

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210.  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |          |
|----------------|----------|
| Incident ID    |          |
| District RP    | 2RP-5017 |
| Facility ID    |          |
| Application ID |          |

## Release Notification

### Responsible Party

|                         |                                  |                                |
|-------------------------|----------------------------------|--------------------------------|
| Responsible Party       | ConocoPhillips                   | OGRID                          |
| Contact Name            | Jose A Zepeda                    | Contact Telephone 575-391-3165 |
| Contact email           | jose.a.zepeda@conocophillips.com | Incident # (assigned by OCD)   |
| Contact mailing address | 1410 N West County Road          |                                |

### Location of Release Source

Latitude 32.4173279 Longitude -103.8466568  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |               |                      |                |
|-------------------------|---------------|----------------------|----------------|
| Site Name               | James A #012  | Site Type            | Injection Line |
| Date Release Discovered | 08/24/18 0900 | API# (if applicable) |                |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             | 2       | 22S      | 30E   | Eddy   |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                                    |                                                                                          |                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                             |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 89                                                                | Volume Recovered (bbls) 55                                          |
|                                                    | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                                    | Volume Recovered (Mcf)                                              |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                                   | Volume/Weight Recovered (provide units)                             |

#### Cause of Release

James A 12 Injection Line – Hobbs – RR2 – On August 23, 2018 at 0930 hrs. at James A 12 a leak was found on the discharge line to injection well resulting in a release of 89 bbl. of produced water with 55 bbl. recovered. Immediate action was to shut in line to stop spill. Spill site will be remediated per COPC and NMOCD guidelines.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Release Notification

### Responsible Party

|                         |                                  |                                |
|-------------------------|----------------------------------|--------------------------------|
| Responsible Party       | ConocoPhillips                   | OGRID                          |
| Contact Name            | Jose A Zepeda                    | Contact Telephone 575-391-3165 |
| Contact email           | jose.a.zepeda@conocophillips.com | Incident # (assigned by OCD)   |
| Contact mailing address | 1410 N West County Road          |                                |

### Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                     |                      |              |
|-------------------------|---------------------|----------------------|--------------|
| Site Name               | James A Water Flood | Site Type            | Tank Battery |
| Date Release Discovered | 08/30/18 0700       | API# (if applicable) |              |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             | 2       | 22S      | 30E   | Eddy   |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                                    |                                                                                          |                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                             |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 33                                                                | Volume Recovered (bbls) 25                                          |
|                                                    | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                                    | Volume Recovered (Mcf)                                              |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                                   | Volume/Weight Recovered (provide units)                             |

#### Cause of Release

On August 30, 2018 at 0700 hrs. at James A Water Flood a tank overflowed when injection station lost power during thunderstorm resulting in a release of 33 bbl. of produced water with 25 bbl. recovered. Immediate action was to shut in line to stop spill. Spill site will be remediated per COPC and NMOCD guidelines.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Release Notification

### Responsible Party

|                                                           |                                   |
|-----------------------------------------------------------|-----------------------------------|
| Responsible Party ConocoPhillips                          | OGRID 217817                      |
| Contact Name Justin Wright                                | Contact Telephone +1-575-631-9092 |
| Contact email Justin.Wright@conocophillips.com            | Incident # (assigned by OCD)      |
| Contact mailing address 29 Vacuum Complex Lane, Lovington |                                   |

### Location of Release Source

Latitude 32.41692 Longitude -103.84735  
(NAD 83 in decimal degrees to 5 decimal places)

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Site Name: James A Waterfild        | Site Type: Water flood          |
| Date Release Discovered: 03/25/2019 | API# (if applicable) 3001536761 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P           | 2       | 22S      | 30E   | Eddy   |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                                    |                                                                                 |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                          | Volume Recovered (bbls)                                             |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 32                                                       | Volume Recovered (bbls) 23                                          |
|                                                    | Is the concentration of dissolved chloride in the produced water > 10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                          | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                           | Volume Recovered (Mcf)                                              |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                          | Volume/Weight Recovered (provide units)                             |

#### Cause of Release

Failed 3/8" Stainless tubing attached to the injection pump

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Release Notification

### Responsible Party

|                                                           |                                   |
|-----------------------------------------------------------|-----------------------------------|
| Responsible Party ConocoPhillips                          | OGRID 217817                      |
| Contact Name Justin Wright                                | Contact Telephone +1-575-631-9092 |
| Contact email Justin.Wright@conocophillips.com            | Incident # (assigned by OCD)      |
| Contact mailing address 29 Vacuum Complex Lane, Lovington |                                   |

### Location of Release Source

Latitude 32.41692 Longitude -103.84735  
(NAD 83 in decimal degrees to 5 decimal places)

|                                    |                                 |
|------------------------------------|---------------------------------|
| Site Name: James A Waterfild       | Site Type: Water flood          |
| Date Release Discovered: 04/4/2019 | API# (if applicable) 3001536761 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P           | 2       | 22S      | 30E   | Eddy   |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                                    |                                                                                |                                                                     |
|----------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                             |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 45.12                                                   | Volume Recovered (bbls) 43.32                                       |
|                                                    | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                                              |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units)                             |

#### Cause of Release

Analog card failed which resulted in no communications at the facility. Due to no communications, MSO was unable to receive a high-level alarm causing the tank to overflow

## Corrective Action Plan.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                         |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------|-----------------------------|
| <b>I. Operator information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                         |                             |
| <b>A.</b> Company Name: ConocoPhillips Company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | OGRID # 217817                          |                             |
| <b>B.</b> Company Official Contact Information ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other:)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                         |                             |
| Name: Justin Wright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                         |                             |
| Title: Projects, Lead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                                         |                             |
| Mailing Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                         |                             |
| City: Buckeye                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | State: NM                               | ZIP Code:                   |
| Phone: +1-575-631-9092                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            | Email: Justin.Wright@conocophillips.com |                             |
| <b>II. Site Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                                         |                             |
| <b>A.</b> Name and Type of Facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                         |                             |
| Site Name: James A #12—2RP-5017 and James A Waterflood—2RP-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | RP#: 2RP-5017                           |                             |
| Section: 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Blk: UL-B                  | Township 17S                            | County: Lea                 |
| Latitude: 32.79757687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | Longitude: -103.614502                  |                             |
| <b>B.</b> Environmental Sensitive area:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                                         |                             |
| Ground water depth: 410'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                                         |                             |
| Nearest Water Well:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                         |                             |
| Nearest Water Of The US (WOTUS):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                         |                             |
| <b>III. Remediation Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                                         |                             |
| <b>A.</b> Incident summary:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                                         |                             |
| Material released: PW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Amount released: See below |                                         | Amount Recovered: see below |
| <p>On August 24th 2018 a leak the which resulted in the release of 89 bbls. Of Produced Water with 55 bbls. Being recovered. Then on August 30th 2018 a tank over flowed at the same location resulting in the release of 33 bbls. Of produced water with 25 being recovered. Initial response was to do a one call and begin excavating the saturated soil from the location. We excavated approximately 2' of the leak area. We then took 39 samples from a depth of 2' to 8'. All samples came back below standard according to the depth of ground water. On March 3rd 2019 another leak occurred at the James A Water Flood on an injection pump causing the release of 32 bbls. Of produced water with 23 bbls. recovered. Then on April 4th 2019 another leak occurred when a tank overflowed at the James A Battery resulting in 45.12 bbls. of produced water being released with 43.32 bbls. being recovered. Both leaks ran into areas already excavated out from the previous 2 leaks. The last 2 leaks stayed close to the tanks and the saturated soils have been removed.</p> |                            |                                         |                             |
| <b>B.</b> Remediation Plan: COPC request the backfill of the areas from SP#2-SP#5 and SP#10-SP#39. In the meantime we will resample areas around SP#1 and SP#6-SP#9. Once those samples have been confirmed by a lab to be below standard we will proceed to backfill the excavated area. All maps, photos and sample results have been included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                         |                             |

|                         |
|-------------------------|
| I. Operator information |
|                         |



