Seeding

- Keeping track of areas seeded
- Quality control
- Photos with GPS
- Hidden information
Photo of work area
Two Gas Locations
Seeded
Pipelines
Quality Control

• What was actually seeded
• Was it seeded correctly
• Is there any follow up that is required
There may be a problem
The fix
Fixed
Photos

• How do we keep track of them?
• What do we keep track of?
• How do we make them available?

• What I have tried to do
  – Location name
  – Seed tag
  – Pictures of location
Photo sites
Photo Points
EnCana Oil & Gas (USA) Inc
Stud Horse Butte 75-26
LEASE # WYW-127749
(S)SESW,(Lot 14), 477' FSL, 1576' FWL
(BH)SESW,(Lot 14), 200' FSL, 1576' FWL
SEC 26, T29N, R108W
SEC 26, T29N, R108W
SUBLETTE COUNTY, WY

IN CASE OF EMERGENCY
CALL 24-HOUR TOLL FREE
1-877-386-2200
# Seed Mix

**Sold To:** EnCana Oil & Gas

<table>
<thead>
<tr>
<th>Species &amp; Variety</th>
<th>Pure Seed %</th>
<th>Total Visible</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shadscale</td>
<td>20.14</td>
<td></td>
<td>UT</td>
</tr>
<tr>
<td>Winemetal</td>
<td>1.94</td>
<td>2</td>
<td>UT</td>
</tr>
<tr>
<td>Desert Globemallow Scarlet</td>
<td>1.78</td>
<td>32</td>
<td>UT</td>
</tr>
<tr>
<td>Buckwheat, Wyeth, E heracleoides, bracts</td>
<td>0.85</td>
<td>83</td>
<td>UT</td>
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<tr>
<td>Big Sagebrush, Wyoming</td>
<td>0.85</td>
<td>91</td>
<td>UT</td>
</tr>
<tr>
<td>Penstemon palmeri, Palmer</td>
<td>0.40</td>
<td>74</td>
<td>CA</td>
</tr>
<tr>
<td>Aster, Blueleaf, Eurybia glauca</td>
<td>0.05</td>
<td>91</td>
<td>CA</td>
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<tr>
<td>Evening Primrose, White</td>
<td>0.75</td>
<td>88</td>
<td>NZ</td>
</tr>
<tr>
<td>Gardiner Saltbush, trident</td>
<td>0.75</td>
<td>88</td>
<td>MT</td>
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<tr>
<td>Yarrow, White native</td>
<td>0.22</td>
<td>24</td>
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<tr>
<td>Beeepalnt Rocky Mountain</td>
<td>0.92</td>
<td>80</td>
<td>UT</td>
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</table>

**Noxious Weeds:** None Found

**Restricted:** None Found

**Seed Mix Information:**
- **Mix #1:** 64695
- **Grass Mix 2008 A**

**Other Details:**
- **Net Weight:** 50 LBS. PLG
- **Guarantee:** Granite Seed guarantees its seed to be of provied quality and true to name as specified. Should seed prove to be other than labeled, liability shall be limited to replacement or refund of purchase price.

**Address:**
- Granite Seed Company: 1607 W. 2100 N.
- Lehi, UT 84043

**Date Tested:** 11/25/2007

**Lot #:** 209332-1

**Total:** 160

**Bulk Lbs:** 50.00

**PLS Lbs:** 12.04
Seeded
Seeded
Other information gleaned from our GPS records

- Position
- Information entered in the field
- Date
- Time
Fall Irrigation Sites
Hidden Information

- Location Name: SHB 47-26
- Comments: Rocky
- Seed Mix: Seed mix A
- Soil type: Rocky
- Soil Condition: Dry
- Equipment: Rough Rider
- Date: 8-2-2008
- Time: 6:52:32
- All of the GPS Information
Something extra

- What are we sowing
- Wheat?
- Or
- Tares?

- Lets take a look
Wheat Grasses

- Western
- Thickspike
- Slender
- Streambank
- Bluebunch
- Downy
0.05 Weed Seed
Weed Seed In Mix

<table>
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<th>Noxious Weeds: None Found</th>
<th>Weed Seed: 0.01</th>
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<tbody>
<tr>
<td>Restricted: None Found</td>
<td>Hard Seed: 0.00</td>
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<tr>
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<td>Other Crop: 0.06</td>
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<td>Dormant: 0.00</td>
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<td>Inert Matter: 47.92</td>
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<td>Lot #: 29632-1</td>
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<td>Total: 100</td>
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<td>Bulk Lbs: 50.00</td>
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<tr>
<td></td>
<td>PLS lns: 12.04</td>
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</table>
Downy Brome
Distribution of Downy Brome
Planted In 2007
Downy Brome Year One
Disadvantages of GPS

• Cost
• Training
• The mindset that it is essential

• My GPS system has never planted a seed
• My GPS system has never repaired a planter
• Neat technology
• Just one tool
This is what it's all about

THE HELP
The Help
The equipment
Rough Rider
Dick, Glade, Jim, Don
Russo Drill