



PIPELINE SCHEMATIC	HORIZONTAL STATIONS (2D)	STATION DESCRIPTION	SLOPE STATIONS (3D)
HEAVY WALL PIPE	1950+00	MATCHLINE 1950+00	
WELD FITTING	1962+28	OVERHEAD POWERLINE	
TRANSITION PIECE	1962+28	EDGE OF ROAD SE	
CASING PIPE	1962+28	EDGE OF ROAD SE	
CONCRETE COATING	1962+28	EDGE OF ROAD SE	
SET-ON WELDS	1962+28	EDGE OF ROAD SE	
PIPELINE WARNING SIGN	1962+28	EDGE OF ROAD SE	
PIPELINE MARKER	1962+28	EDGE OF ROAD SE	
MATERIAL ITEM	1962+28	EDGE OF ROAD SE	
GROUNDING MAT	1962+28	EDGE OF ROAD SE	
ZINC RIBBON	1962+28	EDGE OF ROAD SE	
AERIAL MARKER	1962+28	EDGE OF ROAD SE	
CATHODIC TEST STATION	1962+28	EDGE OF ROAD SE	
MAINLINE VALVE	1962+28	EDGE OF ROAD SE	
CHECK VALVE	1962+28	EDGE OF ROAD SE	
OPEN CUT	1962+28	EDGE OF ROAD SE	
BORE	1962+28	EDGE OF ROAD SE	
DRINKING WATER USA	1962+28	EDGE OF ROAD SE	
ECOLOGICAL USA	1962+28	EDGE OF ROAD SE	
HIGHLY POPULATED AREA	1962+28	EDGE OF ROAD SE	
OPERATOR (KEYSTONE) DEFINED	1962+28	EDGE OF ROAD SE	
OTHER POPULATED AREA	1962+28	EDGE OF ROAD SE	
SOURCE WATER PROTECTION AREA	1962+28	EDGE OF ROAD SE	
WELLHEAD PROTECTION AREA	1962+28	EDGE OF ROAD SE	
TEST SECTIONS (3D)	TEST SECTION 2A-1 ILTO-022-2010		

- 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 DENS0 7200 OR SPC-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: 1182700.
 - 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
2	30" O.D. X 0.388" W.T. API-SLX-70 W/FBE COATING	12,767'
3	30" O.D. X 0.516" W.T. API-SLX-70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	241'

REFERENCE DRAWINGS

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

REVISIONS

NO.	DATE	REV. BY	CHKD. BY	APPD. BY	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	10/17/09	UEI			ISSUED FOR AS-BUILT
					1830-03-ML-02-01.6
					REPLACES COVERAGE OF IFC DRAWINGS
					1830-03-ML-02-02.5
					1830-03-ML-02-02.6

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENY. APPRD.	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. 160.61 TO M.P. 163.07
 SHEET 16 OF 20 SHEETS
 STA. 1951+78 TO STA. 2081+86 (3D)
 DRAWING NO. 1830-03-ML-02-016
 REV. 2

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