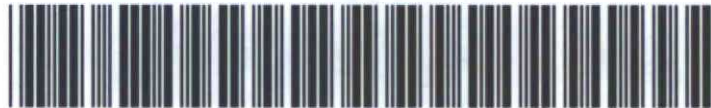




AE Order Number Banner

Report Description

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



App Number: pGRL1411842868

1RP - 3033

LEGACY RESERVES OPERATING, LP

LEGACY LJU #59 5/15/14

May 05, 2014

TODD ROBERSON

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: LJU #59 LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/02/14 13:57.

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 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

Side wall

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To:

Received: 05/02/2014
Reported: 05/05/2014
Project Name: LJU #59 LINE
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/02/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Amanda Ponce

Sample ID: 59-1001 (H401348-01)

BTEX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2014	ND	2.48	124	2.00	0.626		
Toluene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.57		
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.05	102	2.00	6.01		
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.42	107	6.00	4.81		
Total BTEX	<0.300	0.300	05/05/2014	ND						

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 107 % 71.3-129

Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/05/2014	ND	400	100	400	3.92		

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	05/05/2014	ND	190	95.0	200	0.401		
DRO >C10-C28	<10.0	10.0	05/05/2014	ND	225	112	200	5.17		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Bottom Hole

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To:

Received: 05/02/2014
Reported: 05/05/2014
Project Name: LJU #59 LINE
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/02/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Amanda Ponce

Sample ID: 59-1002 (H401348-02)

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2014	ND	2.48	124	2.00	0.626	
Toluene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.42	107	6.00	4.81	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 97.6 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.5 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/05/2014	ND	400	100	400	3.92	

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	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	<10.0	10.0	05/05/2014	ND	225	112	200	5.17	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

