



PIPELINE SCHEMATIC	HORIZONTAL STATIONS (2D)	STATION DESCRIPTION
HEAVY WALL PIPE	910+00	MATCHLINE 910+00
WELD FITTING	924+14	EDGE OF ROAD CL 7/14 STREET SE
CASING PIPE	924+14	EDGE OF ROAD
CONCRETE COATING	924+14	EDGE OF ROAD
SET ON WELDS	924+14	EDGE OF ROAD
PIPELINE WARNING SIGN	924+14	EDGE OF ROAD
PIPELINE MARKER	924+14	EDGE OF ROAD
MATERIAL ITEM	924+14	EDGE OF ROAD
GROUNDING MAT	924+14	EDGE OF ROAD
ZINC RIBBON	924+14	EDGE OF ROAD
AERIAL MARKER	924+14	EDGE OF ROAD
CATHODIC TEST STATION	924+14	EDGE OF ROAD
MANLINE VALVE	924+14	EDGE OF ROAD
CHECK VALVE	924+14	EDGE OF ROAD
OPEN CUT	924+14	EDGE OF ROAD
BORER	924+14	EDGE OF ROAD
DRINKING WATER USA	924+14	EDGE OF ROAD
ECOLOGICAL USA	924+14	EDGE OF ROAD
HIGHLY POPULATED AREA	924+14	EDGE OF ROAD
OPERATOR (KEYSTONE) DEFINED	924+14	EDGE OF ROAD
OTHER POPULATED AREA	924+14	EDGE OF ROAD
SOURCE WATER PROTECTION AREA	924+14	EDGE OF ROAD
WELHEAD PROTECTION AREA	924+14	EDGE OF ROAD
TEST SECTIONS (3D)	910+00	MATCHLINE 910+00
TOPSOIL SALVAGE METHOD	910+00	MATCHLINE 910+00
STREAMS	910+00	MATCHLINE 910+00
WETLANDS	910+00	MATCHLINE 910+00
TIMING CONSTRAINTS	910+00	MATCHLINE 910+00
STATIONS	910+00	MATCHLINE 910+00
MONITORING	910+00	MATCHLINE 910+00
RECLAMATION	910+00	MATCHLINE 910+00
SPECIAL CONSIDERATIONS	910+00	MATCHLINE 910+00

**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 DENSOL 7200 OR SPC SP-2888.
- THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS AUGUST 07, 2009 FOR M.P. 188.73 TO M.P. 195.68 AND SEPTEMBER 01, 2009 FOR M.P. 195.68 TO M.P. 218.50.
- 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 9038+16 AND DIVIDE BY 5280.

**OPERATING AND TEST PRESSURE**

- THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
- THE MINIMUM TEST PRESSURE WAS 900 PSIG.

**BILL OF MATERIALS (3D)**

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.388" W.T. API-SLX-70 WFBE COATING	12,697'
3	30" O.D. X 0.516" W.T. API-SLX-70 WFBE COATING & ABRASION RESISTANT OVERCOAT	320'

**MARKER DRAWINGS**

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

**REVISIONS**

NO.	DATE	REV. BY	CHKD. BY	APPRD. BY	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	9/17/09	UEI			ISSUED FOR AS-BUILT
					REPLACES COVERAGE OF IFC DRAWINGS.
					1831-03-ML-02-012
					1831-03-ML-02-013
					1831-03-ML-02-014

**ENGINEERING RECORDS**

DRAWN BY	INITIAL	DATE	ENY. APPRD.	INITIAL	DATE
UEI		10/01/25			

**PROFESSIONAL ENGINEER**

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



KEYSTONE MAINLINE (NPS 30 2008) FORT RANSOM SECTION

**AS-BUILT ALIGNMENT**  
 M.P. 188.43 TO M.P. 190.89  
 SHEET 8 OF 19 SHEETS  
 STA. 910+91 TO STA. 1041+01 (3D)  
 DRAWING NO. 1831-03-ML-02-008

Z:\00\_KEYSTONE\_AS\_BUILT\1831-03-ML-02-008.dwg, 3/10/2011 7:11:49 AM, pdfFactory.ppt