SITE INFORMATION

	F	Report Type: C	Closure Re	port 1R	P-2525	
General Site In	formation:			-		
Site:		Vacuum Abo Batte	ery #3 Suction	Line Relea	se (nGRL10	13332423)
Company:		ConocoPhillips				
Section, Towns	ship and Range	Unit Letter M	Sec. 34	T 17 S	R 35 E	
Lease Number:	:	Associated API No	b. 30-025-0301 1			
County:		Lea				
GPS:		3	2.787669°			-103.450060°
Surface Owner		State				
Mineral Owner:		State				miles. Turn right (west) onto W A
Directions:						est) onto Buckeye Rd for 5.3 miles oft (south) for 0.7 miles. Site will be
Date Released:		5/2/2010				
Date Released: Type Release:		Produced Water				
Release Data: Date Released: Type Release: Source of Conta	amination:	Produced Water Steel suction line				
Date Released: Type Release: Source of Conta Fluid Released:	amination:	Produced Water Steel suction line 21 bbls				
Date Released: Type Release:	amination:	Produced Water Steel suction line				
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere	amination: ed:	Produced Water Steel suction line 21 bbls				
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere	amination: ed:	Produced Water Steel suction line 21 bbls			Christian N	л. Llull
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Commu Name:	amination: ed: unication:	Produced Water Steel suction line 21 bbls 10 bbls			Christian M Tetra Tech	
Date Released: Type Release: Source of Conta Fluid Released:	amination: ed: unication: Marvin Soriwei Conoco Phillips -	Produced Water Steel suction line 21 bbls 10 bbls RMR			Tetra Tech	1
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Commu Name: Company:	amination: ed: unication: Marvin Soriwei	Produced Water Steel suction line 21 bbls 10 bbls RMR			Tetra Tech 8911 North	n n Capital of Texas Highway
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Commu Name: Company: Address:	amination: ed: unication: Marvin Soriwei Conoco Phillips - 935 N. Eldridge F	Produced Water Steel suction line 21 bbls 10 bbls RMR Pkwy.			Tetra Tech 8911 North Building 2,	n n Capital of Texas Highway Suite 2310
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Commu Name: Company: Address: City:	amination: ed: unication: Marvin Soriwei Conoco Phillips - 935 N. Eldridge F Houston, Texas 7	Produced Water Steel suction line 21 bbls 10 bbls RMR Pkwy.			Tetra Tech 8911 North Building 2, Austin, Te	n n Capital of Texas Highway Suite 2310 xas
Date Released: Type Release: Source of Conta Fluid Released: Fluids Recovere Official Commu Name: Company: Address:	amination: ed: unication: Marvin Soriwei Conoco Phillips - 935 N. Eldridge F	Produced Water Steel suction line 21 bbls 10 bbls RMR Pkwy.			Tetra Tech 8911 North Building 2,	n n Capital of Texas Highway Suite 2310 xas

Site Characterization		
Shallowest Depth to Groundwater:	60' below surface	
Impact to groundwater or surface water:	No	
Extents within 300 feet of a watercourse:	No	
Extents within 200 feet of lakebed, sinkhole, or playa lake:	No	
Extents within 300 feet of an occupied structure:	No	
Extents within 500 horizontal feet of a private water well:	No	
Extents within 1000 feet of any water well or spring:	No	
Extents within incorporated municipal well field:	No	
Extents within 300 feet of a wetland:	No	
Extents overlying a subsurface mine:	No	
Karst Potential:	Low	
Extents within a 100-year floodplain:	No	
Impact to areas not on a production site:	No	

Recommended Remedial Action Levels (RRALs)				
Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	N/A	100 mg/kg	600 mg/kg



March 19, 2021

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Release Characterization and Closure Request ConocoPhillips Vacuum Abo Battery #3 Suction Line Release Unit Letter M, Section 34, Township 17 South, Range 35 East Lea County, New Mexico 1RP-2525 Incident ID nGRL1013332423

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to evaluate a historical release that occurred at the Vacuum Abo Battery #3, Unit Letter M, Section 34, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The well listed in the C-141 (Appendix A) is the Vacuum Abo Unit #005 (API # 30-025-03011) and its coordinates are 32.7849541°, -103.4530258°. This well is located approximately ¼ mile southwest of the battery site. The coordinates of the approximate release point are 32.787669°, -103.450060°. The site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, on May 2, 2010, COP was notified that a release occurred at the Site. The release originated from a 2" split on a 6" steel suction line. Approximately 21 barrels (bbls) of produced water were released to an area of caliche pad and the adjacent pasture. Vacuum trucks were called to the Site and recovered 10 bbls of produced water. New Mexico Oil Conservation Division (NMOCD) was notified of the release on May 3, 2010. NMOCD approved the initial C-141 on May 12, 2010 and assigned the release Remediation Permit (RP) number 1RP-2525 and Incident ID nGRL1013332423. The initial C-141 form is included in Appendix A.

Based on the location and extent of the release, it was determined that the majority of the release footprint associated with 1RP-2525 was encompassed by a subsequent release incident footprint (1RP-3555) that occurred on March 3, 2015.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is in a low karst potential area.

ConocoPhillips

Release Characterization and Closure Request March 19, 2021

According to the NMOSE reporting system, there are eight (8) water wells within 800 meters (approximately $\frac{1}{2}$ mile) of the Site with average groundwater documented at 60 feet below ground surface (bgs). The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL	
Chloride	10,000 mg/kg	
TPH	2,500 mg/kg	
BTEX	50 mg/kg	

Additionally, in accordance with the NMOCD guidance Procedures for Implementation of the Spill Rule (19.15.29 NMAC) (September 6, 2019), the following reclamation RRALs for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

INITIAL SITE ASSESSMENT

Post-release, BBC International, Inc. (BBC) were onsite to map and visually assess the release footprint. Based on email correspondence between Mr. Cliff Brunson of BBC and Tetra Tech, BBC personnel were at the Site on May 7, 2010 to conduct a visual inspection of the release area (See Appendix C for email correspondence) and map the extent. BBC drafted an approximate release extent, a figure with assessment locations, and documented the release footprint with photographs (Appendix D). As mapped by BBC, the approximate release footprint extended east from the southeast battery firewall onto the production pad and drained into a culvert. Once through the culvert, the release extended east into the adjoining pasture. The release extent, as reported by BBC, encompassed approximately 15,500 square feet.

Per documented information, additional soil sampling locations were indicated on the figure provided by BBC (Appendix C), however, no analytical data was provided as associated with these reported locations. BBC did conduct documented site assessment activities in June and July 2011. Per provided information, White Drilling Company, Inc. (White) drilled three (3) soil borings (SB-1 through SB-3) within the release extent. SB-1 and SB-3 were extended to a depth of 55 ft bgs with samples collected at varying depths. SB-2 was extended to a depth of 50 ft bgs with six (6) samples collected at varying depths. The approximate release extent and soil boring locations are shown in Figure 3. Soil boring logs from the assessment activities are included in Appendix E.

A total of eighteen (18) soil samples were collected from the three soil borings and sent to Cardinal Laboratories (Cardinal). Soil samples were analyzed for chlorides via Standard Method SM4500CI-B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

Release Characterization and Closure Request March 16, 2021

ConocoPhillips

SUMMARY OF SAMPLING RESULTS

Results from the 2011 soil sampling event are summarized in Table 1. The sample intervals collected from these borings begin at the 10' bgs interval, which appears to indicate that the undocumented assessment data provided characterization of the upper soils within the footprint. Nonetheless, the analytical results associated with the SB-2 and SB-3 boring locations did provide vertical delineation of the release for chloride. Although, there were no analytical results for neither TPH nor BTEX from these boring locations, the following sections describe the ensuing remedial activities conducted in the area for the affected surface soils.

SUMMARY OF 1RP-3555 ACTIVITIES

Subsequent to the 1RP-2525 release event, COP was notified on March 3, 2015 that approximately 34 barrels (bbls) of oil and 2,240 bbls of produced water were released to a large area of caliche pad and adjacent pastureland associated with the Vacuum Abo Battery #3 production pad site. Vacuum trucks were called to the Site and recovered 28 bbls of oil and 1,837 bbls of produced water. New Mexico Oil Conservation Division (NMOCD) was notified of the release on March 4, 2015. NMOCD received the initial C-141 on March 5, 2015 and it is associated 1RP-3555. The incident ID for this release is NTO1506430213. This release footprint was much larger than the 1RP-2525 footprint.

Release Assessment

Basin Environmental Service Technologies (Basin) was retained by COP in 2015 to visually assess and define the extent of soils impacted by the release. Basin personnel were on site to map the release extents on March 4, 2015. GHD Environmental and Consulting Inc. (GHD) was retained by COP in 2015 to complete an initial soil assessment at the Site. In August 2015, GHD personnel collected soil samples from 46 soil boring locations to delineate impacted soils in the vicinity of the release area. A total of 65 soil samples were submitted to Pace Analytical, and selected samples were analyzed for TPH, BTEX and chloride. Based on the analytical results, GHD submitted an initial soil assessment report that was received by NMOCD on December 10, 2015.

Basin was then again retained by COP in 2016 to further assess and delineate the release. On February 9, 2016, four (4) verticals were installed and soil samples were taken at regular depth intervals. Additionally, Basin installed two (2) soil borings on February 11, 2016. A total of seven (7) soil samples were collected at regular depth intervals from these borings. Soil samples collected from February 9 and February 11, 2016 were submitted to Cardinal Laboratories to be analyzed for TPH and chloride.