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number             | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tw  | Rng | X      | Y        | Distance | Depth | Well | Depth | Water  |
|------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-------|------|-------|--------|
|                        |      |               |        |      |      |     |     |     |     |        |          |          |       |      |       | Column |
| <u>C 03234 EXPLORE</u> |      | CUB           | ED     | 1    | 2    | 3   | 35  | 21S | 30E | 607695 | 3589207* | 2161     |       |      | 410   |        |
| <u>C 03003</u>         |      | CUB           | ED     | 3    | 1    | 3   | 31  | 21S | 31E | 610511 | 3588970* | 2802     |       |      | 650   |        |
| <u>C 02749</u>         |      | CUB           | ED     | 1    | 1    | 1   | 18  | 22S | 31E | 610556 | 3585146* | 2965     |       |      | 640   |        |
| <u>C 02750</u>         |      | CUB           | ED     | 1    | 1    | 1   | 18  | 22S | 31E | 610556 | 3585146* | 2965     |       |      | 741   |        |
| <u>C 02751</u>         |      | CUB           | ED     | 1    | 1    | 1   | 18  | 22S | 31E | 610556 | 3585146* | 2965     |       |      | 637   |        |
| <u>C 02723</u>         |      | CUB           | ED     | 2    | 2    | 3   | 15  | 22S | 30E | 606282 | 3584363* | 3489     |       |      | 651   |        |
| <u>C 03002</u>         |      | CUB           | ED     | 4    | 2    | 4   | 06  | 22S | 31E | 611933 | 3587375* | 3564     |       |      | 668   |        |
| <u>C 02950 EXPL</u>    |      | CUB           | ED     | 4    | 2    | 4   | 23  | 22S | 30E | 608740 | 3582576* | 4593     |       |      | 845   |        |
| <u>C 02637</u>         |      | CUB           | ED     | 1    | 3    | 3   | 24  | 22S | 30E | 608950 | 3582377* | 4812     |       |      | 759   |        |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 9

Basin/County Search:

County: Eddy

UTM NAD83 Radius Search (in meters):

Easting (X): 608375.24

Northing (Y): 3587155

Radius: 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/17/19 4:20 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# James A Waterflood

Write a description for your map.

Legend

Polygon Measure





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 23, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: JAMES A WATERFLOOD

Enclosed are the results of analyses for samples received by the laboratory on 10/18/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 1 - 2' (H803006-01)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3400   | 16.0            | 10/19/2018 | ND              | 448 | 112        | 400           | 3.64 |           |

**Sample ID: SP # 1 - 4' (H803006-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 10/19/2018 | ND              | 448 | 112        | 400           | 3.64 |           |

**Sample ID: SP # 1 - 6' (H803006-03)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 288    | 16.0            | 10/19/2018 | ND              | 448 | 112        | 400           | 3.64 |           |

**Sample ID: SP # 1 - 8' (H803006-04)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/19/2018 | ND              | 448 | 112        | 400           | 3.64 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Conoco Phillips - Hobbs  
JUSTIN WRIGHT  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 10/18/2018  
Reported: 10/23/2018  
Project Name: JAMES A WATERFLOOD  
Project Number: NONE GIVEN  
Project Location: COPC - EDDY CO NM

Sampling Date: 10/16/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP # 2 - 2' (H803006-05)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5200   | 16.0            | 10/19/2018 | ND              | 448 | 112        | 400           | 3.64 |           |

**Sample ID: SP # 2 - 4' (H803006-06)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6960   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 2 - 6' (H803006-07)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 7520   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 2 - 8' (H803006-08)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 7360   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 3 - 2' (H803006-09)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 384    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 3 - 4' (H803006-10)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3040   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 3 - 6' (H803006-11)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2800   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 3 - 8' (H803006-12)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3600   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 4 - 2' (H803006-13)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 4 - 4' (H803006-14)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 880    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Conoco Phillips - Hobbs  
JUSTIN WRIGHT  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 10/18/2018  
Reported: 10/23/2018  
Project Name: JAMES A WATERFLOOD  
Project Number: NONE GIVEN  
Project Location: COPC - EDDY CO NM

Sampling Date: 10/16/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP # 4 - 6' (H803006-15)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2880   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 4 - 8' (H803006-16)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 368    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 5 - 2' (H803006-17)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 5 - 4' (H803006-18)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 720    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 5 - 6' (H803006-19)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 848    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 5 - 8' (H803006-20)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 6 - 2' (H803006-21)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3600   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 6 - 4' (H803006-22)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3440   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 6 - 6' (H803006-23)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3360   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

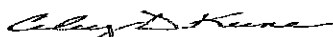
**Sample ID: SP # 6 - 8' (H803006-24)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2800   | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

### Analytical Results For:

Conoco Phillips - Hobbs  
JUSTIN WRIGHT  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

Received: 10/18/2018  
Reported: 10/23/2018  
Project Name: JAMES A WATERFLOOD  
Project Number: NONE GIVEN  
Project Location: COPC - EDDY CO NM

Sampling Date: 10/16/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

#### Sample ID: SP # 7 - 2' (H803006-25)

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 432    | 16.0            | 10/19/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

#### Sample ID: SP # 7 - 4' (H803006-26)

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 432    | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

#### Sample ID: SP # 7 - 6' (H803006-27)

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 736    | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

#### Sample ID: SP # 7 - 8' (H803006-28)

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

#### Sample ID: SP # 8 - 2' (H803006-29)

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 432    | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 8 - 4' (H803006-30)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 256    | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 8 - 6' (H803006-31)**

| Chloride, SM4500Cl-B |        | Analyzed By: AC |            |              |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/19/2018 | ND           | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 8 - 8' (H803006-32)**

| Chloride, SM4500Cl-B |        | Analyzed By: AC |            |              |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| mg/kg                |        |                 |            |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 10/19/2018 | ND           | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 9 - 2' (H803006-33)**

| Chloride, SM4500Cl-B |        | Analyzed By: AC |            |              |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2080   | 16.0            | 10/19/2018 | ND           | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 9 - 4' (H803006-34)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 624    | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 9 - 6' (H803006-35)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1380   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 9 - 8' (H803006-36)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1390   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 10 - 2' (H803006-37)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4320   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 10 - 4' (H803006-38)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2200   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 10 - 6' (H803006-39)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2000   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 10 - 8' (H803006-40)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1600   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 11 - 2' (H803006-41)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6000   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 11 - 4' (H803006-42)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5360   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 11 - 6' (H803006-43)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3680   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 11 - 8' (H803006-44)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1880   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 12 - 2' (H803006-45)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/19/2018 | ND              | 400 | 100        | 400           | 7.69 |           |

**Sample ID: SP # 12 - 4' (H803006-46)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 12 - 6' (H803006-47)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 12 - 8' (H803006-48)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 448    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 13 - 2' (H803006-49)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 272    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 13 - 4' (H803006-50)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 448    | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 13 - 6' (H803006-51)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 352    | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 13 - 8' (H803006-52)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 560    | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 14 - 2' (H803006-53)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 64.0   | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

