

CONOCOPHILLIPS

P.O. Box 2197 Houston, TX 77252-2197 Phone 281.293.1000

APPROVED

By OCD; Dr. Oberding at 12:43 pm, Apr 06, 2015

Vacuum Glorieta East Unit Well #20 (1RP-3333)

Termination Request

API No. 30-025-37850

Release Date: October 19th, 2013

Unit Letter G, Section 32, Township 17S, Range 35E



CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

April 2, 2015

Dr. Tomáš Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

> RE: Termination Request ConocoPhillips Vacuum Glorieta East Unit Well #20 (1RP-3333) UL/G sec. 32 T17S R35E API No. 30-025-37850

Dr. Oberding:

ConocoPhillips (CoP) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 1.5 miles southeast of Buckeye, New Mexico at UL/G sec. 32 T17S R35E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 87 +/- feet.

On October 19th, 2013, CoP discovered that a flow line had corroded resulting in a pin hole, which released 12 barrels of fluid. The well was shut in, the line was repaired and a vacuum truck was called to the site. Five barrels of the released fluid were recovered. NMOCD was notified of the release on October 21st, 2013, and an initial C-141 was sent to NMOCD for their approval. NMOCD approved the initial C-141 on September 16th, 2014 (Appendix A).

RECS personnel were on site to assess the release on December 9th, 2013. The release was mapped and photographed. On September 4th, 2014, verticals were installed at three points within the release (Figure 1). Vertical 1 was installed to a depth of 3 ft bgs, Vertical 2 was installed to a depth of 5.5 ft bgs and Vertical 3 was installed to a depth of 6 ft bgs. Samples were collected every 6 inches at each vertical and field tested for chlorides and organic vapors. Representative samples from each vertical were sent to a commercial laboratory for analysis. At 3 ft bgs, Vertical 1 returned laboratory chloride, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) values below regulatory standards. At 5.5 ft bgs, Vertical 2 returned laboratory chloride, GRO and DRO values below regulatory standards, while Vertical 3 returned laboratory chloride, GRO and DRO values below regulatory standards at 6 ft bgs (Appendix B).

Based on the laboratory analysis, a Corrective Action Plan (CAP) was submitted to NMOCD on September 25th, 2014. NMOCD approved the CAP the same day. The CAP stated that the area around Vertical 1 would be excavated down to 3 ft bgs. Once the excavation was completed, a 5 point bottom composite would be taken and field tested for chlorides and organic vapors. If the field data indicated that the bottom composite would not achieve laboratory chloride, GRO and DRO numbers below regulatory standards, a 20-mil reinforced poly liner would be installed and properly seated into the base of the excavation. If the field data did indicate that the bottom composite would achieve laboratory chloride, GRO and DRO numbers below regulatory standards, the bottom composite would be taken to a commercial laboratory for analysis. Once the laboratory analysis confirmed that the bottom composite achieved laboratory chloride, GRO and DRO numbers below regulatory standards, the excavation would be backfilled with clean soil.

The area around Vertical 2 and 3 showed elevated chloride readings with depth. Given the difficulty of excavating through the hard substrate at the site, the area around Vertical 2 and 3 would be excavated to a depth of 3 ft bgs. At the base of the excavation, a 20-mil reinforced poly liner would be installed and properly seated. The excavation would then be backfilled with clean soil.

There is a buried CoP line running through the center of the release. To provide for the safety of people and equipment at the site, both excavations would remain 5 ft away from this line. All excavated soils would be evaluated for use as backfill and any soils that did not meet regulatory standards would be taken to a NMOCD approved facility for disposal. Clean soil would be imported to the site to replace any soils taken to disposal. A sample of the imported soil would be taken to a commercial laboratory to confirm that the chloride reading was below regulatory standards. The excavations would be backfilled and contoured to the surrounding location. The disturbed area would then be seeded with a blend of native vegetation.

Corrective Actions began at the site on October 13th, 2014. The release was excavated in three portions to 3 ft bgs (Figure 2). All excavated soil, for a total of 1,245 cubic yards, was taken to a NMOCD approved facility for disposal. A total of 1,342 cubic yards of top soil was imported to the site to pad the liners and to serve as backfill. A sample of the imported soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect (Appendix C). The bottoms of the north excavation and the north excavation (2) were padded with 6 inches of the imported top soil to protect the liners from punctures. 20-mil reinforced poly liners were then installed and properly seated into the base of both excavations.

