

<b><i>E&amp;B Oilfield Services Inc.</i></b>	Activity: <b>Reclamation</b> <b>Straw Spreading</b>		Doc No:	HAZ-ID
			Initial Issue Date:	4/15/2015
<b>HAZARD IDENTIFICATION AND ASSESSMENT</b>			Revision Date:	4/15/2016
			Revision No.:	1
			Next Revision Date:	4/15/2017
Preparation: Kate Graves	Authority: Danny Abegglen	Issuing Dept: Safety	Page:	1 of 3

## Purpose

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- **Straw Spreading**

## Key Responsibilities

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- Supervisors / Leads are required to ensure all employees have proper training for equipment operation available per equipment manuals.
- E&B 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 straw spreading 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

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Employees MAY be exposed to the following hazards:

- Moving parts causing entanglement
- Flying debris causing struck by
- Multiple power units in motion causing collision or run over
- Fire causing burns or property damage
- Hot hydraulic oil causing burns or leaks
- Dust causing inhalation
- Equipment entry or dismount causing slips, trips or falls
- String cutter causing cuts

## 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).

Spreading straw is a regular part of reclamation activities. The spreader chops the straw and spreads (blows) it over a large area. It has violently moving parts and creates dust.

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**E&B OILFIELD SERVICES INC. RISK ASSESSMENT MATRIX – STRAW SPREADING**

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**

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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.
- Flying debris causing struck by: mitigate by keeping clear of the direction of discharge, always wear proper eye protection.
- Multiple power units in motion causing collision or run over: mitigate by knowing surroundings and keeping eye contact between operators.
- Fire causing burns or property damage: mitigate by removing excess straw from engines and heat sources on equipment, no smoking near straw.
- Hot hydraulic oil causing burns or leaks: mitigate by stopping operations and let equipment cool if hydraulic oil temperature causes parts too hot to touch
- Dust causing inhalation: mitigate by wearing dust masks and staying up wind from straw material
- Equipment entry or dismount causing slips, trips or falls: mitigate by using three points of contact at all times
- String cutter causing cuts: mitigate by using proper tool for the job, cut strings in a direction away from body and keep cutting edge in closed position when not in use.

### **JSA Sample**

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The following describes how identified hazards are addressed and mitigated:

Basic Job Step	Hazards and Potential Injury/Risk	Mitigation / Tools
Straw Spreading	Body parts getting caught in the spreader.	Stay clear from moving parts.

### **Other Info**

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