From:	Fred Holmes [fred@etechenv.com]
Sent:	Wednesday, September 21, 2011 12:46 PM
To:	Bratcher, Mike, EMNRD; tgregsto@blm.gov
Cc:	'Daniel Frick'; 'Ron Ragland'; 'Joe Hernandez'
Subject:	LINN Energy - JL Keel B #61 Flowline Release - Initial C-141
Attachments:	LINN Energy - JL Keel B #61 Flowline Release - Inital C-141 092111.pdf; JL Keel 61 Release Assessment Map 091911.pdf; JL Keel B 61 Photo Log 091911.pdf; LINN ENergy - J.L. Keel 61 FL Corrective Action Plan - Short Form 092111.pdf

Mike & Terry:

Please find attached the initial C-141 for the JL Keel B # 61 Flowline Release. Also attached is the site map, photo log, and corrective action plan. Please let me know if you have any questions.

Regards,

Fred Holmes
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Corrective Action Report – Short Form
(To Accompany C-141)

Date: 09/21/11   Lease Name: J.L. Keel Well #61

Type of Contamination: ☒ Hydrocarbon   ☒ Produced Water   ☐ Other (Specify):

Cause of Release: Over-pressure of line from scale buildup casuing line to rupture

1.0 Site Information

General Setting and Area of Impact *(Check All that Apply)*:

☐ Pad Only   ☐ Road Only   ☒ Off-Site Areas Impacted: ☐ Flat   ☒ Sloped   ☐ Drainage Features Impacted

Estimated Depth of Contamination: .5 - 1 Feet, Vertical

Estimated Area of Contamination: 2600 Square Feet

Site Delineated: ☐ No   ☒ Yes   Method: ☒ Visual (probe/shovel) ☐ Sampling & Analysis (Attach Analysis)

2.0 Corrective Actions to Be Taken

Remedial Action Goals: ☒ Hydrocarbons <5,000 mg/kg   ☒ Chlorides <1,000 mg/kg

                 Other (Specify):

Estimated Start Date: 10/10/11   Estimated Completion Date: 10/17/11

2.1 Remedial Actions *(Check All That Apply)*:

☒ Dig & Haul   Disposal Site: ☐ CRI ☒ Lea Land   ☐ Sundown   ☐ Other (Specify):

☐ Blending ☐ Biological Degradation ☐ Irrigation ☐ Calcium Amendment & Irrigation

☐ Cap & Cover   Cap Material: ☐ Clay   ☐ Caliche   ☐ Native Soil

☐ Liner: Mil Thickness: , Installation Depth: Feet

☐ Other (Specify):

2.2 Clearance Confirmation Sampling to be Performed: ☒ Yes ☐ No

3.0 Restoration Activities *(Check All That Apply)*

☒ Installation of Top Soil   ft.   ☒ Contour to Grade

☐ Erosion Control: ☐ Water Bars   ☐ Rip/Rap   ☐ Other(Specify):

☐ Seeding: ☐ Natural   ☐ BLM Seed Mix #2   ☐ BLM Seed Mix #3 ☐ BLM Seed Mix #4

            ☒ Other: 50/50 Mix of BLM 2 & 4.

Other Notes or Actions:

Spill area resides in a potential historical spill site present prior to acquisition of the lease. This area will be investigated and remediated if required at the time this release is remeidated. Also, spill is in a pipeline ROW operated by Yates. Line is marked as a "Water Line". Photos and site map attached.

Pipeline ROW (Yates)

N32° 51' 46.805"
W103° 54' 20.445"