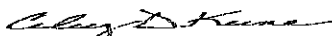
**Sample ID: SP # 14 - 4' (H803006-54)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 624    | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 14 - 6' (H803006-55)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6930   | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 14 - 8' (H803006-56)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2840   | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 15 - 2' (H803006-57)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 15 - 4' (H803006-58)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2360   | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 15 - 6' (H803006-59)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6080   | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/16/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 15 - 8' (H803006-60)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4480   | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 16 - 2' (H803006-61)**

|                      |        |                 |                 |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
| mg/kg                |        |                 |                 |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4640   | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 16 - 4' (H803006-62)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1280   | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 16 - 6' (H803006-63)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 368    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 16 - 8' (H803006-64)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/21/2018 | ND              | 432 | 108        | 400           | 3.64 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 17 - 2' (H803006-65)**

| Chloride, SM4500Cl-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 480    | 16.0            | 10/21/2018      | ND           | 432 | 108        | 400           | 3.64 |           |

**Sample ID: SP # 17 - 4' (H803006-66)**

| Chloride, SM4500Cl-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5920   | 16.0            | 10/21/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 17 - 6' (H803006-67)**

| Chloride, SM4500Cl-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4480   | 16.0            | 10/21/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 17 - 8' (H803006-68)**

| Chloride, SM4500Cl-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2720   | 16.0            | 10/21/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 18 - 2' (H803006-69)**

| Chloride, SM4500Cl-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/21/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 18 - 4' (H803006-70)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1230   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 18 - 6' (H803006-71)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1470   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 18 - 8' (H803006-72)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2120   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 19 - 2' (H803006-73)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

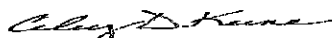
**Sample ID: SP # 19 - 4' (H803006-74)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 19 - 6' (H803006-75)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 19 - 8' (H803006-76)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 944    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 20 - 2' (H803006-77)**

| Chloride, SM4500Cl-B |        | Analyzed By: AC |            |              |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/21/2018 | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 20 - 4' (H803006-78)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

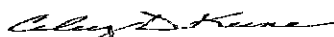
**Sample ID: SP # 20 - 6' (H803006-79)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 20 - 8' (H803006-80)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 21 - 2' (H803006-81)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 21 - 4' (H803006-82)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 21 - 6' (H803006-83)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 21 - 8' (H803006-84)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

\* = Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 22 - 2' (H803006-85)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 22 - 4' (H803006-86)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 22 - 6' (H803006-87)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 22 - 8' (H803006-88)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 23 - 2' (H803006-89)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 512    | 16.0            | 10/21/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Conoco Phillips - Hobbs  
JUSTIN WRIGHT  
P. O. BOX 325  
Hobbs NM, 88240  
Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

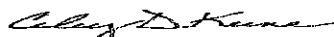
**Sample ID: SP # 23 - 4' (H803006-90)**

| Chloride, SM4500Cl-B | mg/kg   |        | Analyzed By: AC |            |              |     |            |               | RPD  | Qualifier |
|----------------------|---------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
|                      | Analyte | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC |      |           |
| Chloride             |         | 976    | 16.0            | 10/21/2018 | ND           | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

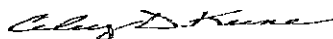
|     |                                                                                 |
|-----|---------------------------------------------------------------------------------|
| ND  | Analyte NOT DETECTED at or above the reporting limit                            |
| RPD | Relative Percent Difference                                                     |
| **  | Samples not received at proper temperature of 6°C or below.                     |
| *** | Insufficient time to reach temperature.                                         |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C     |
|     | Samples reported on an as received basis (wet) unless otherwise noted on report |

---

\*=Accredited Analyte

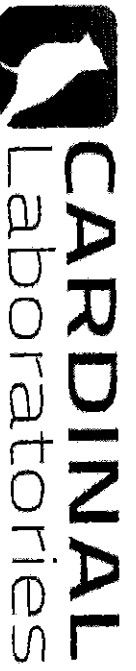
Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

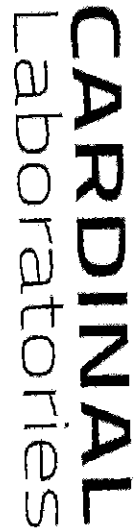
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                    |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------|--------------|---------------------------------|------------|---------------------------------------------------------------------|-----|--------------------------------|--------|-----------------------|------------|--------------------------------|-------|------------------------|------------------|----------------------|--|------------------------|--|----------------------|--|
| Company Name: <u>ConocoPhillips</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | P.O. #: <u>107</u>                 |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Project Manager: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | Company: <u>CON</u>                |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Address: <u>Hobbs</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | Attn: <u></u>                      |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | Address: <u></u>                   |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Phone #: <u>575-431-9092</u> Fax #: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | City: <u></u>                      |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Project #: <u></u> Project Owner: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | State: <u></u> Zip: <u></u>        |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Project Name: <u>James A. Whitfield</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Phone #: <u></u>                   |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Project Location: <u>Ford County, NM</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | Fax #: <u></u>                     |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Sample Name: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | PRESERV: <u></u> SAMPLING: <u></u> |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| FOR LAB USE ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                    |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Lab I.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sample I.D. | (G)RAB OR (C)OMP.                  | # CONTAINERS | GROUNDWATER                     | WASTEWATER | SOIL                                                                | OIL | SLUDGE                         | OTHER: | ACID/BASE:            | ICE / COOL | OTHER:                         | DATE  | TIME                   | ANALYSIS REQUEST |                      |  |                        |  |                      |  |
| HR03006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SP#1-2'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                | Chlorides            |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#1-4'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#1-6'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#1-8'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#2-2'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#2-4'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#2-6'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#2-8'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#3-2'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SP#3-4'     | G                                  |              |                                 |            |                                                                     |     |                                |        |                       |            |                                | 10-16 |                        | ✓                |                      |  |                        |  |                      |  |
| <p>PLEASE NOTE: Liability and Damages. Customer's liability and damage coverage is not in contract with the amount paid by the client for the analysis. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors resulting out of or related to the use of services provided by Cardinal. Reproduction of samples without prior written permission is prohibited.</p> |             |                                    |              |                                 |            |                                                                     |     |                                |        |                       |            |                                |       |                        |                  |                      |  |                        |  |                      |  |
| Relinquished By: <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Date: <u>10-18-15</u>              |              | Received By: <u>[Signature]</u> |            | Date: <u>10-15-15</u>                                               |     | Time: <u></u>                  |        | Sample Condition      |            | CHECKED BY: <u>[Signature]</u> |       | Phone Result: <u></u>  |                  | Fax Result: <u></u>  |  | Add'l Phone #: <u></u> |  | Add'l Fax #: <u></u> |  |
| Delivered By: (Circle One)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | -2.00/#97                          |              | Sample Intact                   |            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |     | Checked By: <u>[Signature]</u> |        | Phone Result: <u></u> |            | Fax Result: <u></u>            |       | Add'l Phone #: <u></u> |                  | Add'l Fax #: <u></u> |  |                        |  |                      |  |
| Sampler - UPS - Bus - Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                    |              | Sample Intact                   |            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |     | Checked By: <u>[Signature]</u> |        | Phone Result: <u></u> |            | Fax Result: <u></u>            |       | Add'l Phone #: <u></u> |                  | Add'l Fax #: <u></u> |  |                        |  |                      |  |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2475