Corrective Action Plan and Remediation

Based on the analytical results associated with the site assessments, COP submitted a Corrective Action Plan (CAP) to NMOCD on February 19, 2016. Email correspondence, found on the NMOCD Imaging website, between NMOCD and Basin states that the original CAP required increased depth of excavation. Thus, an addendum to the CAP was submitted on March 11, 2016. The addendum was approved by NMOCD on March 30, 2016

Basin began remedial activities of the 1RP-3555 release in June 2016. In accordance with the NMOCDapproved CAP, the pastureland southeast of the production pad associated with 1RP-3555 release were excavated to a depth of 4 ft bgs. At the base of the excavation, a 20-mil reinforced poly liner was installed and properly seated.

All excavated soil was exported to a NMOCD-approved facility for disposal. Clean topsoil was imported to the Site to be used as backfill in the pasture areas. A sample of the imported material was submitted to Cardinal Laboratories for chloride analysis as prescribed in the CAP. The imported soil sample returned a chloride value of <16.0 kg/mg. Site was then backfilled with imported material and contoured to the surrounding area. Photographs from 1RP-3555 remedial activities are found in Appendix D.

ConocoPhillips

Release Characterization and Closure Request March 16, 2021

Deferral Request for 1RP-3555/NTO1506430213

A Deferral Request addressing the 1RP-3555 release was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on May 8, 2020 with fee application payment PO Number 44CQS-200508-C-1410. The Deferral Request described the results of the remediation and requests deferral of the impacted area of lease pad and within the earthen containment berm.

VISUAL SITE INVESTIGATION

On behalf of COP, Tetra Tech personnel conducted a Visual Site Investigation on June 8, 2020 for the release associated with 1RP-2525. The site investigation revealed no evidence of staining on-pad or in the pasture within the assumed release footprint. The areas of the pasture east of the battery/production pad were addressed during work performed under the 1RP-3555 remedial activities (Figure 4) and show no signs of staining. The impacted pasture east of the production pad was wholly addressed with the remedial activities associated with 1RP-3555. Photographs from the site investigation are located in Appendix D.

CONCLUSION

As detailed above, the release associated with 1RP-3555 was delineated and was remediated in accordance with the NMOCD-approved CAP. Remedial activities associated with 1RP-3555 largely consumed the preceding release extent, 1RP-2525. As described above, the deferral request for 1RP-3555 was previously submitted to the NMOCD on May 8, 2020.

Based on the above, ConocoPhillips respectfully requests closure of this release based on the remediation and assessment activities performed, as well as the fact that the deferral request remains valid for any remaining contamination at the Site. The completed C-141 forms are enclosed in Appendix A. If you have any questions or comments concerning this report, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely, **Tetra Tech, Inc.**

Christian M. Llull, P.G. Project Manager

cc: Mr. Marvin Soriwei, RMR – ConocoPhillips Mr. Charles Beauvais, GPBU - ConocoPhillips

stil

Greg W. Pope, P.G. Program Manager

Release Characterization and Closure Request March 16, 2021

List of Attachments

Figures:

Figure 1 – Site Location Map

Figure 2 – Topographic Map

Figure 3 – Release Extent and Site Assessment

Figure 4 – Site Location and Areas of Remediation

Tables:

Table 1 – Summary of Analytical Results – BBC Assessment Sampling Events

Appendices:

Appendix A – Final C-141 Forms

Appendix B – Site Characterization Data

Appendix C – BBC Email Correspondence & Documents

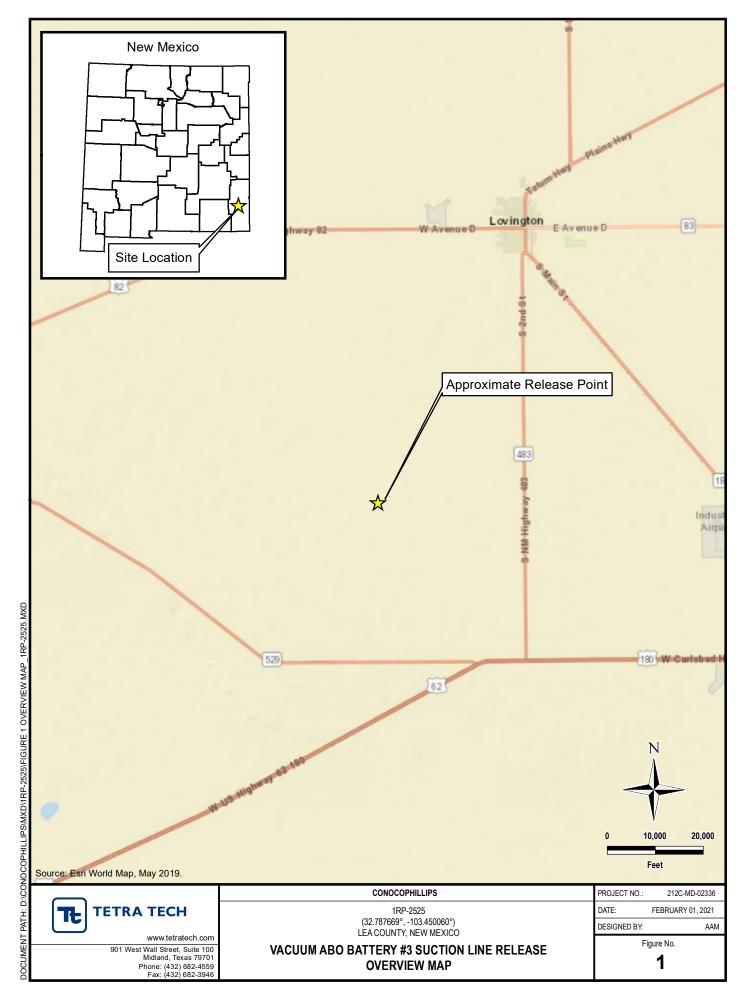
Appendix D – Photographic Documentation

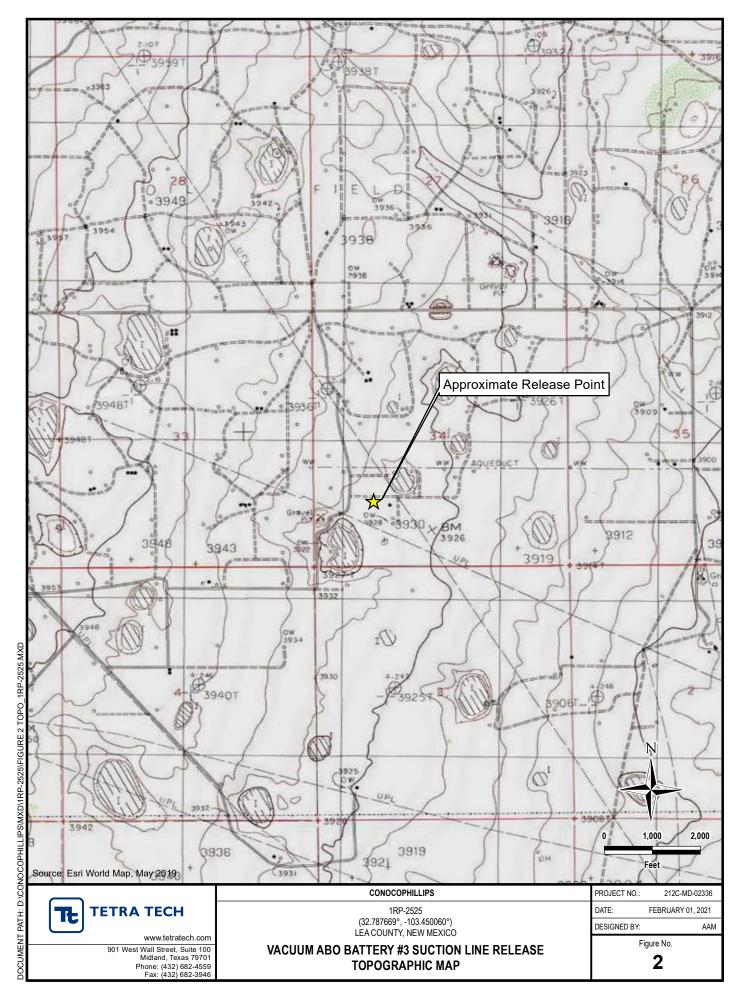
Appendix E – Boring Logs

Appendix F - Confirmation Laboratory Analytical Data

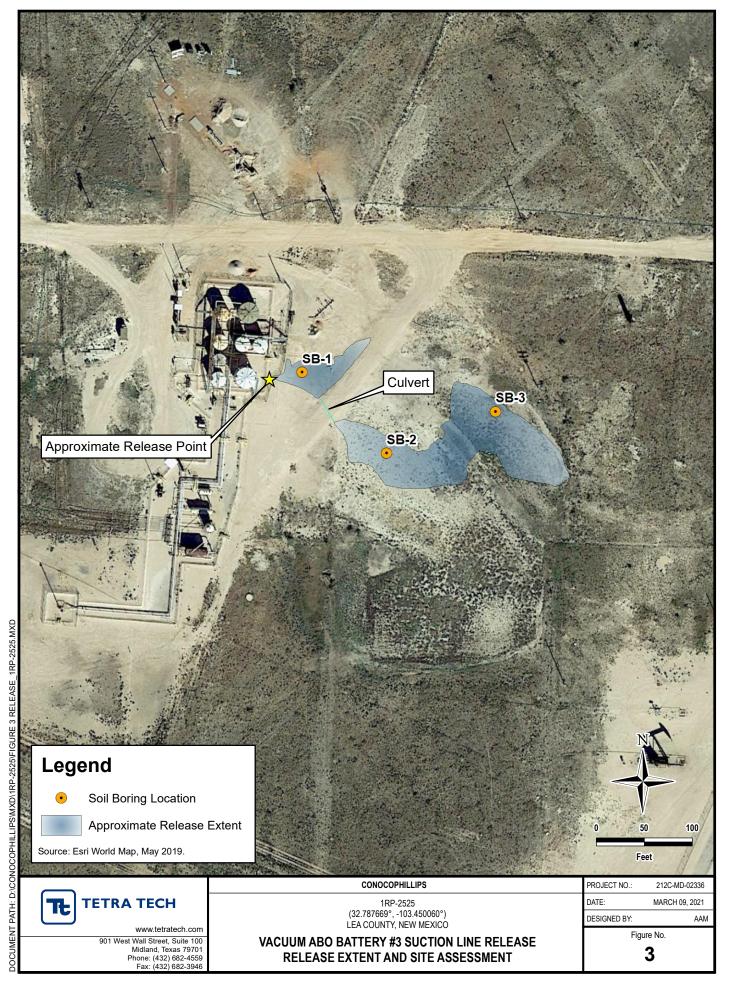
ConocoPhillips

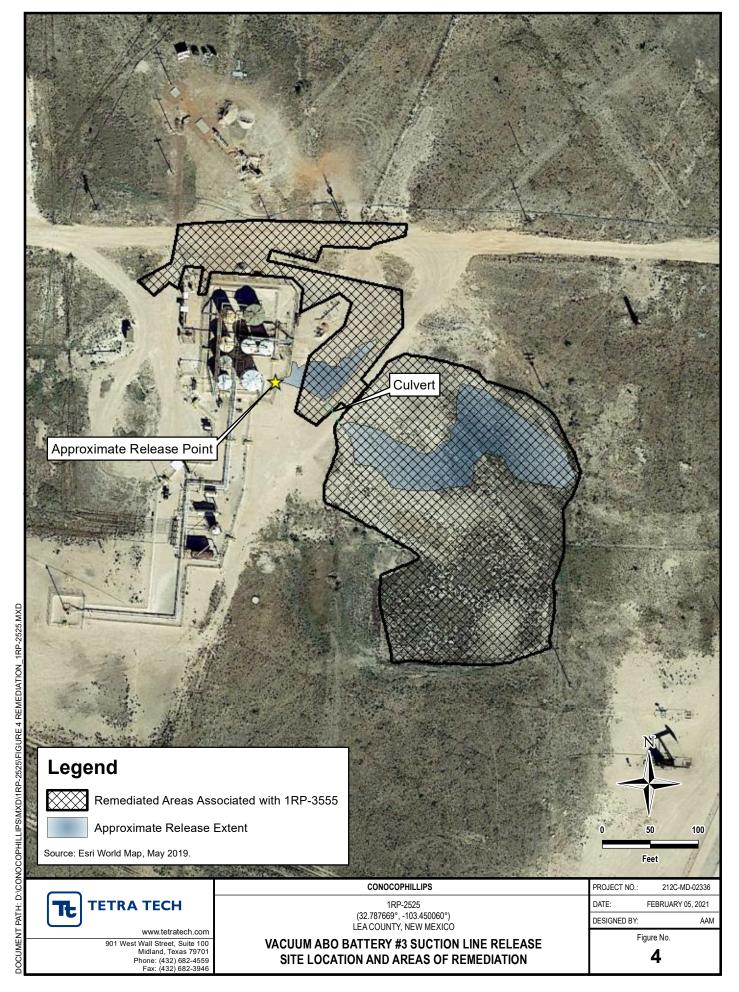
FIGURES





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TABLES

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS 2011 SOIL ASSESSMENT - 1RP-2525 CONOCOPHILLIPS VACUUM ABO BATTERY #3 SUCTION LINE RELEASE LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹
		ft. bgs	mg/kg Q
		10	2080
		20	976
SB1	6/20/2011	30	800
201	6/20/2011	40	1780
		50	2280
		55	2480
	7/25/2011	10	128
		20	64.0
SB2		30	368
3D2	7/25/2011	40	288
		45	144
		50	96.0
	7/25/2011	10	704
		20	848
600		30	416
SB3		40	480
		50	112
		55	64.0

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

1 Method 4500Cl-B

.

