

<b><i>E&amp;B Oilfield Services Inc.</i></b>	Activity: ALL WORK <b>Utility Locating and Site Plans</b>		Doc No:	HAZ-ID
			Initial Issue Date	4/15/2015
			Revision Date:	4/15/2016
<b>HAZARD IDENTIFICATION AND ASSESSMENT</b>			Revision No.	1
			Next Revision Date:	4/15/2017
Preparation: Kate Graves	Authority: Danny Abegglen	Issuing Dept: Safety	Page:	1 of 2

## Purpose

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- **Utility Locates**

## Key Responsibilities

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- Supervisors / Leads are required to ensure all employees have proper training for using site plans and calling "811" utility locates.
- All E&B Employees are required to call for utility locates every time existing soil is disturbed. Employees are required to follow task specific job safety analysis risk mitigation when visiting sites for utility locates and site plans.

## Hazard and Risk Identification

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Employees MAY be exposed to the following hazards:

- Hammer use while installing locate stakes causing crushing or cuts of fingers or hands
- Flying debris causing eye damage or struck by
- Multiple power units from other crews in motion causing collision or run over
- Vehicle entry or dismount causing slips, trips or falls
- Walking location on uneven ground causing trips or falls, exposure to spiders or snakes, muscle or joint injury
- Opening gates causing pinches, cuts by barbed wire

## Risk Assessment

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Hazards are classified and ranked based on severity. The program identifies hazards are classified/prioritized and addressed based on the risk associated with the task. (See the risk analysis matrix outlining severity and probability).

There is a potential of hitting a buried utility or gas line each time the existing soil is disturbed. Striking a buried line can lead to fire, electrocution, equipment damage or costly damage to the utility line.

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**E&B OILFIELD SERVICES INC. RISK ASSESSMENT MATRIX – UTILITY LOCATES**

CONSEQUENCE					PROBABILITY				
Severity	People	Assets	Environment	Reputation	A	B	C	D	E
					Not Done	Rarely	Once a week	Several Times in a Week	Multiple Times in a Day
0	No health effect	No damage	No effect	No impact					X
1	Slight health effect	Slight damage	Slight effect	Slight impact				X	
2	Minor health effect	Minor damage	Minor effect	Limited impact		X			
3	Major health effect	Localized damage	Localized effect	Considerable impact		X			
4	Single fatality	Major damage	Major effect	National impact	X				
5	Multiple fatalities	Extensive damage	Massive effect	Global impact	X				

<b>Key</b>	Manage for continuous improvement (Low)	Incorporate risk reduction measures (Medium)	Intolerable (High)
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**Risk Controls/Methods to Ensure Identified Hazards Are Addressed and Mitigated**

The following describes how identified hazards are addressed and mitigated:

- Utility locates “811” are to be called in on every job where the existing soil is disturbed.
- Managers and supervisors are to enforce this requirement with a zero tolerance approach. Disciplinary action or termination should follow a failure to properly call in a line locate before work begins.
- Even when utility line locates are properly called in, lines can be mismarked or missed entirely. Employees must always be aware of their surroundings, and the equipment that is penetration the soil.

**JSA Sample**

The following describes how identified hazards are addressed and mitigated:

Basic Job Step	Hazards and Potential Injury/Risk	Mitigation / Tools
Tilling Soil	Striking a buried utility line causing fire	Walk through and look at line locate markings before job begins