



- ### 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 OCTOBER 31, 2009 FOR M.P. 343.98 TO 377.31, NOVEMBER 01, 2009 FOR M.P. 377.29 TO 403.97 AND AUGUST 17, 2009 FOR M.P. 403.90 TO 422.55.
 - 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 18931449 AND DIVIDE BY 5280.



OPERATING AND TEST PRESSURE

1. THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
2. THE MINIMUM TEST PRESSURE WAS 1600 PSIG.

BILL OF MATERIALS (3D)

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.386" W.T., API-5L X-70 W/FBE COATING	12,574
7	30" O.D. X 0.516" W.T., API-5L X-70 W/FBE COATING	435
113B	30"-45" 3 DIA ROAD WELD FITTING 0.429" W.T., Y-70 WITH 2-4 FEET LONG 30" O.D. X 0.429" W.T., API 5L X-70 PUPS	1 EA
	PIPELINE MARKERS	0 EA
	PIPELINE WARNING SIGNS	2 EA
	CATHODIC TEST STATION	3 EA
	AERIAL MARKER	0 EA

REFERENCE DRAWINGS

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

REVISIONS

NO.	DATE	REV. BY	CHK. BY	APP. BY	ENV. APP. BY	DESCRIPTION
1	5/7/09	UEI	RDG	LAG	SEC	ISSUED FOR CONSTRUCTION
2	10/17/14	UEI				ISSUED FOR AS-BUILT
						REPLACES COVERAGE OF IFC DRAWINGS 1835-03-ML-02-017, 1835-03-ML-02-017, 1835-03-ML-02-018

LEGEND

- KEYSTONE PIPELINE
- STATE BOUNDARY
- COUNTY/TOWNSHIP
- SECTIONS
- NATIONAL OR STATE RESERVATION BOUNDARY
- PROPERTY LINE
- FENCE
- EXCLUSIONARY FENCE
- POWER LINE
- TELEPHONE LINE
- BURIED CABLE
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER / DRAIN
- FOREIGN PIPELINE
- RAILROAD
- HIGHWAY / ROAD
- STREAM / DITCH
- WETLAND
- INTERSTATE ROUTE
- U.S. ROUTE
- STATE ROUTE
- POINT OF INTERSECTION (PI)
- PIPELINE MILEPOST
- DIRECTION OF FLOW
- HOUSE
- BUILDING
- WATER WELL
- MAINLINE VALVE

PIPELINE SCHEMATIC

ITEM	DESCRIPTION	STATIONING
HEAVY WALL PIPE		
WELD FITTING		
TRANSITION PIECE		
CASING PIPE		
CONCRETE COATING		
SET-ON WEIGHTS		
PIPELINE WARNING SIGN		
PIPELINE MARKER		
MATERIAL ITEM		
GROUNDING MAT		
ZINC RIBBON		
AERIAL MARKER		
CATHODIC TEST STATION		
CHECK VALVE		
OPEN CUT		
BORE		
D DRINKING WATER USA		
E ECOLOGICAL USA		
H HIGHLY POPULATED AREA		
K OPERATOR (KEYSTONE) DEFINED		
O OTHER POPULATED AREA		
S SOURCE WATER PROTECTION AREA		
W WELLHEAD PROTECTION AREA		

TEST SECTIONS (3D)

TEST SECTION	STATIONING	COVER
TEST SECTION 38-4	1300+80 TO 1430+80	5.4' FBF

ENGINEERING RECORDS

DRAWN BY	INITIAL	DATE	ENV. APP. BY	INITIAL	DATE
UEI		10/02/22			

PROFESSIONAL ENGINEER

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

SCALE: 0 125 250 500 Feet

KEYSTONE MAINLINE (NPS 30 2009) ROSWELL SECTION

AS-BUILT ALIGNMENT

M.P. 383.19 TO M.P. 385.65
SHEET 11 OF 20 SHEETS

DRAWING NO. 1835-03-ML-02-011 (3D)
REV: 2