APPENDIX A C-141 Forms

ceived by OCD: 3/19/2021 12:27:34 PM	Page 15 of 57
RECEIVEN	
District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210	of New Mexico als and Natural Resources Form C-141 Revised October 10, 2003
1000 G G E D G · E ND (08505	with Rule 1 to on back
Sana	ion and Corrective Action
	DPERATOR Initial Report Final Report
Name of Company ConocoPhillips Company	Contact John W. Gates
Address 3300 North A St. Bldg 6, Midland, TX 79705-5400 Facility Name East VAC ABO Battery # 3	6 Telephone No. 505.391.3158 Facility Type Oil and Gas
```````````````````````````````````````	
	NEARBY WELL VAC ABO UNIT 005
Unit Letter Section Township Range Feet from the N	ION OF RELEASE AP ( # 30.025 030) ( 06.00 orth/South Line Feet from the East/West Line County
8 M 29 34 178 35E	Lea
	2 Longitude W 102 Document 27 000
Latitude N 32 Degrees 47.26	
	RE OF RELEASE       Volume of Release       Volume Recovered
	<b>21</b> bbl ( <b>0</b> oil, <b>21</b> water)( <b>0</b> oil, <b>10</b> water)Date and Hour of OccurrenceDate and Hour of Discovery
	5-2-10 0600 5-2-10 0925
	f YES, To Whom?
	Date and Hour
Was a Watercourse Reached?	f YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	
Describe Cause of Problem and Remedial Action Taken.*	WATER (G) 65.
2" split on bottum of 6" steel suction line due to suspected	internal corrosion. A work order has been generated to make necessary
repairs.	
Describe Area Affected and Cleanup Action Taken.* <b>A</b> 75' X 54' X 2" area of pasture land and a 45' X 40' X 2"	area of caliche pad. A vacuum truck was called and was able to recover
	Remediated in accordance with an agreement with NMOCD.
	to the best of my knowledge and understand that pursuant to NMOCD rules and use notifications and perform corrective actions for releases which may endanger
public health or the environment. The acceptance of a C-141 report b	y the NMOCD marked as "Final Report" does not relieve the operator of liability
	ediate contamination that pose a threat to ground water, surface water, human health ort does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
an On 11 At	OIL CONSERVATION DIVISION
Signature: JPUn W. Nats	Approved by District Supervisor:
Printed Name! John W. Gates	Stepferey Jelems
Title: HSER Lead	Approval Date: 05/12/10 Expiration Date: 07/12/10
E-mail Address: John.W.Gates@conocophillips.com	Conditions of Approval: SUBMIT FINAL Attached
Date: 5-3-2010 Phone: 505.391.3158	C-141 BY 07/12/10 IRP-10-5-2525

Attach Additional Sheets If Necessary •

Page 3

## Site Assessment/Characterization

Incident ID

District RP Facility ID Application ID

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 3/19/20	021 12:27:34 PM			Page 17 of 57
101111 C-141	State of New Mexico		Incident ID	
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Signature:	ormation given above is true and complete to the e required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C gate and remediate contamination that pose a thre of a C-141 report does not relieve the operator of	ifications and perform cc OCD does not relieve the eat to groundwater, surfa responsibility for compl _ Title: Date:	prrective actions for rele coperator of liability sho ce water, human health iance with any other feo	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
email:		Telephone:		
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

tems must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
C District office must be notified 2 days prior to final sampling)		
te to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.		
_ Title: Date:		
Date:		
Telephone:		
Date:		
of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.		
Date:		
Title:		

## APPENDIX B Site Characterization Data



# 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.)	been O=orp	OD has replace ohanec e file is d)	ed, I, ( ¹	•					2=NE 3 st to lar	3=SW 4=SE gest) (N	E) AD83 UTM in me	eters)	(	In feet)	
		POD													
POD Number	Code	Sub-	County		Q 16		Sec	Tws	Rna	х	Y	Distance	-	Depth Water	Water Column
L 04618	0040	L	LE	•		3		17S	-	644973	3628611* 🌍	263	128	55	73
L 05834	R	L	LE	2	2	4	33	17S	35E	644663	3629109* 🌍	565	160	70	90
L 05834 POD5		L	LE	2	2	4	33	17S	35E	644663	3629109* 🌍	565	234	65	169
L 04727		L	LE				34	17S	35E	645576	3629214* 🌍	590	120	45	75
<u>L 04793</u>		L	LE				34	17S	35E	645576	3629214* 🌍	590	150	50	100
<u>L 04633</u>		L	LE		2	4	33	17S	35E	644564	3629010* 🌍	613	130	65	65
L 05834 POD6		L	LE	1	1	4	34	17S	35E	645673	3629122* 🌍	613	234	65	169
L 04775		L	LE		4	1	34	17S	35E	645365	3629421* 🌍	648	133	68	65
											Avera	ge Depth to	Water:	60	feet
												Minimum	Depth:	45	feet
												Maximum	Depth:	70	feet
Record Count: 8															

#### UTMNAD83 Radius Search (in meters):

Easting (X): 645144

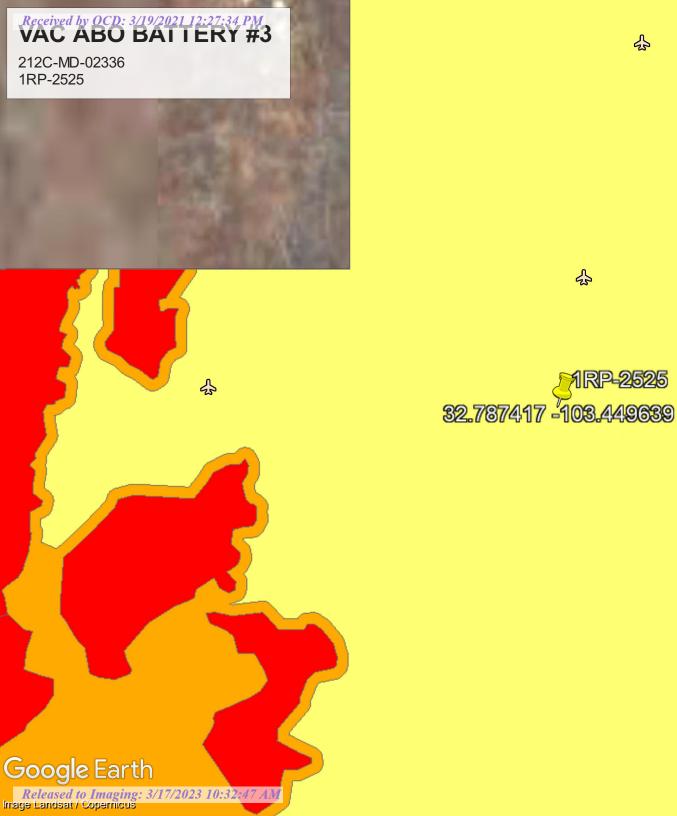
Northing (Y): 3628811

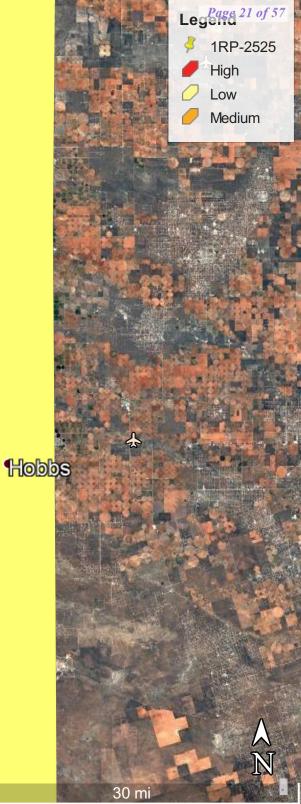
Radius: 800

#### *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.

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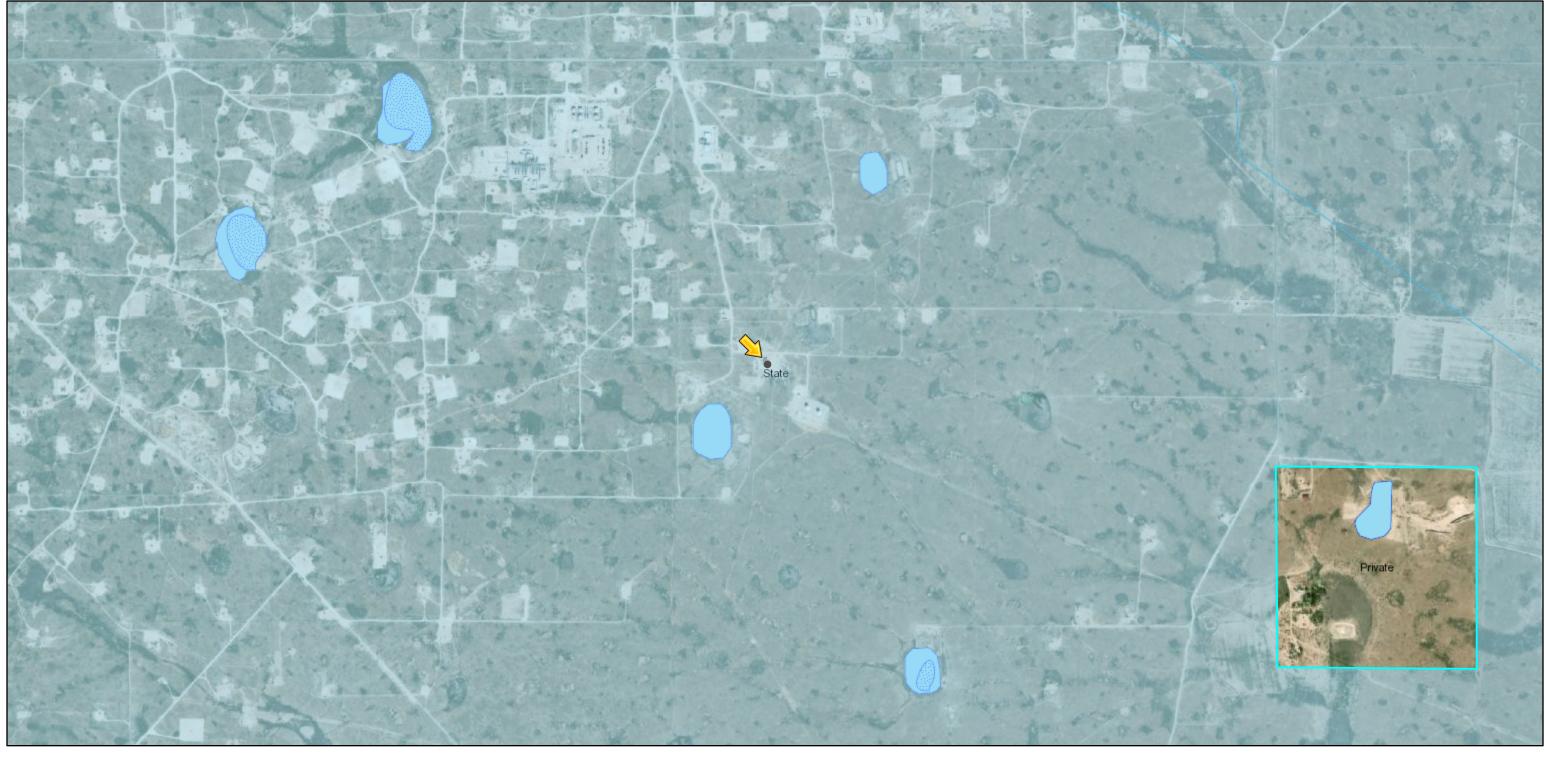
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71RP-2525

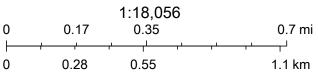
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# 1RP-2525







U.S. BLM, USDA FSA, GeoEye, Maxar, OCD

## APPENDIX C BBC Email Correspondence & Documents

### Myler, John

From:	Llull, Christian
Sent:	Wednesday, January 13, 2021 12:18 PM
То:	Myler, John
Subject:	FW: Request for available information - ConocoPhillips release 1RP-2525
Attachments:	Vac Abo #3-1.pdf; H101299 BBC.pdf; H101578 BBC.pdf; East Vac Abo Btry #3 - Drwg.pdf; Drilling
	Logs.pdf; Blue track.kmz; Red Track.kmz

### 212C-MD-02336

Vacuum Abo Battery 3 1RP-2525

Christian

From: Abbott, Sam
Sent: Friday, January 08, 2021 3:51 PM
To: Llull, Christian <Christian.Llull@tetratech.com>
Subject: FW: Request for available information - ConocoPhillips release 1RP-2525

From: Cliff Brunson <<u>cbrunson@bbcinternational.com</u>>
Sent: Friday, January 8, 2021 3:44 PM
To: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Subject: RE: Request for available information - ConocoPhillips release 1RP-2525

A CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Sam,

I apologize for the delay. I ended up taking last week off as well so I just got back in my office this week. It appears we did some soil borings and a few soil samples at this site, but we didn't conduct the remediation. Our file is limited so I don't remember what happened with this site going forward. I have attached pictures from the leak, lab data for the borings, drilling logs for the borings, a site drawing, and two .kmz files of the track of the spill. It started at the battery and then ran into a culvert under the road and continued into the pasture.

I am not sure how helpful this information will be, but hopefully it helps you. I am sorry that I can't remember what happened next after our sampling event. Maybe Justin will remember.

Let me know if I can help any further. Good luck!

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805

### Received by OCD: 3/19/2021 12:27:34 PM

Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: <u>cbrunson@bbcinternational.com</u>



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From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Sent: Thursday, January 7, 2021 9:09 AM
To: Cliff P. Brunson <<u>cbrunson@bbcinternational.com</u>>
Subject: RE: Request for available information - ConocoPhillips release 1RP-2525

Good morning Cliff,

I just wanted to follow up on this request. I hope you had a relaxing holiday, and happy New Year!

Sam

From: Abbott, Sam
Sent: Monday, December 21, 2020 2:19 PM
To: Cliff P. Brunson < cbrunson@bbcinternational.com
Subject: RE: Request for available information - ConocoPhillips release 1RP-2525</pre>

Cliff,

That would be great, thank you. Enjoy your week!

