## **Closure Report**

	Site Description
Site Name:	Martha Creek Gas Com Battery
Company:	Oxy Permian Ltd.
Legal Description:	SE 1/4, Section 30, T21S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.44785° W 104.53339°

	Release Data
Date of Release:	05/26/2015
Type of Release:	Oil
Source of Release:	Blowout of a gasket on the manway of the heater
Volume of Release:	15 bbls
Volume Recovered:	0 bbls

	Remediation Specifications
Remediation Parameters:	Excavate to a depth of 4.5 feet in the areas around SP1, SP2, and SP5. Excavate to a depth of 3 feet in the areas of SP3, and SP4. Backfill the site with clean soil.
Remediation Activities:	February 2016

Plan Sent to OCD:	11/22/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/25/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	11/22/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	11/23/2015	Email from Shelly Tucker to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 06/04/2015
Final C-141	Signed 02/23/2016
Site Diagram	June 2015
Groundwater Plot	25'-50'
TOPO Maps	June 2015
Lab Summary	07/07/2015, 07/08/2015, and 09/01/2015
Lab Analysis	07/07/2015, 07/08/2015, and 09/01/2015
Correspondence	Request and approval of remediation plan via email

## **Request for Closure**

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

02/26/2016

## District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec NM 87410

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division

Submit 1 Copy to appropriate District Office in

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		th St. Fran Fe, NM 87			accordance with 19.15.29 NMAC.
Release No	A CONTRACTOR OF THE PERSON NAMED IN COLUMN 1	THE RESIDENCE AND ADDRESS.	The state of the s	ction	
11070130 110		OPERA		** <u>******</u> **	W10
Name of Company Oxy Permian Ltd.			Chancey Summe		itial Report Final Repor
Address 6 Desta Drive, Midland, TX 79705		Telephone			
Facility Name Martha Creek Gas Com Battery		Facility Ty	pe Gathering		
Surface Owner BLM Mine	eral Owner			APIN	lo. 30-15-10323
LO	CATIO	N OF RE	FACE		
Unit Letter Section Township Range Feet from	the North	South Line	Feet from the	East/West Line	County
SE ¼ 30 21S 24E					
Latitude N	32 447950	T an -! 4	J. W 104 5222	20	Eddy County, NM
			de <u>W 104.5333</u>	9-	
Type of Release Oil	ATURE	OF RELI	EASE Release 15 bbls	1,7,1	
Source of Release Blowout of a gasket on the manway of the	he heater		our of Occurrence		Recovered 0 bbls Hour of Discovery
treater Was Immediate Notice Given?		05/26/2015			Tion of Discovery
Yes No No	ot Required	If YES, To Mike Brate		rson- NMOCD	Tames Amos- BLM
By Whom? Kathy Purvis, BBC International	-		our 05/29/2015		rantes Antos- DLM
Was a Watercourse Reached?		If YES, Vol	lume Impacting th	e Watercourse.	
☐ Yes ⊠ No					
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken,*					
A blowout of the gasket on the manway of the heater treater cal replaced.	used 15 bbls	of oil to leak	onto ground. No	fluids were reco	vered and the gasket was
Decomba Arma Affactad and Clause A. C. C. L.					
Describe Area Affected and Cleanup Action Taken.*					
The affected area is approximately 200' x 250' on location. Re	emediation w	rill be comple	ted in accordance	with a remediation	on plan approved by NMOCD
and the BLM.		•			
I hereby certify that the information given above is true and cor	inplete to the	best of my kr	nowledge and und	erstand that nurs	uant to NMOCD rules and
should their operations have failed to adequately investigate and	d remediate of	NMOCD mark	ked as "Final Rep	ort" does not relie	eve the operator of liability
or and our recommendation and occupance of a figure	I report doe	s not relieve t	that pose a threat he operator of res	to ground water, ponsibility for co	mpliance with any other
federal, state, or local laws and/or regulations.					
			OIL CONSE	RVATION	DIVISION
Signature:					8
Printed Name: Chancey Summers	Ap	proved by En	vironmental Spec	ialist:	
Title: HES Lead					
	Ap	proval Date:	•	Expiration D	ato:
E-mail Address: Chancey Summers@oxy.com	Co	nditions of Ap	pproval:		Attached
Date: 6/4/15 Phone: (432) 685-5	5824	same and the same			_