A 5 point bottom composite of the south excavation was taken to a commercial laboratory for analysis. The bottom composite returned a laboratory chloride reading of 192 mg/kg with GRO and DRO readings of non-detect. On October 29th, 2014, a request was sent to NMOCD with the excavation data and a request to backfill the site. NMOCD approved the site to be backfilled the same day. All three excavations were backfilled with the imported top soil and contoured to the surrounding location. On November 7th, 2014, the disturbed area was seeded with BLM mix #2.

Photo documentation of all field activities can be found in Appendix D.

Given that the site was remediated per the NMOCD approved CAP, CoP respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1– Vertical Data and Proposed Corrective Actions

Figure 2 – Excavation Data

Appendix A – Initial C-141

Appendix B – Vertical Sampling Lab

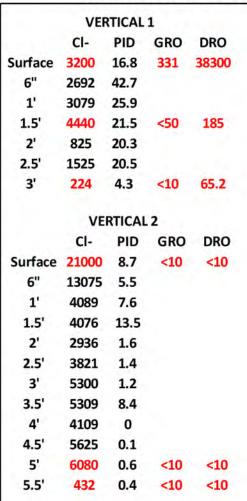
Appendix C – Corrective Action Labs

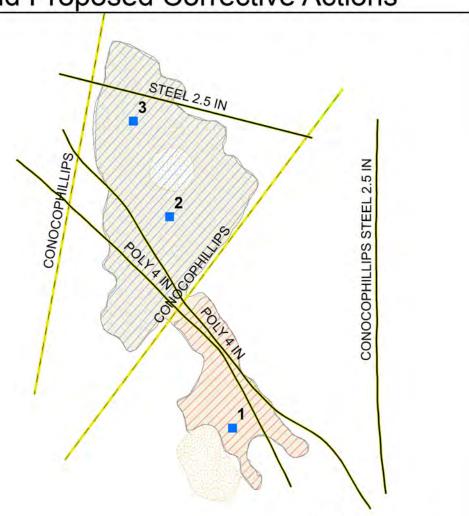
Appendix D – Photo Documentation

Appendix E – Final C-141

Figures

Vertical Data and Proposed Corrective Actions





Legend **VERTICAL BURIED PIPELINE**

CI- FIELD DATA

CI- LAB DATA

SURFACE PIPELINE

PROPOSED 20-MIL POLY LINER AT 3 FT BGS

PROPOSED EXCAVATION TO 3 FT BGS WITH POSSIBLE LINER

SPOIL PILE

STAIN (9,779 sq ft)

LANDOWNER: STATE DGW: 87 ft

CONOCOPHILLIPS VACUUM GLORIETA EAST UNIT WELL #20

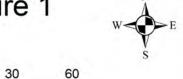
LEGALS: UL/G sec. 32 T-17-S R-35-E LEA COUNTY, NM

CI-PID DRO GRO Surface 22400 4.4 <10 445 6" 9115 0 1' 7933 1.1 1.5 4800 11.6 2' 3548 3.3 2.5' 2984 2.5 3' 1020 5.7 3.5 1323 2.9 4' 2552 0.1 4.5' 2016 0.2 5' 1656 0.9 5.5 2162 0.6 6' 192 0.5 <10 <10

VERTICAL 3



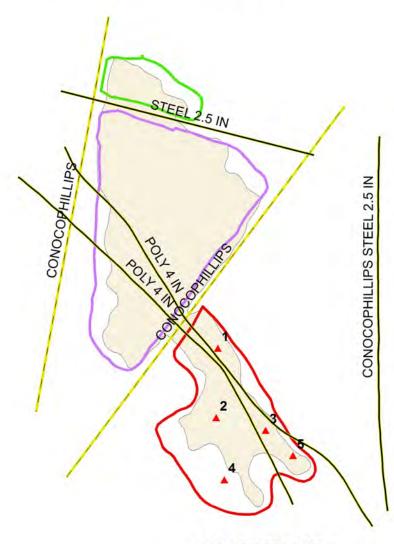
Figure 1



Feet

GPS date: 12/9/13 & 9/3.8/14 CF Drawing date: 9/10/14 Drafted by: L. Weinheimer

Excavation Data



Legend

FINAL SAMPLE POINTS

BURIED PIPELINE

SURFACE PIPELINE

NORTH EXCAVATION (2) AT 3 FT

SOUTH EXCAVATION AT 3 FT

NORTH EXCAVATION AT 3 FT

STAIN (9,779 sq ft)

