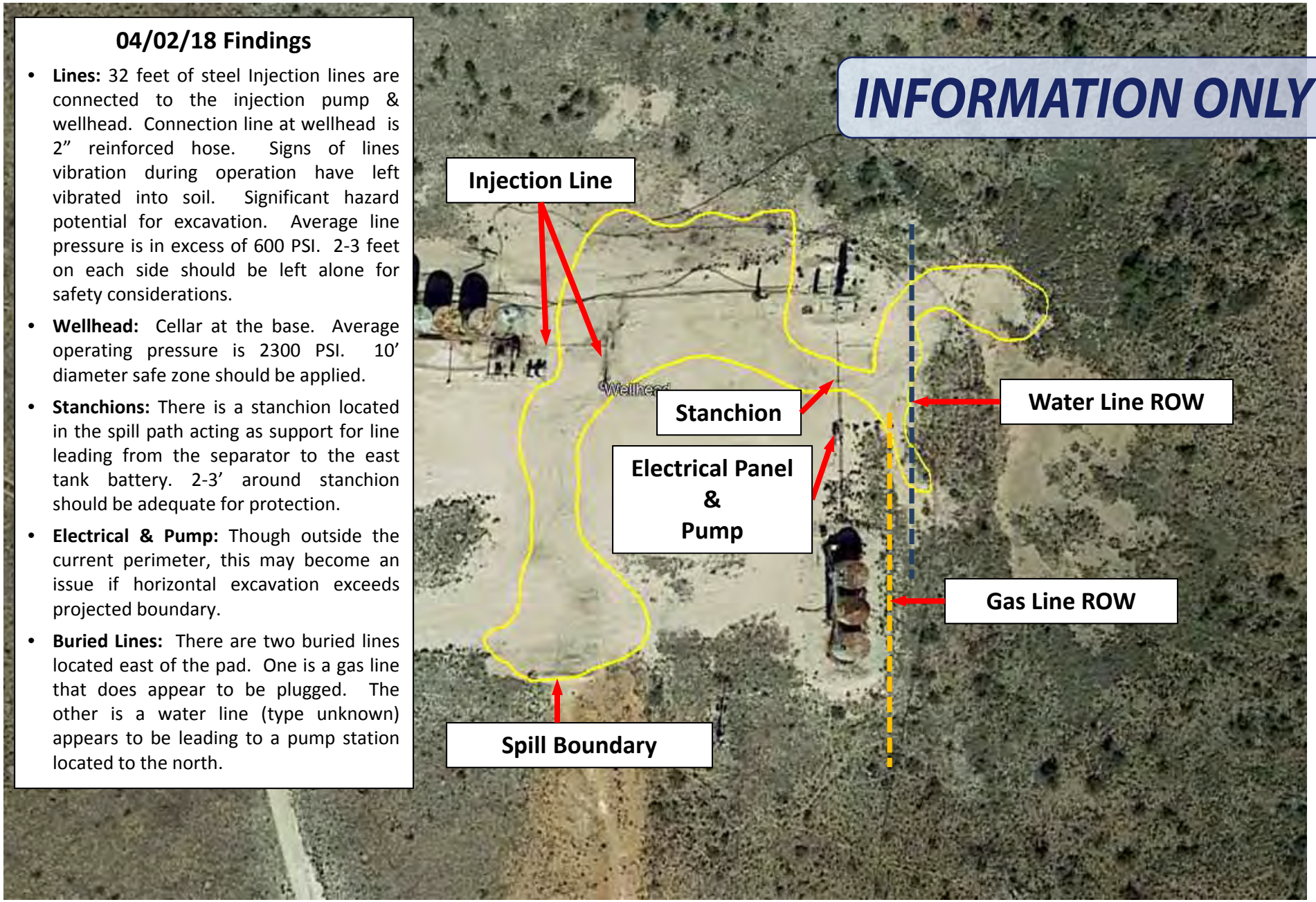
eTECH Environmental & Safety Solutions, Inc.	Assessment & Corrective Action Evaluation Report ©	Lease Name:	NC State #1	RP No:	1RP471
		Reference:	March 2, 2018 Assessment Findings	Project No. :	585-9282-000

04/02/18 Findings

- **Lines:** 32 feet of steel Injection lines are connected to the injection pump & wellhead. Connection line at wellhead is 2" reinforced hose. Signs of lines vibration during operation have left vibrated into soil. Significant hazard potential for excavation. Average line pressure is in excess of 600 PSI. 2-3 feet on each side should be left alone for safety considerations.
- **Wellhead:** Cellar at the base. Average operating pressure is 2300 PSI. 10' diameter safe zone should be applied.
- **Stanchions:** There is a stanchion located in the spill path acting as support for line leading from the separator to the east tank battery. 2-3' around stanchion should be adequate for protection.
- **Electrical & Pump:** Though outside the current perimeter, this may become an issue if horizontal excavation exceeds projected boundary.
- **Buried Lines:** There are two buried lines located east of the pad. One is a gas line that does appear to be plugged. The other is a water line (type unknown) appears to be leading to a pump station located to the north.