Release Area

Scale 1:1,200

| | | | | | | ft |
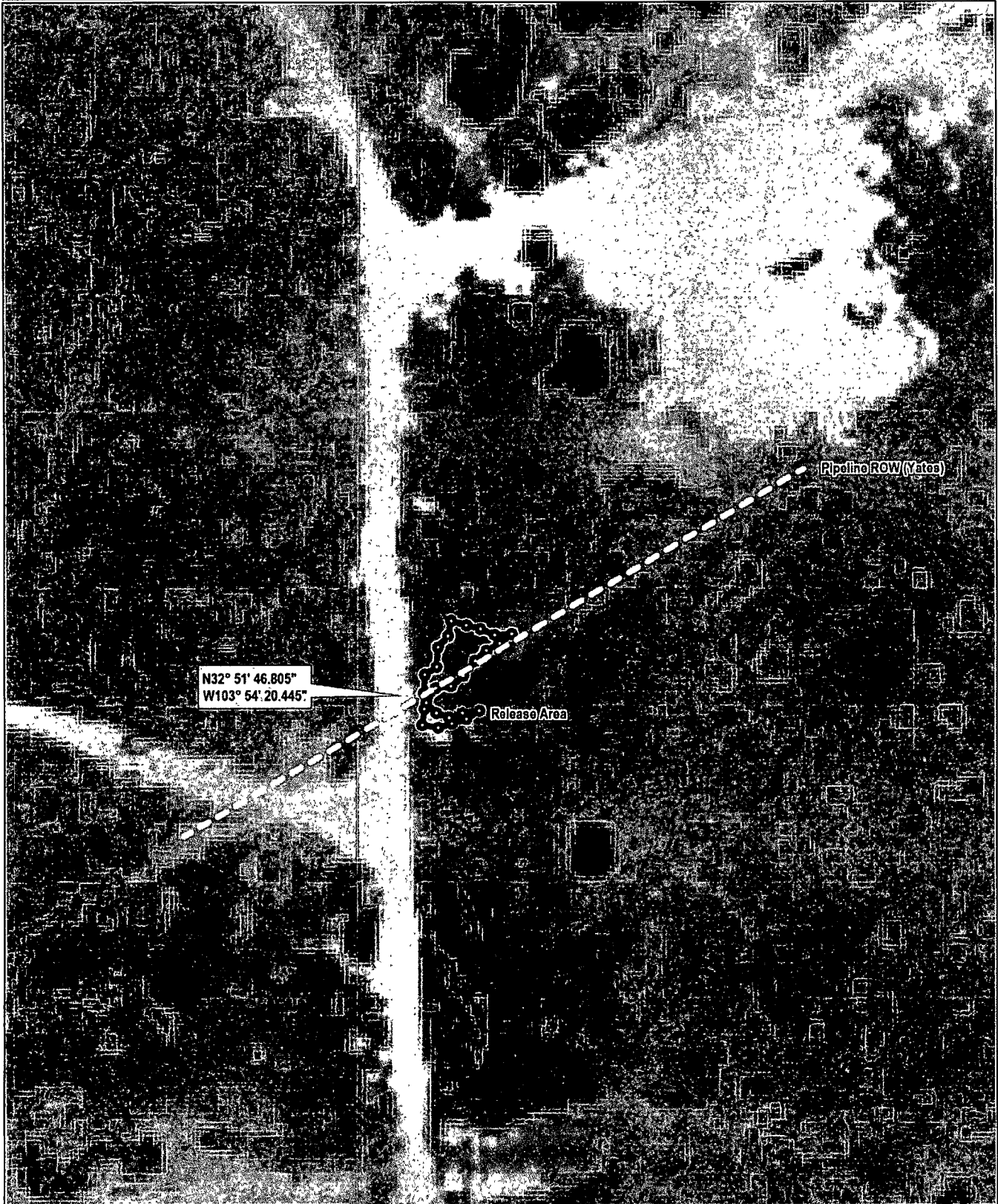
0   40   80   120   160   200

1" = 100.0 ft   Data Zoom 17-0

J.L. Keel B #61 Flowline Release Assessment Map

MN (7 8° E)
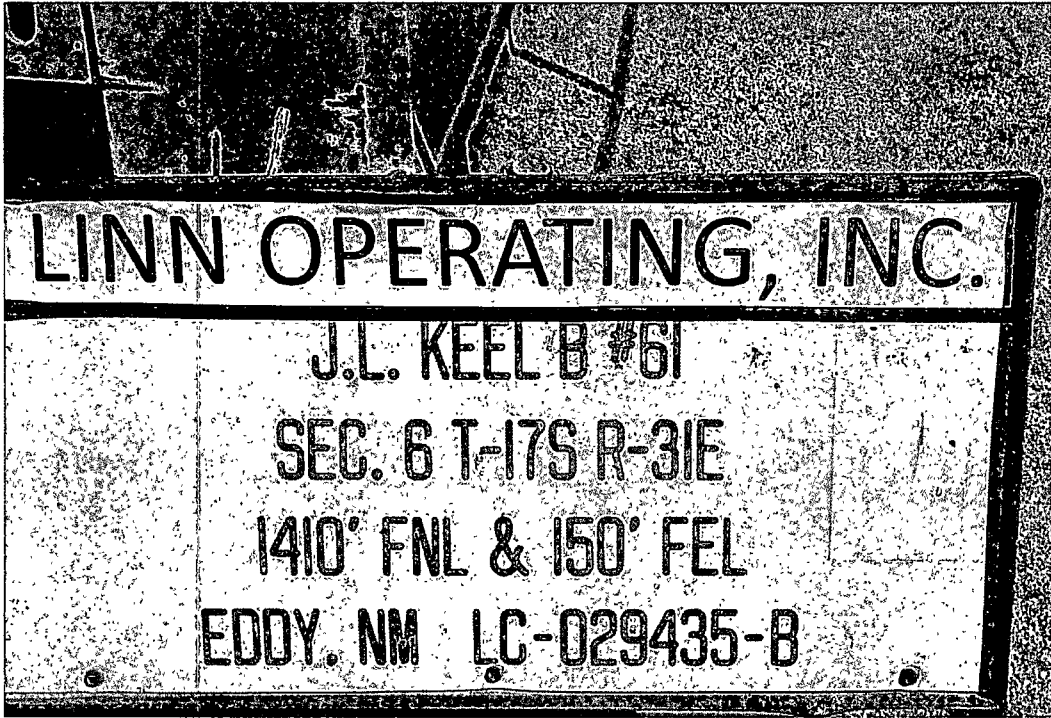
Photo No: 1.	
Direction Taken: Down	
Description: Lease sign	

Photo No: 2.	
Direction Taken: Northeast	
Description: View of spill area from road side. Not pipeline ROW Marker in left foreground.	

Photo No: 3. **Direction Taken**: Southeast **Description**: View of pooling area south of main body of the spill.	
Photo No: 4. **Direction Taken**: North **Description**: View across spill area from the south side of the pooling area referenced in Photo 3.	

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Photo No: 5.	
Direction Taken: West-Southwest	
Description: View from the northeast end of the spill looking back towards the road.	

Photo No: 6.	
Direction Taken: Northeast	
Description: Close-up view of pipeline marker.	