

Maudlin Gulch Federal Unit 26 Flow Line Spill Soil Sampling Plan

Prepared for:

Colorado Oil and Gas Conservation Commission

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February 23, 2011

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1.0 INTRODUCTION

This sampling plan is prepared by Wesco Operating, Inc. (Wesco) in response to a request from the Colorado Oil and Gas Conservation Commission (COGCC) for collection of soil samples in the area where a spill occurred at the Maudlin Gulch Federal Unit #26.

2.0 BACKGROUND

Maudlin Gulch Federal Unit #26 (API Number 05-081-06553) is an oil well located in the NE ¼ of the NW ¼ of Section 35, Township 4N, Range 95W, Moffat County, Colorado. In June, 2010, a COGCC field inspector discovered a release of oil that had moved off the well site and into an upland drainage. The well operator at the time, Wold Oil Properties, Inc., subsequently submitted a spill report and remediated the site soils by reportedly discing and roto-tilling the impacted soil in place. They also placed a series of erosion control rolls in the impacted drainage. The lease was subsequently purchased by Wesco. In February, 2011, the COGCC requested Wesco prepare a plan to collect soil samples at the site to verify remediation had been completed.

3.0 SAMPLING PLAN

In accordance with the COGCC request, Wesco proposes to collect six soil samples. Four of the soil samples will be collected from within the former spill area. The two remaining samples will be collected from outside the spill area. All of the samples will be collected from 0 to 6 inches below ground surface. Because there is no map available of the spill area, Wesco will rely on the local contract field supervisor, Craig Bechold, to determine the sample locations within the former spill area. During a phone conversation between the author and Mr. Bechold on 2/16/11, he stated that he is familiar with the area where the spill occurred and would be available to be on site during sampling in order to indicate areas where the spill was present that could be sampled.

Each sample will be collected by Wesco staff using a shovel. The shovel will be scrubbed with a brush to remove all visible soil or oil, then it will be scrubbed with a liquinox/tap water wash and rinsed with tap water before the start of work and between collection of each sample.

Field notes will be collected at each sample location. The notes will indicate the sample number, location, soil type and any visual or olfactory indications of hydrocarbon contamination. In addition, gps coordinates will be collected at each sample location.

All soil samples will be analyzed by Energy Laboratories for the following parameters (copied from e-mail from Margaret Ash at the COGCC to Kevin Meenan at Wold Oil on October 14, 2010).

TPH (total volatile and extractable petroleum hydrocarbons)
Electrical Conductivity (EC)
Sodium Adsorption Ratio (SAR)
pH

4.0 REPORT

Two weeks after the analysis results are received by Wesco, a brief report will be submitted to the COGCC. The report will include a discussion of how the samples were collected, a discussion of any deviations from the work plan and a discussion of the sample results. Included as attachments will be site photos, a sample location map and laboratory analysis results.

5.0 SCHEDULE

The work will be completed according to the following schedule;

Item	Completion Date
Collect samples	May 2, 2011
Submit sampling report to COGCC	May 31, 2011

If Wesco needs to change this schedule, the COGCC will be contacted for approval.
