



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pGRL1218438527

1RP - 2834

XTO ENERGY, INC

June 07, 2012

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

HOBBS OCD

JUN 18 2012

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RE: XT0-12-001

Enclosed are the results of analyses for samples received by the laboratory on 06/04/12 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

2034

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 06/04/2012
 Reported: 06/07/2012
 Project Name: XT0-12-001
 Project Number: BRIDGES STATE 120
 Project Location: BUCKEYE, NM

 Sampling Date: 05/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH - 1 5' BGS (H201240-01)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2012	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	06/04/2012	ND	2.05	102	2.00	5.34		
Ethylbenzene*	<0.050	0.050	06/04/2012	ND	1.95	97.5	2.00	4.62		
Total Xylenes*	<0.150	0.150	06/04/2012	ND	5.94	99.0	6.00	4.01		

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/04/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2012	ND	183	91.3	200	1.58	
DRO >C10-C28	<10.0	10.0	06/04/2012	ND	187	93.7	200	3.90	

Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



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 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 06/04/2012
 Reported: 06/07/2012
 Project Name: XT0-12-001
 Project Number: BRIDGES STATE 120
 Project Location: BUCKEYE, NM

 Sampling Date: 05/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH - 1 10' BGS (H201240-02)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2012	ND	2.24	112	2.00	5.15	
Toluene*	<0.050	0.050	06/04/2012	ND	2.05	102	2.00	5.34	
Ethylbenzene*	<0.050	0.050	06/04/2012	ND	1.95	97.5	2.00	4.62	
Total Xylenes*	<0.150	0.150	06/04/2012	ND	5.94	99.0	6.00	4.01	

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/04/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2012	ND	183	91.3	200	1.58	
DRO >C10-C28	<10.0	10.0	06/04/2012	ND	187	93.7	200	3.90	

Surrogate: 1-Chlorooctane 79.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.2 % 63.6-154

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 Received: 06/04/2012
 Reported: 06/07/2012
 Project Name: XT0-12-001
 Project Number: BRIDGES STATE 120
 Project Location: BUCKEYE, NM

 Sampling Date: 05/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH - 1 15' BGS (H201240-03)

BTEX 8021B			mg/kg Analyzed By: ZZZ							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2012	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	06/04/2012	ND	2.05	102	2.00	5.34		
Ethylbenzene*	<0.050	0.050	06/04/2012	ND	1.95	97.5	2.00	4.62		
Total Xylenes*	<0.150	0.150	06/04/2012	ND	5.94	99.0	6.00	4.01		

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/04/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2012	ND	183	91.3	200	1.58	
DRO >C10-C28	<10.0	10.0	06/04/2012	ND	187	93.7	200	3.90	

Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 06/04/2012
 Reported: 06/07/2012
 Project Name: XT0-12-001
 Project Number: BRIDGES STATE 120
 Project Location: BUCKEYE, NM

 Sampling Date: 05/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH - 1 20' BGS (H201240-04)

BTEX 8021B			mg/kg		Analyzed By: ZZZ				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2012	ND	2.24	112	2.00	5.15	
Toluene*	<0.050	0.050	06/04/2012	ND	2.05	102	2.00	5.34	
Ethylbenzene*	<0.050	0.050	06/04/2012	ND	1.95	97.5	2.00	4.62	
Total Xylenes*	<0.150	0.150	06/04/2012	ND	5.94	99.0	6.00	4.01	

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 89.4-126

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	06/04/2012	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2012	ND	183	91.3	200	1.58	
DRO >C10-C28	<10.0	10.0	06/04/2012	ND	187	93.7	200	3.90	

Surrogate: 1-Chlorooctane 84.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.1 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

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

Page 7 of 7

Company Name: Safety & Environmental Solutions, Inc.		P.O. #:	
Project Manager: Bob Allen		Company: Same	
Address: 703 East Clinton		Attn:	
City: Hobbs		State: NM	
Phone #: 575-397-0510		Zip: 88240	
Project #: XTO-12-001		Fax #: 575-393-4388	
Project Name: BLDGOS STATE 120		Project Owner: XTO 6-24-04	
Project Location: BULK-OYE		City:	
Sample Name: Son Jerry		State:	
FOR LAB USE ONLY		Phone #:	
Lab I.D. H201240		Fax #:	
Sample I.D.		Matrix	
		PRESERV. SAMPLING	
		DATE TIME	
		OTHER: ICE / COOL	
		ACID/BASE:	
		OTHER:	
		SLUDGE	
		OIL	
		SOIL	
		WASTEWATER	
		GROUNDWATER	
		# CONTAINERS	
		(G) RAB OR (C) OMP	
1	BH-1 5-1345	5	1
2	BH-1 10-1345	5	1
3	BH-1 15-1345	5	1
4	BH-1 20-1345	5	1