<sup>\*</sup> Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

			Rel	ease Notifi	catio	n and C	orrective A	ction			
·						<b>OPERA</b>	TOR	☐ Ini	tial Report	$\boxtimes$	Final Repor
Name of C		Oxy Permia				Contact (	Casey Summers			- Consid	- 11111110001
Address		rive, Midlan				Telephone 1	No. (575) 513	3-8289			
Facility Na	me Mar	tha Creek G	as Com E	Battery		Facility Typ	e Gathering				
Surface Ow	ner BL	M		Mineral (	Owner			API N	lo. 30-15-1	0323	
	,	T		LOCA	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County		
SE ¼	30	218	24E						Eddy Cou	ntv. NA	4
			1	Latitude N 32.4	47850	Longitu	de <u>W 104.5333</u>	00	1 200) 000	10,1111	
								2			
Type of Relea	ise Oil			NAI	URE	OF RELI	Release 15 bbls	l Valore	D	0111	
Source of Rel		wout of a gasl	ket on the	manway of the he	eater		our of Occurrence		Recovered Hour of Disc	0 bbls	
treater					1055.0079.00	05/26/2015	8	Daile and	i IIVui Ol Disi	JOYCIY	
Was Immedia	te Notice C		Yes 🖂	No 🔲 Not Re	ouired	If YES, To		erson- NMOCD;	Iomas Amas	DIM	
By Whom?	Kathy Pur	vis, BBC Inter			7		our 05/29/2015		allies Allius-	DLW	
Was a Waterc	ourse Reac	hed?	- Table 1			If YES, Vol	lume Impacting th	ne Watercourse			
			Yes 🛛	No		,	anne ampaeting ti	io ii atoreoarse,			
If a Watercour	se was Imp	acted, Descri	be Fully.*								
E 2											
	•										
Describe Caus	e of Proble	m and Remed	ial Action	Taken.*						-	
A blowout of t	he oasket o	n the manuar	of the har	atan baastan sasaa	1 2 1.1.1	0 . 21 . 1 . 1		<b></b>	2 2 2	100	
replaced.	iio gaonoi o	ii iiio iiiaii way	or the nea	ater treater caused	1000	s of on to feak	onto ground. No	) fluids were reco	vered and the	gasket	was
Describe Area	Affected ar	nd Cleanup Ac	ction Take	n.*							
		1070									
The affected ar	ea is approx	ximately 200'	x 250' on	location. Remed	iation v	vas completed	in accordance wi	th the remediatio	n plan approv	ed by N	/like
Bratcher of Niv	IOCD via e	man on 11/23	72013 and	approved by She	lly Tuc	ker of the BLN	M via email on 11	/23/2015.			
I hereby certify	that the int	formation give	en above is	s true and comple	te to the	best of my ki	nowledge and und	lerstand that purs	uant to NMO	CD role	e and
regulations all (	operators ar	e required to	report and	or file certain rel	ease no	ifications and	nerform correction	vo autions for vale			
public health of	the environ	nment, the a	cceptance	of a C-141 report	hy the	NMOCD mark	red as "Final Dan	anti door not not:	41	C1'	1 111.
or the chyllomin	ciil. Ill acid	BUILDIL, INIVIOL	D accepta	ivestigate and ren nce of a C-141 re	port do	contamination es not relieve t	that pose a threa	t to ground water	, surface wate	r, huma	in health
federal, state, or	local laws	and/or regula	tions.				ne operator of re-	sponsionity for co	mphance wit	ii airy o	mer
	///						OIL CONSI	ERVATION	DIVISION	1	
Signature:	(in)							1000000			
		***************************************				oproved by En	vironmental Spec	nia liat			
Printed Name:	Casey Sur	mmers			11	opio red by Eli	ritoinnonai Spe	omnst.			