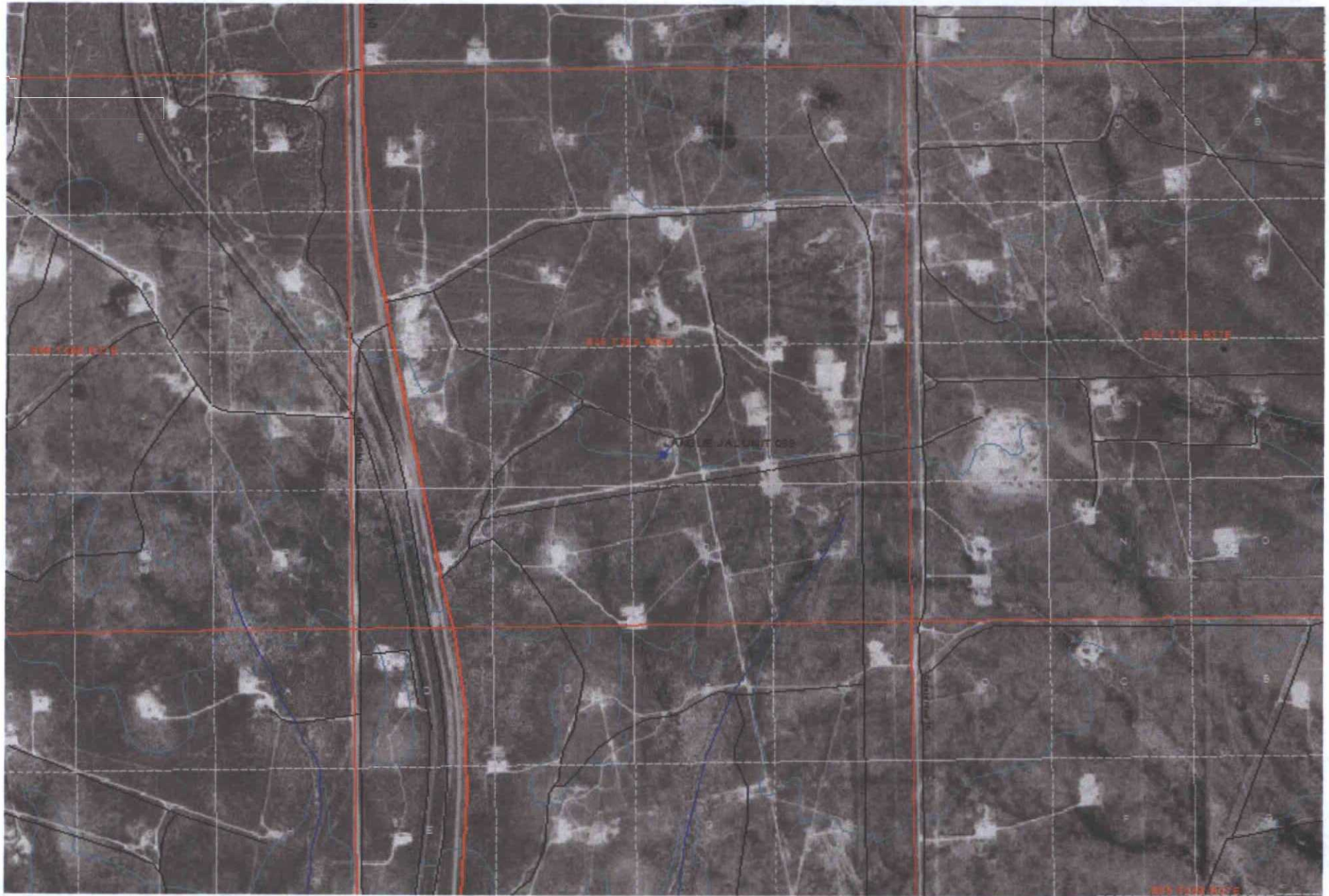


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

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

RBDMS Map



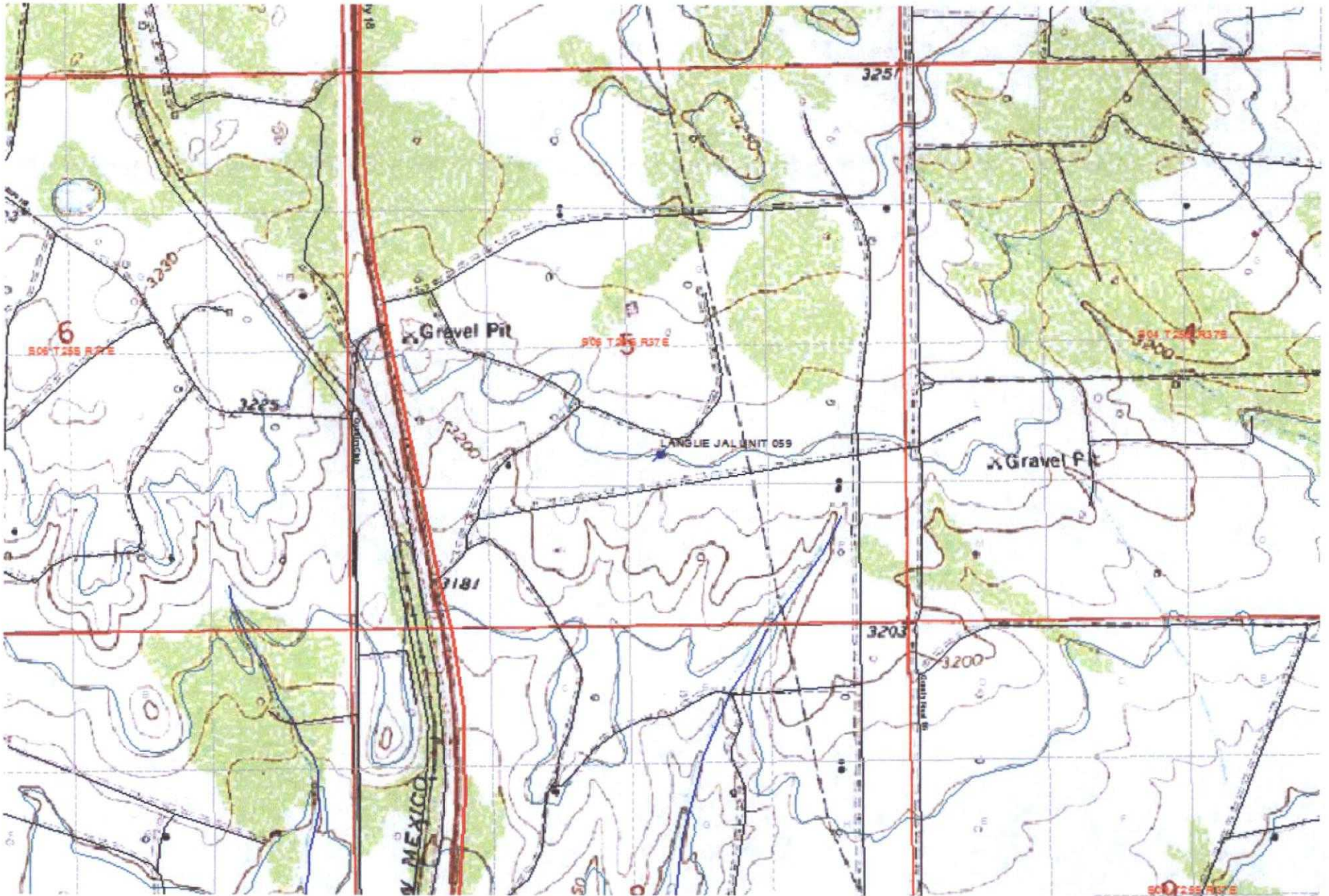
Oil Conservation Division

MapNotes