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Received By: *Son Jerry*

Date: *6-24-12*

Time: *0900*

Received By: *Wendi Benson*

Date: *6-24-12*

Time: *0900*

Checked By: *Wendi Benson*

Temp. *80*

Sample Condition: Cool ☒ Intact ☒ Yes ☒ No ☒

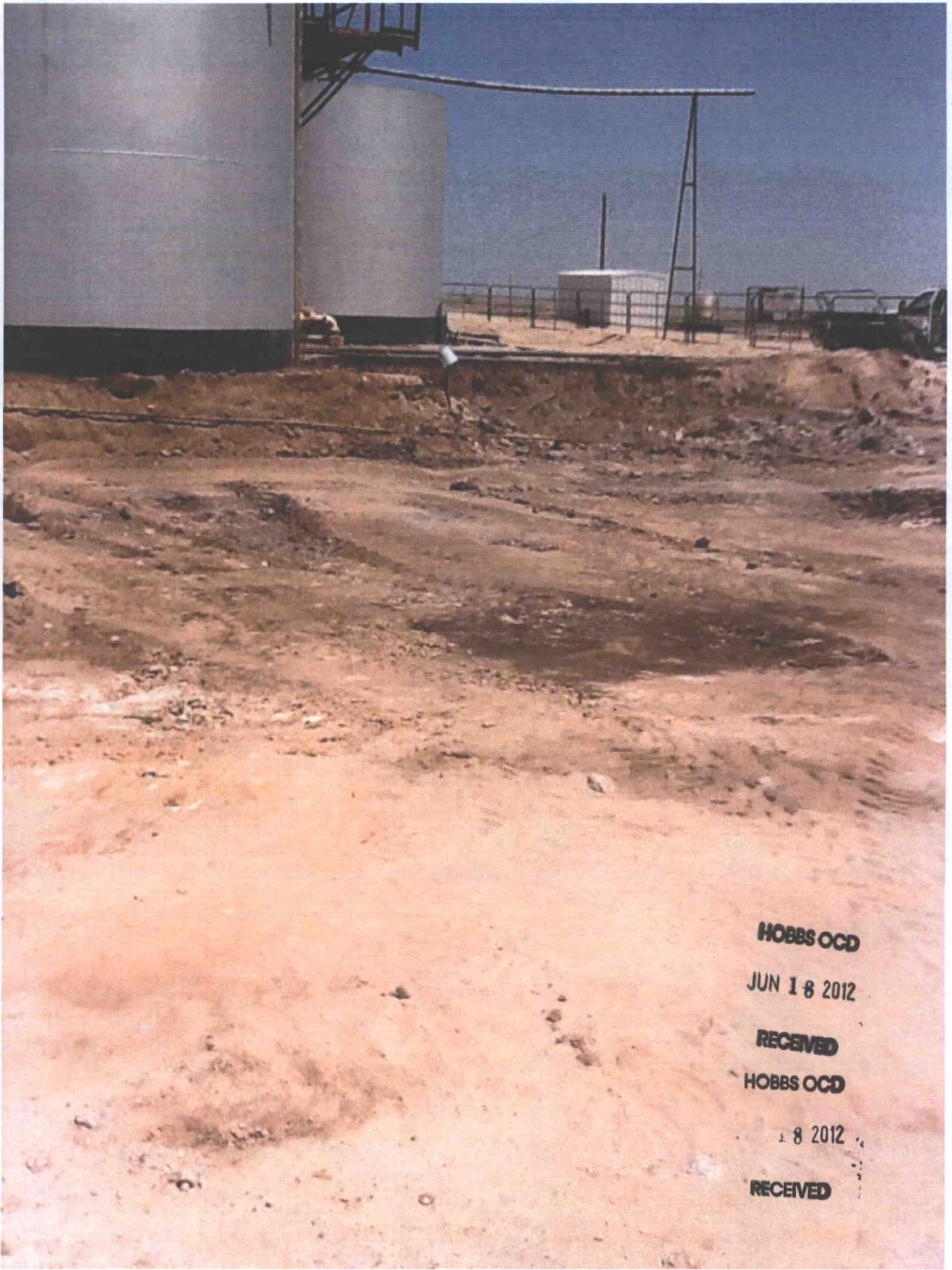
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Test Trench	Date	Time	Chlorides	TPH
#1 Surface	04-18-12	1040	324 ppm	NA
#1 1'	04-18-12	NA	NA	NA
#2 Surface	04-18-12	1115	1348 ppm	NA
#2 1'	04-18-12	NA	NA	NA

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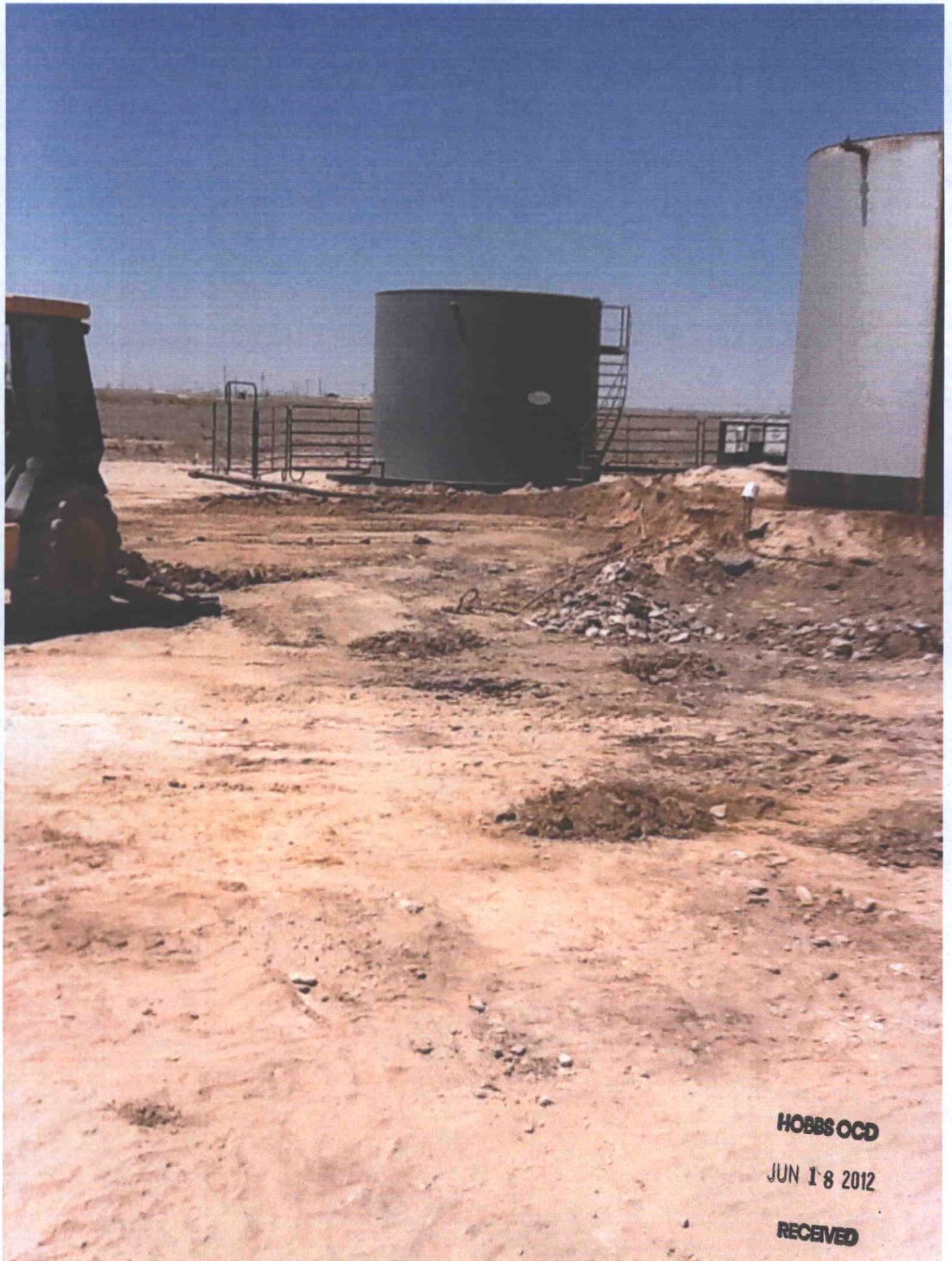
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