Approval Date:

Conditions of Approval:

**Expiration Date:** 

Attached

Date:

NM Environmental Advisor

E-mail Address: <u>Casey Summers@oxy.com</u>

Phone:

(575) 513-8289

2-23-16

<sup>\*</sup> Attach Additional Sheets If Necessary

SE ¼, Section 30, T21S, R24E Eddy County, NM N 32.44785° W 104.53339° stake API# 30-015-10323

Dec International, Inc.	
Martha Creek	Martha Creek Gas Com Battery
Date: 06/02/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxv 2015



## **Groundwater Plot**

## Oxy Martha Creek Gas Com Battery

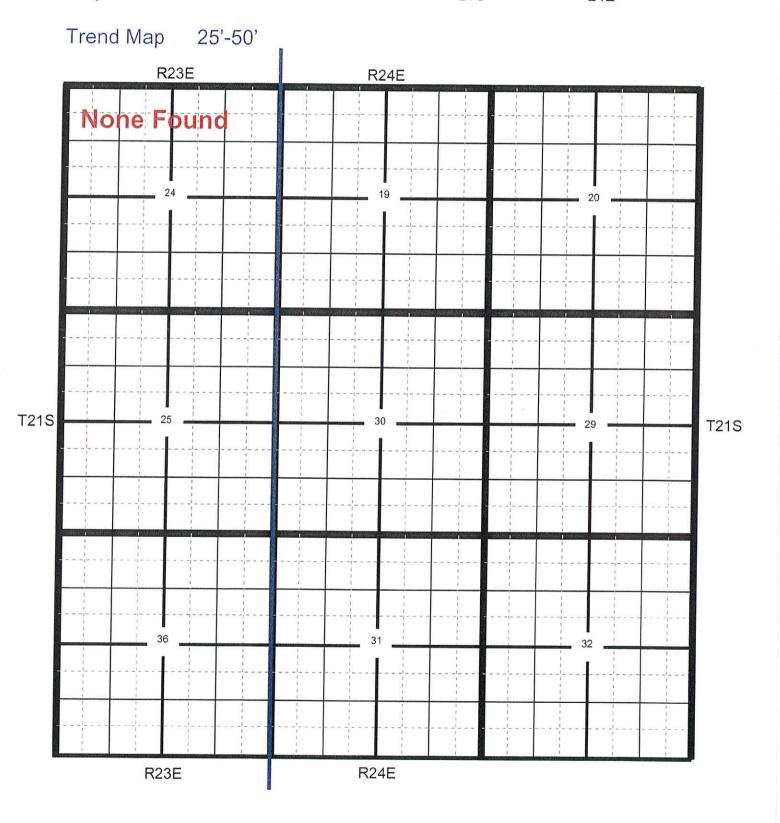
County Eddy

Unit Letter SE 1/4

Section 30

Township 21S

Range 24E





## Section Quarters

# Oxy Martha Creek Gas Com Battery

County Eddy Unit Letter SE 1/4 Section 30 Township 21S Range 24E

Trend Map 25'-50'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
None Found			
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
			1
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
	1		
		-	
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Location