5 PT. BOTTOM COMP.

CI- GRO DRO

3' 192 <10 <10

CI- FIELD DATA
CI- LAB DATA

LANDOWNER: STATE

DGW: 87 ft

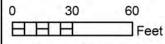


CONOCOPHILLIPS VACUUM GLORIETA EAST UNIT WELL #20

LEGALS: UL/G sec. 32 T-17-S R-35-E LEA COUNTY, NM

Figure 2





GPS date: 12/9/13 & 9/3,8/14 CF Drawing date: 10/30/14 Drafted by: L. Weinheimer

Appendix A Initial C-141

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

Revised August 8, 2011
ubmit 1 Copy to appropriate District Office in

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

,	•		Rele	ease Notific	ation	and Co	rrective A	ction				
	· ·					OPERA				ıl Report	Fina	l Report
Name of Co						Contact: Da						
Address: 29							lo. 575-391-31 0	06				
Facility Nan	ne: Vacui	um Glorieta	East Ur	nit well #020	I	Facility Typ	e: Oil well					
Surface Own	ner: State			Mineral C	wner B	LM			API No	.30025378	50	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County		
G	32	17S	35E	1353	North	•	2260	East		LEA		
Latitude 32	2.7950368	3559814		Longitude · NAT		8661562816 OF RELI		I				
Type of Relea	ase: Spill						Release: 12 BBL		Volume F	lecovered: 5	BBLS	
Source of Re	lease: 2 inc	h flow line				Date and H 10/19/13	our of Occurrence	e .	Date and SAME	Hour of Dis	scovery	
Was Immedia	ate Notice (Given?				If YES, To			DZINI			
	,		Yes [No Not Re	equired	Geoffrey I						
By Whom? D	avid May						our: 10/21/13 12					
Was a Water	course Read	ched?	Yes ∑] No	,	If YES, Vo	lume Impacting t	the Wate	rcourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	+		1		····				
		:			,					, ,		
Describe Cau Release wa				n Taken.* ne due to externa	al corros	sion. MSO S	Shut in well and	lisolate	d flow lin	e until repa	airs can be i	nade
Describe Are Affected are				ken.* be remediated in	place acc	cording to NI	MOCD requireme	ents.				
regulations al public health should their o	I operators or the envi operations had not in a	are required to ronment. The nave failed to addition, NMC	o report as acceptand adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 repo r investigate and r otance of a C-141	elease no ort by the emediate	otifications a NMOCD m contaminati	nd perform correctanced as "Final Roon that pose a threather the operator of	ctive acti leport" d eat to gr responsi	ons for release not release ound water bility for c	eases which ieve the ope r, surface wa ompliance v	may endang trator of liabi ater, human h with any othe	er lity nealth
							OIL CON	SERV	A-HQN	-DIVISIO	<u>)N</u>	
Signature:						-					٠.	
Printed Name	: David M	ay			1	Approved by	Environmental S	pecialist	:			
Title: LEAD	HSE	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	7	Approval Da	e: 4./1./1]	Expiration	Date: //	16.14	
E-mail Addre	ess: david	.d.may@co	onocopi	hillips.com		Conditions of	Approval: The Saylor of E rendered of rude. Son 11.16.14	eme men a	بمعر	Attached	ı 🗆	
Date: 10/21/1	3		Ph	one:575-391-310	6	Nnoch	rude. 5 m	hirf	in	IR	p- 3333	
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p+19 28 056325

$\begin{array}{c} Appendix \ B \\ \text{Vertical Sampling Lab} \end{array}$



September 10, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: VGEU WELL #020

Enclosed are the results of analyses for samples received by the laboratory on 09/09/14 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES
419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/09/2014 Sampling Date: 09/08/2014

Reported: 09/10/2014 Sampling Type: Soil

Project Name: VGEU WELL #020 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COP

Sample ID: VERTICAL 1 @ SURFACE (H402787-01)

