



- GENERAL NOTES**
- 1) ALL CHAINAGES ARE IN FEET UNLESS OTHERWISE SPECIFIED.
 - 2) DATUM ELEVATION AND PROJECTION ARE BASED ON MEAN SEA LEVEL AND NAD 83.
 - 3) FIELD PIPE LOCATING REQUIRED TO DETERMINE PLACEMENT OF PIPELINE WITHIN PERMANENT EASEMENT.
 - 4) UNLESS OTHERWISE NOTED, 48 INCHES MINIMUM COVER EXCEPT 36 INCHES IN AREAS OF CONSOLIDATED ROCK.
 - 5) NO ACTUAL AS-BUILT GROUND SHOTS WERE TAKEN AT THIS LOCATION. THE PROFILE REPRESENTS A PROJECTION FROM SHOTS TAKEN AT 150' TO 250' INTERVALS.
 - 6) THE TYPE OF COATING APPLIED TO THE FIELD WELDS DURING THE ORIGINAL CONSTRUCTION WAS TWO COMPONENT LIQUID EPOXY. THE COATING PRODUCTS USED WERE DENSO 7200 OR SFC SP-2888.
 - 7) THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS AUGUST 16, 2009 FOR M.P. 66.90 TO M.P. 88.54, SEPTEMBER 16, 2009 FOR M.P. 88.54 TO M.P. 114.00 AND SEPTEMBER 23, 2009 FOR M.P. 114.00 TO M.P. 130.00.
 - 8) ORIGINAL IN-SERVICE DATE OF THE KEYSTONE PIPELINE (PHASE 1): JUNE 30, 2010.
 - 9) CPS CALCULATION DATE: MAY 2010.
 - 10) ORION STATION SERIES NUMBER: 1162700.
 - 11) TO DETERMINE THE MILE POST AT A GIVEN LOCATION, ADD THE 3D STATION NUMBER FROM THIS SEGMENT TO STATION NUMBER 4028+46 AND DIVIDE BY 5280.

OPERATING AND TEST PRESSURE

1. THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
2. THE MINIMUM TEST PRESSURE WAS 1601 PSIG.

BILL OF MATERIALS (3D)

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.388" W.T., API-5L X 70 W/FBE COATING	12,778'
3	30" O.D. X 0.516" W.T., API-5L X 70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	237'
	PIPELINE MARKERS	1 EA
	PIPELINE WARNING SIGNS	5 EA
	CATHODIC TEST STATION	3 EA
	AERIAL MARKER	0 EA

REFERENCE DRAWINGS

REF. NO.	DRAWING NO.	REV. NO.	DRAWING TITLE

REVISIONS

NO.	DATE	REV. BY	CHECKED BY	APPROVED BY	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	10/17/09	UEI			ISSUED FOR AS-BUILT
					1829-03-ML-02-011
					REPLACES COVERAGE OF IFC DRAWINGS
					1829-03-ML-02-017
					1829-03-ML-02-016

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENY APPR'D.	INITIAL	DATE
UEI		10/01/11			

PROFESSIONAL ENGINEER

NAME	STATE	LIC#	REV#	DATE
LOYS A. GRAY, III	ND	PE5714		

SCALE: 0 125 250 500 Feet

TransCanada
In business to deliver

KEYSTONE MAINLINE (NPS 30 2008) NIAGRA SECTION

AS-BUILT ALIGNMENT
M.P. 100.94 TO M.P. 103.40
SHEET 11 OF 20 SHEETS
STA. 1301+07 TO STA. 1431+22 (3D)

DRAWING NO. 1829-03-ML-02-011 REV. 2

DISCLAIMER
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TEST SECTION 1A-5
ILTO-021-2010

PIPELINE SCHEMATIC

STATIONING	DESCRIPTION
1301+07	MATCHLINE 1300+00
1302+61	5.6' CVR.
1304+34	M.P. 101
1307+33	7.2' CVR.
1312+25	4.8' CVR.
1312+35	EDGE OF ROAD CL 10TH STREET NE
1312+73	EDGE OF ROAD
1313+75	
1331+83	WATER EDGE
1331+88	WATER EDGE
1330+88	WATER EDGE
1335+81	4.8' CVR.
1339+89	6.1' CVR.
1351+29	4.7' CVR.
1357+14	M.P. 102
1365+13	
1365+30	
1365+37	EDGE OF ROAD
1365+42	EDGE OF ROAD
1365+54	BEGIN SLOUGH
1365+56	EDGE OF ROAD
1365+58	EDGE OF ROAD
1365+61	BEGIN SLOUGH
1365+64	CL SLOUGH
1365+68	END SLOUGH
1365+70	CL SLOUGH
1365+71	CL SLOUGH
1365+72	CL SLOUGH
1365+73	CL SLOUGH
1365+74	CL SLOUGH
1365+75	CL SLOUGH
1365+76	CL SLOUGH
1365+77	CL SLOUGH
1365+78	CL SLOUGH
1365+79	CL SLOUGH
1365+80	CL SLOUGH
1365+81	CL SLOUGH
1365+82	CL SLOUGH
1365+83	CL SLOUGH
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1365+86	CL SLOUGH
1365+87	CL SLOUGH
1365+88	CL SLOUGH
1365+89	CL SLOUGH
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