

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.

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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.

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1220 South St. Francis Dr.
Santa Fe, NM 87505

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 Waterfld	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

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Incident ID	
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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 Waterfld	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.

I. Operator information			
A. Company Name: ConocoPhillips Company.		OGRID # 217817	
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	
II. Site Information			
A. 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. Environmental Sensitive area:			
Ground water depth:410'			
Nearest Water Well:			
Nearest Water Of The US (WOTUS):			
III. Remediation Plan			
A. 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 45.12bbls. 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. 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	POD Code	Sub-basin	County	Q 6	Q 16	Q 4	Q 35	Sec	Tws	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

UTMNAD83 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.

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 that reads "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	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 # 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

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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 # 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		

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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 # 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		

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Celey D. Keene, Lab Director/Quality Manager

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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 # 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		

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Celey D. Keene, Lab Director/Quality Manager

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 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 # 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		

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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 # 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		

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 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 # 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		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 - 8' (H803006-32)

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	10/19/2018	ND	400	100	400	7.69		

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

Chloride, SM4500Cl-B		mg/kg		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		

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 Hobbs NM, 88240
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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 # 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		

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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 # 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		

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 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, 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	10/19/2018	ND	400	100	400	7.69		

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

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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		

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 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 # 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		

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 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		

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 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		mg/kg		Analyzed By: AC						
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		

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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 # 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		

*=Accredited Analyte

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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 # 18 - 4' (H803006-70)

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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, 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	10/21/2018	ND	416	104	400	0.00		

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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 # 19 - 6' (H803006-75)

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	10/21/2018	ND	416	104	400	0.00		

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

Chloride, SM4500CI-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, 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	10/21/2018	ND	416	104	400	0.00		

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

Chloride, SM4500CI-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, 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	10/21/2018	ND	416	104	400	0.00		

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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 # 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

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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 # 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		

*=Accredited Analyte

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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								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	10/21/2018	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

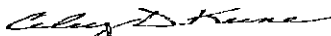
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>ConocoPhillips</u>		P.O. #:	
Project Manager: <u>Justin Wright</u>		Company: <u>COR</u>	
Address:		Attn:	
City: <u>Hobbs</u>		Address:	
State: <u>NM</u> Zip: <u>88340</u>		City:	
Phone #: <u>575-631-9082</u> Fax #:		State:	
Project #: _____		Zip:	
Project Name: <u>James A Waterflood</u>		Phone #:	
Project Location: <u>Eddy County, NM</u>		Fax #:	
Sample Name: <u>Justin Wright</u>		PRESERV:	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)DMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	REMARKS
H803006	SP#6-2'	G											10-16		Chlorides
	SP#6-4'	G											10-16		
	SP#6-6'	G											10-16		
	SP#6-8'	G											10-16		
	SP#7-2'	G											10-16		
	SP#7-4'	G											10-16		
	SP#7-6'	G											10-16		
	SP#7-8'	G											10-16		
	SP#8-2'	G											10-16		
	SP#8-4'	G											10-16		

Relinquished By: <u>[Signature]</u>	Date: <u>10-18-10</u>	Received By: <u>[Signature]</u>
Time: _____		

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: <u>2991 #07</u>	<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>

PLEASE NOTE: Usability and Damages. Cardinal's liability and client's exclusions remain for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the sample. 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 sample. 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, whether or not such claim is based upon any of the above stated reasons or otherwise.

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

REMARKS:

* Cardinal cannot accept verbal pharance Please for written pharance to (575) 393-2326



CARDINAL Laboratories

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: ConocoPhillips		P.O. #:																
Project Manager: Justin Wright		Company: COPC																
Address:		Attn:																
City: Hobbs	State: NM Zip: 88240	Address:																
Phone #: 575-631-9082	Fax #:	City:																
Project #:	Project Owner: COPC	State:	Zip:															
Project Name: James A Waterhead	Project Location: Eddy County, NM	Phone #:																
Sampler Name: Robin Wright		Fax #:																
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
H803006																		
31	SPH8-6'	G		✓	✓	✓		10-16		✓								Chlorides
32	SPH8-5'	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		✓								

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Relinquished By: *[Signature]* Date: **10-18-18** Time: **1:15**

Received By: *[Signature]* Date: **10-18-18** Time: **1:15**

Delivered By: (Circle One) **UPS** - **2:40 PM** / **#97**

Sample Condition: Cool Intact Yes No

Checked By: *[Signature]*

* Cardinal cannot accept verbal change. Please Fax written change to (575) 393-2476



