# **Closure Report**

Site Description							
Site Name:	Sundance 9 Federal #3 CTB						
Company:	Oxy Permian Ltd.						
Legal Description:	U/L D, Section 9, T24S, R31E						
County:	Eddy County, NM						
GPS Coordinates:	N 32.23692° W 103.78886°						

	Release Data								
Date of Release:	08/03/2016								
Type of Release:	Produced water								
Source of Release:	Corrosion of a nipple on the water transfer line								
Volume of Release:	238 bbls produced water								
Volume Recovered:	120 bbls								

Remediation Specifications									
Remediation Parameters:	depth of 3 ft or as excavated to a de	SP4, SP5, SP6, SP7, & SP8 were excavated to a practicable. The areas near SP1 & SP2 were epth of 4 feet with a liner in the excavation. The P3 was excavated to a depth of 6 in and the entire d with clean soil.							
Remediation Activities:	12/13/2017 to 1	2/21/2017							
Plan Sent to OCD:	09/14/2017	Email from Cliff Brunson to Mike Bratcher							
OCD Approval of Plan:	09/21/2017	Email from Mike Bratcher to Cliff Brunson							
Plan Sent to BLM: 09/14/2017 Email from Cliff Brunson to Shelly Tucker									
BLM Approval of Plan:	10/03/2017	Email from Shelly Tucker to Cliff Brunson							

Supporting Documentation							
Initial C-141	Signed 08/03/2016						
Final C-141	Upon completion						
Site Diagram	August 2016						
Groundwater Plot	300'						
TOPO Maps	August 2016						
Lab Summary	08/11/2016-08/16/2016						
Lab Analysis	08/11/2016-08/16/2016						
Correspondence	Request and approval of remediation plan via email						

## **Request for Closure**

Based on the completion of the remediation plan, Oxy requests closure approval from NMOCD.

Wade Dittrich, Oxy Permian Ltd.

01/10/2018

District I 1625 N. French Dr., Hobbs, NM 88240 District III

1000 Rio Brazos Road, Aztec, NM 87410

District IIII District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

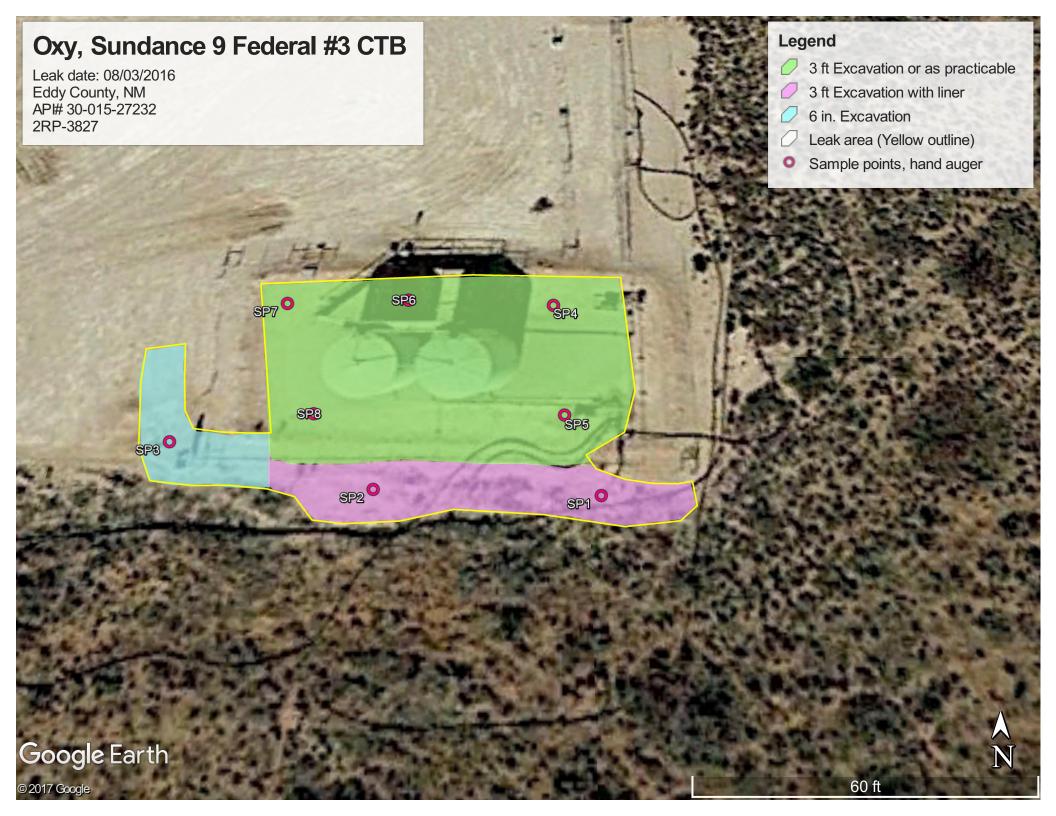
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141

Revised August 8, 2011

Release Notification and Corrective Action												
					_ (	OPERAT	OR	$\boxtimes$	Initial	Report		Final Report
Name of Co		Oxy Permia			$\overline{}$	Contact Casey Summers						
		ive, Midland				Telephone N		-8289				
Facility Nar	ne Sund	lance 9 Fede	ral #3 C1	ТВ		Facility Typ	e Battery					
Surface Ow	ner BL	M		Mineral O	wner				API No.	. 30-015-2	27232	
				LOCAT	ΓΙΟΝ	OF REL	EASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/Wes	st Line	County		1
D	9	24S	31E							Eddy		
_				ntitude N 32.23	602°	Longitud	e <u>W 103.78886</u>	0				
			L.	200000 DEPART	1000	DF RELE		_				
Type of Relea	ase Produ	ced water		NAIC	ILE		Release 238 bbl	ls V	olume R	ecovered	120 h	bbls
			ple on the	water transfer line	3	Date and H	lour of Occurrence			Hour of Di		
Was Immedia	nta Matica (	Tivan 9				08/03/2016						
was minicula	ne Nonce (		Yes [	No Not Re	quired		ther, Heather Patt	erson- NM	OCD; SI	helly Tuck	er- BL	М
By Whom?	Kathy Pur	vis @ BBC I	nternation	al Inc.		Date and H	lour 08/03/201	6 @ 12:37	pm			
Was a Watero	ourse Read					If YES, Vo	lume Impacting t	he Waterco	ourse.			
. 17			Yes 🗵	No								
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	•								73.6
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*								
Corresion of	a ninnta on	tha water tear	sefae lina c	aused a 238 bbls	leak of	produced wat	ne. A vacuum teu	ok roenvar	ad 120 bl	ble and the	ninnle	une earlaced
Corrosion or	a mppie on	tile water trai	ister fille t	auscu a 256 beis i	icak ui	produced war	er. A vacuum mu	CK TECUVET	cu 120 bi	nis and the	mppre	was replaced.
Describe Are	a Affected	and Cleanup A	Action Tal	(en.*								
The affected	area is anns	avimately 10	)' v 50' w	ith most of the lea	k stavit	ng on location	Remediation w	ill be come	deted in :	accordance	with	an approved
		MOCD and t		in most of the ieu	k stuyii	ng on rocurron	. Nemodianon w	m oc comp	noted iii	accordance	. ******	ш прртотеа
	e	, т				1 1		1 . 1	.1 .		10.0D	
				is true and compl nd/or file certain re								
public health	or the envi	ronment. The	acceptano	e of a C-141 repo	rt by th	e NMOCD m	arked as "Final R	eport" doe	s not reli	eve the ope	erator (	of liability
should their o	perations b	ave failed to	ndequately	investigate and re	emedia	te contaminati	on that pose a thr	eat to grou	nd water	, surface w	ater, h	uman health
		lddition, NMC ws and/or regi		stance of a C-141	report d	loes not reliev	e the operator of	responsibil	ity for co	ompliance	with a	ny other
rederar, state,	or rocar ta	// / / / / / / / / / / / / / / / / / /	nucions.		$\overline{}$		OIL CON	SERVA	TION	DIVISI	ON	
Cianatura												
Signature:  Approved by Environmental Specialist:												
Printed Name: Casey Summers						Approved by	Environmental 3	pecialist:				
Title: NM I	Environmer	ıtal Advisor				Approval Dat	e:	Ex	piration I	Date:		
E mail Adda	viet Coor	y_Summers@	0000									77.7
E-mail Addre		10				Conditions of	мрргочат:			Attached	1 🗆	
Date:	8-1	1-16	Phone	(575) 513-828	9							

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



### Oxy, Sundance 9 Federal #3 CTB

Sample points, hand auger

SP1, N 32.23688 W-103.78886

SP2, N 32.23689 W-103.78900

SP3, N 32.23691 W-103.78913

SP4, N 32.23700 W-103.78889

SP5, N 32.23693 W-103.78888

SP6, N 32.23700 W-103.78899

SP7, N 32.23700 W-103.78907

SP8, N 32.23693 W-103.78904

# Oxy, Sundance 9 Federal #3 CTB U/L D, Section 9, T24S, R31E Groundwater: 300'





## 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.)

(R=POD has been replaced, O=orphaned,

(quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

		POD											
		Sub-		Q	Q	Q							Water
POD Number	Code	basin	County	64	<b>16</b>	4	Sec	Tws	Rng	X	Y	DistanceDepth'	WellDepthWater Colum
<u>C_02783</u>		CUB	ED	3	3	1	04	24S	31E	613911	3568461	1096	708
C 02783 POD2		C	ED	3	3	1	04	24S	31E	613911	3568461	1096	672
<u>C 02784</u>		C	ED	4	2	4	04	24S	31E	613911	3568461	1096	584
<u>C 02661</u>			ED	3	3	1	04	24S	31E	613969	3568485*	1111	708
<u>C 02785</u>			ED	3	3	1	04	24S	31E	613969	3568485*	1111	692
											Avera	ge Depth to Water:	
												Minimum Depth:	: <b></b>
												Maximum Depth:	

**Record Count:** 5

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

**Easting (X):** 614082 **Northing (Y):** 3567379 **Radius:** 1700

\*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.

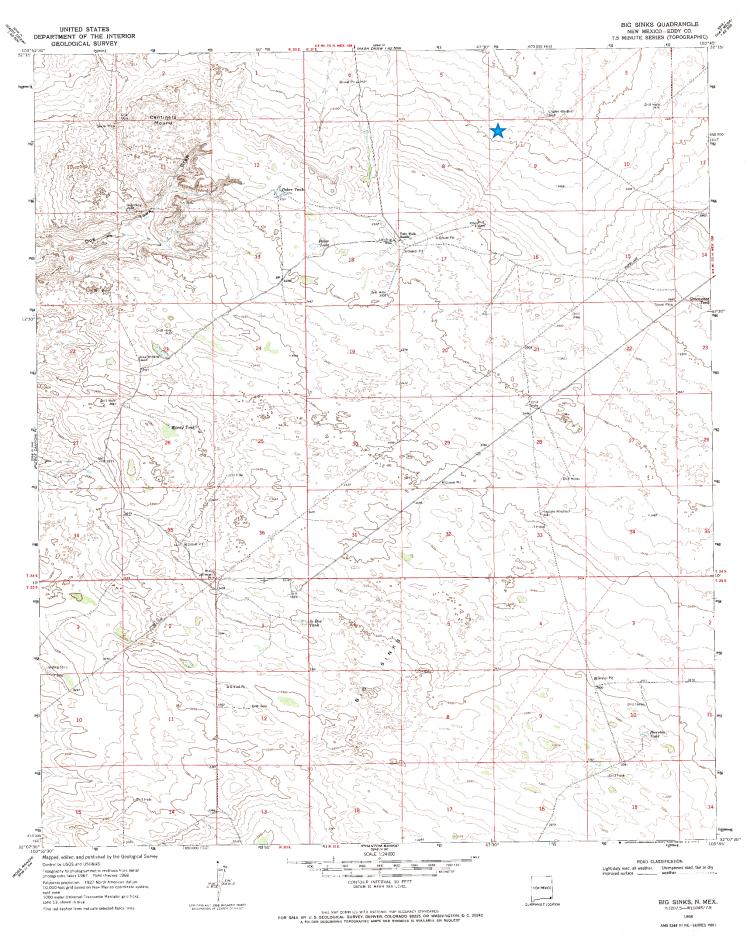
7/18/17 9:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

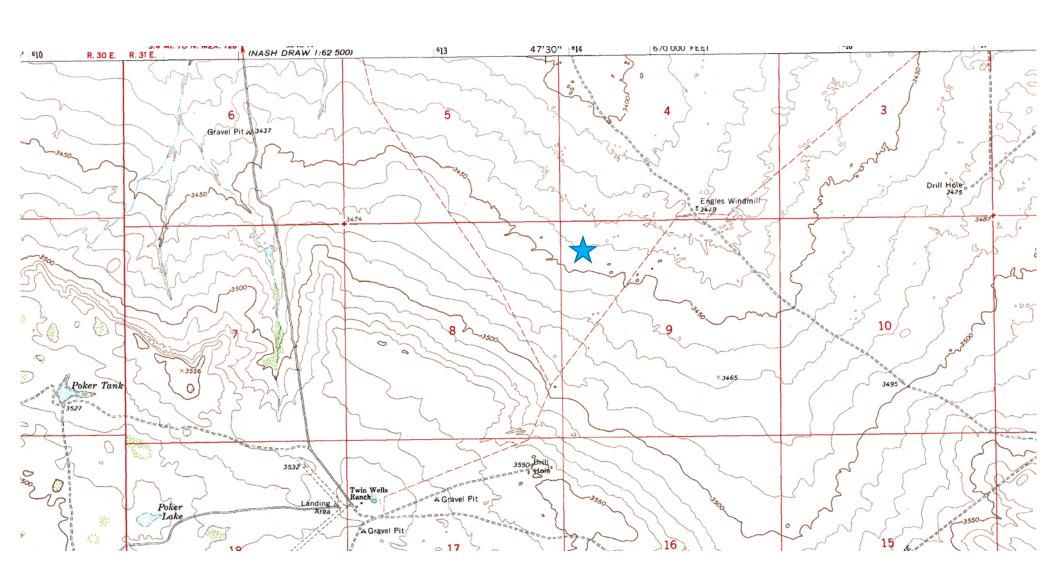
Q64:	Public Land S	Survey System (PLSS) Sec: 09 Tws: 24S Rng: 31E								
X: ft	State Plane Coo	ordinate System - NAD27  Zone:								
X: ft	State Plane Coo	ordinate System - NAD83  Zone:								
Longitude (X): Latitude (Y):										
Easting (X):	UTM - NAD27  Easting (X): mtrs Northing (Y): mtrs Zone:									
All Easting (X):	Conversion Results are of the following of the following materials are of the following mater	displayed as NAD 1983 UTM Zone 13  Northing (Y): 3567379.0 mtrs  n to copy UTM values for Reports. ~~								

# Oxy

## **Sundance 9 Federal #3 CTB**



# Oxy Sundance 9 Federal #3 CTB



### Laboratory Analytical Results Summary Sundance 9 Federal #3

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'
Analyte	Method	Date	8/11/16	8/11/16	8/11/16	8/11/16	8/11/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		16000	25200	880	1390	1230

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'
Analyte	Method	Date	8/11/16	8/11/16	8/11/16	8/11/16	8/11/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		15600	27600	960	1100	1310
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	8/11/16	8/15/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		160	<16.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	8/15/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		13600	576	160

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	8/15/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		5600	752	160

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	8/15/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a
Total Xylenes	BTEX 8021B		< 0.150	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a
Chloride	SM4500CI-B		4960	752	144
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	8/16/16	8/16/16	8/16/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4720	416	160