Chloride, SM4500CI-B	SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	331	200	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	38300	200	09/09/2014	ND	186	92.9	200	2.47	

Surrogate: 1-Chlorooctane 167 % 65.2-140 Surrogate: 1-Chlorooctadecane 1550 % 63.6-154

Sample ID: VERTICAL 1 @ 1.5' (H402787-02)

Chloride, SM4500Cl-B	B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4440	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	185	50.0	09/09/2014	ND	186	92.9	200	2.47	

Surrogate: 1-Chlorooctane 99.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 118 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/09/2014 Sampling Date: 09/08/2014

Reported: 09/10/2014 Sampling Type: Soil

Project Name: VGEU WELL #020 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COP

Sample ID: VERTICAL 1 @ 3' (H402787-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	65.2	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.3	% 63.6-15	4						

Sample ID: VERTICAL 2 @ SURFACE (H402787-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	97.1	% 63.6-15	i <i>4</i>						

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RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/09/2014 Sampling Date: 09/08/2014

Reported: 09/10/2014 Sampling Type: Soil

Project Name: VGEU WELL #020 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COP

Sample ID: VERTICAL 2 @ 5' (H402787-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	89.2	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	95.2	% 63.6-15	i4						

Sample ID: VERTICAL 2 @ 5.5' (H402787-06)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	88.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES
419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/09/2014 Sampling Date: 09/08/2014

Reported: 09/10/2014 Sampling Type: Soil

Project Name: VGEU WELL #020 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COP

Sample ID: VERTICAL 3 @ SURFACE (H402787-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	445	10.0	09/09/2014	ND	186	92.9	200	2.47	

Surrogate: 1-Chlorooctane 87.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Sample ID: VERTICAL 3 @ 6' (H402787-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	<10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	96.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.0	% 63.6-15	4						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

10	01 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-24	76	(325	6) 6	73-7	7001	F	AX T	(32	0(C	DI.	11	א	2					Д	NAL	YSIS	REQUEST	TT	
ompany Name:	RECS		_	_	_			25-274	0. #		9	-											1 - 1	
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ity: Hobbs		Zip.	004	240				Ad	ddre	ess:	:						-		_	A				
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	and Damages. Cardinal's liability and client's exclusive remedy	-	-	+	+	+		-								I for the								

PLEASE NOTE: Liabelly and Jamages. Larginar's liabelly and client's exclusive remedy for any claim ansing whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and raceived by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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.

enalyses. All claims including those for negligence and any own service. In no event shell Cardinals be fibile for incidental or con-affiliates or successors arising out of or related to the performant Relinquished By:	paquental damages, including to services hereunder by Ca Date: 7-9-20 14 Time: 15 Date:	Redelyed BV:	denson	REMARKS: email: hconder@riceswd.com; kn	; flores@rice-ecs.com;
Delivered By: (Circle One)	Time:	Sample Condi Cool Intact	tion CHECKED BY: (Initials)	ikamplain@rice-ecs.com; sedv	cflores@rice-ecs.com
Sampler - UPS - Bus - Other:		□ No □ N	VO I		

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix C Corrective Action Labs



October 29, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: VGEU WELL #020

Enclosed are the results of analyses for samples received by the laboratory on 10/28/14 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES 419 W. CAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/28/2014 Sampling Date: 10/28/2014

Reported: 10/29/2014 Sampling Type: Soil

Project Name: VGEU WELL #020 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COP