CARDINAL Laboratories

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: Conoco Phillips		P.O. #:							
Project Manager: Justin Wright		Company: CORC							
Address:		Attn:							
City: Hobbs State: NM Zip: 88240		Address:							
Phone #: 575-631-9092 Fax #:		City:							
Project #: _____ Project Owner: CORC		State:							
Project Name: James A Whitehead		Phone #:							
Project Location: Eddy County, NM		Zip:							
Sampler Name: Justin Wright		Fax #:							
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	REMARKS
HS03226									
	101 SP#16-2'	G		SOIL			10-16		✓ Chlorides
	102 SP#16-4'	G		SOIL			10-16		✓
	103 SP#16-6'	G		SOIL			10-16		✓
	104 SP#16-8'	G		SOIL			10-16		✓
	105 SP#17-2'	G		SOIL			10-16		✓
	106 SP#17-4'	G		SOIL			10-16		✓
	107 SP#17-6'	G		SOIL			10-16		✓
	108 SP#17-8'	G		SOIL			10-16		✓
	109 SP#18-2'	G		SOIL			10-16		✓
	110 SP#18-4'	G		SOIL			10-16		✓

PLEASE NOTE: Unlabeled and unlabeled samples received for analysis or use, shall be treated as the project goal by the client for the purposes of this Chain of Custody. Cardinal Laboratories shall be deemed to have made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be held liable for intentional or consequential damage, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors pending until a written performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated terms or otherwise.

Relinquished By: *[Signature]* Date: **10-18-18** Time: **2:15**
 Received By: *[Signature]* Date: **10-18-18** Time: **2:15**

Delivered By: (Circle One) **UPS** - Bus - Other: **-2.99c/#97**
 Sample Condition: Cool/Intact Yes No

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

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2826 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

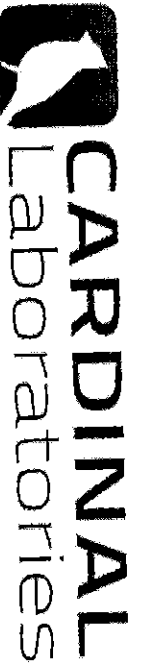
Company Name: CenocoPhillips		P.O. #:									
Project Manager: Justin Wright		Company: COFC									
Address:		Attn:									
City: Hobbs State: NM Zip: 88240		Address:									
Phone #: 575-431-9092 Fax #:		City:									
Project #:		State:									
Project Name: James A Water Flood		Zip:									
Project Location: Eddy County, NM		Phone #:									
Sampler Name: Justin Wright		Fax #:									
FOR USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :		
				ACID/BASE:	ICE / COOL	OTHER :	PRESERV:	SAMPLING			
T1	SP#18-6'	G	1	✓	✓				10-16	✓	Chlorides
T2	SP#18-8'	G	1	✓	✓				10-16	✓	
T3	SP#19-2'	G	1	✓	✓				10-16	✓	
T4	SP#19-4'	G	1	✓	✓				10-16	✓	
T5	SP#19-6'	G	1	✓	✓				10-16	✓	
T6	SP#19-8'	G	1	✓	✓				10-16	✓	
T7	SP#20-2'	G	1	✓	✓				10-16	✓	
T8	SP#20-4'	G	1	✓	✓				10-16	✓	
T9	SP#20-6'	G	1	✓	✓				10-16	✓	
T10	SP#20-8'	G	1	✓	✓				10-16	✓	

PLEASE NOTE: Lenders and Owners, Contractor's liability and design's exclusive remedy for any design's existing whether direct or indirect shall be limited to the contract and by the client for the design. All other remedies shall be deemed waived and unless made in writing and received by Cardinal within 30 days after completion of the project. In the event that Cardinal is held liable for any damages, including without limitation, business interruption, loss of use, or loss of profits caused by design, its subcontractors, affiliates or successors, either in whole or in part, to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated causes of damages.

