

## SEND DATA TO:

Name:

Company:

Address:

Phone:

Email:

Project:

PO #:

Location:

Sampled By:

## SEND INVOICE TO (if different from SEND DATA TO):

Name:

Company:

Address:

Phone:

Email:

Standard

Priority

Rush

Analysis Requested

## Sample Description

| Container Number | Sample Identification | Date Sampled | Time |  |  |  |  |  |  | Comments |
|------------------|-----------------------|--------------|------|--|--|--|--|--|--|----------|
|                  |                       |              |      |  |  |  |  |  |  |          |
|                  |                       |              |      |  |  |  |  |  |  |          |
|                  |                       |              |      |  |  |  |  |  |  |          |
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|                  |                       |              |      |  |  |  |  |  |  |          |
|                  |                       |              |      |  |  |  |  |  |  |          |
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|                  |                       |              |      |  |  |  |  |  |  |          |
|                  |                       |              |      |  |  |  |  |  |  |          |

## Chain-of-Custody Record

| Signature       | Company | Date | Time |
|-----------------|---------|------|------|
| Relinquished by |         |      |      |
| Received by     |         |      |      |
| Relinquished by |         |      |      |
| Received by     |         |      |      |
| Relinquished by |         |      |      |
| Received by     |         |      |      |

## ANALYSIS PACKAGE CODES

### Code    Analysis Included

#### **Natural Gas Characterization**

NG-1 - complete composition,  $\delta^{13}\text{C}$  &  $\delta\text{D}$  of  $\text{CH}_4$

NG-2 - NG-1 plus  $\delta^{13}\text{C}$  of  $\text{C}_2\text{H}_6$  and  $\text{C}_3\text{H}_8$

NG-3 - NG-2 plus  $\delta^{13}\text{C}$  i- $\text{C}_4\text{H}_{10}$  and n- $\text{C}_4\text{H}_{10}$

NG-4 - NG-3 plus  $\delta^{13}\text{C}$  only of i- $\text{C}_5\text{H}_{12}$  and n- $\text{C}_5\text{H}_{12}$

\*-D - add  $\delta^{13}\text{C}$  of  $\text{CO}_2$  to any analysis package

#### **Bacterial Gas Characterization**

BG-1 - complete composition,  $\delta^{13}\text{C}$  of  $\text{CH}_4$  and  $\text{CO}_2$  &  $\delta\text{D}$  on  $\text{CH}_4$

BG-2 - BG-1 plus  $^{14}\text{C}$  in  $\text{CH}_4$

BG-3 - BG-2 plus  $^3\text{H}$  in  $\text{CH}_4$

#### **Water Analysis**

RAG - Radiocarbon analysis of groundwater -  $\delta^{13}\text{C}$  and  $^{14}\text{C}$  of dissolved inorganic gas (DIC)

TEE - tritium analysis of water - low-level  $^3\text{H}$  analysis in  $\text{H}_2\text{O}$  with electrolytic enrichment

TDC - tritium analysis of water - low-level  $^3\text{H}$  in  $\text{H}_2\text{O}$  by direct counting

#### **Dissolved Gas**

DG-1 -includes Diss Gas complete composition,  $\delta^{13}\text{C}$  &  $\delta\text{D}$  of  $\text{CH}_4$

DG-2 -includes DG-1 plus  $\delta^{13}\text{C}$  only of  $\text{C}_2\text{H}_6$  and  $\text{C}_3\text{H}_8$

#### **Mud Gas / Headspace gas**

MG-1 - composition of hydrocarbons & major fixed gases,  $\delta^{13}\text{C}$  of  $\text{CH}_4$  via CF-IRMS

MG-2 -includes MG-1 plus  $\delta^{13}\text{C}$  of  $\text{C}_2\text{H}_6$  and  $\text{C}_3\text{H}_8$  via CF-IRMS