City of Greeley
Oil & Gas Fire Fire Inspection Program
Why did the City of Greeley develop an Oil & Gas Fire Inspection Program?
Oil & Gas Fire Inspection Program

✓ Address citizen concerns for oil & gas development in urbanized areas.

✓ Address citizen concerns for community development near existing oil & gas locations.

✓ Become familiar with oil & gas locations in our response jurisdiction

✓ Preplan fire department response to these locations in the event of an emergency

✓ Safety Advocate for the Community - extra set of eyes on these locations in addition to the state inspections
City Limits: 483 active wells
City Limits & Long Range Expected Growth Area: 1,373 wells
What steps did we take to develop an Oil & Gas Fire Inspection Program?
Oil & Gas Fire Inspection Program

✓ Developed and implemented an inspection program (fire code violations, inspection form, etc.)

• First comprehensive oil and gas fire inspection program that we are aware of

• Trained with COGCC and CDPHE Inspectors

• Incorporated inspection practices used by COGCC and CDPHE Inspectors that are relevant to fire inspections

• Modified existing fire inspection practices so they are relevant to the oil & gas industry
Oil & Gas Fire Inspection Program

- COGCC Contact:

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Oil & Gas Fire Inspection Program

➢ CDPHE Contacts:

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Jennifer Morse
Oil and Gas Inspections and Compliance Monitoring Supervisor
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Established and developed principled relationships with our local operators in the oil and gas community.

- Met mandatory training requirements the local operators required for all personnel on their locations:
  - SafeLand Training
  - Operator Specific Training Requirements
  - H2S Awareness Training
How does the International Fire Code pertain to Oil & Gas Facilities?
How do we prioritize our Oil & Gas Fire Inspections?
## Risk Factor Areas

<table>
<thead>
<tr>
<th></th>
<th>Higher (5)</th>
<th>(4)</th>
<th>(3)</th>
<th>(2)</th>
<th>Lower (1)</th>
<th>RF Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Population Density &amp; Urbanization</strong></td>
<td>&gt;25 p/mi² Within Municipal Boundary</td>
<td>6-25 p/mi² Within Municipal Boundary</td>
<td>1-6 p/mi²</td>
<td>&lt;0.5 p/mi²</td>
<td>10%</td>
</tr>
<tr>
<td>2</td>
<td><strong>Environment (Wildlife &amp; Water)</strong></td>
<td>Multiple Criteria</td>
<td>Multiple Criteria</td>
<td>Multiple Criteria</td>
<td>Multiple Criteria</td>
<td>20%</td>
</tr>
<tr>
<td>3</td>
<td><strong>Time Since Last Inspection</strong></td>
<td>&gt;5 yrs</td>
<td>3-5</td>
<td>2-3</td>
<td>1-2</td>
<td>15%</td>
</tr>
<tr>
<td>4</td>
<td><strong>Years In Service</strong></td>
<td>&gt;20 yrs</td>
<td>10-20</td>
<td>3-10</td>
<td>0</td>
<td>30%</td>
</tr>
<tr>
<td>5</td>
<td><strong>Reported Spills (Location)</strong></td>
<td>&gt;4</td>
<td>3-4</td>
<td>2</td>
<td>1</td>
<td>10%</td>
</tr>
<tr>
<td>6</td>
<td><strong>Corrective Actions (Location)</strong></td>
<td>&gt;3</td>
<td>1-3</td>
<td>0</td>
<td></td>
<td>15%</td>
</tr>
</tbody>
</table>

Legend:
- **People**
- **Environment**
- **Time**
- **History (Site-specific)**

*Internal use only, not subject to disclosure under CORA, C.R.S. § 24-72-204(2)(a)(IX)(A).*
# Target Hazard Assessment Form

<table>
<thead>
<tr>
<th></th>
<th>1 point</th>
<th>2 points</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Population Density &amp; Urbanization</td>
<td>&lt;25 people within a square mile</td>
<td>&gt;25 people within a square mile</td>
</tr>
<tr>
<td>2</td>
<td>History of Violations at location</td>
<td>No Violations</td>
<td>1 or more on last inspection</td>
</tr>
<tr>
<td>3</td>
<td>Size of the location</td>
<td>Small pad site</td>
<td>Large multi-well pad site</td>
</tr>
<tr>
<td>4</td>
<td>Time since last inspection</td>
<td>Less than 3 years</td>
<td>3 years or more</td>
</tr>
<tr>
<td>5</td>
<td>Overall Impression</td>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>“Potential for Community Impact”</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Score:**

<table>
<thead>
<tr>
<th>Risk Assessment Rating</th>
<th>High Priority:</th>
<th>Low Priority:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score &gt; 6</td>
<td>Score &gt; 6</td>
<td>6 or less</td>
</tr>
</tbody>
</table>
Fire Inspection Prioritization Schedule:

✓ The oil & gas facilities are pre-planned and ranked during their initial fire inspection, and re-evaluated during subsequent inspections.

❖ High priority locations are inspected at least annually, but often more frequently.

❖ Low priority locations are inspected every 3 years.
Complaint Based Inspections:

- Inspections resulting from a citizen complaint or a professional referral.
- Multiple City of Greeley Departments work closely together on these complaints and provide a coordinated response to address these concerns:
  - Greeley Fire Department Fire Inspectors
  - City of Greeley Planning & Zoning officials
  - City of Greeley Code Compliance officers
  - City of Greeley Police Department officers
After the fire inspection is completed
Reporting process for Fire Inspections results:

✓ An inspection report is sent to the operator that includes results and findings of the fire inspection and any corrective actions that are required.

✓ The operator and appropriate state regulatory agency are immediately notified of a significant / serious violation and/or a health and safety concern and immediate corrective action is required.
Identified results and benefits of our fire inspection
Oil & Gas Fire Inspection Program

✓ Improved knowledge of the oil & gas facilities in our community that has allowed the fire department to be prepared in the event of an emergency incident at these locations.

✓ Developed Principled Relationships with local operators and state regulatory agencies

✓ Significant decrease in fire code violations
The future of the Greeley Fire Department’s Oil & Gas Fire Inspection Program
City of Greeley
Oil & Gas Resources and GIS Map

www.greeleygov.com

✓ All of the Oil & Gas locations within the City of Greeley and the City of Greeley Long Range Expected Growth Area.

✓ Well and location information (Name, owner, etc.)

✓ Links to the COGCC website for specific details regarding the well and location.

✓ Links to the COGCC inspections conducted at the location.

✓ In the near future, there are plans to add a link to the Greely Fire Department’s fire inspections conducted at the location.
Greg Becker

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