



- 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 SPC SP-2888.
 - 7) THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS SEPTEMBER 23, 2009 FOR M.P. 114.00 TO M.P. 130.00, AUGUST 05, 2009 FOR M.P. 129.90 TO M.P. 168.72 AND AUGUST 07, 2009 M.P. 168.73 TO M.P. 195.68.
 - 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 6528+26 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
1	30" O.D. X 0.438" W.T. API-XL-70 W/FBE COATING	62'
2	30" O.D. X 0.386" W.T. API-XL-70 W/FBE COATING	12,431'
3	30" O.D. X 0.516" W.T. API-XL-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	396'
4	30" O.D. X 0.632" W.T. API-XL-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	120'

ITEM	QUANTITY
PIPELINE MARKERS	0 EA
PIPELINE WARNING SIGNS	0 EA
CATHODIC TEST STATION	5 EA
AERIAL MARKER	1 EA

REFERENCE DRAWINGS

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

REVISIONS

NO.	DATE	REV. BY	CHECKED BY	APP'D. BY	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	8/27/08	UEI	GTG	LAG	PIPE LENGTH REVISION
3	9/17/08	UEI			ISSUED FOR AS-BUILT

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENY APP'D.	INITIAL	DATE
UEI		10/01/18			

PROFESSIONAL ENGINEER

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

SCALE: 0 125 250 500 Feet

KEYSTONE MAINLINE (NPS 30 2008) LUVORNE SECTION
 DRAWN BY: 1830 SPREAD 2A DISCIPLINE 03

AS-BUILT ALIGNMENT
 M.P. 148.29 TO M.P. 150.75
 SHEET 11 OF 20 SHEETS
 STA. 1301+29 TO STA. 1431+38 (3D)
 DRAWING NO. 1830-03-ML-02-011 REV. 3

DISCLAIMER
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BARNES COUNTY, NORTH DAKOTA
 T-140-N, R-57-W, SECTIONS 30 & 31
 T-139-N, R-57-W, SECTIONS 6 & 7

TEST SECTION 2A-1
 ILTO-022-2010