

STATION	DESCRIPTION
1820+00	MATCHLINE 1820+00
1820+30	BEGIN SLOUGH
1820+36	END SLOUGH
1826+51	6.7' C.V.R.
1832+51	M.P. 69
1838+42	5.1' C.V.R.
1839+98	P.I. 00749311 RT.
1840+00	BEGIN SLOUGH
1840+03	CL 42ND STREET NE
1840+48	END SLOUGH
1841+01	P.I. 00738311 RT.
1843+07	BEGIN SLOUGH
1843+48	END SLOUGH
1844+98	END SLOUGH
1851+34	P.I. 00702234 RT.
1857+22	6.8' C.V.R.
1860+42	BEGIN SLOUGH
1860+48	CL SLOUGH
1860+98	END SLOUGH
1869+28	BEGIN SLOUGH
1869+48	CL SLOUGH
1869+98	END SLOUGH
1872+78	5.0' C.V.R.
1874+38	FENCE (HOG WIRE)
1876+58	P.I. 08119121 RT.
1873+85	P.I. 075158 RT.
1877+48	6.3' C.V.R.
1880+47	BEGIN SLOUGH
1881+08	CL SLOUGH
1881+58	END SLOUGH
1884+30	M.P. 70
1885+91	M.P. 71
1889+69	7.1' C.V.R.
1889+23	5.2' C.V.R.
1890+48	P.I. 00738241 LT.
1891+19	P.I. 11100291 LT.
1900+48	P.I. 00732241 LT.
1900+51	P.I. 011222 RT.
1900+98	END SLOUGH
1900+98	OVERHEAD FIBER OPTIC CABLE
1901+06	FIBER OPTIC CABLE
1901+38	ROAD BAR DITCH
1901+78	EDGE OF ROAD
1902+00	CL U.S. HIGHWAY 2
1902+16	EDGE OF ROAD
1902+40	ROAD BAR DITCH
1902+62	CL U.S. HIGHWAY 2
1902+98	EDGE OF ROAD
1903+77	ROAD BAR DITCH
1904+51	OVERHEAD FIBER OPTIC CABLE
1904+58	TELEPHONE LINE
1904+72	FIBER OPTIC CABLE
1905+67	P.I. 00722241 LT.
1905+83	TELEPHONE LINE
1909+69	7.7' C.V.R.
1909+10	5.8' C.V.R.
1909+11	M.P. 71
1942+35	1942+35 VENT
1942+35	TOP OF RAIL
1942+35	CL BURLINGTON NORTHERN RAILWAY
1942+35	TOP OF RAIL
1942+35	CL DITCH
1942+35	PIPELINE EDGE
1942+35	PIPELINE
1942+35	TOP OF BANK
1942+35	VENT
1944+03	4.4' C.V.R.
1944+03	4.9' C.V.R.
1949+33	4.9' C.V.R.
1950+00	MATCHLINE 1950+00

- 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 AUGUST 12, 2009 FOR M.P. 31.03 TO M.P. 66.93 AND AUGUST 16, 2009 FOR M.P. 66.90 TO M.P. 88.54.
 - 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: 1182700.
 - 11) TO DETERMINE THE MILE POST AT A GIVEN LOCATION, ADD THE 3D STATION NUMBER FROM THIS SEGMENT TO STATION NUMBER 1810+69 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-SLX-70 WFBE COATING	12,145'
3	30" O.D. X 0.516" W.T. API-SLX-70 WFBE COATING & ABRASION RESISTANT OVERCOAT	867'
	PIPELINE MARKERS	0 EA
	PIPELINE WARNING SIGNS	6 EA
	CATHODIC TEST STATION	3 EA
	AERIAL MARKER	1 EA

REFERENCE DRAWINGS

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

REVISIONS

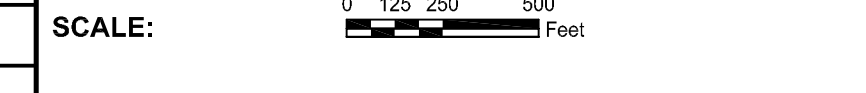
NO.	DATE	REV. BY	CHKD. BY	APPRD. BY	ENV. APPR. BY	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	SEC	ISSUED FOR CONSTRUCTION
2	10/17/08	UEI				ISSUED FOR AS-BUILT
						REPLACES COVERAGE OF IFC DRAWINGS
						1828-03-ML-02-023
						1828-03-ML-02-024
						1828-03-ML-02-025

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENY. APPR. BY	INITIAL	DATE
UEI		10/01/04			
CHECKED BY			APPRD. BY		
			COMPANY APPROVED		

PROFESSIONAL ENGINEER

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



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KEYSTONE MAINLINE (NPS 30 2008) EDINBURG SECTION

SPREAD 1A DISCIPLINE 03

AS-BUILT ALIGNMENT

M.P. 68.82 TO M.P. 71.28

SHEET 15 OF 18 SHEETS

STA. 1822+81 TO STA. 1952+97 (3D)

DRAWING NO. 1828-03-ML-02-015

PIPELINE SCHEMATIC

- HEAVY WALL PIPE
- WELD FITTING
- TRANSITION PIECE
- CASING PIPE
- CONCRETE COATING
- SET ON WEIERS
- PIPELINE WARNING SIGN
- PIPELINE MARKER
- MATERIAL ITEM
- GROUNDING MAT
- ZINC RIBBON
- AERIAL MARKER
- CATHODIC TEST STATION
- MAINLINE VALVE
- CHECK VALVE
- OPEN CUT
- BORE
- DRINKING WATER USA
- ECOLOGICAL USA
- HIGHLY POPULATED AREA
- OPERATOR (IN/STONE) DEFINED
- OTHER POPULATED AREA
- SOURCE WATER PROTECTION AREA
- WELLHEAD PROTECTION AREA

STATIONS (3D)

TEST SECTIONS (3D)

TEST SECTION 1A-4 ILLTO-020-2010

ENVIRONMENTAL MITIGATION/RECLAMATION STATIONS (2D)

TOPSOIL SALVAGE METHOD

STREAMS

WETLANDS

TIMING CONSTRAINTS

STATIONS

MONITORING

RECLAMATION

SPECIAL CONSIDERATIONS

Z:\00_KEYSTONE_AS_BUILT\T4-alignment sheets for North Dakota\ND1828-03-ML-02-015.dwg, 3/9/2011 9:55:38 AM, pdfFactory.p3