

# DR-105

## Kinder Morgan Immediate Response to MLV 38

Measurement Technician is a Measurement Technician (“MT”) with Kinder Morgan whose duties for many years have included servicing EPNG’s Line 2000. MT is OQ qualified to handle all aspects of immediate response and valve shut down. He lives and works in Coolidge/Casa Grande.

Line Patroller is a Line Patroller (“LP”) with Kinder Morgan who lives and works in the proximate area. LP’s responsibilities and training include immediate response location protocol, in this case preparing and securing the pipeline area being accessed (MLV 38) for MT to conduct the valve shut down. MT was directed by KM to MLV 38 the day of the incident and LP was directed to provide assistance.

It should be noted that monsoon conditions had poured almost an inch of rain on the area in the 24 hours prior to the incident, flash flood warnings were in effect, and unpaved roads were largely washed out and in terrible condition. The bridges providing access over wash areas and canal crossings were also washed out. A summary of their routes and timing follows.

### Measurement Technician (MT):

#### Route Mileage:

- From MT's home ([REDACTED], Casa Grande) on various streets to the [REDACTED] [REDACTED] across [REDACTED] to an unpaved irrigation path turn around point (Pin 1) where the bridge across the wash was washed out and impassible – @ 14 miles
- From the unpaved irrigation path turn around point to [REDACTED] where MT met Coolidge Police Department (Pin 2) – @ 6 miles
- From rendezvous point with Coolidge Police Department across [REDACTED] [REDACTED] to the intersection [REDACTED] (Pin 3) – @ 9 miles
- From intersection of [REDACTED] to [REDACTED] (where MT made his [REDACTED] [REDACTED] to access the pipeline easement road towards MLV 38) (Pin 4) – @ 8 miles
- 1.0 mile on [REDACTED] to access the pipeline easement road. (Pin 5)
- 9.3 miles down the pipeline easement road (where the police officer got stuck halfway) to MLV 38.
- Total Mileage: 47.3

#### Road Condition:

- Paved with the exception of the last few miles across [REDACTED] towards MLV 38 to the washed out canal bridge, and the final 9.3 miles of easement road.
- Pipeline easement road was badly washed out throughout its length, Coolidge Police Department got stuck about half way.

#### Timing:

- MT left his home at 5:53 am
- According to the NTSB Survival Factors Factual Report of the Investigation (v. October 26, 2021), Section 3.1, Table 1 (Incident Emergency Response), MT's rendezvous with the Coolidge Police Department to Pin 3 occurred at 7:00:54 am. This would have been after MT had been driving around 20 miles from his home across mostly secondary, residential streets. The same Section of the referenced NTSB report indicates that the distance from the point of rendezvous with Coolidge Police Department to MLV 28 was 27 miles.
- MT arrived at MLV 38 at approximately 7:55 am.
- It took approximately 40 minutes for MT to travel the 9.3 mile length of the easement road, and around 13-15 minutes at high speed, with police escort, to cover the remaining 18 miles from MT's point of meeting with Coolidge Police Department.
- MT was only about 6 miles to the [REDACTED] of MLV 38, at around 6:45 am, before having to reverse course and circumnavigate the wash area to approach from the [REDACTED] due to the washed out canal bridge.
- Total Elapsed Time: 2 hours 2 minutes

### Line Patroller (LP):

#### Route Mileage:

- LP was on the [REDACTED] well [REDACTED] of MLV 38 when he received a call at 6:04 am from a KM contractor advising of the incident.
- LP's initial route down the [REDACTED] through to [REDACTED] was @ 10 miles. (Pin 1)
- LP made an @ 1 mile jog [REDACTED] on [REDACTED], then proceeded [REDACTED] on [REDACTED] for @ 2.5 miles. (Pin 2)
- Thereafter, LP proceeded [REDACTED] on an unpaved farm irrigation path for @ 1 mile before pulling a u-turn and heading [REDACTED] on [REDACTED] for @ 2 miles. (Pin 3)
- LP then went @ 1 mile [REDACTED] on [REDACTED]. (Pin 4)
- LP then went [REDACTED] for @ 1 mile on [REDACTED] to an unpaved irrigation path. (Pin 5)
- LP followed the unpaved irrigation path [REDACTED] @ 4 miles. LP then made his way [REDACTED] on the pipeline right-of-way to MLV 38, a distance of @ 4.5 miles.
- Total Mileage: 27 miles