OCD

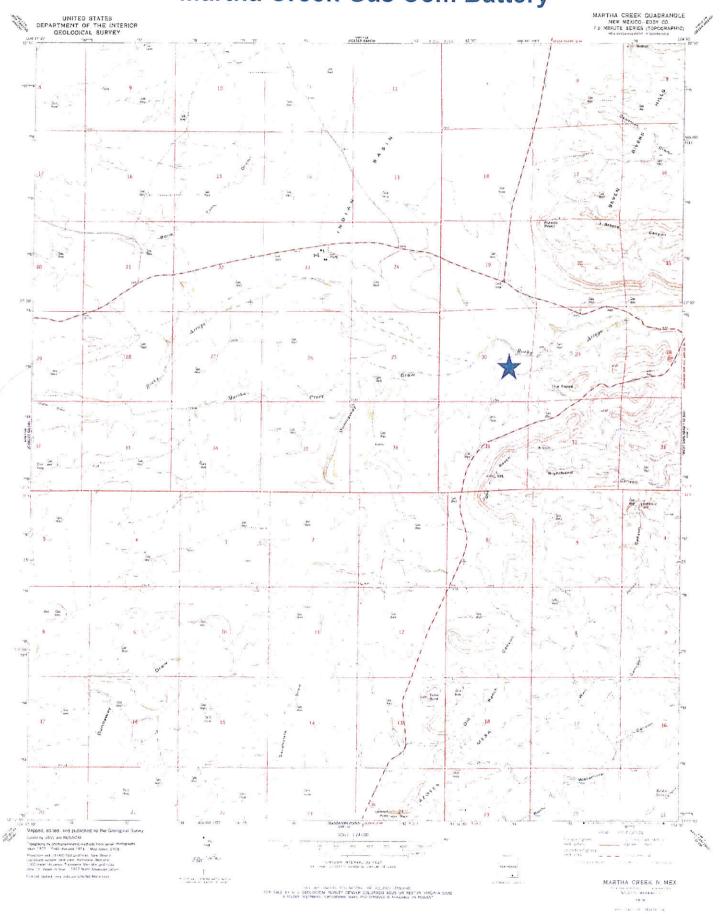
USGS

SEO

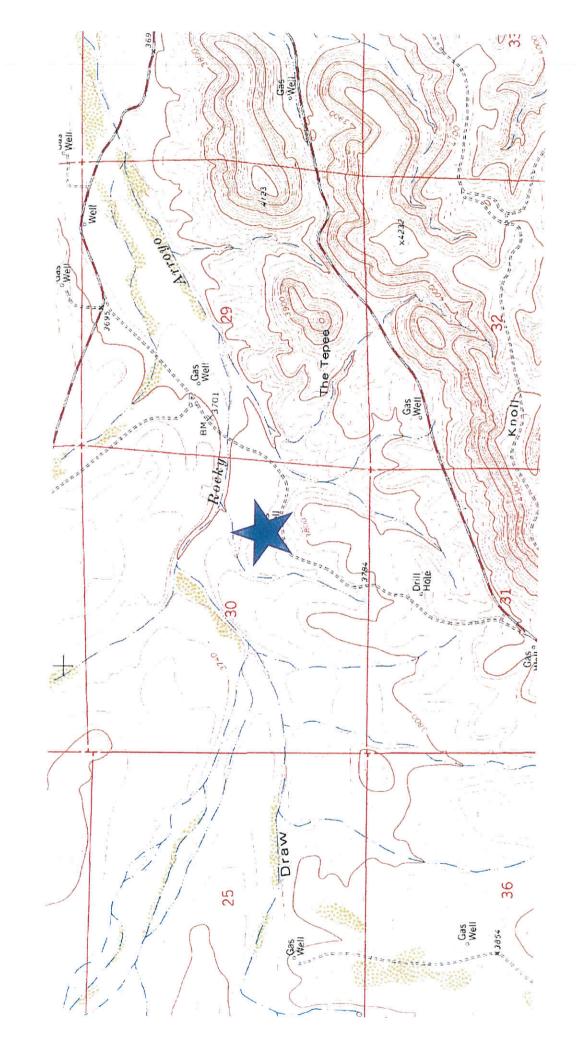
All Databases

# Оху

# Martha Creek Gas Com Battery



Oxy Martha Creek Gas Com Battery



# Laboratory Analytical Results Summary Martha Creek Gas Com Battery

		Sample	SURFACE	SP1@1"	SP1@2	SP1@3"	SP1@4"	SP1 @ 5'	SP1 @ 6'
Analyte	Method	Date	217775	211115	3000	911115	97/176	94745	Satura
			mg/Kq	ma/Ka	mo/Ko	malka	mole	1	21000
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	00107	O O O	gy/gm
Foluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.030	0.07	0000	0000
Ethylbenzene BTEX	BTEX 8021B		0.408	0.274	<0.050	0.235	0.50	0.073	00000
Fotal Xylenes	otal Xylenes BTEX 8021B		1.39	0.518	<0.150	1 00	7 56	0.000	0000
Fotal BTEX	BTEX 8021B		1.79	0.791	<0.300	1 33	8.43	1 42	\$0.150
Chloride	SM4500CI-B		176	32	16	2/0	24.0	247	×0.300
GRO	TPH 8015M		330	97.6	<10.0	102	205	50.4	Na V
DRO	TPH 8015M		40800	8270	489	4620	1630	200	2.00