Line marker for buried water line. Arrow indicates the location of the buried gas line.

View of transfer pump, electrical panel, and example of stanchion on east site of pad.

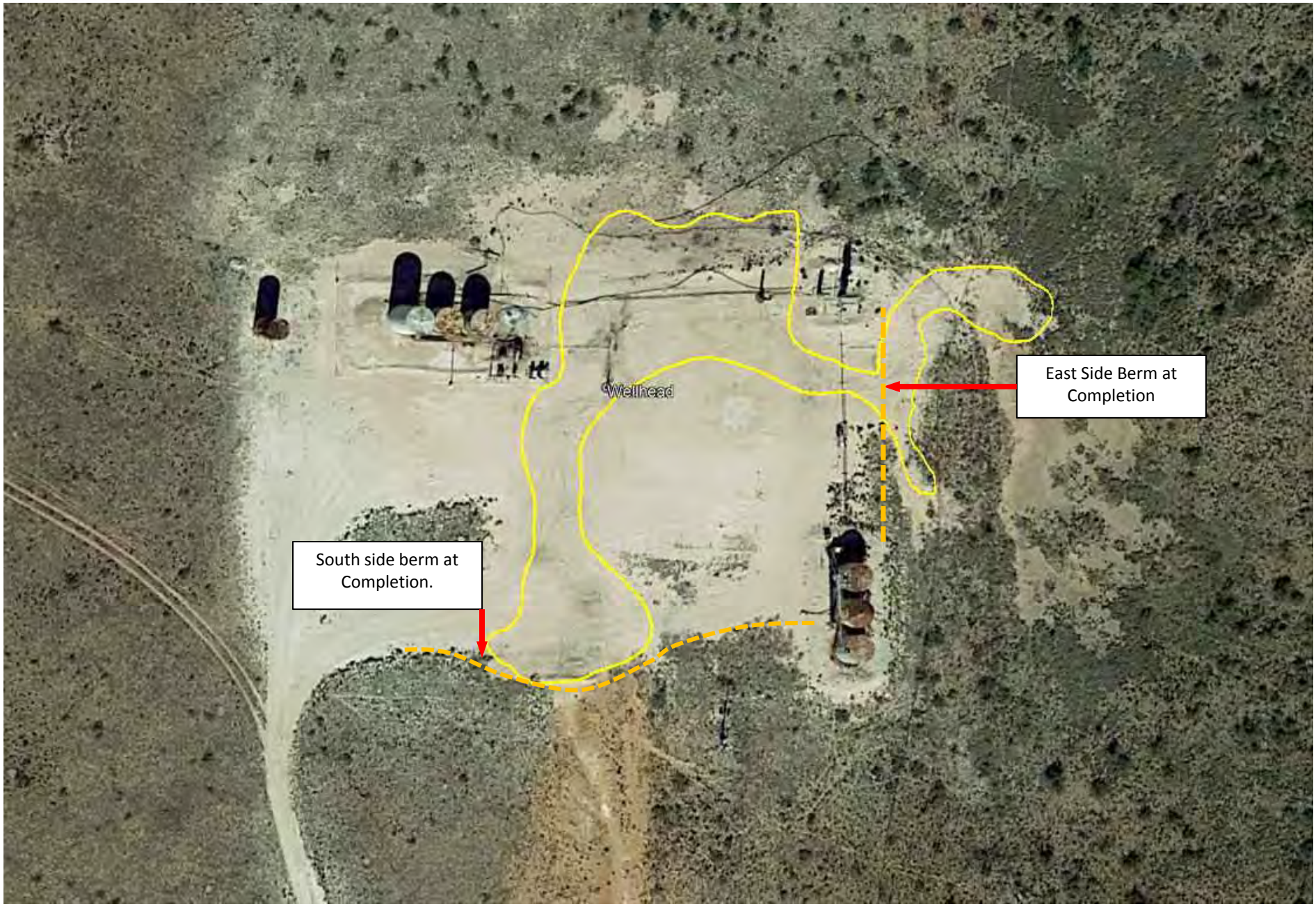
View of injection well and injection line from pump.

