



**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
- SD 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

- GENERAL NOTES**
- COVER NOT IN PARENTHESIS IS TO TOP OF KEYSTONE PIPELINE. COVER IN PARENTHESIS IS TO TOP OF FOREIGN PIPELINE OR UTILITY LINE.
  - 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 OCTOBER 10, 2009 FOR M.P. 301.75 TO M.P. 343.98 AND OCTOBER 31, 2009 FOR M.P. 343.98 TO 377.31.
  - 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 16432+39 AND DIVIDE BY 5280.

- OPERATING AND TEST PRESSURE**
- THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
  - THE MINIMUM TEST PRESSURE WAS 160 PSIG.

**BILL OF MATERIALS (3D)**

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.386" W.T., API-5LX-70 W/FBE COATING	12,808'
3	30" O.D. X 0.516" W.T., API-5LX-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	80'
7	30" O.D. X 0.516" W.T., API-5LX-70 W/FBE COATING	118'

  

PIPELINE MARKERS	0 EA
PIPELINE WARNING SIGNS	6 EA
CATHODIC TEST STATION	2 EA
AERIAL MARKER	0 EA

**REFERENCE DRAWINGS**

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

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**REVISIONS**

NO.	DATE	REV BY	CHK APPR BY	REV APPR	DESCRIPTION
1	5/17/09	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	9/17/10	UEI			ISSUED FOR AS-BUILT
					REPLACES COVERAGE OF IFC DRAWINGS 1834-03-ML-02-017, 1829-03-ML-02-018

STATION	DESCRIPTION	STATION	DESCRIPTION
1300+77	MATCHLINE 1300+77	1300+77	MATCHLINE 1300+77
1305+31	5.0 CVR.	1305+31	5.0 CVR.
1308+41	M.P. 336	1308+41	M.P. 336
1309+71	5.0 CVR.	1309+71	5.0 CVR.
1315+26	5.0 CVR.	1315+26	5.0 CVR.
1317+40	FENCE (BARBED WIRE)	1317+40	FENCE (BARBED WIRE)
1321+38	P.I. 132526' L.L.	1321+38	P.I. 132526' L.L.
1322+90	5.0 CVR.	1322+90	5.0 CVR.
1328+87	5.0 CVR.	1328+87	5.0 CVR.
1334+02	5.0 CVR.	1334+02	5.0 CVR.
1338+59	FENCE (BARBED WIRE)	1338+59	FENCE (BARBED WIRE)
1344+73	FENCE (BARBED WIRE)	1344+73	FENCE (BARBED WIRE)
1344+93	8.3 CVR.	1344+93	8.3 CVR.
1345+18	EDGE OF ROAD	1345+18	EDGE OF ROAD
1345+31	CL. COUNTY ROAD 6A	1345+31	CL. COUNTY ROAD 6A
1345+43	EDGE OF ROAD	1345+43	EDGE OF ROAD
1345+72	OVERHEAD POWERLINE	1345+72	OVERHEAD POWERLINE
1346+71	5.0 CVR.	1346+71	5.0 CVR.
1353+75	5.0 CVR.	1353+75	5.0 CVR.
1360+43	5.0 CVR.	1360+43	5.0 CVR.
1361+21	M.P. 337	1361+21	M.P. 337
1364+27	5.0 CVR.	1364+27	5.0 CVR.
1368+93	4.5 CVR.	1368+93	4.5 CVR.
1374+12	4.5 CVR.	1374+12	4.5 CVR.
1380+29	5.0 CVR.	1380+29	5.0 CVR.
1384+22	5.0 CVR.	1384+22	5.0 CVR.
1389+30	5.0 CVR.	1389+30	5.0 CVR.
1392+09	5.0 CVR.	1392+09	5.0 CVR.
1396+47	5.0 CVR.	1396+47	5.0 CVR.
1399+38	P.I. 1404338' RT.	1399+38	P.I. 1404338' RT.
1400+80	EDGE OF ROAD	1400+80	EDGE OF ROAD
1400+99	CL. 216TH STREET	1400+99	CL. 216TH STREET
1400+17	EDGE OF ROAD	1400+17	EDGE OF ROAD
1403+57	5.8 CVR.	1403+57	5.8 CVR.
1410+73	5.3 CVR.	1410+73	5.3 CVR.
1414+01	M.P. 338	1414+01	M.P. 338
1420+26	5.7 CVR.	1420+26	5.7 CVR.
1423+44	6.8 CVR.	1423+44	6.8 CVR.
1430+43	MATCHLINE 1430+43	1430+43	MATCHLINE 1430+43

**TEST SECTIONS (3D)**

TEST SECTION 3B-2  
 I.L.T.O-026-2010

**ENVIRONMENTAL MITIGATION/RECLAMATION STATIONS (2D)**

STATION	REPRESENTATION	STATION	REPRESENTATION
1300+77	MATCHLINE 1300+77	1430+43	MATCHLINE 1430+43

**TEST SECTIONS (3D)**

TOPSOIL SALVAGE METHOD

STREAMS

WETLANDS

TIMING CONSTRAINTS

**STATIONS**

MONITORING

RECLAMATION

SPECIAL CONSIDERATIONS

**ENGINEERING RECORDS**

DRAWN BY	INITIAL	DATE	ENY. APPR.	INITIAL	DATE
UEI		10/02/15			

**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 2009) CARPENTER SECTION

SPREAD 3B DISCIPLINE 03

**AS-BUILT ALIGNMENT**

M.P. 335.86 TO M.P. 338.32  
 SHEET 11 OF 20 SHEETS

STA. 1300+77 TO STA. 1430+83 (3D)

DRAWING NO. 1834-03-ML-02-011 REV. 2