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5/19/2014 11:55:05 AM

RBDMS Map

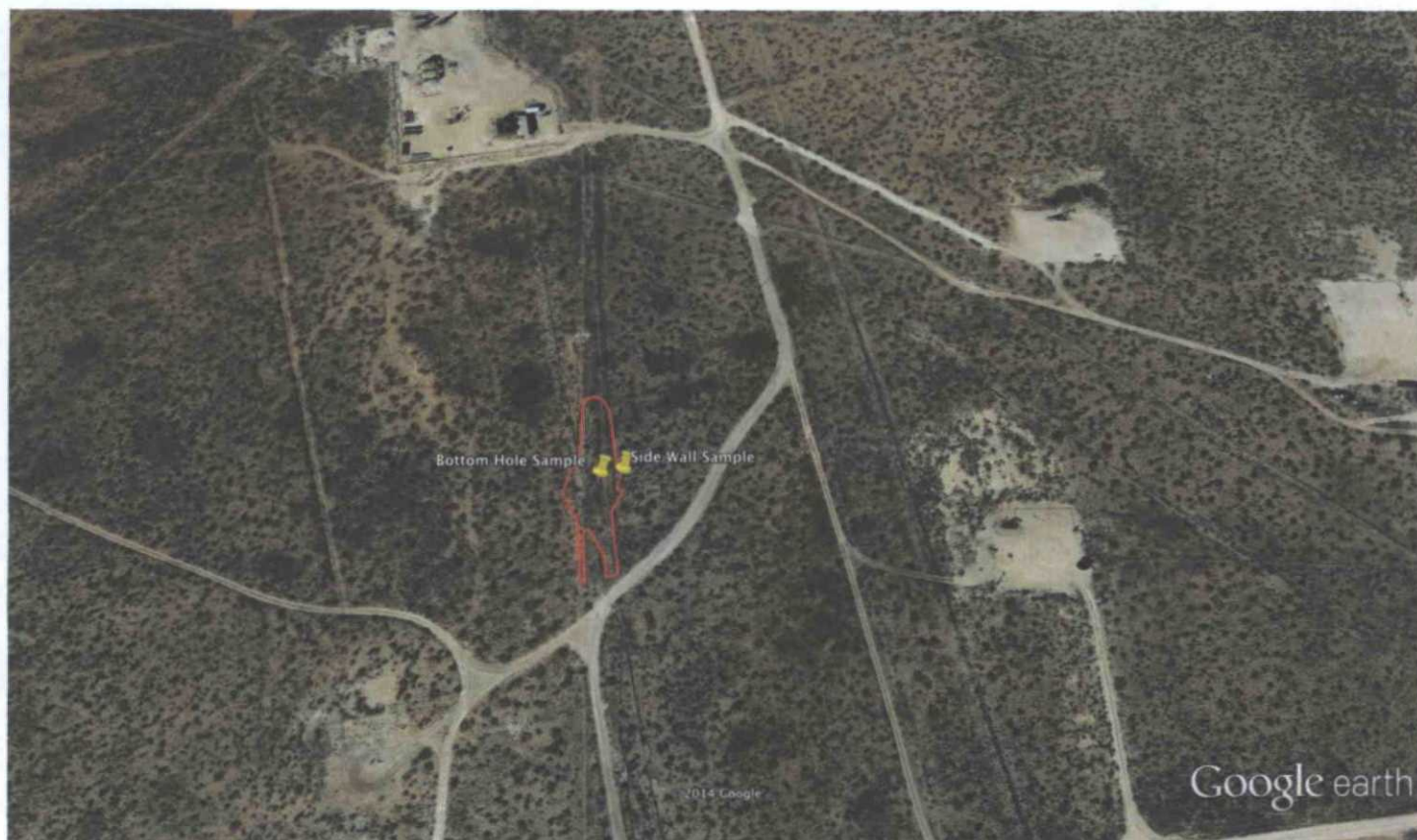


Oil Conservation Division

MapNotes

DrawnBy

5/19/2014 11:55:38 AM



Google earth

feet
meters



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