

Hawk Energy, LLC	Activity: ALL WORK Soil Tillage		Doc No:	HAZ-ID
			Initial Issue Date	12/12/2024
			Revision Date:	12/12/2024
HAZARD IDENTIFICATION AND ASSESSMENT			Revision No.	1
			Next Revision Date:	12/11/2025
Preparation: Kirk Duncan	Authority: David Slim	Issuing Dept: Safety	Page:	1 of 2

Purpose

- **Soil Tillage**

Key Responsibilities

- Supervisors / Leads are required to ensure all employees have proper training for equipment operation available per equipment manuals.
- Hawk Energy, LLC Employees are required to have proper training per available equipment manuals and have required PPE at all times. Employees are required to follow task specific job safety analysis risk mitigation when soil tillage operations are occurring.
- Operator is to inspect all equipment prior to operation to ensure safety placards and guards/shields are intact, and machine is maintained in working order.

Hazard and Risk Identification

Employees MAY be exposed to the following hazards:

- Moving parts causing entanglement
- Dislodged debris or rocks causing struck by
- Multiple power units in motion causing collision or run over
- Dust causing inhalation
- Equipment entry or dismount causing slips, trips or falls
- Sharp disks or metal causing cuts
- Buried utility lines

Risk Assessment

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).

Soil movement including tilling is an everyday part of reclamation work.

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Hawk Energy, LLC. RISK ASSESSMENT MATRIX – SOIL TILAGE

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				

Key	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:

- Moving parts causing entanglement: mitigate by not having loose clothing and ensuring all manufacturer shields or guards are in place. Disengage PTO or power supply prior to dismounting tractor.
- Dislodged debris or rocks causing struck by: mitigate by operating at slow speeds in compacted or rocky soils, always wear proper eye and head protection.
- Multiple power units in motion causing collision or run over: mitigate by knowing surroundings and keeping eye contact between operators.
- Dust causing inhalation: mitigate by wearing dust masks and staying up wind
- Equipment entry or dismount causing slips, trips or falls: mitigate by using three points of contact at all times
- Sharp disks or steel causing cuts: mitigate by wearing gloves and using proper tools to clean mud or rocks from disks
- Contact 811 for each job.

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JSA Sample

The following describes how identified hazards are addressed and mitigated:

Basic Job Step	Hazards and Potential Injury/Risk	Mitigation / Tools
Tilling in preparation for planting	Fire from hitting buried gas line	811, watch for stakes on markings

Other Info