|                                                                                                                                                                     |  |             |  |                                                                                                     |  |              |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|-----------------------------------------------------------------------------------------------------|--|--------------|--|
| Company Name: <b>ConocoPhillips</b><br>Project Manager: <b>Justin Wright</b>                                                                                        |  |             |  | P.O. #: _____<br>Company: <b>CORC</b>                                                               |  |              |  |
| Address: _____<br>City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88440</b><br>Phone #: <b>575-631-9093</b> Fax #: _____<br>Project #: _____ Project Owner: <b>CORC</b> |  |             |  | Attn: _____<br>Address: _____<br>City: _____ State: _____ Zip: _____<br>Phone #: _____ Fax #: _____ |  |              |  |
| Project Location: <b>Feddy County, NM</b><br>Sample Name: <b>Justin Wright</b>                                                                                      |  |             |  | FOR LAB USE ONLY                                                                                    |  |              |  |
| Lab I.D. <b>H803006</b>                                                                                                                                             |  | Sample I.D. |  | (G)RAB OR (C)OMP.                                                                                   |  | # CONTAINERS |  |
| 11 SP # 3-6'                                                                                                                                                        |  | G           |  | GROUNDWATER                                                                                         |  | WASTEWATER   |  |
| 12 SP # 3-8'                                                                                                                                                        |  | G           |  | SOIL                                                                                                |  | OIL          |  |
| 13 SP # 4-2'                                                                                                                                                        |  | G           |  | SLUDGE                                                                                              |  | OTHER:       |  |
| 14 SP # 4-4'                                                                                                                                                        |  | G           |  | ACID/BASE:                                                                                          |  | ICE / COOL   |  |
| 15 SP # 4-6'                                                                                                                                                        |  | G           |  | OTHER:                                                                                              |  | DATE         |  |
| 16 SP # 4-8'                                                                                                                                                        |  | G           |  | DATE                                                                                                |  | TIME         |  |
| 17 SP # 5-2'                                                                                                                                                        |  | G           |  | DATE                                                                                                |  | TIME         |  |
| 18 SP # 5-4'                                                                                                                                                        |  | G           |  | DATE                                                                                                |  | TIME         |  |
| 19 SP # 5-6'                                                                                                                                                        |  | G           |  | DATE                                                                                                |  | TIME         |  |
| 20 SP # 5-8'                                                                                                                                                        |  | G           |  | DATE                                                                                                |  | TIME         |  |

PLEASE NOTE: Under and Overpack, Certified labels and tags, available remedy for any data entry, whether based on certified or test, shall be turned to the amount paid by the client for the analysis. All clients, including those for response and any other change, underwriter shall be notified and received by Certified within 30 days after completion of the applicable analysis. In the event that Certified has failed to provide or consistent with the terms of the contract, including without limitation, business instructions, form of use, or loss of profits incurred by client, be substituted.

|                                                                                |  |                                 |  |
|--------------------------------------------------------------------------------|--|---------------------------------|--|
| Relinquished By: <i>[Signature]</i> Date: <b>10-10-08</b><br>Time: <b>2:15</b> |  | Received By: <i>[Signature]</i> |  |
| Relinquished By: <i>[Signature]</i> Date: _____<br>Time: _____                 |  | Received By: _____              |  |

|                                                                               |                                                                                                                                                                                            |                                |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other: <b>-2.90c/ #97</b> | Sample Condition<br>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/><br>Dry <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> | CHECKED BY: <i>[Signature]</i> |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|

REMARKS: **Chlorides**

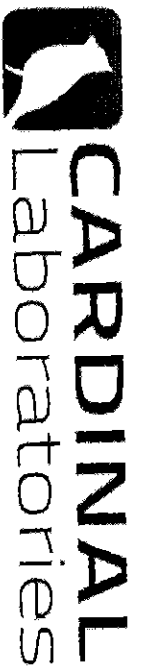
Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:  
 Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(576) 393-2326 FAX (576) 393-2476

|                                          |  |                                    |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
|------------------------------------------|--|------------------------------------|--|---------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| Company Name: <u>ConocoPhillips</u>      |  | P.O. #:                            |  | BILL TO |  |  |  |  |  |  |  |  |  | ANALYSIS REQUEST |  |  |  |  |  |  |  |  |  |
| Project Manager: <u>Justin Wright</u>    |  | Company: <u>COR</u>                |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Address:                                 |  | Attn:                              |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| City: <u>Hobbs</u>                       |  | State: <u>NM</u> Zip: <u>88240</u> |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Phone #: <u>575-631-9083</u>             |  | Fax #:                             |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Project #:                               |  | Project Owner: <u>COR</u>          |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Project Name: <u>James A. Waterfield</u> |  | City:                              |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Project Location: <u>Eddy County, NM</u> |  | State:                             |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Sample Name: <u>Justin Wright</u>        |  | Phone #:                           |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY                         |  | Fax #:                             |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Lab I.D.                                 |  | Sample I.D.                        |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| H803006                                  |  | SP#6-2'                            |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 21                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 22                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 23                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 24                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 25                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 26                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 27                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 28                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 29                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 30                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 31                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 32                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 33                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 34                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 35                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 36                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 37                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 38                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 39                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 40                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 41                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 42                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 43                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 44                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 45                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 46                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 47                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 48                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 49                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 50                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 51                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 52                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 53                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 54                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 55                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 56                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 57                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 58                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 59                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 60                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 61                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 62                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 63                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 64                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 65                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 66                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 67                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 68                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 69                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 70                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 71                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 72                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 73                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 74                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 75                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 76                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 77                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 78                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 79                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 80                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 81                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 82                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 83                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 84                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 85                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 86                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 87                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 88                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 89                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 90                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 91                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 92                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 93                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 94                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 95                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 96                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 97                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 98                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 99                                       |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 100                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 101                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 102                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 103                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 104                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 105                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 106                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 107                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 108                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 109                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 110                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 111                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 112                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 113                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 114                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 115                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 116                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 117                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 118                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 119                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 120                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 121                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 122                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 123                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 124                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 125                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 126                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 127                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 128                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 129                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 130                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 131                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 132                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 133                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 134                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 135                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 136                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 137                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 138                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 139                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 140                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 141                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 142                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 143                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 144                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 145                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 146                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 147                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 148                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 149                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 150                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 151                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 152                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 153                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 154                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 155                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 156                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 157                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 158                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 159                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 160                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 161                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 162                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 163                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 164                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 165                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 166                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 167                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 168                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 169                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 170                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 171                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 172                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 173                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 174                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 175                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 176                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 177                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 178                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 179                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 180                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 181                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 182                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 183                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 184                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 185                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 186                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 187                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 188                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 189                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 190                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 191                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 192                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 193                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 194                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 195                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 196                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 197                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 198                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 199                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 200                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 201                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 202                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 203                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 204                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 205                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 206                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 207                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 208                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 209                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 210                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 211                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 212                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 213                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 214                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 215                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 216                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 217                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 218                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 219                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 220                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 221                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 222                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 223                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 224                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 225                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 226                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 227                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 228                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 229                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 230                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 231                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 232                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 233                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 234                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 235                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 236                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 237                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 238                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 239                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 240                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 241                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 242                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 243                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 244                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 245                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 246                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 247                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 248                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 249                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 250                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 251                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 252                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 253                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 254                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 255                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 256                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 257                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 258                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 259                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 260                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 261                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 262                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 263                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 264                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 265                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 266                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 267                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 268                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 269                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 270                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 271                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 272                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 273                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 274                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 275                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 276                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 277                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 278                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 279                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 280                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 281                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 282                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 283                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 284                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 285                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 286                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 287                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 288                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 289                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 290                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 291                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 292                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 293                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 294                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 295                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 296                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 297                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 298                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 299                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 300                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 301                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 302                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 303                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 304                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 305                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 306                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 307                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 308                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 309                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 310                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 311                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| 312                                      |  | G                                  |  |         |  |  |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |



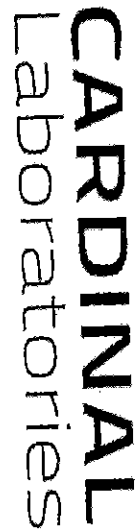
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                       |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------|-----|------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------|-------|------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------|--|
| Company Name: <u>ConocoPhillips</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | P.O. #:               |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Project Manager: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Company: <u>COPC</u>  |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | Attn:                 |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Address:              |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Phone #: <u>575-631-9082</u> Fax #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | City:                 |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Project #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | State: Zip:           |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Project Name: <u>James A Waterford</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             | Phone #:              |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Project Location: <u>Edley County, NM</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Fax #:                |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Sampler Name: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | PRESERV. SAMPLING     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| FOR LAB USE ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                       |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Lab I.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample I.D. | (G)RAB OR (C)OMP.     | # CONTAINERS | GROUNDWATER                                                                                                                                                    | WASTEWATER | SOIL                           | OIL | SLUDGE                                                                                                                 | OTHER: | ACID/BASE:                                                                                                                                                     | ICE / COOL | OTHER:                         | DATE  | TIME                                                                                                                   | ANALYSIS REQUEST |                                                                                                                    |  |
| 1803006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SPH8-6'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                | Chlorides                                                                                                          |  |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH8-6'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH8-6'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH9-2'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH9-4'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH9-6'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH9-8'     | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH10-2'    | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH10-4'    | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH10-6'    | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPH10-8'    | G                     |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                | 10-16 |                                                                                                                        | ✓                |                                                                                                                    |  |
| RELEASE NOTE: Laboratory and Customer's signatures and dates are required for any claims arising whether caused by, or due to, the amount paid by the client for no analysis. All claims, including those for negligence and/or other claims, must be submitted in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for negligence or consequential damages, including without limitation, business interruptions, loss of time or loss of profits incurred by client, its subsidiaries, affiliates or successors without the prior written consent of Cardinal. Limitation of liability: such claim is based upon any of the above stated reasons or otherwise. |             |                       |              |                                                                                                                                                                |            |                                |     |                                                                                                                        |        |                                                                                                                                                                |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |
| Relinquished By: <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Date: <u>10-18-18</u> |              | Received By: <u>[Signature]</u>                                                                                                                                |            | Date: <u>10-18-18</u>          |     | Time: <u>2:15</u>                                                                                                      |        | Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |            | CHECKED BY: <u>[Signature]</u> |       | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <u></u> |                  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: <u></u> |  |
| Relinquished By: <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Date: <u>10-18-18</u> |              | Received By: <u>[Signature]</u>                                                                                                                                |            | Date: <u>10-18-18</u>          |     | Time: <u>2:15</u>                                                                                                      |        | Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |            | CHECKED BY: <u>[Signature]</u> |       | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <u></u> |                  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: <u></u> |  |
| Delivered By: (Circle One) <u>UPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | -2.99¢ / #97          |              | Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |            | CHECKED BY: <u>[Signature]</u> |     | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <u></u> |        | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: <u></u>                                             |            |                                |       |                                                                                                                        |                  |                                                                                                                    |  |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**Company Name:** Conoco Phillips

**Project Manager:** Justin Wright

**Address:** Hells

**City:** Hells **State:** NM **ZIP:** 88440

**Phone #:** 575-431-9092 **Fax #:** \_\_\_\_\_

**Project #:** \_\_\_\_\_ **Project Owner:** CCRC

**Project Name:** James A Waterflood

**Project Location:** Ford County, NM

**Sample Name:** Testin Wright

**P.O. #:** \_\_\_\_\_

**Company:** CCRC

**Attn:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Phone #:** \_\_\_\_\_ **Fax #:** \_\_\_\_\_

**FOR LAB USE ONLY**

| Lab I.D.  | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |        | PRESERV. | SAMPLING | DATE | TIME | ANALYSIS REQUEST |
|-----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|--------|----------|----------|------|------|------------------|
|           |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: |          |          |      |      |                  |
| 115052016 |             |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 41        | SP#11-2'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 42        | SP#11-4'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 43        | SP#11-6'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 44        | SP#11-8'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 45        | SP#12-2'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 46        | SP#12-4'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 47        | SP#12-6'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 48        | SP#12-8'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 49        | SP#13-2'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |
| 50        | SP#13-4'    |                   |              |             |            |      |     |        |        |          |          |      |      |                  |

**PLEASE NOTE:** Liability and Damages: Customers testify and certify, exclusive remedy for any claim arising from use, based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client. No subcontractors, affiliates or subcontractors will be allowed to perform the services hereunder by Cardinal. Signature of individual such claim is void upon entry of the above stated releases or otherwise.

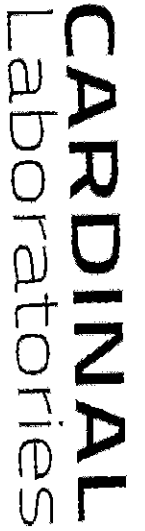
**Relinquished By:** [Signature] **Date:** 10-19-08 **Received By:** [Signature]

**Relinquished By:** [Signature] **Date:** 8-15 **Received By:** [Signature]

**Delivered By:** (Circle One) 2.90c / #97 **Sample Condition:** ☒ Cool ☐ Intact ☐ Yes ☐ No **CHECKED BY:** [Signature]

**Sampler - UPS - Bus - Other:** \_\_\_\_\_ **Phone Result:** ☐ Yes ☐ No **Add'l Phone #:** \_\_\_\_\_

**REMARKS:** \_\_\_\_\_

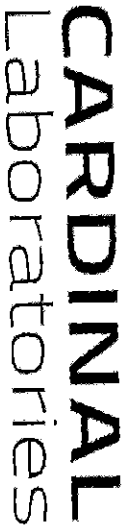


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# OTTAWA

ANALYSIS REQUEST

Page 27 of 30



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

|                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |                                                                                                                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------|--|
| Company Name: <b>Conoco Phillips</b><br>Project Manager: <b>Justin Wright</b><br>Address: _____<br>City: <b>Holds</b> State: <b>NM</b> Zip: <b>88240</b><br>Phone #: <b>575-631-9092</b> Fax #: _____<br>Project #: _____ Project Owner: <b>CORC</b><br>Project Name: <b>James A Waters Flood</b> State: _____ Zip: _____<br>Project Location: <b>Eddy County, NM</b> Phone #: _____<br>Sample Name: <b>Justin Wright</b> Fax #: _____ |  |  |  | P.O. #: _____<br>Company: <b>CORC</b><br>Address: _____<br>City: _____<br>State: _____ Zip: _____<br>Fax #: _____ |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------|--|

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |        | PRESERV. | SAMPLING | DATE  | TIME | ANALYSIS REQUEST |   |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|--------|----------|----------|-------|------|------------------|---|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: |          |          |       |      |                  |   |
| 11809206 |             |                   |              |             |            |      |     |        |        |          |          |       |      |                  |   |
|          | 01 SP#14-2' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 02 SP#16-4' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 03 SP#16-6' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 04 SP#16-8' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 05 SP#17-2' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 06 SP#17-4' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 07 SP#17-6' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 08 SP#18-8' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 09 SP#18-2' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |
|          | 10 SP#18-4' | G                 |              |             |            |      |     |        |        |          |          | 10-16 |      |                  | ✓ |

