BY

PIPE LINE FOREMAN

DISTRICT SUPERINTENDENT

D. H. LaVoy

Copies to: Division Manager and District Superintendent - Originator makes copy as desired.

2. REMARKS - GIVE DESCRIPTION OF ANY ABNORMAL CONDITIONS

CONSUMERS POV LABORATO FIELD TECHNICAL NONDESTRUCTIVE T THICKNESS ME EXAMINATION	RY AN SERVI ESTING ASURE	ID CES DE S SERVI	PT	E	xamine roject N	r Vo. <u>2</u>	^ 4885	1/A 285	5/2/	······	Level <u>N/A</u>	NDT Compan	y <u>CPCC</u> Ept <u>BAY CZ</u>	TY PINE LENE
NDT Procedure		•					Searc	h Unit S sonic Co	Size/Fre ouplant	quency	J5" PITCH ULTRAGEL	CATCH	Serial Numi	per <u>3793 - 00187</u> per <u>8662</u>
Material Type $\frac{c/s}{s}$ Nominal Diameter $\frac{3c}{s}$ Item Type $\frac{c}{s}$		_ N	ominal ⁻	Thickne	ss <u>2</u>	1/1 50"					N/A			per <u> </u>
<u>Item</u>		ı	т —	Thic	kness N	/leasurer	nents		·			Sk	etch/Remarks	MILE POST
AREA 1 LOW , 255° HIGH . 260° AREA 2 LOW . 250° HIGH . 260°						NOTE		8	9	10	SEAM ← 16" →	H SIDE EAM -> WELD //4/// - 22"-1	T.,	749.9 CHAINAGE ISOI8+96
AREA 3 LOW.245" HTGH. 2 60	NO	ENTER	NAL F	t ften	F NOT	ED					T IG" L MECHAN	OUTH SIDE HPSTREAM L L 28" CCAL READIN Y LAKEHEAD	CIRC. WELD US OF EXTE PERSONNEL.	RNAL FIFT I NG
xaminer	,	~~				Page		of /				Reviev	wed by:	

Enbridge Energy Company Permanent Repair Report

EEC Report Number:

MA1985-004

Report Date:

04/30/2010

Report Type:

Pipe Repair/Replacement

Location

Reporting Office Marshall	Date Rep 10/14/8			Report Dat 04/30/20		
Pipe Line Location - P 751.07	ump Station or Milepos	t Line No. 6B		Line Size		Special Cost Number D6-97-85
Specific Location - Loc 15073+99 -	ationing on a Route	Sheet		Route She C-432	et Number	
Quarter	Section 32	Township 6N		Range 17E		Tract No. M-858-10
Meridian/County 32	Province/State MI	Lat & Long Loca Lat. Long.	ition	GPS Locatio	n	GPS Reading N. W. E.
Property Owner's Na	me and Address		Prop	erty Tenant's	Name and A	ddress
Marysville City Of						
Full Description of Pro	pperty Damage and any	communications	with own	er or tenant (Attach a sket	ch if necessary)

Leak

HOUIL							
	and Cause of Break or Leak	aking Also found num	erous multiple corrosion pits				
Corrosion at 0.00 app	Corrosion at 6:00 approx 2-1/2" diameter was leaking. Also found numerous multiple corrosion pits.						
Oil Out of Line - Barrels 10	Oil Recovered - Barrels 3	Net Loss - Barrels 7	Crude Type				
Batch Number							
Disposition of Lost Oil							
Name and Address of Person Reporting Leak Was a Report Fee Paid?							
Debra J. Robert 1890	No						

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
Installed 30" x 30" Plidco repair sleeve and 12.5 ft o f30" x .500 WT full encirclement repair sleeve.

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating	Type and Length of Repair Coating
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve

			Plidco/Sp	olit		
LPL Personnel must also complete a Corrosion Inspection Report						
Other						
Was there any Stock Pipe Installed? (If yes, attach hydrotest records) Hydrotest Number						
Remarks:						
Government Agency Notified	Individual contacted	Dat	9	Time		
Report Completed by and Signature Julia Rask			Date Entered on System Drawings By Tech. Services 04/30/2010			

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number:	MA1985-004	Report Date:	04/30/2010
Part A - General Informa	ation Concerning Excava	ation	
Line Number and Size 6B - (30)	MilePost/Station 751.07	Tract No. M-858-10	Stationing 15073+99
Purpose of Excavation Pipe Repair/Replacement		Soil Type Clay	Terrain Type Wooded
Comple	ete These Lines if Excav	ation is for Instrumen	t Pig Investigation
Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Anomaly Size		
Dest D. Januarian Desi			
Part B - Inspection Resu	IIIS		
diameter. There are oth to numerous pits upstream	ea of external corrosion, a er pitted areas around th am of the leak. A 30" plic ak and 12.5 ft of repair s	ie leak in addition co repair sleeve	
Existing Coating is:			
Condition of Coating: Unsat	isfactory		
Comments : New Coating is :		r	Coating Length is :
Pipe to Soil Potential:			odding Longillia .
Comments : Condition of Inside of Pipe :			
Comments:			
Inspected By : DH LaVoy		D	Pate Inspected: 10/15/85
Port C. Signatures			
Part C - Signatures Pipe Line Foreman			Date
Julia Rask			04/30/2010

Enbridge Energy Company PLM Activity Report

General Information
Report Number:
Reporter's Name:

MA1985-004 Julia Rask Report Date:

04/30/2010

Inspector'sName:

Type of Work Performed: Where Was Work Performed:

Pipe Repair/Replacement

Mainline

Mainline Information

Line Number: Line Size: Wall Thickness: Milepost: Stationing: 6B 30 0.250

751.07 15073+99

Report Information

The following reports may need to be completed for each type of work listed below:

Pipe Repair/Replacement Valve Installation

Shorted Casing Casing Extension

Fitting Installation Pump Installation

Line Lowering

- Pipe Repair/Replacement
 - R-O-W Information Report
 - Corrosion Inspection

Kaliper Tool Anomaly

Corrosion Tool Anomoly

- R-O-W Information Report
- Corrosion Inspection
- If you install a repair sleeve or a cutout:
 Pipe Repair/Replacement

Foreign Crossing

- Foreign Crossing
- If pipe was exposed:

Corrosion Inspection

If pipe was damaged:

R-O-W Information Report Pipe Repair/Replacement

Central No. 1192

Form F-17A (1976)

1. White - Division Office
2. Green - District Office

Yellow - Retain

DIV. MGR.

FORM D.O.T. 195.416-.418 - 1979

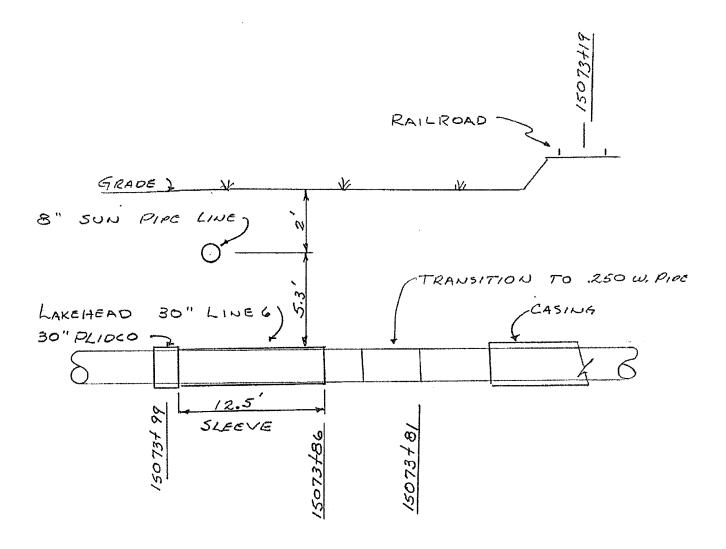
D.O.T. REGULATION COMPLIANCE

Lakehead Pipe Line Company, Inc.

	diameter and	AND DESCRIPTION OF THE PERSON NAMED IN	was rubs to being	Checks At Janic Servensensensensensensensensensensensensense	140 1 100 00		
	NAME	NOTE		RECEIVED	AÇ1	NOT	NAME
	WAS			KECETAED			GIM
	DDB	69		LAKEHEAD	agest 9440 %	nusconstruction of	GWM
	WCC.	9		10 163fm	VAL 1998	ACCOMPGANA	CEN
	DEC	Santa Santa		OCT 28 1985		- 4- 20- KO / AF-A	0 jr
4	HC4	_			4.4.4.	o'r dend, wien ne	CW8
	TJG						JE5
	VDO:	ED.	En	ANV REASON			BOL

CORROSION INSPECTION REP

PARTS A & B OF THIS REPORT MUST BE COMPLETE PART C MUST ALSO BE COMPLETED WHEN ANY PO	D WHENEVER	THE PIPE L E PIPE LINE	INE IS EXPOSED FOR A	NY REASON. BOT		
PART A - GENERAL INFORMATION CONC	ERNING EX	CAVATIO	V			
1. LINE SIZE AND NO. 30" Diameter Line 6	2. MILE POST M.P. 751. 07		3. TRACT NO. M858-10	4. ATLAS STATION Route Index C-43		
5. PURPOSE OF EXCAVATION Leak at M.P. 751 Installed 30" x 30" Plidco at the	1.	6. SOIL ☐ SAND ☐ LOAM XX CLAY (blue) ☐ ROCKY	7. TERRAIN 以 WOODED □ CULTIVATED □ SWAMPY □			
COMPLETE THIS LINE IF EXC	1		T			
8. TYPE OF PIG	9. INDICATION NO.		10. LOG FOOTAGE	11. GRADE OF INDICATION		
PART B — INSPECTION FOR EXTERNAL CO	RROSION	The second secon		D.O.T. Regulation Sec. 195.416 (e)		
1. CONDITION OF PIPE		2. CONDIT	ION OF COATING			
Poor		Poor				
Info: Leak occurred in an area of there are other pitted areas area of the leak. A 30" Plidco repair repair sleeve over the pitted are	und the lea r sleeve wa	ak in add: as instal:	ition to numerous	pits upstream		
4. DATE INSPECTED 5. INSP			PECTED BY			
October 15, 1985						
PART C - INSPECTION FOR INTERNAL CO	RROSION			D.O.T. Regulation Sec. 195.418 (d)		
1. CONDITION OF INSIDE OF PIPE						
2. REMARKS - GIVE DESCRIPTION OF ANY ABNORM	MAL CONDITION	SNC				
3. DATE INSPECTED		4. INSPEC	TED BY			
PE LINE FOREMAN		DISTRICT	SUPERINTENDENT	and a		
D. H. LaVoy		1.4-1				
Copies to: Division Manager and District Superintendent - Original	tor makes copy as	aestred.				



5+4.15073+66 REPAIR SLEEVE V. 25tA. 15073 +79 Fillet world 250 W.T. 230" MAINLINE TRANS, PIECE STA. 15073+83

LINES, MR 751 ATLAS SLEST C-432 301 Dia 1776 301 Dia 27-85