Crossing Notes

701+92 CL DRAINAGE DITCH
703+13 CL OH PWR LINE
706+61 CL ROAD
710+67 12" PVC WATERLINE
710+96 CL S BOUND FLANNIN STREET
711+32 CL STORM SEWER LINE
711+35 CL FLANNIN STREET
711+49 10" PVC SANITARY SEWER
711+73 CL N BOUND FLANNIN STREET
715+69 CL 12" PIPELINE
715+92 CL 12" PIPELINE
720+48 CL 2" PIPELINE
720+77 CL 6" PIPELINE
721+37 CL 20" BURIED WATER LINE
721+73 CL KNIGHT ROAD
722+11 CL BURIED TELE LINE
722+32 CL 12" PIPELINE
725+49 CL OH PWR LINE
725+69 EDGE OF ROAD
726+03 CL S BOUND ALMEDA ROAD
726+03 CL S BOUND FARM MARKET HWY 521
726+30 CL FARM MARKET HWY 521
726+30 CL ALMEDA ROAD
726+56 CL N BOUND FARM MARKET HWY521
726+56 CL N BOUND ALMEDA ROAD
726+73 EDGE OF ROAD
726+96 GAS PIPELINE
727+70 CL RR TRACK
728+09 CL 6" PIPELINE
728+16 CL 6" PIPELINE
728+82 CL OLD ALMEDA ROAD
728+93 CL SEWER LINE
729+11 CL BURIED WATER LINE
729+35 CL OH PWR LINE
729+41 CL 4" PIPELINE
730+11 CL PIPELINE
730+18 CL PIPELINE
733+29 CL 4W OH PWR LINE
734+28 CL SEWER LINE
734+31 CL 4W OH PWR LINE
735+75 CL EXXON ASPHALT DRIVEWAY
737+97 CL 5W OH PWR LINE
738+43 CL PIPELINE
741+76 CL 1W OH TELE LINE
741+99 CL E BOUND HOLMES ROAD
742+32 CL GAS PIPELINE
742+39 CL BURIED WATER LINE
742+41 CL HOLMES ROAD
742+82 CL W BOUND HOLMES ROAD
743+03 CL PIPELINE
743+44 CL 6" PIPELINE
743+46 CL 6" PIPELINE
743+58 CL SPUR RR TRACK
743+75 CL RR TRACK
744+37 CL BURIED FIBER OPTIC CABLE
756+97 CL NATURAL GAS PIPELINE
767+47 CL NATURAL GAS PIPELINE
769+92 CL DRIVEWAY
770+84 CL DRIVEWAY
771+07 CL OH PWR LINE
771+66 CL SPUR RR TRACK (ABAND)
773+25 CL 12" PIPELINE
777+20 CL PIPELINE
777+58 CL DRIVEWAY
779+92 CL OH TELE LINE
780+90 CL DRIVEWAY
783+68 CL BURIED FIRE WATER LINE
783+98 CL 6" DRAIN LINE
784+55 CL 6" DRAIN LINE
786+32 CL CULVERT
786+46 CL DRIVEWAY
790+81 EDGE OF OH OFF RAMP HWY 288
791+44 EDGE OF OH MAIN LANE HWY 288
792+14 CL STATE HIGHWAY 288
792+84 EDGE OF OH MAIN LANE HWY 288
793+74 EDGE OF OH OFF RAMP HWY 288
795+56 CL SEWER LINE
796+02 CL 12" PIPELINE
797+49 CL DRIVEWAY
799+35 CL OH PWR LINE
799+92 CL SPUR RR TRACK
801+13 CL 2" PIPELINE (OLD)
801+15 CL 2" PIPELINE (NEW)
801+19 EDGE OF ENTRANCE ROAD
801+42 CL ENTRANCE ROAD
801+65 EDGE OF ENTRANCE ROAD
802+59 CL TELEPHONE LINE
803+20 CL SPUR RR TRACK
804+30 CL OH PWR LINE

