

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
- TRACT NUMBER

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

CLARK COUNTY, SOUTH DAKOTA
T-119-N, R-59-W, SECTIONS 29 & 32
T-118-N, R-59-W, SECTIONS 5 & 8

FOR CONTINUATION SEE DWG. 1833-03-ML-02-06

MATCHLINE

MP 279

MP 280

KEYSTONE MAINLINE (NPS 30 2009) FERNEY SECTION

FLOW

DISCLAIMER

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PIPELINE SCHEMATIC

HEAVY WALL PIPE
WELD FITTING
TRANSITION PIECE
CASING PIPE
CONCRETE COATING
SET-ON WEIGHTS
PIPELINE WARNING SIGN
PIPELINE MARKER
MATERIAL ITEM

GROUNDING MAT
ZINC RIBBON
AERIAL MARKER
CATHODIC TEST STATION
MAINLINE VALVE
CHECK VALVE
OPEN CURT
BORE
DRINKING WATER USA
ECOLOGICAL USA
HIGHLY POPULATED AREA
OPERATOR (KEYSTONE)
DEFINED
OTHER POPULATED AREA
SOURCE WATER PROTECTION AREA
WELLHEAD PROTECTION AREA

STATIONS

TEST SECTIONS (3D)

TOPSOIL SALVAGE METHOD

STREAMS

WETLANDS

TIMING CONSTRAINTS

STATIONS

MONITORING

RECLAMATION

SPECIAL CONSIDERATIONS

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 OCTOBER 08, 2009 FOR M.P. 259.23 TO M.P. 301.75 AND OCTOBER 10, 2009 FOR M.P. 301.75 TO M.P. 343.98.
- 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 13922+16 AND DIVIDE BY 5280.

OPERATING AND TEST PRESSURE

- THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
- THE MINIMUM TEST PRESSURE WAS 1801 PSIG.

BILL OF MATERIALS (3D)

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.386" W.T., API -SLX-70 W/FBE COATING	12,730'
3	30" O.D. X 0.516" W.T., API -SLX-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	161'
7	30" O.D. X 0.516" W.T., API -SLX-70 W/FBE COATING	117'

REFERENCE DRAWINGS

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

REVISIONS

NO.	DATE	REV.	CHK'D	APP'D	ENV. APPR.	DESCRIPTION
1	5/12/08	UEI	RDC	LAC	SEC	ISSUED FOR CONSTRUCTION
2	10/12/08	UEI				ISSUED FOR AS-BUILT
						1833-03-ML-02-007 REPLACES COVERAGE OF IFC DRAWINGS
						1833-03-ML-02-010
						1833-03-ML-02-011
						1833-03-ML-02-012

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENV. APPR.	INITIAL	DATE
UEI		10/02/08			

PROFESSIONAL ENGINEER

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

SCALE:

0 125 250 500 Feet

TransCanada
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KEYSTONE MAINLINE (NPS 30 2009) FERNEY SECTION

1833 1833 SPREAD 3B DISCIPLINE 03

AS-BUILT ALIGNMENT

M.P. 278.46 TO M.P. 280.92

SHEET 7 OF 20 SHEETS

STA. 780+55 TO STA. 910+63

DRAWINGS NO.
1833-03-ML-02-007

(3D)
REV