

RIGHT-OF-WAY HORIZONTAL REPRESENTATION (2D)

TRACT NUMBER
OWNERSHIP/AGENCY

LENGTH
APPLICABLE DWG. NO.

LAND USE

PIPELINE PROFILE

HORIZ. 1"=500' VER. 1"=100'
HORIZONTAL REPRESENTATION (2D)

LEGEND

- KEYSTONE PIPELINE
- STATE BOUNDARY
- COUNTY/TOWNSHIP
- SECTIONS
- NATIONAL OR STATE RESERVATION BOUNDARY
- PROPERTY LINE
- FENCE
- EXCLUSIONARY FENCE
- POWER LINE
- TELEPHONE LINE
- BURIED CABLE
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER / DRAIN
- FOREIGN PIPELINE
- RAILROAD
- HIGHWAY / ROAD
- STREAM / DITCH
- WETLAND
- INTERSTATE ROUTE
- U.S. ROUTE
- STATE ROUTE
- POINT OF INTERSECTION (PI)
- PIPELINE MILEPOST
- DIRECTION OF FLOW
- HOUSE
- BUILDING
- WATER WELL
- MAINLINE VALVE

ML-XX-XX-XXXX-XXXX TRACT NUMBER

PIPELINE PLAN (SCALE 1" = 500') HORIZONTAL REPRESENTATION (2D)

FOR CONTINUATION SEE DWG.
1832-03-ML-02-008

MATCHLINE 1040+00

T-126-N
T-125-N

36 1 2 11 12 13

35 2 11 14

1040+00 1050+00 1060+00 1070+00 1080+00 1090+00 1100+00 1110+00 1120+00 1130+00 1140+00 1150+00 1160+00 1170+00

ML-SD-MR-0515.0000 ML-SD-MR-0516.0000 ML-SD-MR-0517.0000 ML-SD-MR-0518.0000 ML-SD-MR-0519.0000

W_UTM14_AERIAL_15336 MP 237 W_UTM14_AERIAL_15335 W_UTM14_AERIAL_15337 W_UTM14_AERIAL_15341 S_UTM14_HECLA_0064 KEystone MAINLINE (NPS 30 2008) LUDDEN SECTION W_UTM14_AERIAL_15344 W_UTM14_AERIAL_15346 S_UTM14_AERIAL_18087 MP 239 W_UTM14_AERIAL_15346 W_UTM14_AERIAL_15346

LAT. 45.669852 LONG. -97.883238 LAT. 45.655375 LONG. -97.883268 LAT. 45.640936 LONG. -97.882700

119TH STREET 120TH STREET

DISCLAIMER
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GENERAL NOTES

- ALL CHAINAGES ARE IN FEET UNLESS OTHERWISE SPECIFIED.
- DATUM ELEVATION AND PROJECTION ARE BASED ON MEAN SEA LEVEL AND NAD 83.
- FIELD PIPE LOCATING REQUIRED TO DETERMINE PLACEMENT OF PIPELINE WITHIN PERMANENT EASEMENT.
- UNLESS OTHERWISE NOTED, 48 INCHES MINIMUM COVER EXCEPT 36 INCHES IN AREAS OF CONSOLIDATED ROCK.
- NO ACTUAL AS-BUILT GROUND SHOTS WERE TAKEN AT THIS LOCATION. THE PROFILE REPRESENTS A PROJECTION FROM SHOTS TAKEN AT 150' TO 250' INTERVALS.
- 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 SPC SP-2888.
- THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS SEPTEMBER 01, 2009 FOR M.P. 195.68 TO M.P. 218.50, SEPTEMBER 02, 2009 FOR M.P. 218.50 TO M.P. 259.00 AND OCTOBER 06, 2009 FOR M.P. 259.21 TO M.P. 301.75.
- ORIGINAL IN-SERVICE DATE OF THE KEYSTONE PIPELINE (PHASE 1): JUNE 30, 2010.
- CPS CALCULATION DATE: MAY 2010.
- ORION STATION SERIES NUMBER: 1182700.
- TO DETERMINE THE MILE POST AT A GIVEN LOCATION, ADD THE 3D STATION NUMBER FROM THIS SEGMENT TO STATION NUMBER 11453+73 AND DIVIDE BY 5280.

OPERATING AND TEST PRESSURE

- THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
- THE MINIMUM TEST PRESSURE WAS 1803 PSIG.

BILL OF MATERIALS (3D)

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.386" W.T., API -SLX-70 WFBE COATING	12,847'
3	30" O.D. X 0.516" W.T., API -SLX-70 WFBE COATING & ABRASION RESISTANT OVERCOAT	159'

PIPELINE MARKERS 0 EA
PIPELINE WARNING SIGNS 4 EA
CATHODIC TEST STATION 2 EA
AERIAL MARKER 0 EA

REFERENCE DRAWINGS

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

REVISIONS

NO.	DATE	REV.	CHK'D	APP'D.	ENV. APP'D.	DESCRIPTION
1	5/12/08	UEI	RDC	LAC	SEC	ISSUED FOR CONSTRUCTION
2	6/11/08	UEI	RDC	LAC	SEC	REMOVED OWNERSHIP
3	9/12/08	UEI				ISSUED FOR AS-BUILT
						REPLACES COVERAGE OF IFC DRAWINGS
						1832-03-ML-02-009
						1832-03-ML-02-013
						1832-03-ML-02-014
						1832-03-ML-02-015

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENV. APP'D.	INITIAL	DATE
UEI		10/02/01			

PROFESSIONAL ENGINEER

NAME	STATE	LIC#	REV#	DATE
LOYS ALVIN GRAY, III	SD	CE9004		

SCALE: 0 125 250 500 Feet

TransCanada
In business to deliver

KEYSTONE MAINLINE (NPS 30 2008) LUDDEN SECTION

1832 1832 SPREAD 2A DISCIPLINE 03

AS-BUILT ALIGNMENT

M.P. 236.64 TO M.P. 239.10
SHEET 9 OF 19 SHEETS
STA. 1040+65 TO STA. 1170+71

DRAWINGS NO. 1832-03-ML-02-009 REV