	- 2	эдшре	SURFACE	SP2.@1.	SP2@2.	SP2 @ 3'	SP2 @ 4	SP2 @ 5'
Analyte	Method	Date	7/8/15	7/6/15	78/15	7/8/15	7/8/15	91/15
			mp/Kg	ma/Ka	ma/Ka	ma/Ka	malko	- Mica
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	050.05	Supplied to
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050	0/0
Ethylbenzene	BTEX 8021B		0.716	0.141	0 109	<0.050	0000	al of o
Total Xylenes	otal Xylenes BTEX 8021B		3.04	0.57	0 321	0.78	10.000	B/II
Total BTEX	BTEX 8021B		3.75	0.711	0.43	0.478	VO 300	B/II
Chloride	SM4500CI-B		816	528	640	640	480	476
GRO	TPH 8015M		303	91.4	41.5	58.5	0017	0/0
DRO	TPH 8015M		38500	8690	3450	3840	41.4	0/0

		Sample	SURFACE	SP3@1	SP3 @ 2.	SP3 @ 3'	SP3 @ 4"
Analyte	Method	Date	7/8/15	78415	7/8/15	78/15	SVIVIE
			ma/Kq	mo/Kq	ma/Ka	ma/Ka	molko
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0 050 OS
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Ethylbenzene	BTEX 8021B		0.849	0.155	<0.050	<0.050	0000
Total Xylenes	BTEX 8021B		3.13	0.527	<0.150	40.150	10000
Total BTEX	BTEX 8021B		3.97	0.681	<0.300	<0.300	200
Chloride	SM4500CI-B		864	544	624	608	144
SRO	TPH 8015M		334	95.7	40.3	223	410.0
ORO	TPH 8015M		39400	9220	3670	2160	37.7

		Sample	SURFACE	SP4@1	SP4@2"	SP4 @ 3*
Analyte	Method	Date	7/8/15	7/8/15	78815	51/15
			mg/Kg	ma/Ka	ma/Ka	mo/Kn
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Ethylbenzene BTEX 8021B	BTEX 8021B		0.571	0.073	690.0	<0.050
Total Xylenes BTEX 8021B	BTEX 8021B		2.1	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.67	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		816	576	768	128
GRO	TPH 8015M		372	118	46.3	<10.0
DRO	TPH 8015M		41900	10900	3470	30.4

		Sample	SP5@ SURFACE	SP5 @ 1.	SP5@2"	SP5@3*	SP5 @ 4'	SP5@5	SP5 @ 6*
Analyte	Method	Date	7/8/15	7,8/15	7/8/15	941/15	90,000	Drawe	
			111	The Control of the Party	ACAD SOCIAL STREET		0.000	SHIRE	201712
			mg/Kg	mg/Kg	mg/Kg	ma/Ka	ma/Ka	molKo	and Men
Benzene	BTEX 8021B		<0.200	<0.200	<0.050	<0.100	CO 100	05007	Supply of the su
oluene	BTEX 8021B		00000>	0000	020	000	3	0000	-0.050
the discount	O TALL		0.7.0	20.200	20.000	<0.100	<0.100	<0.050	<0.050
cuiyibenzene	BIEX 8021B		0.252	1.05	0.071	0.439	0 111	0.435	OBO 02
otal Xylenes	BTEX 8021B		6.4	4 04	<0.150	36		200	00.00
Atal BTEV	DTCV OVAL			10.1	20.00	6.0	1.47	0.465	<0.150
Olai DI EA	DIEA OUZIB		6.65	2.09	<0.300	3.04	1.58	60	AO 300
Chloride	SM4500CI-B		144	64	33	ola	1	2:5	20.00
Cap	- 100 - TO			5	75	חמ	IN'S	n/a	n/a
ONO	MCLOS HAI		436	316	23.5	182	158	29.8	0017
DRO	TPH 8015M		41000	8480	1510	5420	4000	20.02	0.01
			11000	040	0161	2470	1200	574	



July 24, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MARTHA CREEK GAS COM BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 11:20.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keene

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



#### Analytical Results For:

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

Fax To:

(575) 397-0397

Received:

07/17/2015

Sampling Date:

07/07/2015

Reported:

07/24/2015

Sampling Type:

Soil

Project Name:

MARTHA CREEK GAS COM BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

EDDY COUNTY, NM

Sample ID: SP1 @ SURFACE (H501847-01)

BTEX 8021B	mg,	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.200	0.200	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.408	0.200	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	1.39	0.600	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	1.79	1.20	07/21/2015	· ND					
Surrogate: 4-Bromofluorobenzene (PIE	131 9	% 85.6-13	7			77.44.C-117.44.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114.C-114			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/22/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	330	100	07/21/2015	ND	179	89.6	200	4.76	
DRO >C10-C28	40800	100	07/21/2015	ND	182	90.9	200	10.5	
Surrogate: 1-Chlorooctane	122 %	6 47.2-157	•						
Surrogate: 1-Chlorooctadecane	942 %	52.1-176							

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardnal'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 analysiss. All claims, including those for negligence and any other cause whatboever shall be deemed waired unless made in writing and received by Cardinal within thirty (30) days after completion of the applicible 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 subsidianes, affiliates or successors arising out of or related to the performance of the services bereunder 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.

Celeg Z. Keine -

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Fax To:

(575) 397-0397

Received:

07/17/2015

Sampling Date:

07/07/2015

Reported:

07/24/2015

Sampling Type:

Soil

Project Name:

MARTHA CREEK GAS COM BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

EDDY COUNTY, NM

Sample Received By:

Judy Garcia

Sample ID: SP1 @ 1' (H501847-02)

BTEX 8021B	mg/	kg	Analyz	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.274	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	0.518	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	0.791	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	157 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP	#				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2015	ND	416	104	400	0.00	
TPH 8015M mg		(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	97.6	10.0	07/21/2015	ND	179	89.6	200	4.76	
DRO >C10-C28	8270	10.0	07/21/2015	ND	182	90.9	200	10.5	
Surrogate: 1-Chlorooctane	108 %	47.2-157				<del></del>	**************************************	***************************************	
Surrogate: 1-Chlorooctadecane	163 %	52.1-176	í						

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\*=Accredited Analyte

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#### Analytical Results For:

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

Fax To:

(575) 397-0397

Received:

07/17/2015

Sampling Date:

07/07/2015

Reported:

07/24/2015

Sampling Type:

Soil Cool & Intact

Project Name:

MARTHA CREEK GAS COM BATTERY

Sampling Condition: Sample Received By:

Judy Garcia

Project Number: Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sample ID: SP1 @ 2' (H501847-03)

BTEX 8021B	mg,	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	< 0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1189	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2015	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	07/21/2015	ND	179	89.6	200	4.76	
DRO >C10-C28	489	10.0	07/21/2015	ND	182	90.9	200	10.5	
Surrogate: 1-Chlorooctane	87.3 %	6 47.2-157	7			NITTED TO THE TOTAL CONTROL OF THE TOTAL CONTROL OT THE TOTAL CONTROL OF THE TOTAL CONTROL OT THE TOTAL CONTROL OF THE TOTAL CONTROL OF THE TOTAL CONTROL OT			
Surrogate: 1-Chlorooctadecane	82.5 %	52.1-176	5						

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\*=Accredited Analyte

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#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's,
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
ā	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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d by the cherd for the recommendation of the applicable		TIME B7 C1	EX H	ANALYSIS REQUEST

#54

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

Sample Condition Cool Intact Ves Yes

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'l Phone #:
☐ Yes ☐ No Add'l Fax #:

Dago 6 of 6