#### Road Condition:

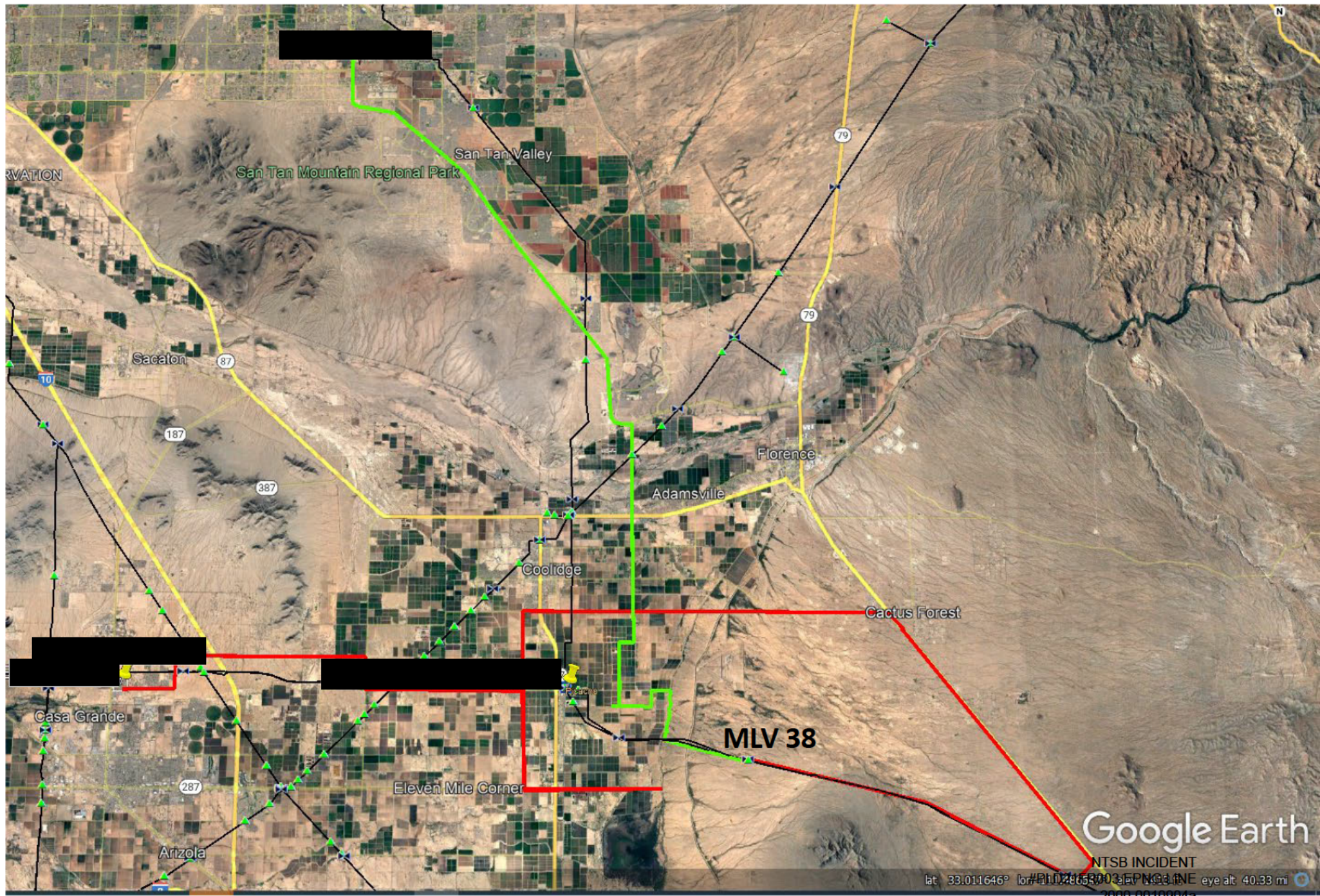
- The unpaved path next to the irrigation canal to the [REDACTED] of MLV 38 was reported to be washed out and difficult to navigate, very slow going.
- LP had local knowledge that MT did not about unpaved farm and irrigation paths that allowed a more direct route from the [REDACTED] and did not require crossing the washed out canal bridge that blocked MT.
- LP's rate of progress on the secondary and washed out roads appears similar to MT's.

#### Timing:

- 6:04 am call from concerned contractor.
- Arrival 7:28 am at MLV 38.
- Total Elapsed Time: 1 hour 24 minutes

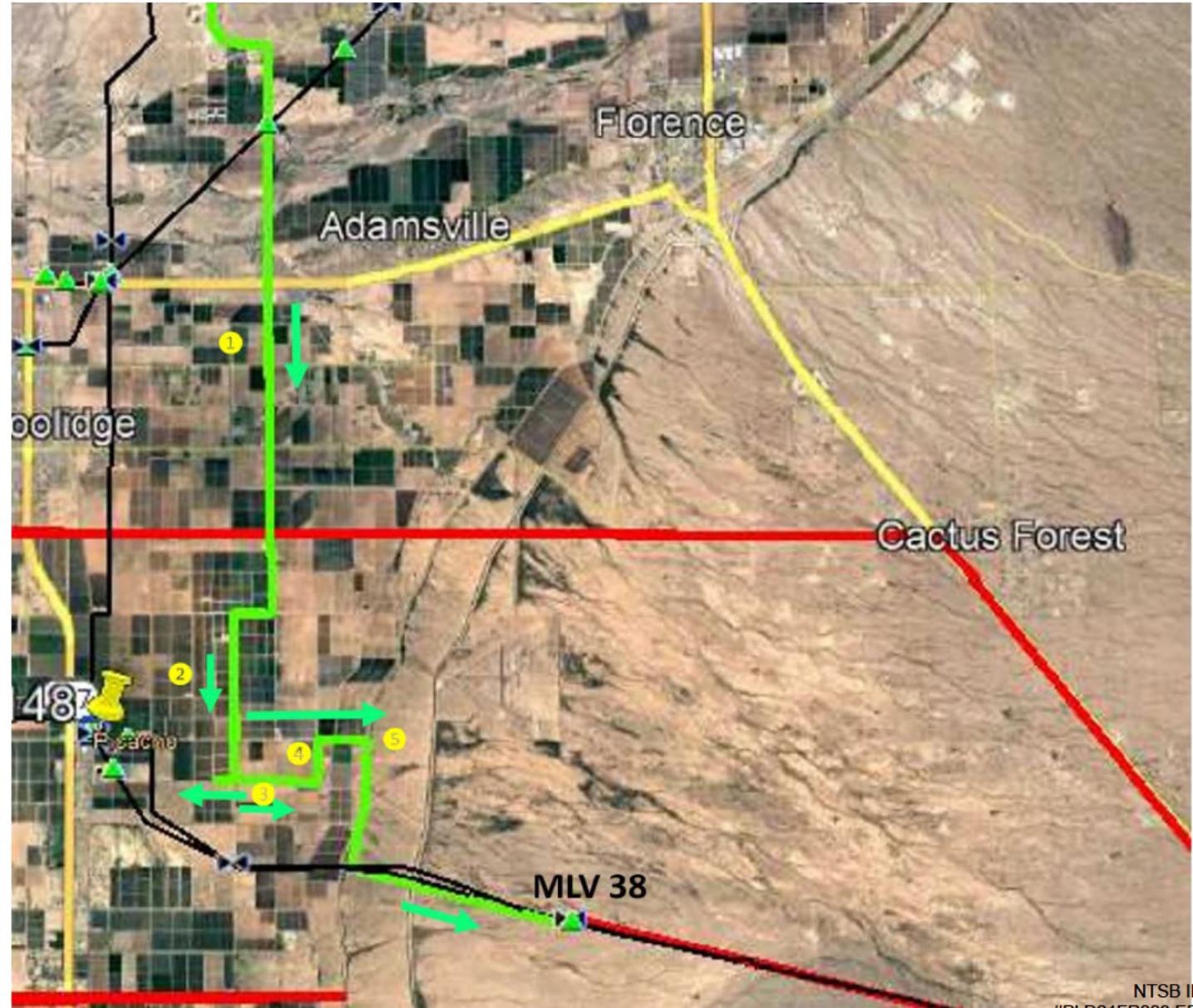
**Line Patroller's  
Route to MLV 38**

**Measurement  
Technician's  
Route to MLV 38**




# Line Patroller's Route to MLV 38

- LP came down [REDACTED] from the [REDACTED]
- [REDACTED] on [REDACTED]
- [REDACTED] on [REDACTED]
- [REDACTED] on [REDACTED]
- [REDACTED] on a farm/irrigation path
- He heard they were having trouble getting to MLV 38
- He U-turned and headed [REDACTED] to [REDACTED]
- [REDACTED] on [REDACTED]
- [REDACTED] on [REDACTED]
- [REDACTED] to an unpaved irrigation path
- [REDACTED] on an unpaved irrigation path to pipeline ROW
- [REDACTED] to MLV 38 along the ROW



# Measurement Technician's Route to MLV 38

- MT came out of his subdivision and headed [REDACTED] on [REDACTED]
- Took [REDACTED] to [REDACTED]
- Took [REDACTED] to [REDACTED]
- Took [REDACTED] to [REDACTED]
- Took [REDACTED] to [REDACTED]
- Took [REDACTED] to [REDACTED]
- Took [REDACTED] across [REDACTED] to an irrigation path, and along that path to a point where the bridge across the wash was washed out and impassible.
- Backtracked to [REDACTED] and found police officer (Pin 2). MT told Coolidge Police Officer he needed to get through the road blocks to [REDACTED]. He was directed to go to next road block and let the police officer know he needed to get to [REDACTED]
- Police officer escorted him to [REDACTED] to the EPNG pipeline right-of-way and then escorted him the remainder of the way until the officer got stuck in the mud.
- MT continued past the officer to MLV 38.

 Approx. location where officer got stuck in the mud