Sam

From: Cliff P. Brunson <<u>cbrunson@bbcinternational.com</u>
Sent: Monday, December 21, 2020 2:11 PM
To: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>
Subject: Re: Request for available information - ConocoPhillips release 1RP-2525

**CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments.

Sam,

I am out of my office this week and don't have access to our server to see if that is a site we worked on. I will be back next week and check and follow up with you then.

Happy Holidays!

Cliff

Sent from my iPhone

On Dec 21, 2020, at 1:52 PM, Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>> wrote:

Good afternoon,

My name is Sam Abbott and I am a geologist at Tetra Tech working with ConocoPhillips to help administratively close old release sites that have already had work performed. One of these sites is Vac Abo Battery #3 (1RP-2525) from May 2010. Justin Wright of COP had verbally mentioned that he thought that BBC had performed assessment work at this site.

The initial C-141 for this release is attached. This is the only documentation for this release on file with the NMOCD. I was wondering if BBC does have any documentation of assessment work performed at this site? Please email me back or call at 512-739-7874 with any information you could provide, any assistance would be greatly appreciated.

Thank you for your time, and happy holidays! Sam

Samantha Abbott, PG | Senior Staff Geoscientist Direct +1 (512) 338-2852 | Business +1 (512) 338-1667 | Mobile +1 (512) 739-7874 | Sam.Abbott@tetratech.com

**Tetra Tech, Inc.** | *Leading with Science*[®] | OGA 8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

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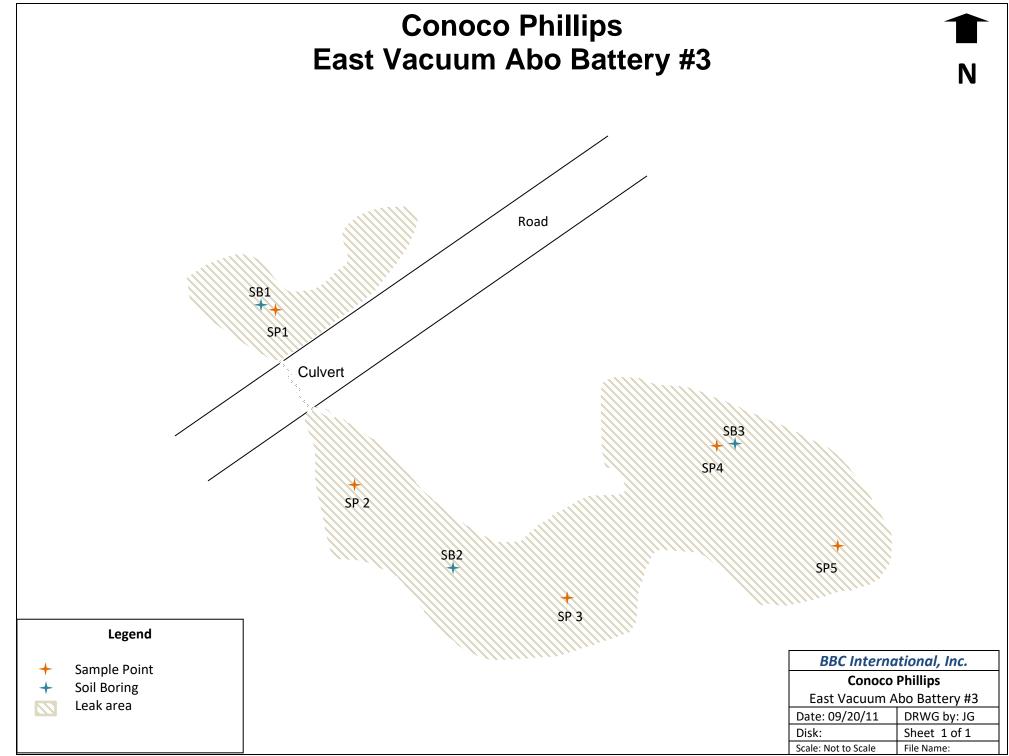
#### <image001.png>

<image002.png>

<image003.png>

<image004.png> Please consider the environment before printing. <u>Read more</u> <image005.png>

<1RP-2525 C-141.pdf>



**Released to Imaging: 3/17/2023 10:32:47 AM** 

## APPENDIX D Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing west of release point and clamp.	1
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	5/7/2010



TETRA TECH, INC.	DESCRIPTION	View facing northeast of release point.	2
PROJECT NO. 212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	5/7/2010



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northeast of release area (Note Culvert).	3
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	5/7/2010



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest of release area.	4
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	5/7/2010



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southwest of east side of culvert.	5
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	5/7/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02336	DESCRIPTION	View northwest. 1RP-3555 excavation activities consuming 1RP-2525 southeast of lease pad	6
	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/13/2016



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southeast of 1RP-3555 excavation consuming 1RP-2525 extent.	7
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	7/6/2016



	TRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southeast of 1RP-3555 excavation consuming 1RP-2525.	8
2	12C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/21/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-02336	DESCRIPTION	View facing west of lease road access.	9
	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest of battery tank area.	10
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southeast of former release area.	11
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020

	NW   •   • ³³⁰	<b>N</b> • • • • • • • • • • • • • • • • • • •	NE <b>E</b>
© 355°N (T)	) 🖲 32.787627°,	-103.449985° ±	±16ft ▲ 3927ft
East Vac ABO Batt #3 1RP-2525	Suction Release Line		COP

TETRA TECH, INC. PROJECT NO. 212C-MD-02336	DESCRIPTION	View facing north of battery tank area.	12
	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northeast of former release area.	13
212C-MD-02336	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02336	DESCRIPTION	View facing southwest of battery tank area.	14
	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02336	DESCRIPTION	View facing south of battery tank control panels.	15
	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02336	DESCRIPTION	View facing east of former release area.	16
	SITE NAME	East Vacuum Abo Battery #3 Suction Line Release	6/8/2020

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## APPENDIX E Boring Logs



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

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NOI.	POD NUM SB-1			MBER)				OSE FILE NU	MBER(S)			
LOCAT	WELL OW	Philli	ps	_				PHONE (OPT	IONAL)			
1. GENERAL AND WELL LOCATION	WELL OW HC 60 I			ADDRESS				crry Lovingtor	 1	STATE NM	8	ZIP 8260
â	WELI	L I			DEGREES	MINUTES	SECONDS					
ΓV	LOCAT		LATT	TUDE	32	47	15.10 _N	* ACCURAC	Y REQUIRED: ONE TEI	NTH OF A SE	COND	
ERA	(FROM C	GPS)	LONG	HTUDE	103	27	0.60 ^W	* DATUM RE	QUIRED: WGS 84			
GEN	DESCRIPT	TION REL			TO STREET ADDRE		-					
1.	East Va											
	(2.5 ACI	RE)	(1	IO ACRE)	(40 ACRE)	(160 ACRE)	SECTIO:	1	TOWNSHIP		RANGE	
AL	SW 3	4		1⁄4	1/4	1/4		34	17	NORTH SOUTH	35	🔽 east
OPTIONAL	SUBDIVISI	ON NAM	Œ	i		· · · · · ·	LOT NU	MBER	BLOCK NUMBER UNIT/TRACT			
2. 0	HYDROGR	APHIC S	URVEY	<u></u>		·	I,,		MAP NUMBER	-	TRACT N	UMBER
	LICENSE N	UMBER		NAME OF LICENS	ED DRILLER				NAME OF WELL D		(PANV	
	WD-	1456		John W. Whi	te				White Drilling			
3. DRILLING INFORMATION	DRILLING	STARTE	D	DRILLING ENDER	DEPTH OF COM	PLETED WELL (FT)	BORE H	LE DEPTH (FT)	DEPTH WATER FI	-	•	
	6/20/	/2011		6/20/2011				55.0		Dry		
	COMPLETE	ED WELL	IS:	ARTESIAN	DRY HOLE	SHALLOW	(UNCONFINED)		STATIC WATER LE	VEL IN COM		LL (FT)
C DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:								· · · ·		· .		
G II	DRILLING	METHOL	D:	✓ ROTARY	HAMMER	CABLE TOO	DL 🗌 OTH	ER - SPECIFY:				
TIV	DEPT	H (FT)		BORE HOLE		CASING		NECTION	INSIDE DIA.	CASING		AT 077
DRII	FROM	TO		DIA. (IN)		ATERIAL		(CASING)	CASING (IN)		ESS (IN)	SLOT SIZE (IN)
ઌ૽												
				<u> </u>				<u>    .    .                           </u>				
	DEPT	H (FT)		THICKNESS	FC	DRMATION DES			ATER-BEARING S			
TA	FROM	TO		(FT)					R FRACTURE ZON			YIELD (GPM)
<b>FRA</b>												
GS							<b></b>					
RIN											· <u>1</u>	
BEA												
											-	
4. WATER BEARING STRATA	METHOD U	SED TO I	ESTIM/	TE YIELD OF WA	TER-BEARING STRA	ТА			TOTAL ESTIMATED	WELL YIEL	D (GPM)	
		<u> </u>				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · ·				
-	FOR OSE	INTER	NAL U	JSE					WELL RECO	RD & LOG	(Version 4)	0/08)
Ī	ETT E NILIN					<u> </u>	·				( + CI SI URI 0/	2100)

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LOCATION			PAGE 1 OF 2		

MP	TYPE OF	F PUMP:	USUBMER		☐ JET ☐ CYLINDER	□ NO PUMP – WELL NOT EQUIPPED □ OTHER – SPECIFY:			
5. SEAL AND PUMP	ANNULAR SEAL AND GRAVEL PACK		DEPTH FROM 55.0	1 (FT) TO 0.0	BORE HOLE DIA. (IN) 5	MATERIAL TYPE AND SIZE Backfill cuttings	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT	
	DEPTI	H (FT)	THICK	NESS		COLOR AND TYPE OF MATERIAL ENCOUNT	ERED	WATER	
	FROM	TO	(FI	0	(INCL)	UDE WATER-BEARING CAVITIES OR FRACTI	URE ZONES)	BEAR	ING?
	0.0	10.0	10.	.0		Tan silty clay sand (hydrocarbon stai	ned).	T YES	🗹 NO
	10.0	15.0	5.0	0		Limestone.		□ YES	🗹 NO
	15.0	15.0 55.0 40.0				□ YES	🗹 NO		
								□ YES	
ΓΓ								T YES	□ NO
GEOLOGIC LOG OF WELL								□ YES	□ NO
OF								□ YES	□ NO
FOG								🗖 YES	D NO
GIC								T YES	D NO
OLO								☐ YES	□ NO
GE(								T YES	□ NO
6.								☐ YES	□ NO
		· · · ·						T YES	□ NO
							· · · · · · · · · · · · · · · · · · ·	☐ YES	□ NO
								☐ YES	□ NO
								☐ YES	□ NO
								🗖 YES	□ NO
			ATTACH	ADDITION	AL PAGES AS N	EEDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		
