

State of Colorado  
**Oil and Gas Conservation Commission**



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

**SITE INVESTIGATION AND REMEDIATION WORKPLAN**

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:  
Spill Inspection      Complaint NOAV  
Tracking No:

**CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED**

Spill or Release    Plug & Abandon    Central Facility Closure    Site/Facility Closure    Other (describe): \_\_\_\_\_

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| OGCC Operator Number: _____         | Contact Name and Telephone: _____ |
| Name of Operator: _____             | _____                             |
| Address: _____                      | No: _____                         |
| City: _____ State: _____ Zip: _____ | Fax: _____                        |

|  |                                  |
|--|----------------------------------|
| API Number: _____                                  | County: _____                    |
| Facility Name: _____                               | Facility Number: _____           |
| Well Name: _____                                   | Well Number: _____               |
| Location: (QtrQtr, Sec, Twp, Rng, Meridian): _____ | Latitude: _____ Longitude: _____ |

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): \_\_\_\_\_

Site Conditions: Is location within a sensitive area (according to Rule 901e)?      Y      N      If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): \_\_\_\_\_

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: \_\_\_\_\_

Potential receptors (water wells within 1/4 mi, surface waters, etc.): \_\_\_\_\_

\_\_\_\_\_

Description of Impact (if previously provided, refer to that form or document):

| Impacted Media (check): | Extent of Impact: | How Determined: |
|-------------------------|-------------------|-----------------|
| Soils                   | _____             | _____           |
| Vegetation              | _____             | _____           |
| Groundwater             | _____             | _____           |
| Surface Water           | _____             | _____           |

**REMEDIALTION WORKPLAN**

Describe initial action taken (if previously provided, refer to that form or document):

Describe how source is to be removed:

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:



Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: \_\_\_\_\_

**REMEDIATION WORKPLAN (Cont.)**

\_\_\_\_\_

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required?            Y            N            If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: \_\_\_\_\_ Date Site Investigation Completed: \_\_\_\_\_ Date Remediation Plan Submitted: \_\_\_\_\_  
Remediation Start Date: \_\_\_\_\_ Anticipated Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: \_\_\_\_\_ Signed: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_



300 E. Mineral Ave., Suite 10  
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April 19, 2010

Summary:

On March 30, 2010, soil samples from the reserve pit on the Bledsoe 6-29-5-44 (API# 05-125-11326), operated by Omimex Petroleum Inc., were collected by Daniel Soucy of Buys & Associates. This site was sampled in order to ensure that Omimex is meeting the requirements set forth by the COGCC to close the pits and begin site remediation. Form 27 (site investigation and remedial work plan) will be completed and submitted for this site prior to starting any pit remediation work.

Samples were collected at four locations in the pit, near each of the corners, and from a depth of about three feet below the base of the pit (see attached site map). These four samples were then mixed together, forming one composite sample. This composite sample was analyzed for the parameters listed on Table 910-1 of the Colorado Oil and Gas Conservation Commission (COGCC) 900 Series Rules.

In addition, two background soil samples were collected and analyzed for metals and pH only.

Tables 1-3 below summarize the analytical results.

Table 1. Summary of Analytical Results for Metals for Pit Soil Samples

| Parameter      | Sample ID         |                   |                   | COGCC Limit |
|----------------|-------------------|-------------------|-------------------|-------------|
|                | Bledsoe 6-29-5-44 | Background Site 1 | Background Site 2 |             |
| Arsenic        | <b>1.1</b>        | <0.33             | <0.33             | 0.39        |
| Barium         | 120               | 36                | 45                | 15000       |
| Cadmium        | 0.33              | ND                | ND                | 70          |
| Chromium (III) | 15                | ND                | ND                | 120,000     |
| Chromium (IV)  | ND UJ             | ND                | ND                | 23          |
| Copper         | 11                | 2.4               | 2.6               | 3,100       |
| Lead           | 9.1               | 3.4               | 3.8               | 400         |
| Mercury        | ND                | ND                | ND                | 23          |
| Nickel         | 12                | 1.8               | 1.8               | 1,600       |
| Selenium       | 2.8               | ND                | ND                | 390         |
| Silver         | ND                | ND                | ND                | 390         |
| Zinc           | 35                | 9.0               | 9.9               | 23000       |

All units in mg/Kg

UJ = Not detected at an estimated detection limit

ND - Not detected

Values in Bold exceed the COGCC Allowable Concentration

Arsenic exceeded the COGCC allowable concentration at the Bledsoe 6-29-5-44 site. All other metals were reported as not detected or were below the COGCC limits.