Sample ID: 5 PT. BOTTOM COMP @ 3' (H403312-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/28/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	<10.0	10.0	10/28/2014	ND	196	98.0	200	3.25	
Surrogate: 1-Chlorooctane	77.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.0	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Nam	e: RECS									1	BIL	LL TO	14 70				,	ANAI	LYSIS REQUEST
Project Manager: Laura Flores / Kyle Norman																			
Address: 419	Co	mp	any	:						1	S								
City: Hobbs State: NM Zip: 88240																		o	
Phone #:	ne #: Fax #:									ss:								Ĭ.	
Project #:	Project Owne	r:						Ci	ty:						Σ		I	S/P	
Project Name: 100									ate:			Zip:		Chlorides	5	×	Ū.	l ä	
Project Location: UCEU Well #20								Ph	one	#:				ΙË	ò	BTEX	S	aţi	IDS
Sampler Name:								Fa	x #:] 은	ω ₊	31 2	Texas TPH	Ö	F
FOR LAB USE ONLY	I I	L	Γ		M	ATRI	X	PRESERV. SAME					NG	Ö	TPH 8015		e e	te	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete Cations/Anions	
1	5 Point Bottom Composite @3"	C	1			/				V		10/28/2014	3:00 Pm	X	X				
analyses. All claims includ service. In no event shall	long 10-28-2014 1igner: 25-5	Re	ut limit at, rega	ed unle ation, b	ss mad usiness f wheth By:	le in wri	ting an ptions,	d rece	rived b	or loss	s of pr	ithin 30 days afte ofts incurred by o	r completion of the dient, its subsidiation or otherwise Phone Re Fax Resul REMARKS email rehamment in the conders of the cond	sult: lt: s: esults	□ Ye □ Ye □ Ye □ Ye	S.com	; knor	Add'I 94°	Phone #: Fax #: 2 - 8 5 4 2 @rice-ecs.com; @rice-ecs.com; Iflores@rice-ecs.com
	y: (Circle One)	34	10	(loo	le Co	act			CHI	ECK	ED BY:		imer(@rice	ecs.			nic@rice-ecs.com Porcs @rice-ecs.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





November 03, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: VGEU WELL #020

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/30/2014 Sampling Date: 10/29/2014

Reported: 11/03/2014 Sampling Type: Soil

Project Name: VGEU WELL #020 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: COP

Sample ID: IMPORTED TOP SOIL (H403361-01)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/31/2014	ND	400	100	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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020 Company Name: RECS

r roject manage	· Laura Flores /	Kyle Norman	1						P.	0. #										T T	ZOLO!		_
Address: 419 W Cain										omn	any	-											
City: Hobbs										tn:	u,	_							Sn				
Phone #:	Fax #:								1	dre	66.								9.				
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Project Name:	Conoco Philli	0 <								ate:			7in:		S	Σ		프			11		
Project Location: UGEU Well #20										one			Zip:		Chlorides	TPH 8015	BTEX	Texas TPH	0.	(n)			1
Sampler Name: Chylic Flores									x #:					o	8	12	SE	at	TDS				
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Lab I.D. H40336	Sample		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE			OL	OTHER:	DATE	TIME		TF		Te	Complete Cations/Anions				
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BILL TO

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix D Photo Documentation

ConocoPhillips Vacuum Glorieta East Unit Well #20 Unit Letter G, Section 32, T17S, R35E



Initial site photo, facing west

12/9/13



Initial site photo, facing east





Initial site photo, facing south

12/9/13



Initial site photo, facing southeast

12/9/13



Sampling release, facing south





Installing verticals, facing northwest

9/8/14



Auguring for depth, facing east

12/9/13



Excavating to 3 ft bgs, facing northwest

10/14/14



Exporting soil, facing northwest

10/20/14



Excavating to 3 ft in the south, facing northwest 10/28/14



North excavation completed, facing northeast 10/28/14



North excavation (2) completed, facing northeast 10/29/14



Importing top soil to pad for liner, facing north 10/29/14



North excavation padded with imported soil and installing liner, facing southeast 10/29/14



Padding north excavation for liner installation, facing northeast 10/29/14



Liner installation completed, facing southwest 10/29/14



Padding north excavation (2) for liner installation, facing east 10/29/14



South excavation completed, facing northwest 10/29/14



Liner installation in north excavation (2) completed and begin backfilling, facing southwest 10/29/14