0			METHOD:	🗖 BAILE	R 🗌 PUMP	AIR LIFT OTHER - SPECIFY:			-
IAL INFO	WELL	L TEST	TEST RESU AND A TAE	LTS - ATTA BLE SHOWI	CH A COPY OF I	DATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PERI	INCLUDING START TI OD.	ME, END TI	IME,
	ADDITIÓN	IAL STATEN	MENTS OR EXPL	ANATIONS:			· · · · · · · · · · · · · · · · · · ·		
TEST & ADDITION	=								
IUV									
ST &									
E									
7.									
E	THE UN	DERSIGN	ED HEREBY (	CERTIFIES	THAT, TO THE B	EST OF HIS OR HER KNOWLEDGE AND BELL D THAT HE OR SHE WILL FILE THIS WELL R	EF, THE FOREGOING I	S A TRUE A	ND ER AND
TUR	THE PER	RMIT HOL	DOF THE AE DER WITHIN	20 DAXS A	FTER COMPLET	ION OF WELL DRILLING:	CORD WITH THE ST		
SIGNATURE			$\sim$	ノ		8/16/2011			
8. SI(			SIC I						
			SIGNATUR	E OF DRIL	LEK	DATE			

FOR OSE INTERNAL USE	R OSE INTERNAL USE						
FILE NUMBER	POD NUMBER	TRN NUMBER					
LOCATION			PAGE 2 OF 2				

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# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

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Indext and the second seco	✓ EAST □ WEST			
WELL OWNER NAME(S) Conoco Phillips     PHONE (OPTIONAL)       WELL OWNER MAILING ADDRESS     CITY     STATE       HC 60 Box 66     CITY     STATE       WELL LATITUDE     32     47     14.90 N       ACCURACY REQUIRED: ONE TENTH OF A SECOND     LONGITUDE     103     26       TOWNER RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS     * DATUM REQUIRED: WGS 84       DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS     * DATUM REQUIRED: WGS 84       TWOLL     (10 ACRE)     (40 ACRE)     (160 ACRE)       SW ½     ½     ½     ½     34       SW ½     ½     ½     ½       SUBDIVISION NAME     LOT NUMBER     BLOCK NUMBER     UNIT/TRACT       SUBDIVISION NAME     NAME OF LICENSED DRILLER     NAME OF WELL DRILLING COMPANY       WD-1456     John W. White     NAME OF WELL DRILLING COMPANY       WD-1456     John W. White     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)	60			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	60			
Image: Property of the section of t	60			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	60			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	✓ EAST □ WEST			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	west			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	west			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	west			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	west			
East Vac Abo Battery 3         VOT       (2.5 ACRE)       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       ½       ½       ½       ½       34       17       Image: South       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       Depth of COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	west			
Vision Name       (10 ACRE)       (40 ACRE)       (160 ACRE)       SECTION       TOWNSHIP       RANGE         SW       1/4       1/4       1/4       1/4       34       17       35         SUBDIVISION NAME       LOT NUMBER       BLOCK NUMBER       UNIT/TRACT         HYDROGRAPHIC SURVEY       MAP NUMBER       TRACT NUM         LICENSE NUMBER       NAME OF LICENSED DRILLER       NAME OF WELL DRILLING COMPANY         WD-1456       John W. White       DEPTH OF COMPLETED WELL (FT)       BORE HOLE DEPTH (FT)       DEPTH WATER FIRST ENCOUNTERED (FT)	west			
SW     1/4     1/4     1/4     1/4     3/4     1/7     INFIT MARK     INFIT MARK       SUBDIVISION NAME     SUBDIVISION NAME     LOT NUMBER     BLOCK NUMBER     UNIT/TRACT       HYDROGRAPHIC SURVEY     MAP NUMBER     BLOCK NUMBER     UNIT/TRACT       HYDROGRAPHIC SURVEY     MAP NUMBER     TRACT NUM       UNIT/TRACT     John W. White     NAME OF WELL DRILLING COMPANY       UNIT/TRACT     DRILLING STARTED     DRILLING ENDED     DEPTH OF COMPLETED WELL (FT)       DRILING STARTED     D	west			
SW     1/4     1/4     1/4     34     17     35       SUBDIVISION NAME     SUBDIVISION NAME     LOT NUMBER     BLOCK NUMBER     UNIT/TRACT       HYDROGRAPHIC SURVEY     MAP NUMBER     TRACT NUM       LICENSE NUMBER     NAME OF LICENSED DRILLER     MAP NUMBER     TRACT NUM       VD-1456     John W. White     DEPTH OF COMPLETED WELL (FI)     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)	west			
LICENSE NUMBER     NAME OF LICENSED DRILLER     NAME OF WELL DRILLING COMPANY       WD-1456     John W. White     White Drilling Company, Inc.       DRILLING STARTED     DRILLING ENDED     DEPTH OF COMPLETED WELL (FT)     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)				
LICENSE NUMBER     NAME OF LICENSED DRILLER     NAME OF WELL DRILLING COMPANY       WD-1456     John W. White     White Drilling Company, Inc.       DRILLING STARTED     DRILLING ENDED     DEPTH OF COMPLETED WELL (FT)     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)	Ber			
LICENSE NUMBER     NAME OF LICENSED DRILLER     NAME OF WELL DRILLING COMPANY       WD-1456     John W. White     White Drilling Company, Inc.       DRILLING STARTED     DRILLING ENDED     DEPTH OF COMPLETED WELL (FT)     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)	Ber			
WD-1456     John W. White     White Drilling Company, Inc.       DRILLING STARTED     DRILLING ENDED     DEPTH OF COMPLETED WELL (FT)     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)				
WD-1456     John W. White     White Drilling Company, Inc.       DRILLING STARTED     DRILLING ENDED     DEPTH OF COMPLETED WELL (FT)     BORE HOLE DEPTH (FT)     DEPTH WATER FIRST ENCOUNTERED (FT)				
DRILLING STARTED         DRILLING ENDED         DEPTH OF COMPLETED WELL (FT)         BORE HOLE DEPTH (FT)         DEPTH WATER FIRST ENCOUNTERED (FT)           Z/OF /20044         Z/OF /20044         Z/OF /20044         DEPTH OF COMPLETED WELL (FT)         BORE HOLE DEPTH (FT)         DEPTH WATER FIRST ENCOUNTERED (FT)				
7/25/2011     7/25/2011     55.0     Dry       COMPLETED WELL IS:     ARTESIAN     Image: Dry Hole     SHALLOW (UNCONFINED)     STATIC WATER LEVEL IN COMPLETED WELL Dry       DRILLING FLUID:     Image: Array     Image: Array     Image: Array     Image: Array     Image: Array       DRILLING METHOD:     Image: Array     Image: Array     Image: Array     Image: Array     Image: Array       DEPTH (FT)     BORE HOLE     CASING     CONNECTION     INSIDE DIA.     CASING WALL				
COMPLETED WELL IS:       ARTESIAN       Image: Dry Hole       SHALLOW (UNCONFINED)       STATIC WATER LEVEL IN COMPLETED WELL Dry         DRILLING FLUID:       Image: ARR       MUD       Additives - specify:       Dry         DRILLING METHOD:       Image: Rotary       HAMMER       CABLE TOOL       Other - specify:         DEPTH (FT)       BORE HOLE       CASING       CONNECTION       INSIDE DIA.       CASING WALL				
COMPLETED WELL IS:       ARTESIAN       Image: Dry Hole       SHALLOW (UNCONFINED)       Dry         DRILLING FLUID:       Image: Arr and additives - specify:         DEPTH (FT)       BORE HOLE       CASING       CONNECTION       INSIDE DIA.       CASING WALL	FT)			
Q       DRILLING FLUID:       Image: Air mud image: Additives - specify:         Q       DRILLING METHOD:       Image: Air mud image: Additives - specify:         DEPTH (FT)       BORE HOLE       CASING         CONNECTION       INSIDE DIA.       CASING WALL				
DRILLING METHOD:     Image: Rotary     Hammer     Cable tool     Other - specify:       DEPTH (FT)     BORE HOLE     CASING     CONNECTION     INSIDE DIA.     CASING WALL				
DEPTH (FT) BORE HOLE CASING CONNECTION INSIDE DIA. CASING WALL				
CONNECTION I INSIDE DIA. I CASING WALL				
FROM TO DIA. (IN) MATERIAL TYPE (CASING) CASING (IN) THICKNESS (IN)	SLOT SIZE (IN)			
m				
DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA				
- A CARACTER DESCRIPTION OF TRANCITAL WATER-DEARING STRATA	YIELD (GPM)			
FROM       TO       (FT)       (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)         Image: Solution of the structure definition of the s				