Table 2. Summary of Analytical Results for Inorganics for Pit Soil Samples

| Parameter               | Sample ID         |        |        | COGCC Limit         |
|-------------------------|-------------------|--------|--------|---------------------|
|                         | Bledsoe 6-29-5-44 | Back 1 | Back 2 |                     |
| Electrical Conductivity | 0.940             | NM     | NM     | <4 or 2x background |
| Sodium Adsorption Ratio | 2.8               | NM     | NM     | 12                  |
| pH                      | 8.30 J            | 8.20 J | 6.60 J | 6-9                 |

NM - Not Measured

Electrical Conductivity is measured in mmhos/cm

J = Estimated Quantity

Values in Bold exceed the COGCC Allowable Concentration

All parameters were found to be within the range set by the COGCC.

Table 3. Summary of Analytical Results for Organics for Pit Soil Samples

| Parameter               | Bledsoe 6-29-5-44 | COGCC Limit |
|-------------------------|-------------------|-------------|
| TPH (1)                 | 17                | 500         |
| Benzene                 | ND                | 0.17        |
| Xylenes (total)         | ND                | 175         |
| Acenaphthene            | ND                | 1,000       |
| Anthracene              | ND                | 1,000       |
| Benzo(A)anthracene      | ND                | 0.22        |
| Benzo(B)fluoranthene    | ND                | 0.22        |
| Benzo(K)fluoranthene    | ND                | 2.2         |
| Benzo(A)pyrene          | ND                | 0.022       |
| Chrysene                | ND                | 22          |
| Dibenzo(A,H)anthracene  | ND                | 0.022       |
| Ethylbenzene            | ND                | 100         |
| Fluoranthene            | ND                | 1,000       |
| Fluorene                | ND                | 1,000       |
| Indeno(1,2,3,C,D)pyrene | ND                | 0.22        |
| Napthalene              | ND                | 23          |
| Pyrene                  | ND                | 1,000       |
| Toluene                 | ND                | 85          |
| Xylenes (total)         | ND                | 175         |