Sheet Notes

703+13 TIE LEFT 17' TO POLE
710+67 BW FENCE
710+72 CL CONC SIDEWALK
711+32 TIE RIGHT 183' TO MANHOLE
711+98 CL CONC SIDEWALK
712+03 BW FENCE
721+24 CL VENT
722+18 CL VENT
725+47 CL VENT
725+48 6' CHAINLINK FENCE
725+49 TIE LEFT 15' TO POLE
727+53 CL BEGIN RAILROAD BALLAST
727+85 CL END RAILROAD BALLAST
728+82 W. RYAN SURVEY LINE
728+93 TIE LEFT 36' TO MANHOLE
729+11 TIE RIGHT 300' TO F.H.
729+35 TIE RIGHT 76' TO POLE
729+49 CL VENT
730+03 TIE LEFT 4' TO CORNER OF VLV SITE
730+03 6' CHAINLINK FENCE
730+17 BEGIN DIRECTIONAL DRILLING
731+71 TIE LEFT 9.4' TO METER BLDG CORNER
732+19 6' CHAINLINK FENCE
734+93 6' CHAINLINK FENCE
736+45 6' CHAINLINK FENCE
737+02 BEGIN ASPHALT PARKING LOT
737+50 END ASPHALT PARKING LOT
738+92 6' CHAINLINK FENCE
743+01 TIE LEFT 8' RAILROAD SIGNAL
743+03 TIE LEFT 5' TO MANHOLE
744+39 TIE LEFT 70' TO FENCE CORNER
744+39 6' CHAINLINK FENCE
745+01 END DIRECTIONAL DRILLING
746+11 CL 6" BY-PASS RISER
746+13 CL 6" BY-PASS RISER
746+18 BEGIN IN HARRIS COUNTY
746+18 MCT 39-35-E4 PIERCE JCT MLV
746+18 PROPERTY LINE
746+18 JUN LT TO 056-000-00-00:1000:0+00
746+18 PF-2279-8 OF 8 PIERCE JCT MLV
746+18 BEGIN IN TEXAS
746+18 MCT-39-37-F32 PIERCE JUNCTION
746+18 JUN FROM 039-000-00-00:1000:746+18
746+18 BEGIN IN DAVID WHITE SURVEY
746+18 MCT39-25-E7 PIERCE JUNCTION
746+24 CL 6" RISER TO BOV
747+71 6' CHAINLINK FENCE
747+71 TIE RIGHT 8' TO FENCE CORNER
762+48 TIE RIGHT 6' TO FENCE CORNER
762+48 6' CHAINLINK FENCE
770+19 6' CHAINLINK FENCE
770+19 TIE RIGHT 2' TO FENCE CORNER
771+07 TIE LEFT 8' TO POLE
771+27 TIE RIGHT 6' TO FENCE CORNER
771+27 6' CHAINLINK FENCE
772+10 TIE LEFT 7' TO POWER POLE
772+98 TIE LEFT 3' TO POWER POLE
773+00 CL BEGIN CONC PARKING LOT
776+25 CL END CONC PARKING LOT
776+60 TIE LEFT 2' TO POWER POLE
777+14 TIE LEFT 2' TO POWER POLE
777+78 6' CHAINLINK FENCE
777+78 TIE RIGHT 3' TO FENCE CORNER
777+82 TIE RIGHT 3' TO FENCE CORNER
777+82 6' CHAINLINK FENCE
777+82 TIE LEFT 4' TO FENCE CORNER
777+82 TIE RIGHT 15' TO FENCE CORNER
779+92 TIE LEFT 4' TO POLE
781+82 TIE LEFT 2' TO FENCE
781+82 TIE RIGHT 11' TO POWER POLE
782+07 6' CHAINLINK FENCE
782+07 TIE LEFT 5' TO FENCE CORNER
782+92 TIE RIGHT 3' TO ABV GRD WTR MTR
785+73 CL BEGIN ASPH PARKING LOT
785+76 TIE RIGHT 6' TO FENCE CORNER
786+29 TIE RIGHT 2' TO FENCE CORNER
786+32 TIE LEFT 4' TO PWR POLE
786+86 TIE LEFT 5' TO COR CONC PARKING
789+12 TIE LEFT 5' TO COR CONC PARKING
789+92 TIE RIGHT 5' TO FENCE CORNER
789+92 6' CHAINLINK FENCE
795+56 TIE LEFT 12' TO MANHOLE
795+64 TIE RIGHT 5' TO FENCE CORNER
795+64 6' CHAINLINK FENCE
797+28 TIE RIGHT 2' STEEL SIGN
797+62 TIE RIGHT 13' TO FENCE CORNER
797+62 6' CHAINLINK FENCE
799+24 6' CHAINLINK FENCE
799+24 TIE RIGHT 10' TO FENCE CORNER
799+35 TIE RIGHT 7' TO POLE
801+17 6' CHAINLINK FENCE
801+17 TIE RIGHT 4' TO FENCE
804+30 TIE RIGHT 3' TO POLE
804+63 TIE LEFT 18' TO COR WAREHOUSE

Routing Notes

696+93 01°18' PI LEFT
700+09 00°46' PI RIGHT
702+98 02°44' PI RIGHT
703+55 02°29' PI LEFT
717+28 02°49' PI RIGHT
718+08 01°27' PI RIGHT
719+55 01°59' PI LEFT
720+81 01°44' PI LEFT
729+90 42°15' PI LEFT HB
742+20 01°30' PI RIGHT
743+88 01°30' PI RIGHT
745+00 88°06' PI RIGHT HB
745+58 37°17' PI LEFT HB
745+84 02°11' PI LEFT
746+18 PI ROUTE
758+50 02°57' PI RIGHT
761+02 02°39' PI LEFT
765+30 00°53' PI LEFT
767+90 02°34' PI RIGHT
769+29 01°40' PI LEFT
770+36 02°20' PI LEFT
774+00 01°22' PI RIGHT
777+19 11°02' PI RIGHT
777+32 10°35' PI LEFT
785+63 03°12' PI LEFT
786+81 03°19' PI RIGHT
795+07 02°09' PI LEFT
797+46 03°05' PI RIGHT
799+05 02°20' PI RIGHT
800+11 03°17' PI LEFT

Map View

Subject line
Adjacent Lines

Pipe Schematic

721+24 BEGIN 0" CASING
722+20END CASING
724+69 8.00 TAP
725+45 BEGIN 18" CASING
729+51END CASING
746+18 18.00 " PIERCE JUNCTION MLV(MAINLINE 6772)
800+97 1.00 TAP

Pipe Material (Diameter, Wall, SMYS, Install Date)

Station	Diameter x Wall	SMYS	Install Date
686+49	18" x 0.312"	X60	1/1/1983
700+64	18" x 0.312"	X52	5/24/2001
708+63	18" x 0.375"	X42	5/10/2001
709+86	18" x 0.312"	X60	8/10/1994
712+89	18" x 0.375"	X42	5/10/2001
729+59	18" x 0.375"	X52	5/10/2001
729+84	18" x 0.500"	X60	5/10/2001
729+94	18" x 0.375"	X42	5/10/2001
730+14	18" x 0.500"	X60	5/10/2001
730+20	18" x 0.375"	X52	5/24/2001
733+37	18" x 0.375"	X60	5/10/2001
744+90	18" x 0.500"	X60	5/10/2001
745+12	18" x 0.375"	X42	5/10/2001
745+53	18" x 0.500"	X60	5/10/2001
745+63	18" x 0.375"	X42	5/10/2001
745+85	18" x 0.312"	X60	1/1/1986
746+03	18" x 0.500"	X42	5/10/2001
746+18	18" x 0.375"	X42	6/1/2001
746+34	18" x 0.312"	X60	3/5/1986
777+21	18" x 0.375"	X42	6/1/2001
777+26	18" x 0.312"	X60	3/5/1986
782+42	18" x 0.375"	X42	6/1/2001
782+47	18" x 0.312"	X60	3/5/1986
785+04	18" x 0.375"	X42	6/1/2001
785+09	18" x 0.312"	X60	3/5/1986
786+83	18" x 0.375"	X42	6/1/2001
786+88	18" x 0.312"	X60	3/5/1986
790+53	18" x 0.375"	X42	6/1/2001
794+03	18" x 0.312"	X60	3/5/1986
800+95	18" x 0.375"	X42	6/1/2001
800+99	18" x 0.312"	X60	3/5/1986
805+25			

External Coating (Material, Type)

Station	Material	Type
686+49	SCTCHKT	FBE
700+64	UNKNOWN	FBE
709+86	UNKNOWN	UNKNOWN
712+89	UNKNOWN	FBE
721+20	POWERCRETE	FBE
722+40	UNKNOWN	FBE
725+10	POWERCRETE	FBE
729+54	UNKNOWN	FBE
733+37	LILLY 10/40	FBE
744+90	UNKNOWN	FBE
745+85	TGF-3	CTE
746+03	UNKNOWN	FBE
746+34	TGF-3	CTE
777+21	UNKNOWN	FBE
777+26	TGF-3	CTE
782+42	UNKNOWN	FBE
782+47	TGF-3	CTE
785+04	UNKNOWN	FBE
785+09	TGF-3	CTE
786+83	UNKNOWN	FBE
786+88	TGF-3	CTE
790+53	UNKNOWN	FBE
794+03	TGF-3	CTE
800+95	UNKNOWN	FBE
800+99	TGF-3	CTE
805+25		

DOT Class

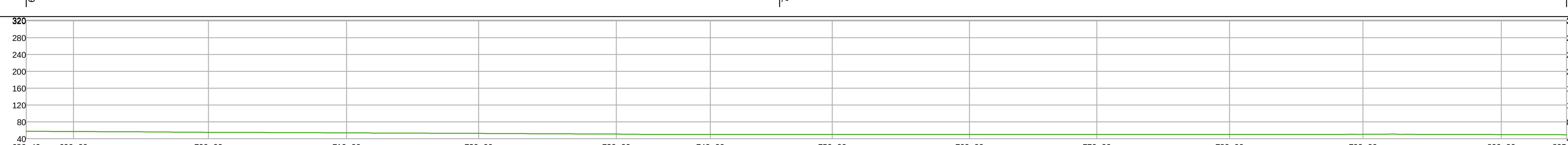
From	To	Class
686+49	692+62	CLASS 1
692+62	805+25	CLASS 3

Ownership

From	To	Owner
686+49	746+18	UNKNOWN
746+18	805+25	<NO DATA>

Profile

Top of Pipe
Top of Ground
Center of Pipe



MAOP

From		To	MAOP
686+49	TO	746+18	MAOP: 780 MOP: 780
746+18	TO	805+25	MAOP: 780 MOP: 780

VALVE DETAILS

Station		Details
746+11	TO	06", BY-PASS UNKNOWN BALL
746+13	TO	06", BY-PASS UNKNOWN BALL
746+18	TO	18", MAINLINE 6772 BALL
746+23	TO	06", BLOWOFF MP150.36-3 BALL
746+26	TO	06", SIDE TAP MP150.36-4 BALL

REF DRAWINGS

From		To	Drawing
746+18	TO	746+18	MCT39-25-E7 PIERCE JUNCTION
746+18	TO	746+18	PF-2279-8 OF 8 PIERCE JCT MLV
746+18	TO	746+18	MCT 39-35-E4 PIERCE JCT MLV
746+18	TO	746+18	MCT-39-37-F32 PIERCE JUNCTION

JOB RANGE

From		To	Job
686+49	TO	805+25	AFE 83871
746+18	TO	746+34	AFE 44604
746+34	TO	777+21	M8343
777+21	TO	777+26	AFE 44604
777+26	TO	782+42	M8343
782+42	TO	782+47	AFE 44604
782+47	TO	785+04	M8343
785+04	TO	785+09	AFE 44604
785+09	TO	786+83	M8343
786+83	TO	786+88	AFE 44604
786+88	TO	790+53	M8343
790+53	TO	794+03	AFE 44604
794+03	TO	795+07	ER 6-1728
795+07	TO	800+95	M8343
800+95	TO	800+99	AFE 44604
800+99	TO	805+25	M8343

LEGEND

Symbol	Symbol
MILEPOST	CASING
MAINLINE VALVE (MLV)	ELECTRIC
WATER CROSSING	WATER LINE
CATHODIC TEST STATION	FIBER OPTIC
AERIAL MARKER	EXISTING PIPELINE
LAUNCHER	CL ROAD
RECEIVER	PROPERTY LINE
REDUCER	POWER LINE
BRANCH CONNECT	FENCE
GROUND BED	TELEPHONE LINE
STATION EQUATION	RAILROAD
REGULATOR SETTING	RIGHT OF WAY
WELD CAP	TRANSMISSION LINE
DRIP	HIGH CONSEQUENCE AREA
	TOWNSHIP LINE
	STATE LINE
	COUNTY LINE

KINDER MORGAN

0 125 250 500 750 1,000 1,250 Feet

Operating Company
KMTP

System **KMTP**

Line
SUGARLAND JCT TO GRIGGS ROAD

Route
SUGARLAND JCT TO GRIGGS ROAD

Valve Segment
6575 TO 6772
6772 TO END OF ROUTE

Legal Boundary
HARRIS, TX

BBB & CRR SURVEY LINE A-885
BBB & CRR SURVEY LINE A-885
W. RYAN SURVEY LINE A-883

District
Missouri City TX
Missouri City TX

Line #
039-000-00-00

Sheet #
009

Generate Date
04/26/13