Relinquished By: \_\_\_\_\_ Date: **10-18-18** Time: **2:15**  
 Received By: **Scotti Henderson**  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_

|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delivered By: (Circle One) <b>2.99c/#97</b><br>Sampler - UPS - Bus - Other: _____<br>Sample Condition:<br>Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Checked By: <b>(Signature)</b> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Add'l Phone #: _____<br>Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Add'l Fax #: _____<br>REMARKS: _____ |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

| <b>Company Name:</b> <u>ConocoPhillips</u><br><b>Project Manager:</b> <u>Justin Wright</u><br><b>Address:</b><br><b>City:</b> <u>Hebbes</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88240</u><br><b>Phone #:</b> <u>575-431-9092</u> <b>Fax #:</b><br><b>Project #:</b><br><b>Project Name:</b> <u>James A Water Flood</u><br><b>Project Location:</b> <u>Eddy County, NM</u><br><b>Sample Name:</b> <u>Justin Wright</u><br><small>FOR LAB USE ONLY</small>                                                                                                                                                                                                                                                                                                                                                                                 |                                                | <b>P.O. #:</b><br><b>Company:</b> <u>CORC</u><br><b>Attn:</b><br><b>Address:</b><br><b>City:</b><br><b>State:</b> <b>Zip:</b><br><b>Phone #:</b><br><b>Fax #:</b>                                                                                                                                                                                                                                                                                                                        |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|--|----------|----------|-------------|------------|--|--|------|-----|--|--|--------|---------|--|--|------------|------------|--|--|---------|--|
| <b>Lab I.D.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Sample I.D.</b>                             | <input type="checkbox"/> (G) GRAB OR <input type="checkbox"/> (C) COMP.                                                                                                                                                                                                                                                                                                                                                                                                                  | <b># CONTAINERS</b>                                                                    |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">MATRIX</th> <th>PRESERV.</th> <th>SAMPLING</th> </tr> <tr> <td>GROUNDWATER</td> <td>WASTEWATER</td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td>OIL</td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td>OTHER :</td> <td></td> <td></td> </tr> <tr> <td>ACID/BASE:</td> <td>ICE / COOL</td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> <td></td> </tr> </table> |                                                                                        | MATRIX |  | PRESERV. | SAMPLING | GROUNDWATER | WASTEWATER |  |  | SOIL | OIL |  |  | SLUDGE | OTHER : |  |  | ACID/BASE: | ICE / COOL |  |  | OTHER : |  |
| MATRIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                | PRESERV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLING                                                                               |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| GROUNDWATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WASTEWATER                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | OIL                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| SLUDGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OTHER :                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| ACID/BASE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ICE / COOL                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| OTHER :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| T1 SP#18-6'<br>T2 SP#18-8'<br>T3 SP#19-2'<br>T4 SP#19-4'<br>T5 SP#19-6'<br>T6 SP#19-8'<br>T7 SP#20-2'<br>T8 SP#20-4'<br>T9 SP#20-6'<br>T10 SP#20-8'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G | ✓<br>✓<br>✓<br>✓<br>✓<br>✓<br>✓<br>✓<br>✓<br>✓                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10-16<br>10-16<br>10-16<br>10-16<br>10-16<br>10-16<br>10-16<br>10-16<br>10-16<br>10-16 |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| <small>PLEASE NOTE: Laboratory and On-site personnel are responsible for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Customer within 30 days after completion of the applicable services. In no event shall Contract be subject to incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or resulting from the performance of services hereunder by Contractor, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small> |                                                | <b>Relinquished By:</b> <u>[Signature]</u> <b>Date:</b> <u>10-18-10</u><br><b>Relinquished By:</b> <u>[Signature]</u> <b>Date:</b> <u>2.15</u><br><b>Time:</b>                                                                                                                                                                                                                                                                                                                           |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| <b>Delivered By:</b> (Circle One) <u>-2.90 / #97</u><br><b>Sampler - UPS - Bus - Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                | <b>Sample Condition</b><br>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/><br>No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                   |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |
| <b>REMARKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                | <b>Chlorides</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                        |        |  |          |          |             |            |  |  |      |     |  |  |        |         |  |  |            |            |  |  |         |  |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

|                                          |             |                      |  |
|------------------------------------------|-------------|----------------------|--|
| Company Name: <b>LexacoPhillips</b>      |             | P.O. #:              |  |
| Project Manager: <b>Justin Wright</b>    |             | Company: <b>CORC</b> |  |
| Address:                                 |             | Attn:                |  |
| City: <b>Hells</b>                       |             | Address:             |  |
| Phone #: <b>575-631-9082</b>             |             | City:                |  |
| Project #:                               |             | State:               |  |
| Project Name: <b>Tamco A Water Flood</b> |             | Zip:                 |  |
| Project Location: <b>Eddy County, NM</b> |             | Phone #:             |  |
| Sample Name: <b>Justin Wright</b>        |             | Fax #:               |  |
| FOR LAB USE ONLY                         |             |                      |  |
| Lab I.D.                                 | Sample I.D. | (G)RAB OR (C)OMP.    |  |
|                                          |             | # CONTAINERS         |  |
|                                          |             | GROUNDWATER          |  |
|                                          |             | WASTEWATER           |  |
|                                          |             | SOIL                 |  |
|                                          |             | OIL                  |  |
|                                          |             | SLUDGE               |  |
|                                          |             | OTHER:               |  |
|                                          |             | ACID/BASE:           |  |
|                                          |             | ICE / COOL           |  |
|                                          |             | OTHER:               |  |
|                                          |             | DATE                 |  |
|                                          |             | TIME                 |  |
|                                          |             |                      |  |
|                                          |             |                      |  |
|                                          |             |                      |  |
|                                          |             |                      |  |
|                                          |             |                      |  |
| Chlorides                                |             |                      |  |

REMARKS: Phone Result: ☐ Yes ☐ No    Add'l Phone #: \_\_\_\_\_

Fax Result: ☐ Yes ☐ No    Add'l Fax #: \_\_\_\_\_



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 23, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: JAMES A WATERFLOOD

Enclosed are the results of analyses for samples received by the laboratory on 10/18/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 23 - 6' (H803007-01)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 23 - 8' (H803007-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 24 - 2' (H803007-03)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

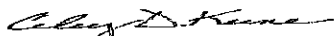
**Sample ID: SP # 24 - 4' (H803007-04)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 752    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 24 - 6' (H803007-05)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 912    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 24 - 8' (H803007-06)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 928    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 25 - 2' (H803007-07)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 336    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 25 - 4' (H803007-08)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3440   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 25 - 6' (H803007-09)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 480    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 25 - 8' (H803007-10)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 26 - 2' (H803007-11)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 26 - 4' (H803007-12)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 800    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 26 - 6' (H803007-13)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 864    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 26 - 8' (H803007-14)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1120   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 27 - 2' (H803007-15)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 27 - 4' (H803007-16)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 672    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 27 - 6' (H803007-17)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 464    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 27 - 8' (H803007-18)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

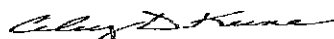
**Sample ID: SP # 28 - 2' (H803007-19)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 608    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

\*=Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 28 - 4' (H803007-20)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 28 - 6' (H803007-21)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 28 - 8' (H803007-22)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 29 - 2' (H803007-23)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 608    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

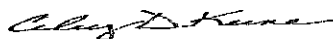
**Sample ID: SP # 29 - 4' (H803007-24)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

\* = Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 29 - 6' (H803007-25)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 29 - 8' (H803007-26)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 30 - 2' (H803007-27)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 416    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 30 - 4' (H803007-28)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

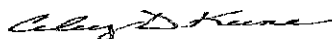
**Sample ID: SP # 30 - 6' (H803007-29)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

\* = Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 30 - 8' (H803007-30)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| mg/kg                |        |                 |                 |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 31 - 2' (H803007-31)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| mg/kg                |        |                 |                 |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 464    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 31 - 4' (H803007-32)**

|                                  |        |                 |                 |              |     |            |               |      |           |
|----------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Sample ID: SP # 31-4 (H33300-01) |        |                 | Analyzed By: AC |              |     |            |               |      |           |
| Chloride, SM4500Cl-B             |        |                 | mg/kg           |              |     |            |               |      |           |
| Analyte                          | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                         | 960    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 31 - 6' (H803007-33)**

| Chloride, SM4500CI-B |        |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: AC |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |
| Chloride             | 1040   | 16.0            | 10/22/2018 | ND           | 416 | 104        | 400           | 0.00 |           |                 |

**Sample ID: SP # 31 - 8' (H803007-34)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1390   | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 0.00 |           |