Relinquished By: *[Signature]* Date: **10-18-18** Time: **2:15**
 Received By: *[Signature]* Date: **2-15**
 Relinquished By: *[Signature]* Time:

Delivered By: (Circle One) **UPS** - Bus - Other: **2.90 / #97**
 Sample Condition: Intact Broken
 Checked By: *[Signature]*

REMARKS: 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
 (575) 398-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: <u>Coxon Phillips</u>		P.O. #:							
Project Manager: <u>John Wright</u>		Company: <u>CORC</u>							
Address:		Attn:							
City: <u>Hobbs</u>	State: <u>NM</u> Zip: <u>88240</u>	Address:							
Phone #: <u>575-631-9084</u>	Fax #:	City:							
Project #:	Project Owner: <u>CORC</u>	State:							
Project Name: <u>James A Waterflood</u>		Zip:							
Project Location: <u>Eddy County, NM</u>		Phone #:							
Sampler Name: <u>John Wright</u>		Fax #:							
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	REMARKS
81	SP#21-2'	G		SOIL			10-17		Chlorides
82	SP#21-4'	G		SOIL			10-17		
83	SP#21-6'	G		SOIL			10-17		
84	SP#21-8'	G		SOIL			10-17		
85	SP#22-2'	G		SOIL			10-17		
86	SP#22-4'	G		SOIL			10-17		
87	SP#22-6'	G		SOIL			10-17		
88	SP#22-8'	G		SOIL			10-17		
89	SP#23-2'	G		SOIL			10-17		
90	SP#23-4'	G		SOIL			10-17		

PLEASE NOTE: Liability and Sample Integrity and Chain of Custody are dependent on the accuracy of the information provided by the client. The client is responsible for providing accurate information. The client is responsible for providing accurate information. The client is responsible for providing accurate information.

Reinforced By: [Signature] Date: 10-18-18 Time: 2:15

Received By: [Signature]

Delivered By: (Circle One) UPS - Bus - Other: 2992/#97

Sample Condition: Cool Intact Yes No

REMARKS:

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

* Cardinal cannot accept abnormal amounts. Please for written change in JCTN 10.7.192.



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.

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 cursive script that reads "Celey D. Keene".

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		

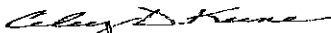
Sample ID: SP # 24 - 4' (H803007-04)

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		

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*=Accredited Analyte

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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, SM4500CI-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, SM4500CI-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, 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 # 25 - 4' (H803007-08)

Chloride, SM4500CI-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, SM4500CI-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		

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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		

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* = Accredited Analyte

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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	

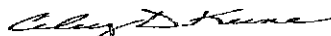
Sample ID: SP # 28 - 2' (H803007-19)

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	

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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 # 28 - 4' (H803007-20)

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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, 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		

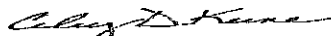
Sample ID: SP # 29 - 4' (H803007-24)

Chloride, SM4500CI-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

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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 # 29 - 6' (H803007-25)

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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, 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	0.00		

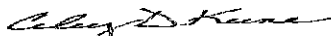
Sample ID: SP # 30 - 6' (H803007-29)

Chloride, SM4500CI-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		

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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, 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	0.00	

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

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 # 31 - 4' (H803007-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	10/22/2018	ND	416	104	400	0.00	

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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 # 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	

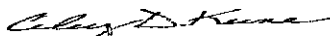
Sample ID: SP # 33 - 2' (H803007-39)

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

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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 # 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		

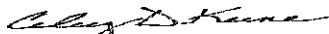
Sample ID: SP # 34 - 4' (H803007-44)

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		

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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 # 34 - 6' (H803007-45)

Chloride, SM4500CI-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	416	104	400	3.92	

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

Chloride, SM4500CI-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 # 35 - 2' (H803007-47)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/22/2018	ND	416	104	400	3.92	

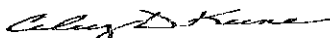
Sample ID: SP # 35 - 6' (H803007-49)

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	

* = Accredited Analyte

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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 # 35 - 8' (H803007-50)

Chloride, SM4500CI-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	3.92		

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

Chloride, SM4500CI-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)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	10/22/2018	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
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		

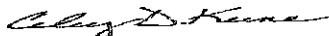
Sample ID: SP # 36 - 8' (H803007-54)

Chloride, 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	3.92		

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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		

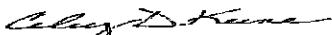
Sample ID: SP # 38 - 2' (H803007-59)

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		

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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, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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	

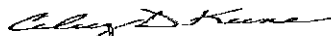
Sample ID: SP # 39 - 4' (H803007-64)

Chloride, SM4500CI-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	

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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, SM4500CI-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	

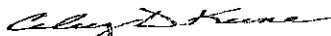
Sample ID: SP # 39 - 8' (H803007-66)

Chloride, SM4500CI-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	

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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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

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: ConocoPhillips
Project Manager: Justin Wright

P.O. #:
Company: COPC

Address:
City: Hobbs State: NM Zip: 88240

Address:
City: State: Zip:

Phone #: 575-631-9092 Fax #:
Project Owner: COPC

Phone #:
State: Zip:

Project Name: James A Water Flood
Project Location: Eddy County, NM

Project Name:
Project Location:

Sampler Name: Justin Wright

Sampler Name:

FOR LAB USE ONLY

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:					
H803007															
11	SP# 26-2'	G										10-17			✓ Chlorides
12	SP# 26-4'	G										10-17			✓
13	SP# 26-6'	G										10-17			✓
14	SP# 26-8'	G										10-17			✓
15	SP# 27-2'	G										10-17			✓
16	SP# 27-4'	G										10-17			✓
17	SP# 27-6'	G										10-17			✓
18	SP# 27-8'	G										10-17			✓
19	SP# 28-2'	G										10-17			✓
20	SP# 28-4'	G										10-17			✓

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

Delivered By: (Circle One) Bus - 2.90c / #97
Sampler - UPS - Bus - Other: 2.90c / #97

Sample Condition
COPC Intact
 Yes No

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

* Cardinal cannot accept verbal change. Please fax within change in ITRN 202,2326



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: Conrad Phillips P.O. #: C
 Project Manager: Robin Wright Company: CDRC

Address: _____ Attn: _____
 City: Hobbs State: NM Zip: 88240 Address: _____

Phone #: 575-631-9082 Fax #: _____ City: _____ State: _____ Zip: _____

Project #: _____ Project Owner: CDRC

Project Name: James A. Underwood Phone #: _____ Fax #: _____

Project Location: Eddy County, NM Project Name: Robin Wright

Sampler Name: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	MATRIX							DATE	TIME			
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			ICE / COOL	OTHER:	
H203007														
	21 SP# 28-6'	G												
	22 SP# 28-8'	G												
	23 SP# 29-2'	G												
	24 SP# 29-4'	G												
	25 SP# 29-6'	G												
	26 SP# 29-8'	G												
	27 SP# 30-2'	G												
	28 SP# 30-4'	G												
	29 SP# 30-6'	G												
	30 SP# 30-8'	G												

Chlorides

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Reinquished By: _____ Date: 10-18-18 Time: 8:15
 Received By: Scotti Henderson

Delivered By: (Circle One) -2.99c / #97
 Sampler - UPS - Bus - Other: _____

Sample Condition: Cool Intact Damaged
 Yes No No

REMARKS: _____
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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: ConocoPhillips
 Project Manager: Justin Wright

P.O. #:
 Company: CCPC

Address: Hobbs State: NM ZIP: 88240

Attn:
 Address:

City: Hobbs State: NM ZIP: 88240
 Phone #: 575-631-9092 Fax #:

City: Address:
 State: ZIP:

Project #:
 Project Name: Tamara A Water Hood
 Project Location: Feld County, NM

Phone #:
 Fax #:

Sampler Name: Robin Wright
 FOR LAB USE ONLY

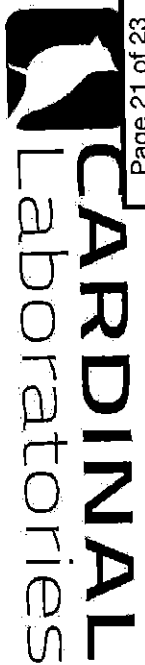
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV			
1803007	SP#31-2'	G	1								10-17	10:17	Chlorides
	SP#31-4'	G	1								10-17	10:17	
	SP#31-6'	G	1								10-17	10:17	
	SP#31-8'	G	1								10-17	10:17	
	SP#32-2'	G	1								10-17	10:17	
	SP#32-4'	G	1								10-17	10:17	
	SP#32-6'	G	1								10-17	10:17	
	SP#32-8'	G	1								10-17	10:17	
	SP#33-2'	G	1								10-17	10:17	
	SP#33-4'	G	1								10-17	10:17	

PLEASE NOTE: Liability and Damages. Cardinal's liability and claims' exclusive remedy for any claim arising with/without based on 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 90 days after completion of the applicable services. 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 remedies or otherwise.