FOR OSE INTERNAL USE				

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MP	TYPE OI	F PUMP:	U SUBMER		☐ JET ☐ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPED ☐ OTHER – SPECIFY:			
SEAL AND PUMP	ANNU SEAL GRAVE	AND	DEPTH (FT)           FROM         TO           55.0         2.0           2.0         0.0		BORE HOLE DIA. (IN) 6.5 6.5	MATERIAL TYPE AND SIZE Bentonite Pellets Cement	AMOUNT (CUBIC FT) 9 sacks 0.4608	METHOD OF PLACEMENT Hand Mix Hand Mix	
S.			2.0	0.0	0.0	Ocinent	0.4000		
	0000			 					
-	DEPTI		THICK (FI			COLOR AND TYPE OF MATERIAL ENCOUNT JDE WATER-BEARING CAVITIES OR FRACTU		WA' BEAR	
	FROM	TO	·			· · ·	JAL LONES		
	0.0	5.0	5.0			Black sandy clay.		☐ YES	NO NO
	5.0	18.0	13.			Caliche w/limestone layers.		☐ YES	
	18.0	24.0	6.0			Tan sand w/caliche.		VES	NO E NO
	24.0	57.5	33.	.5		Tan sand.		☐ YES	
ELL						* ••• •••		VES	
F W.								☐ YES	
00								U YES	
010								TYES	□ NO □ NO
)GI								☐ YES	
6. GEOLOGIC LOG OF WELL									
GI 3								TES YES	
								TES VES	
					AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		
			r						
4FO	WELL	TEST	METHOD:			AIR LIFT OTHER – SPECIFY:		ME END T	
ALL INFO						AND DRAWDOWN OVER THE TESTING PERI		MIC, EINE II	وخيار 14
ION/	ADDITION	IAL STATEN	ENTS OR EXPL	ANATIONS:					
ADDITION									
& AD									
TEST 6									
7. TE									
		- · · ·							
SIGNATURE	CORREC	T RECOR	D OF THE AB	OVE DESC	RIBED HOLE ANI	EST OF HIS OR HER KNOWLEDGE AND BELIE D THAT HE OR SHE WILL FILE THIS WELL RE ON OF WELL DRILLING:			
NDIS		<		$\angle$		8/16/2011			
37 36			SIGNATUR	E OF DRILI	LER	DATE			

FOR OSE INTERNAL USE	WELL RECORD & LOG (Version 6/9/08)			
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# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

N	POD NUM SB-4	IBER (WEI	LL NU	MBER)		·					OSE FILE N	UMBER(S)		-		·	
I. GENERAL AND WELL LOCATION	well ow										PHONE (OP	FIONAL)					
I TI I	WELL OW		•	ADDRESS		,					CITY			STATE NM		ZIP	
D W.											Lovingto	·!]			00	3260	
NN,	WEL LOCAT				DEG	REES 32	MINU	47	SECON	10s 1.70 _N	* 400000	VPEOLIPED			20340		
ERAI	(FROM	L		GITUDE				26		8.70 <u>N</u> 8.70 W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84						
GENI	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS																
1.0	East Va																
	(2.5 AC	RE)	(	(10 ACRE)	(4	10 ACRE)		(160 ACRE)		SECTION		TOWNSHIP RANGE			EAST		
VAL	SW 1/4 1/4				1⁄4		1/4			34	1	17	SOUTH	35	WEST		
OPTIONAL	SUBDIVISION NAME LOT NUMBER BLOCK NUMBER UNIT/TRACT											.ст					
2. OF	HYDROGR	RAPHIC SU	JRVE	Y				. <u> </u>			<b>-</b>	MAP NUN	4BER	•	TRACT NU	JMBER	
	LICENSE N		Τ	NAME OF LICE		RILLER								RILLING COM			
Z		-1456		John W. W									-	Compan			
	DRILLING	51748151 1/2011		DRILLING END 7/25/201		DEPTH OF COM	IPLETED	WELL (FT)			e dépth (FT) 0.0	DEPTH W	ATER FIF	RST ENCOUN Dry			
10J												STATIC W	ATER LE	VEL IN COM		L (FT)	
RMA	COMPLETED WELL IS: ARTESIAN			· [	✓ DRY HOLE		SHALLOW	(UNCON	NFINED)			Dry			< -/		
NFO	DRILLING	FLUID:		✓ AIR	[	MUD		ADDITIVES	S-SPEC	IFY:							
I DNI	DRILLING		:	<b>ROTARY</b>		HAMMER		CABLE TOO	DL	OTHE	R - SPECIFY:						
DRILLING INFORMATION	DEPT FROM	Ή (FT) TO		BORE HOL DIA. (IN)	E	CASING CONNECTION MATERIAL TYPE (CASING)		INSIDI CASIN		CASING THICKN		SLOT SIZE (IN)					
3											·····						
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<u> </u>												<u> </u>			_		
	DEPT	H (FT)		THICKNES	s		ORMAT	ION DES	CRIPTI	ION OF PH	RINCIPAL W	ATER-BEA	RING S			YIELD	
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STR													_				
5 VI								<b>-</b> .									
EAR			-									,	-		· · · ·		
ERB														مى يەت	•		
4. WATER BEARING STRATA	METHOD U	ISED TO E	STIM	ATE YIELD OF V	VATER-E	BEARING STRA	ATA					TOTAL ES	TIMATED	WELL YİELI			
4		<u> </u>	<u> </u>							-							

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)				
FILE NUMBER	POD NUMBER	TRN NUMBER				
LOCATION			PAGE 1 OF 2			

JMP	TYPE OF	F PUMP:			☐ JET ☐ CYLINDER	□ NO PUMP – WELL NOT EQUIPPED □ OTHER – SPECIFY:					
SEAL AND PUMP	ANNU	ILAR	DEPTH FROM	(FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH PLACE			
EAL	SEAL	AND	50.0	2.0	6.5	Bentonite Pellets	9 sacks	Hand	l Mix		
5. SI	GRAVE	L PACK	2.0	0.0	6.5	Cement	0.4608	Hand	Mix		
	DEPTI	H (FT)	THICK	NESS	1	COLOR AND TYPE OF MATERIAL ENCOUNTI	ERED	WA	TER		
	FROM	то	(FT)		(INCLU	JDE WATER-BEARING CAVITIES OR FRACTU	JRE ZONES)	BEARING?			
	0.0	8.0	8.0	D		Black sandy clay w/caliche.		T YES	NO 🖸		
	8.0 19.0 11.0					Caliche w/limestone layers.		T YES	🗹 NO		
	19.0	24.0	5.0	0		Tan sand w/caliche.					
	24.0 50.0 26.0					Tan sand.		□ YES	Ø NO		
-1								TYES	DNO 🗌		
WEI								🗖 YES	🗆 NO		
OF								☐ YES	🗖 NO		
0 0 0								TES YES	□ NO		
ICI								THES YES	🗖 NO		
L O I								YES	□ NO		
GEOLOGIC LOG OF WELL								🗖 YES	🗖 NO		
6. (								T YES	DN D		
								TYES	🗆 NO		
			· · · =					🗖 YES	D NO		
								□ YES	□ NO		
								☐ YES	D NO		
								☐ YES	D NO		
			ATTACH	ADDITION	AL PAGES AS NE	EEDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL				
			METHOD:	🗌 BAILE	R PUMP	AIR LIFT OTHER - SPECIFY:					
AL INFO	WELL	. TEST	TEST RESU AND A TAB	LTS - ATTA BLE SHOWI	CH A COPY OF D	DATA COLLECTED DURING WELL TESTING, I AND DRAWDOWN OVER THE TESTING PERIO	NCLUDING START TI	ME, END T.	IME,		
	ADDITION	JAL STATEN	LENTS OR EXPL	ANATIONS:							
7. TEST & ADDITION											
ADD											
Γ&											
TES											
7.											
	THE UN	DERSIGN	ED HEREBY (	CERTIFIES	THAT, TO THE BE	EST OF HIS OR HER KNOWLEDGE AND BELIE	F, THE FOREGOING I	S A TRUE A	.ND		
URE	CORREC	CT RECOR	D OF THE AB	<b>OVE DESC</b>	RIBED HOLE ANI	D THAT HE OR SHE WILL FILE THIS WELL RE ON OF WELL DRILLING:	CORD WITH THE STA	ATE ENGIN	EER AND		
VAT			71								
SIGNATURE			-//*~			8/16/2011					
80			SIGNATUR	E OF DRIL	LER	DATE					

FOR OSE INTERNAL USE	SE INTERNAL USE					
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LOCATION		P	AGE 2 OF 2			

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## APPENDIX F Confirmation Laboratory Analytical Reports



June 27, 2011

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: VACUUM ABO BATTERY #3

Enclosed are the results of analyses for samples received by the laboratory on 06/23/11 13:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/27/2011	Sampling Type:	Soil
Project Name:	VACUUM ABO BATTERY #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

#### Sample ID: SB 1 @ 10' (H101299-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 2080		16.0	06/24/2011	ND	464	116	400	0.00	

#### Sample ID: SB 1 @ 20' (H101299-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b> 976 16.0		06/24/2011	ND	464	116	400	0.00		

#### Sample ID: SB 1 @ 30' (H101299-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>800</b> 16.0		06/24/2011	ND	464	116	400	0.00	

#### Sample ID: SB 1 @ 40' (H101299-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 1780		16.0	06/24/2011	ND	464	116	400	0.00	

#### **Cardinal Laboratories**

#### *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	06/23/2011	Sampling Date:	06/20/2011
Reported:	06/27/2011	Sampling Type:	Soil
Project Name:	VACUUM ABO BATTERY #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NM		

#### Sample ID: SB 1 @ 50' (H101299-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 2280		16.0	06/24/2011	ND	464	116	400	0.00	

#### Sample ID: SB 1 @ 55' (H101299-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM	M													
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier									
Chloride 2480		16.0	06/24/2011	ND	464	116	400	0.00										

#### Cardinal Laboratories

#### *=Accredited Analyte

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Celey D. Keine

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

#### Cardinal Laboratories

#### *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	BBC International Inc							11.1			81	LL TO					ANAI	YSIS	RE	QUE	ST		
Company Name: BBC International, Inc. Project Manager: Cliff Brunson								P.	P.O. #:														
Address: P.O. Box 805							······································																
				0.01				-	Company:				1										
tity: Hobbs State: NM Zip: 88241							A1	ttn:			AL												
Phone #: 575-3	Phone #: 575-397-6388 Fax #: 575-397-0397						A	ddre	ess:	~ 1	Uh.												
Project #: Project Owner: ConocoPhillips					С	City:																	
Project Name: Vacuum Abo Battery #3				St	tate	:	<u> </u>	Zip:	1.1														
Project Location	n: Buckeye, NM							PI	hon	e #:													
Sampler Name:	Amy Ruth							Fa	ax #					5.1									
FOR LAB USE ONLY			T	1		MAT	RIX		PF	RESE	RV.	SAMPL	NG	ide									
Lab I.D. H101299	PI.D. Samble I.D. COMP. ONTAINERS			SLUDGE OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloria													
-1	SB1 @ 10'	Ĉ	2			1				V,		6-20-11	1054	1									
2	SB1 @ 20'	12		1		1				V		6-20-11	1059	$\checkmark$									
13	SB1 @ 30'	C	3	1		1				1		6-20-11	1138	1									
ч	SB1 @ 40'	C		1		V				V		6-20-11	1202	1									
5	SB1 @ 50'	C	2	1		1				1		6-20-11	1225	1									
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n fan	, <u>,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											n aran			10		2					U.	

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	affiliates or successors arising out of or related to the performance o	r services hereunder by Ca	ardinal, regardless of whether such claim is based	d upon any of the above stated re	asons or otherwise.			
	Relinguished By: A	Date:	Received By:	and the second s	Phone Result:	□ Yes	🗆 No	Add'l Phone #:
_	- I I KI - H	6-23-11			Fax Result:	Yes	🗆 No	Add'I Fax #:
	Nous Cial ()	Time: 1330	VIAC Crue	1-5	REMARKS:			
_	Relinquished By:	Date:	Received By:					
	173/201 6	4-6-511	ladi N					
	Ulf Crup	Time:	apar se	SOU				
	Delivered By: (Circle One)		A Sample Condition	CHECKED BY:				
	, , ,		Cool Intact	(Initials)				
	Sampler - UPS - Bus - Other:		7 Yes Yes	/HAT				
				LIN		and in succession of the succe		

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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July 29, 2011

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: EAST VACUUM ABO BATTERY #3

Enclosed are the results of analyses for samples received by the laboratory on 07/29/11 11:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	07/29/2011	Sampling Date:	07/25/2011
Reported:	07/29/2011	Sampling Type:	Soil
Project Name:	EAST VACUUM ABO BATTERY #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NEW MEXICO		

#### Sample ID: SB 2 @ 10' (H101578-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 2 @ 20' (H101578-02)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 2 @ 30' (H101578-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 2 @ 40' (H101578-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/29/2011	ND	448	112	400	0.00	

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#### *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	07/29/2011	Sampling Date:	07/25/2011
Reported:	07/29/2011	Sampling Type:	Soil
Project Name:	EAST VACUUM ABO BATTERY #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NEW MEXICO		

#### Sample ID: SB 2 @ 45' (H101578-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 2 @ 50' (H101578-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 3 @ 10' (H101578-07)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 3 @ 20' (H101578-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 3 @ 30' (H101578-09)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/29/2011	ND	448	112	400	0.00	

#### **Cardinal Laboratories**

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	07/29/2011	Sampling Date:	07/25/2011
Reported:	07/29/2011	Sampling Type:	Soil
Project Name:	EAST VACUUM ABO BATTERY #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUCKEYE, NEW MEXICO		

#### Sample ID: SB 3 @ 40' (H101578-10)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 3 @ 50' (H101578-11)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/29/2011	ND	448	112	400	0.00	

#### Sample ID: SB 3 @ 55' (H101578-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/29/2011	ND	448	112	400	0.00	

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Celey D. Keine

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

#### Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-247																				-
Company Name	" BBC Internation	10	1					B	ILL TO					/	ANAL	YSIS	REC	QUES	T		
Project Manage	"Cliff Brunson					[	P.O. #:				Ì										
	BOX 805						Compa	any:				ł									
City: Llebb	5 State: 1/14	Zip	: 6	8240	>	/	Attn:					1									
Phone #: 575	- 392 - 0388 Fax #: 575	- 30	17	-034	17		Address:														
Project #: NA	Project Owne	r(Ca	1.6	o Phi	lips		City:														
Project Name: C	East Vacuum Abo Battery	#	3		19	- I.	state:		Zip:												
	Project Location: Buckeye NM					F	hone	#:													
Sampler Name: Roder Hernandez						ſ	ax #:									1		[			
FOR LAB USE ONLY				M	ATRI	X	PRE	SER\	SAMPLI	NG	1		1		1						
Lab I.D. HIDI578	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL OIL			OTHER : ACID/BASE: ICE / COOL OTHER : MIL BIL		-10													
1	SB2 @ 10'	3	1					X	7-25-11		X										
2.	532 @ 201	3	1		x			×	7-25-4		X										
3		9	1		(			X	7-25-11		X		_							 	
4	5B2 @ 401	9	(	X	_			X	7-25-4		X	ļ	_							 	
5	5BZ@ 45'	3	1		<u>.</u>			X.	7-25-11		X									 	
<u> </u>	5BZ @ 50'	3	1					X	7-25-11	210	X									 	
	SB30101	3	1	1	Ķ _			X .	7.25-11	1120	X	1			· .						
	SB 3 e Zo!	9			4_			X	7-25-4		X	-								 	
И	5B3@ 30'	9	1	2	(			<u> </u>	7-25-4		IX,									 	
IQ I	5B3 @ 40	5	1		2			X	7-25-4	1210	X										

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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 ns or otherwise.

**Relinquished By:** Phone Result: No No Add'l Phone #: Date: Received By: Yes □ Yes □ No Add'l Fax #: Fax Result: Time: REMARKS: 5 MAIL Relinguished By Received By: Delivered By: (Circle One) CHECKED BY: Sample Condition Cool Intact (Initials) Yes Yes No No Sampler - UPS - Bus - Other:

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

#7/0

Page 55



2082

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(5/5) 393-2326 FAX (5/5) 393-24	0														**************************************		-
Company Name	BBC Internatio	in e	i l			Bl	LL TO					ANA	LYSIS	REQ	JEST			
Project Manage	CLIFF Brunsoy				Ρ.	0. #:												
	BOX ECS				Co	ompany:				-								
City: HOB	BS State M	Zi	p: 🖄	8240	At	tn:												
Phone #: 575	-392-6382 Fax #: 5?	5-	39	7-0397	Ac	dress:												
Project #: ,VA	Project Owne	r:()	ine	10 Phillips	Ci	ty:												
Project Name: d	East Vacuum Abo BA					ate:	Zip:											
Project Locatio	n: Buckeye NM	•	(		Pł	none #:												
Sampler Name:	Roger Heinande	2				x #:			J									
FOR LAB USE ONLY				MATRIX	1	PRESERV	SAMPL	NG										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	AINE	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	HER :	ACID/BASE: LICE / COOL OTHER :			-10		8					8		
HID1518	7	Ø	10	GR SO SO SL	0	OT AC	DATE	TIME	-									
	SB 3 @ 50'	19	1	<u> </u>	-		7-25-4		X									
12	SB 3 @ 55'	9	Ľ	X		X	7-25-11	1240	1									
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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 Relinguished By: Date: Received By: Phone Result: □ Yes □ No Add'l Phone #: Fax Result: 🗆 Yes 🗆 No Add'I Fax #: Time: REMARKS: EMALL Relinquished By: Received By: Date 29/11 raa Delivered By: (Circle One) CHECKED BY: Sample Condition Cool Intact (Initials) Yes Yes No No Sampler - UPS - Bus - Other:

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	21403
	Action Type:
	[C-141] Release Corrective Action (C-141)
	-

#### CONDITIONS

Created By		Condition Date
amaxwell	None	3/17/2023

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Action 21403