\*=Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 32 - 2' (H803007-35)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 672    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SP # 32 - 4' (H803007-36)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 336    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 32 - 6' (H803007-37)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 32 - 8' (H803007-38)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

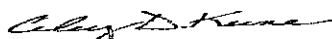
**Sample ID: SP # 33 - 2' (H803007-39)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

\*=Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 33 - 4' (H803007-40)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 33 - 6' (H803007-41)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 33 - 8' (H803007-42)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 34 - 2' (H803007-43)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

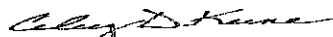
**Sample ID: SP # 34 - 4' (H803007-44)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/22/2018 | ND              | 416 | 104        | 400           | 3.92 |           |

\*=Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 34 - 6' (H803007-45)**

|                      |        |                 |                 |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
| mg/kg                |        |                 |                 |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 34 - 8' (H803007-46)**

|                                    |        |                 |                 |              |     |            |               |      |           |
|------------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Sample ID: SP # 34 - 3 (H33333333) |        |                 | Analyzed By: AC |              |     |            |               |      |           |
| Chloride, SM4500Cl-B               |        |                 | mg/kg           |              |     |            |               |      |           |
| Analyte                            | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                           | 128    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 35 - 2' (H803007-47)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| mg/kg                |        |                 |                 |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3480   | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 35 - 4' (H803007-48)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 624    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 35 - 6' (H803007-49)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

\* = Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 35 - 8' (H803007-50)**

| Chloride, SM4500Cl-B |        | Analyzed By: AC |            |              |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 10/22/2018 | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 36 - 2' (H803007-51)**

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: AC |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |
| Chloride             | 192    | 16.0            | 10/22/2018 | ND           | 416 | 104        | 400           | 3.92 |           |                 |

**Sample ID: SP # 36 - 4' (H803007-52)**

|                                      |        |                 |                 |              |     |            |               |      |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Sample ID: SP # 30 - 4 (H3333333333) |        |                 | Analyzed By: AC |              |     |            |               |      |           |
| Chloride, SM4500Cl-B                 |        | mg/kg           |                 |              |     |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 448    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 36 - 6' (H803007-53)**

|                                    |        |                 |                 |              |     |            |               |      |           |
|------------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Sample ID: SP # 30 - 0 (HSE000-02) |        |                 | Analyzed By: AC |              |     |            |               |      |           |
| Chloride, SM4500Cl-B               |        | mg/kg           |                 |              |     |            |               |      |           |
| Analyte                            | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                           | 592    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

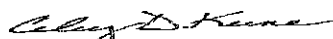
**Sample ID: SP # 36 - 8' (H803007-54)**

| Chloride, SM4500Cl-B |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| mg/kg                |        |                 |                 |              |     |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 672    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

\* = Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

 Received: 10/18/2018  
 Reported: 10/23/2018  
 Project Name: JAMES A WATERFLOOD  
 Project Number: NONE GIVEN  
 Project Location: COPC - EDDY CO NM

 Sampling Date: 10/17/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP # 37 - 2' (H803007-55)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 480    | 16.0            | 10/22/2018      | ND           | 416 | 104        | 400           | 3.92 |           |

**Sample ID: SP # 37 - 4' (H803007-56)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 288    | 16.0            | 10/22/2018      | ND           | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SP # 37 - 6' (H803007-57)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 64.0   | 16.0            | 10/22/2018      | ND           | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SP # 37 - 8' (H803007-58)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 80.0   | 16.0            | 10/22/2018      | ND           | 432 | 108        | 400           | 0.00 |           |

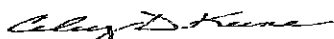
**Sample ID: SP # 38 - 2' (H803007-59)**

| Chloride, SM4500Cl-B mg/kg |        |                 | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 1140   | 16.0            | 10/22/2018      | ND           | 432 | 108        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 38 - 4' (H803007-60)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2440   | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SP # 38 - 6' (H803007-61)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SP # 38 - 8' (H803007-62)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

**Sample ID: SP # 39 - 2' (H803007-63)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 848    | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

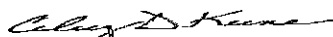
**Sample ID: SP # 39 - 4' (H803007-64)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1800   | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

\*=Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                    |                     |               |
|-------------------|--------------------|---------------------|---------------|
| Received:         | 10/18/2018         | Sampling Date:      | 10/17/2018    |
| Reported:         | 10/23/2018         | Sampling Type:      | Soil          |
| Project Name:     | JAMES A WATERFLOOD | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN         | Sample Received By: | Jodi Henson   |
| Project Location: | COPC - EDDY CO NM  |                     |               |

**Sample ID: SP # 39 - 6' (H803007-65)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 816    | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

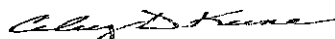
**Sample ID: SP # 39 - 8' (H803007-66)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2600   | 16.0            | 10/22/2018 | ND              | 432 | 108        | 400           | 0.00 |           |

\* = Accredited Analyte

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

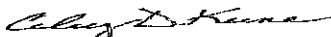
**Notes and Definitions**

|     |                                                                                 |
|-----|---------------------------------------------------------------------------------|
| ND  | Analyte NOT DETECTED at or above the reporting limit                            |
| RPD | Relative Percent Difference                                                     |
| **  | Samples not received at proper temperature of 6°C or below.                     |
| *** | Insufficient time to reach temperature.                                         |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C     |
|     | Samples reported on an as received basis (wet) unless otherwise noted on report |

---

\*=Accredited Analyte**Cardinal Laboratories**

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

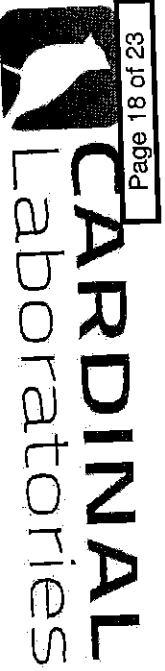


---

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Please for variation channels to 15751 20220226



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## BILL TO

## ANALYSIS REQUEST

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |                                      |                                                                        |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Company Name: <u>ConocoPhillips</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                               | P.O. #:                              |                                                                        |                                                                         |
| Project Manager: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                               | Company: <u>COPC</u>                 |                                                                        |                                                                         |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                               | Attn:                                |                                                                        |                                                                         |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                               | Address:                             |                                                                        |                                                                         |
| Phone #: <u>575-631-9092</u> Fax #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                               | City:                                |                                                                        |                                                                         |
| Project #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                               | State:                               | Zip:                                                                   |                                                                         |
| Project Name: <u>James A Water Flood</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                               | Phone #:                             |                                                                        |                                                                         |
| Project Location: <u>Edley County, NM</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                               | Fax #:                               |                                                                        |                                                                         |
| Sampler Name: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                               | PRESERV                              | SAMPLING                                                               |                                                                         |
| FOR LAB USE ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                               |                                      |                                                                        |                                                                         |
| Lab I.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sample I.D.                                                                                   | (G)RAB OR (C)OMP.                    | # CONTAINERS                                                           | MATRIX                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               | GROUNDWATER                          | WASTEWATER                                                             | SOIL                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |                                      |                                                                        | OIL                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |                                      |                                                                        | SLUDGE                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |                                      |                                                                        | OTHER:                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               | ACID/BASE:                           | ICE / COOL                                                             | OTHER:                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               | DATE                                 | TIME                                                                   |                                                                         |
| H803007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SP# 26-2'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 26-4'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 26-6'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 26-8'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 27-2'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 27-4'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 27-6'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 27-8'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 28-2'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 28-4'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SP# 28-6'                                                                                     | ✓                                    | 10-17                                                                  | ✓                                                                       |
| <p>PLEASE NOTE: Liability and Damages: Cardinal's liability and damage coverage is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p> |                                                                                               |                                      |                                                                        |                                                                         |
| Relinquished By: <u>Justin Wright</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date: <u>10-18-18</u>                                                                         | Received By: <u>Jackie Hernandez</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Delivered By: (Circle One) <u>-2.90c / #97</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Damaged | CHECKED BY: <u>[Signature]</u>       | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   | Add'l Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No   |
| REMARKS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                               |                                      |                                                                        |                                                                         |
| Chlorides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                               |                                      |                                                                        |                                                                         |