Relinquished By: [Signature] Date: 10-18-10 Time: 8:16
 Received By: [Signature] Date: Time:

Delivered By: (Circle One) UPS 2992 / # 97
 Sampler - UPS - Bus - Other:

* Cardinal cannot accept alternate payment Please fax written changes to (575) 393-2326



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: ConocoPhillips P.O. #: COBC

Project Manager: Justin Wright Company:

Address: City: Hobbs State: NM Zip: 88240 Attn:

Phone #: 575-631-9993 Fax #: Project Owner: COBC Address:

Project #: Project Name: Thomas A. Ullrich Road City: State: Zip:

Project Location: Eddy County, NM Phone #: Fax #:

Sampler Name: Matrix: PRESERV: SAMPLING

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	REMARKS
H803007									
41	SP#33-6'	G		SOIL			10-17		✓ Chlorides
42	SP#33-8'	G		SOIL			10-17		✓
43	SP#34-2'	G		SOIL			10-17		✓
44	SP#34-4'	G		SOIL			10-17		✓
45	SP#34-6'	G		SOIL			10-17		✓
46	SP#34-8'	G		SOIL			10-17		✓
47	SP#35-2'	G		SOIL			10-17		✓
48	SP#35-4'	G		SOIL			10-17		✓
49	SP#35-6'	G		SOIL			10-17		✓
50	SP#35-8'	G		SOIL			10-17		✓

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy, for any claim arising whether inside or out, 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 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, and/or related to the performance of services performed by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Requisitioned By: [Signature]

Date: 10-18-18

Received By: [Signature]

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

Requisitioned By: [Signature]

Date: 10-18-18

Received By: [Signature]

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

Delivered By: (Circle One)

UPS - Bus - Other: 2.99 #97

Sample Condition: Cool Ambient

Checked By: [Signature]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Cardo Phillips		P.O. #: GOR	
Project Manager: Justin Wright		Company:	
Address:		Attn:	
City: Hobbs		Address:	
Phone #: 575-631-9092		City:	
Fax #: _____		State: _____ Zip: _____	
Project #:		Phone #:	
Project Name: James A Waterlood		Fax #:	
Project Location: Eddy County, NM		PRESERV.	
Sampler Name: Justin Wright		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	

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
4803507		G													
51	SPH36-2'	G													Chlorides
52	SPH36-4'	G													
53	SPH36-6'	G													
54	SPH36-8'	G													
55	SPH37-2'	G													
56	SPH37-4'	G													
57	SPH37-6'	G													
58	SPH37-8'	G													
59	SPH38-2'	G													
60	SPH38-4'	G													

PLEASE NOTE: Liability and Damages: Cardinal's liability and clients exclusive remedy for any claim arising whether caused 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 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 remedies or otherwise.

Reinforced By: _____ Date: 10-18-18 Received By: _____
 Date: 2-17-17 Received By: **Scotti Henderson**

Delivered By: (Circle One) **-2902/#97** Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: _____ No Yes

Checked By: _____

REMARKS: _____

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

* Cardinal cannot accept partial payments. Please pay within 30 days to 1-877-302-2922



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <i>Conoco Phillips</i>		P.O. #:
Project Manager: <i>Justin Wright</i>		Company:
Address:		Attn:
City: <i>Hobbs</i>		Address:
State: <i>NM</i> Zip: <i>88240</i>		City:
Phone #: <i>575-431-9092</i> Fax #:		State:
Project #: _____		Zip:
Project Name: <i>James A Water Flood</i>		Phone #:
Project Location: <i>Eddy County, NM</i>		Fax #:
Sampler Name: <i>Justin Wright</i>		
FOR LAB USE ONLY		
Lab I.D.	Sample I.D.	
<i>H803007</i>		
<i>01 SPH 38-6'</i>	<input checked="" type="checkbox"/> (G)RAB OR <input type="checkbox"/> (C)OMP.	
<i>02 SPH 38-8'</i>	# CONTAINERS	
<i>03 SPH 39-2'</i>	GROUNDWATER	
<i>04 SPH 39-4'</i>	WASTEWATER	
<i>05 SPH 39-6'</i>	SOIL	
<i>06 SPH 39-8'</i>	OIL	
	SLUDGE	
	OTHER:	
	ACID/BASE:	
	ICE / COOL	
	OTHER:	
	DATE	
	TIME	
	<i>Chlorides</i>	

PLEASE NOTE: Liability and Damages. Cardinal's liability and extent of coverage is 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 resulting in or related to the performance or non-performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*

Date: *10-18-18*

Received By: *[Signature]*

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

Relinquished By: *[Signature]*

Date: *10-18-18*

Received By: *[Signature]*

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

Relinquished By: *[Signature]*

Date: *10-18-18*

Received By: *[Signature]*

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sample Condition

CHECKED BY: *[Signature]*

Sampler - UPS - Bus - Other: *-2.99c / #97*

Cool / Intact

REMARKS: