



STATION	DESCRIPTION
650+00	MATCHLINE 650+00
651+45	P.I. 0073334* LT.
651+46	P.I. 0073334* LT.
651+47	P.I. 0073334* LT.
651+48	P.I. 0073334* LT.
651+49	P.I. 0073334* LT.
651+50	P.I. 0073334* LT.
651+51	P.I. 0073334* LT.
651+52	P.I. 0073334* LT.
651+53	P.I. 0073334* LT.
651+54	P.I. 0073334* LT.
651+55	P.I. 0073334* LT.
651+56	P.I. 0073334* LT.
651+57	P.I. 0073334* LT.
651+58	P.I. 0073334* LT.
651+59	P.I. 0073334* LT.
651+60	P.I. 0073334* LT.
651+61	P.I. 0073334* LT.
651+62	P.I. 0073334* LT.
651+63	P.I. 0073334* LT.
651+64	P.I. 0073334* LT.
651+65	P.I. 0073334* LT.
651+66	P.I. 0073334* LT.
651+67	P.I. 0073334* LT.
651+68	P.I. 0073334* LT.
651+69	P.I. 0073334* LT.
651+70	P.I. 0073334* LT.
651+71	P.I. 0073334* LT.
651+72	P.I. 0073334* LT.
651+73	P.I. 0073334* LT.
651+74	P.I. 0073334* LT.
651+75	P.I. 0073334* LT.
651+76	P.I. 0073334* LT.
651+77	P.I. 0073334* LT.
651+78	P.I. 0073334* LT.
651+79	P.I. 0073334* LT.
651+80	P.I. 0073334* LT.
651+81	P.I. 0073334* LT.
651+82	P.I. 0073334* LT.
651+83	P.I. 0073334* LT.
651+84	P.I. 0073334* LT.
651+85	P.I. 0073334* LT.
651+86	P.I. 0073334* LT.
651+87	P.I. 0073334* LT.
651+88	P.I. 0073334* LT.
651+89	P.I. 0073334* LT.
651+90	P.I. 0073334* LT.
651+91	P.I. 0073334* LT.
651+92	P.I. 0073334* LT.
651+93	P.I. 0073334* LT.
651+94	P.I. 0073334* LT.
651+95	P.I. 0073334* LT.
651+96	P.I. 0073334* LT.
651+97	P.I. 0073334* LT.
651+98	P.I. 0073334* LT.
651+99	P.I. 0073334* LT.
652+00	MATCHLINE 652+00

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651+72	P.I. 0073334* LT.
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651+74	P.I. 0073334* LT.
651+75	P.I. 0073334* LT.
651+76	P.I. 0073334* LT.
651+77	P.I. 0073334* LT.
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651+96	P.I. 0073334* LT.
651+97	P.I. 0073334* LT.
651+98	P.I. 0073334* LT.
651+99	P.I. 0073334* LT.
652+00	MATCHLINE 652+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.
- TWO TYPES OF COATING WERE APPLIED TO THE FIELD WELDS DURING THE ORIGINAL CONSTRUCTION: ONE TYPE WAS TWO COMPONENT LIQUID EPOXY. THE PRODUCTS USED WERE DENSOL 7200 OR SPC SP-2888. THE OTHER TYPE THAT WAS APPLIED TO THE FIELD WELDS WAS FBE. THE PRODUCT NAME WAS 3M 6223 11G.
- THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS AUGUST 17, 2009 FOR M.P. 403.90 TO 422.96 AND OCTOBER 28, 2009 FOR M.P. 422.96 TO 463.18.
- 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 STATION NUMBER FROM THIS SECTION TO THE STATION NUMBER 21496-76 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 0.386" W.T. API-5L-X70 W/FBE COATING	12 692'
3	30" O.D. X 0.516" W.T. API-5L-X70 W/FBE COATING & ABRASION RESISTANT OVERCOAT	318'

ITEM	QUANTITY
PIPELINE MARKERS	0 EA
PIPELINE WARNING SIGNS	3 EA
CATHODIC TEST STATION	1 EA
AERIAL MARKER	1 EA

REFERENCE DRAWINGS

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

REVISIONS

NO.	DATE	REV. BY	CHKD. BY	APPD. BY	DESCRIPTION
1	5/17/09	UEI	RDG	LAG	ISSUED FOR CONSTRUCTION
2	10/17/10	UEI			ISSUED FOR AS-BUILT
					REPLACES COVERAGE OF IFC DRAWINGS 1836-03-ML-02-006
					1836-03-ML-02-008
					1836-03-ML-02-010

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENY. APPRD.	INITIAL	DATE
UEI		10/03/01			

PROFESSIONAL ENGINEER

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

SCALE: 0 125 250 500 Feet



KEYSTONE MAINLINE (NPS 30 2009) FREEMAN SECTION
SPREAD 4B DISCIPLINE 03

AS-BUILT ALIGNMENT
M.P. 419.46 TO M.P. 421.92
SHEET 6 OF 13 SHEETS
STA. 650+58 TO STA. 780+68 (3D)

DRAWING NO. 1836-03-ML-02-006 REV. 2

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TEST SECTION 4B-1
ILTO-028-2010