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

\* Cardinal cannot accept verbal changes. Please for written changes to 15/51/20/2000000



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

|                                                   |  |  |  |                                     |  |  |  |
|---------------------------------------------------|--|--|--|-------------------------------------|--|--|--|
| <b>Company Name:</b> <u>Cenozo Phillips</u>       |  |  |  | <b>P.O. #:</b>                      |  |  |  |
| <b>Project Manager:</b> <u>Justin Wright</u>      |  |  |  | <b>Company:</b> <u>CCPC</u>         |  |  |  |
| <b>Address:</b>                                   |  |  |  | <b>Attn:</b>                        |  |  |  |
| <b>City:</b> <u>Hobbs</u>                         |  |  |  | <b>Address:</b>                     |  |  |  |
| <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88240</u>  |  |  |  |                                     |  |  |  |
| <b>Phone #:</b> <u>575-631-9092</u> <b>Fax #:</b> |  |  |  | <b>City:</b>                        |  |  |  |
| <b>Project #:</b>                                 |  |  |  | <b>State:</b> <u>NM</u> <b>Zip:</b> |  |  |  |
| <b>Project Name:</b> <u>Tanner A Waterflood</u>   |  |  |  | <b>Phone #:</b>                     |  |  |  |
| <b>Project Location:</b> <u>Foley County, NM</u>  |  |  |  | <b>Fax #:</b>                       |  |  |  |
| <b>Sampler Name:</b> <u>Justin Wright</u>         |  |  |  |                                     |  |  |  |
| <b>FOR LAB USE ONLY</b>                           |  |  |  |                                     |  |  |  |

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |        |            | DATE | TIME | ANALYSIS REQUEST |            |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|--------|------------|------|------|------------------|------------|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: |      |      |                  | ICE / COOL |
| 1803007  |             |                   |              |             |            |      |     |        |        |            |      |      |                  |            |
| 31       | SP#31-2'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 32       | SP#31-4'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 33       | SP#31-6'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 34       | SP#31-8'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 35       | SP#32-2'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 36       | SP#32-4'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 37       | SP#32-6'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 38       | SP#32-8'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 39       | SP#33-2'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |
| 40       | SP#33-4'    | G                 |              |             |            |      |     |        |        |            |      |      |                  |            |

**Relinquished By:** [Signature] **Date:** 10-18-10 **Time:** 2:16 **Received By:** [Signature]

**Relinquished By:** [Signature] **Date:** 10-18-10 **Time:** 2:16 **Received By:** [Signature]

**Delivered By:** (Circle One) -2992/#97 **Sample Condition:** ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ No ☐ No

**Sampler - UPS - Bus - Other:** -2992/#97 **Checked By:** [Signature]

**REMARKS:**

Chlorides

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

+ Cardinal nomenclature verbal changes      Place for written changes to 15751 30229 2394

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

+ Cardinal cannot accept verbal change. Place for written change to 1A751 20220226

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|                                                 |                    |                                  |                          |               |                         |                  |
|-------------------------------------------------|--------------------|----------------------------------|--------------------------|---------------|-------------------------|------------------|
| <b>Company Name:</b> <i>Campco Phillips</i>     |                    | <b>P.O. #:</b>                   | <b>BILL TO</b>           |               | <b>ANALYSIS REQUEST</b> |                  |
| <b>Project Manager:</b> <i>Justin Wright</i>    |                    | <b>Company:</b>                  |                          |               |                         |                  |
| <b>Address:</b>                                 |                    |                                  |                          |               |                         |                  |
| <b>City:</b> <i>Hobbs</i>                       |                    | <b>State:</b> <i>NM</i>          | <b>Zip:</b> <i>88001</i> | <b>Attn:</b>  |                         |                  |
| <b>Phone #:</b> <i>575-431-9092</i>             |                    | <b>Fax #:</b>                    | <b>Address:</b>          | <b>City:</b>  | <b>State:</b> <i>NM</i> |                  |
| <b>Project #:</b>                               |                    | <b>Project Owner:</b> <i>COR</i> | <b>State:</b>            | <b>Zip:</b>   |                         |                  |
| <b>Project Location:</b> <i>Eddy County, NM</i> |                    | <b>Phone #:</b>                  |                          |               |                         |                  |
| <b>Sample Name:</b> <i>Vista Wright</i>         |                    | <b>Fax #:</b>                    |                          |               |                         |                  |
| <b>FOR LAB USE ONLY:</b>                        |                    |                                  |                          |               |                         |                  |
| <b>Lab I.D.</b><br><i>H803607</i>               | <b>Sample I.D.</b> | <b>(G)RAB OR (C)OMP.</b>         |                          | <b>MATRIX</b> | <b>PRESERV.</b>         | <b>SAMPLING</b>  |
|                                                 |                    | # CONTAINERS                     |                          |               |                         |                  |
|                                                 |                    | GROUNDWATER                      |                          |               |                         |                  |
|                                                 |                    | WASTEWATER                       |                          |               |                         |                  |
|                                                 |                    | SOIL                             |                          |               |                         |                  |
|                                                 |                    | OIL                              |                          |               |                         |                  |
|                                                 |                    | SLUDGE                           |                          |               |                         |                  |
|                                                 |                    | OTHER :                          |                          |               |                         |                  |
|                                                 |                    | ACID/BASE:                       |                          |               |                         |                  |
|                                                 |                    | ICE / COOL                       |                          |               |                         |                  |
|                                                 |                    | OTHER :                          |                          |               |                         |                  |
|                                                 |                    | DATE                             |                          |               |                         |                  |
|                                                 |                    | TIME                             |                          |               |                         |                  |
|                                                 | <i>Q1 SP#38-6'</i> | <i>G</i>                         | <i>✓</i>                 | <i>10-17</i>  | <i>✓</i>                | <i>Chlorides</i> |
|                                                 | <i>Q2 SP#38-8'</i> | <i>G</i>                         | <i>✓</i>                 | <i>10-17</i>  | <i>✓</i>                |                  |
|                                                 | <i>Q3 SP#39-8'</i> | <i>G</i>                         | <i>✓</i>                 | <i>10-17</i>  | <i>✓</i>                |                  |
|                                                 | <i>Q4 SP#39-4'</i> | <i>G</i>                         | <i>✓</i>                 | <i>10-17</i>  | <i>✓</i>                |                  |
|                                                 | <i>Q5 SP#39-6'</i> | <i>G</i>                         | <i>✓</i>                 | <i>10-17</i>  | <i>✓</i>                |                  |
|                                                 | <i>Q6 SP#39-8'</i> | <i>G</i>                         | <i>✓</i>                 | <i>10-17</i>  | <i>✓</i>                |                  |

PLEASE NOTE: Liability and Damages. Cardholder liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated legends or otherwise.

**Relinquished By:** *[Signature]* **Date:** *10-18-18* **Received By:** *[Signature]*

**Relinquished By:** *[Signature]* **Date:** *8-19* **Received By:** *[Signature]*

**Delivered By:** (Circle One) *-29%* **#97** **Sample Condition:** Cool ☒ Intact ☐ Yes ☐ No **Checked By:** *[Signature]*

**Sampler - UPS - Bus - Other:**

**REMARKS:**