Backfilling the north excavation, facing north 10/30/14



Importing soil, facing east

10/30/14



Backfilling south excavation, facing northeast 11/7/14



North excavation backfilled, facing northeast 11/6/14



Site backfilled, facing southeast

11/7/14



Site backfilled, facing northwest

11/7/14



Seeding site, facing southeast

11/7/14



Site completed, facing southeast

11/7/14



11/7/14

Appendix E

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
ubmit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action															
						OPERA'			☐ Initial Report ☐ Final Report						
Name of Co	mpany (ConocoPhilli	ps			Contact	Kaaad								
		Complex La				Telephone No.									
Facility Nar	ne Vacuu	m Glorieta E	East Unit	well #020		Facility Type Oil well									
Surface Ow	ner State			Mineral C)wner	BLM			API No	. 3002537	7850				
,				LOCA	TIOI	OF RE	LEASE								
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	West Line		-				
G G	32	17S	35E	1353		North	2260	E	East	Lea	Lea				
			Latitud	e_32.79503685	59814	_ Longitud	e103.4786615	562816							
NATURE OF RELEASE															
Type of Rele						Volume of	Release 12 BBI	LS	Volume F	Recovered :	5 BBL	S			
Source of Re	lease 2 inc	h flow line				Date and F 10/19/13	Iour of Occurrence	ee	Date and	Hour of Dis	covery	SAME			
Was Immedia	ate Notice (37			If YES, To	Whom?	-							
By Whom?	David Max		Y es _	No Not Re	equired										
Was a Water						Date and Hour 10/21/13 12:00 pm If YES, Volume Impacting the Watercourse.									
			Yes 🛚	No		11 120, volume impacting the watercourse.									
If a Watercou	ırse was Im	pacted, Descri	ibe Fully.*	:											
	Describe Cause of Problem and Remedial Action Taken.*														
Release was	caused by p	in hole in Flo	w line due	to external corro	sion. M	OS Shut in w	rell and isolated fl	ow line	until repair	s could be n	nade.				
Describe Are	a Affected	and Cleanup A	Action Tak	en.* The release	e covere	d 9,779 squar	e feet of pasture l	and. R	ECS person	nel were on	site be	ginning on			
September 4°	", 2014 to a	ssess the relea	se. Three	vertical were inst	talled wi	thin the relea	se area at the surf tory analysis, a C	face and	with denth	Represent	ative s	amples from			
2014. NMO	CD approve	d the CAP the	e same day	 Corrective Act 	ions beg	an at the site	on October 13 th , 2	2014. T	he release	was excavat	ed in th	ree portions			
to 3 ft bgs. A	Il excavate	d soil, for a to	tal of 1,24	5 cubic yards, wa	is taken	to a NMOCE	approved facility	for dis	posal. A to	tal of 1.342	cubic y	vards of ton			
returned a ch	orted to the loride value	site to pad the	liners and	to serve as back	fill. A s excavat	ample of the	imported soil was orth excavation (2	taken t	o a comme	cial laborate	ory for	analysis and			
soil to protec	t the liners t	from puncture	s. 20-mil	reinforced poly li	ners we	re then install	ed and properly s	eated in	to the base	of both exca	avation	s A 5 point			
bottom comp	osite of the	south excavat	ion was ta	ken to a commer	cial labo	ratory for an	alysis. The botton	n comp	osite return	ed a laborate	ory chl	oride reading			
backfill the s	ite. NMOC	and DRO read D approved the	aings of no	on-detect. On Oc e backfilled the s	tober 29 ame dav)", 2014, a re	quest was sent to ecavations were b	NMOC.	D with the	excavation of	lata and	1 a request to			
to the surrour	nding locati	on. On Novei	mber 7 ^{tn} , 2	014, the disturbe	d area w	as seeded wit	th BLM mix #2.								
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to the	ne best of my	knowledge and u	indersta	nd that purs	suant to NM	OCD r	ules and			
public health	or the envi	are required to	o report an acceptanc	id/or file certain r	elease n	otifications a NMOCD m	nd perform correct arked as "Final R	ctive act	ions for rel	eases which	may en	ndanger			
should their of	perations h	ave failed to a	adequately	investigate and r	emediate	e contaminati	on that pose a thr	eat to g	round water	r, surface wa	ter, hu	man health			
or the environ	nment. In a	ddition, NMC vs and/or regu	CD accep	tance of a C-141	report d	oes not reliev	e the operator of	respons	ibility for c	ompliance v	vith any	y other			
		/1/	,	2		OIL CONSERVATION DIVISION									
Signature:	San	- /hrh-	\supset			4									
Printed Name	SEL	x 16	SINGEN			Approved by	Environmental S	pecialis	cialist:						
Title:	DERATIE	ins 3	LARLY,	For		Approval Da	te:	Date:							
E-mail Addre	ess: stra	bin @ G	y. Ce	3M		Conditions o	f Approval:			A44-1-1					
7-2	7-15			ETS 2913	147					Attached					