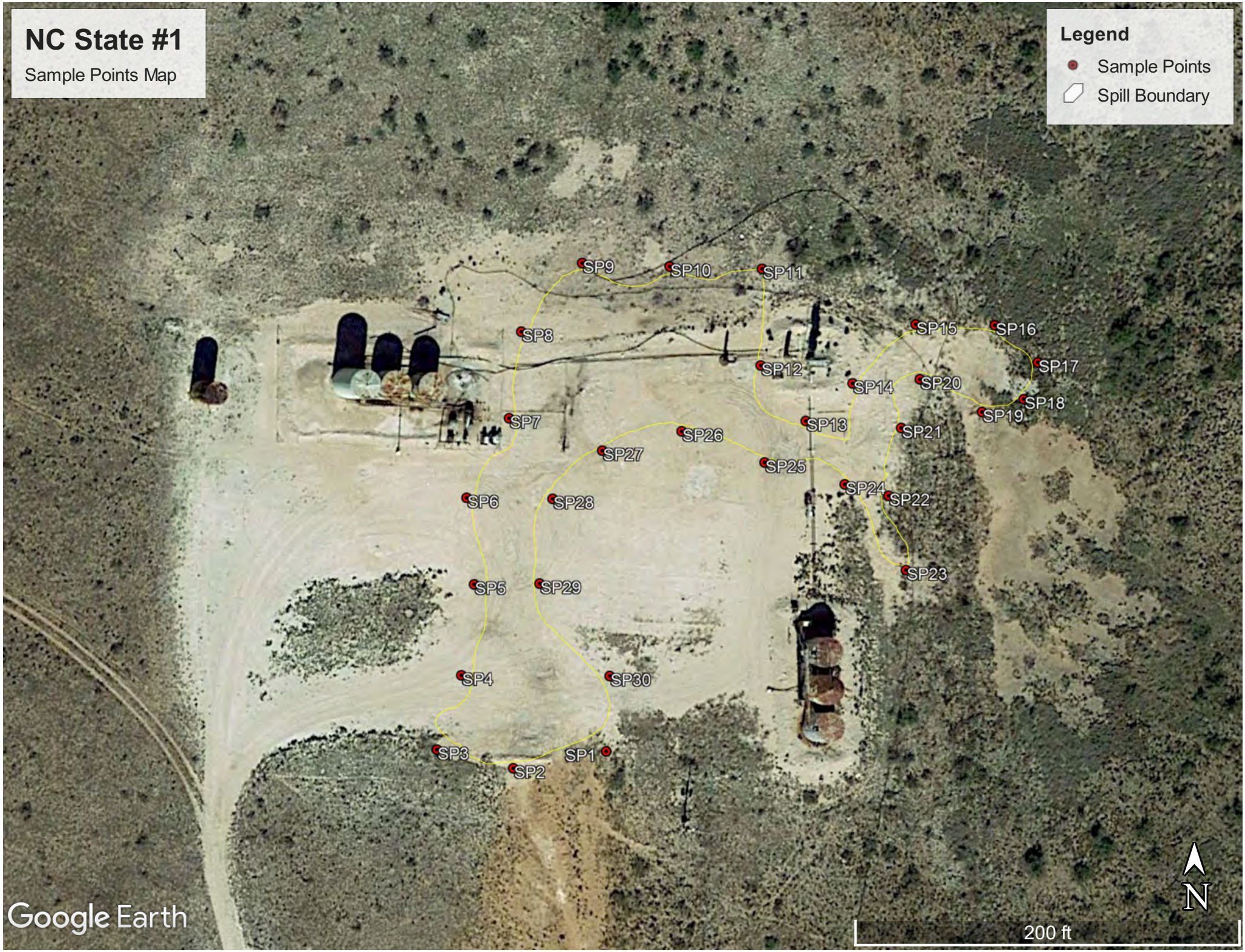
Gas Line located adjacent to the east side of the pad.

Alternate shot of water line marker showing reference to the pad.

View of injection line from pump to well. Note how line has vibrated down into the soil.

eTECH Environmental & Safety Solutions, Inc.	Assessment & Corrective Action Evaluation Report ©	Lease Name:	NC State #1	RP No:	1RP471
		Reference:	Berm Installation Aerial	Project No. :	585-9282-000




NC State #1
Sample Points Map
Legend
Sample Points
Spill Boundary
SP1
SP2
SP3
SP4
SP5
SP6
SP7
SP8
SP9
SP10
SP11
SP12
SP13
SP14
SP15
SP16
SP17
SP18
SP19
SP20
SP21
SP22
SP23
SP24
SP25
SP26
SP27
SP28
SP29
SP30
Google Earth
N
200 ft