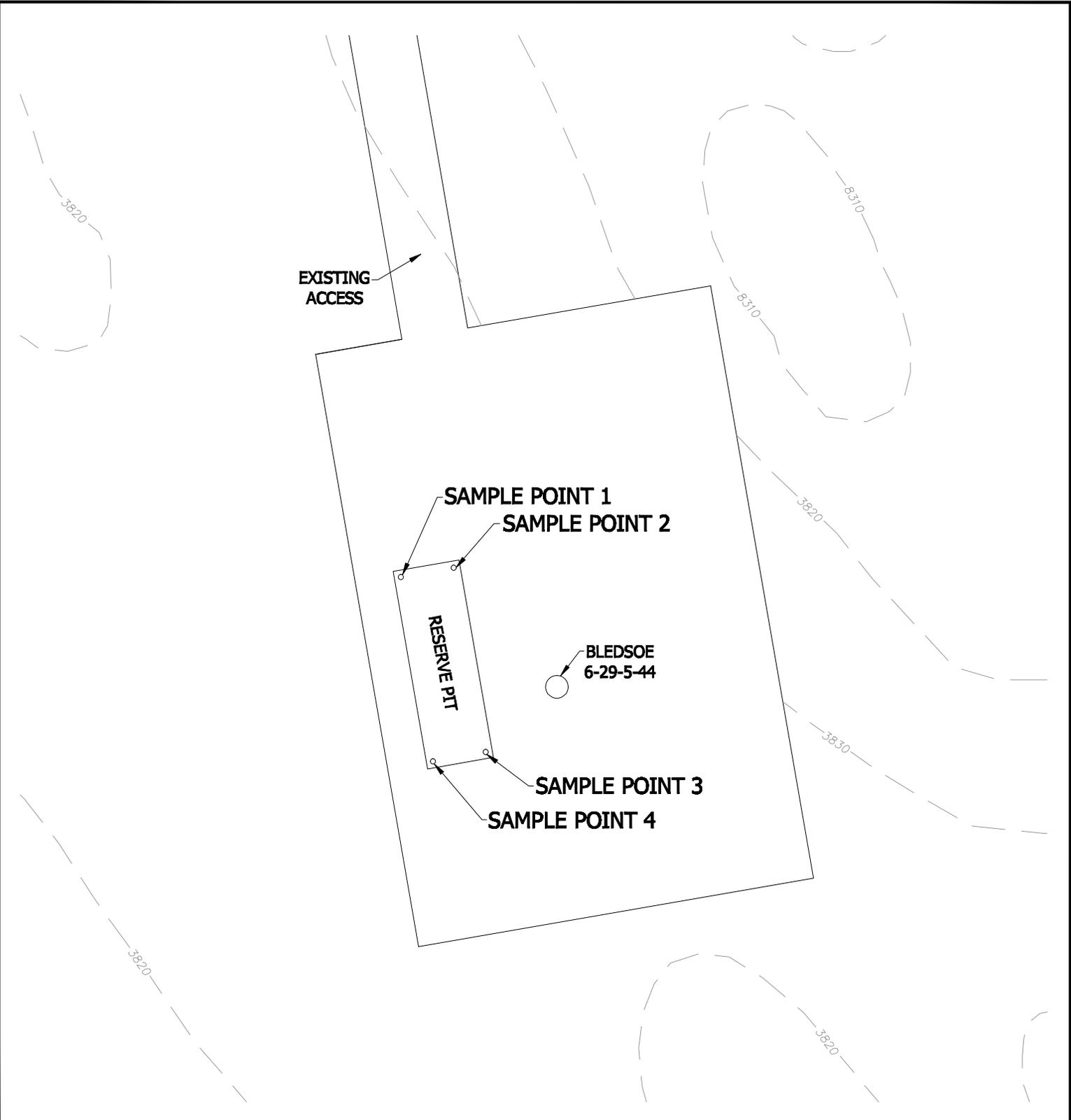
All measurements in mg/Kg

--- no applicable standard

ND - Not detected

(1) Combined result for Low Fraction (gasoline range) and High Fraction (Diesel range)

All organics were reported as not detected or were below the COGCC limits.



|  |  |  |
|--|--|--|
|    | <b>SAMPLE POINTS</b>   |  |
|  | <b>BLED SOE 16-29-5-44</b><br><b>Omimex Petroleum Inc.</b><br><b>Yuma County, Colorado</b> |  |
| M.G.   | APRIL 2010   |  |
|  <b>Buy's &amp; Associates, Inc.</b><br><b>Environmental Consultants</b> |  | Note: This drawing represents approximate sizes and distances. |

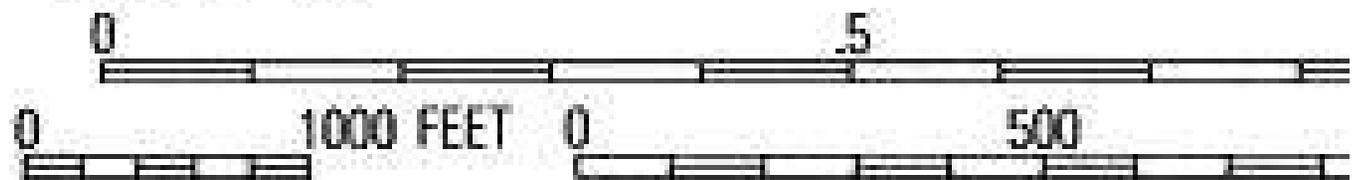
! map printed on 04/13/10 from "Soil Sample 3-30-10"

WGS84 102°18'00" W



WGS84 102°18'00" W

TN \* MN  
8°



Map created with TOPO!® ©2003 National Geographic (www.r