		Sample	SP8 @ 1'	SP8 @ 3'	SP8 @ 4'
Analyte	Method	Date	8/16/16	8/15/16	8/15/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		5520	1360	144



August 22, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 9 FED #3

Enclosed are the results of analyses for samples received by the laboratory on 08/17/16 13:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/11/2016

Reported: 08/22/2016 Sampling Type: Soil Project Name: SUNDANCE 9 FED #3 Sampling Condition: Coo

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

### Sample ID: SP 1 @ 1' (H601842-01)

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	08/19/2016	ND	432	108	400	3.77	
Sample ID: SP 1 @ 3' (H6	601842-02)								
Chloride, SM4500CI-B	mg,	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	08/19/2016	ND	432	108	400	3.77	
Sample ID: SP 1 @ 5' (H6	601842-03)								
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/19/2016	ND	432	108	400	3.77	
Sample ID: SP 1 @ 7' (H6	601842-04)								
Sample ID: SP 1 @ 7' (H6 Chloride, SM4500Cl-B	601842-04) mg/	'kg	Analyze	d By: AC					
•	-	<b>'kg</b> Reporting Limit	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/11/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

### Sample ID: SP 1 @ 9' (H601842-05)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	08/19/2016	ND	432	108	400	3.77	

### Sample ID: SP 2 @ 1' (H601842-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2016	ND	2.30	115	2.00	1.39	
Toluene*	<0.050	0.050	08/18/2016	ND	2.35	117	2.00	1.25	
Ethylbenzene*	<0.050	0.050	08/18/2016	ND	2.25	113	2.00	1.81	
Total Xylenes*	<0.150	0.150	08/18/2016	ND	6.81	113	6.00	1.86	
Total BTEX	<0.300	0.300	08/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID 107 % 73.6-140

Surrogate: 4-Bromojiuorobenzene (P1D	107	% /3.0-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	08/19/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	
Surrogate: 1-Chlorooctane	92.8	% 35-147	7						

Surrogate: 1-Chlorooctadecane 92.8 % 35-14/
Surrogate: 1-Chlorooctadecane 105 % 28-171

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/11/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

### Sample ID: SP 2 @ 3' (H601842-07)

esult 7600	Reporting Limit	Analyzed 08/19/2016	Method Blank ND	BS 432	% Recovery	True Value QC 400	RPD 3.77	Qualifier
	16.0	08/19/2016	ND	432	108	400	3.77	
٥١								
8)								
mg	/kg	Analyze	ed By: AC					
esult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
60	16.0	08/19/2016	ND	432	108	400	0.00	
	mg Result	, ,	Result Reporting Limit Analyzed	Result Reporting Limit Analyzed Method Blank	Result Reporting Limit Analyzed Method Blank BS	Result Reporting Limit Analyzed Method Blank BS % Recovery	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

### Sample ID: SP 2 @ 7' (H601842-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/19/2016	ND	432	108	400	3.77	

### Sample ID: SP 2 @ 9' (H601842-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	08/19/2016	ND	432	108	400	0.00	

### Sample ID: SP 3 @ 1' (H601842-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/19/2016	ND	432	108	400	0.00	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/15/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Result

13600

Reporting Limit

16.0

### Sample ID: SP 3 @ 2' (H601842-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/19/2016	ND	432	108	400	0.00	
Sample ID: SP 4 @ 1' (H6018	42-13)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					

Method Blank

ND

BS

432

% Recovery

108

Analyzed

08/19/2016

### Sample ID: SP 4 @ 3' (H601842-14)

Analyte

Chloride

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/19/2016	ND	432	108	400	0.00	

### Sample ID: SP 4 @ 4' (H601842-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/19/2016	ND	432	108	400	0.00	

### Sample ID: SP 5 @ 1' (H601842-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	08/19/2016	ND	432	108	400	0.00	

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

RPD

0.00

True Value QC

400

Qualifier



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/15/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: SP 5 @ 3' (H601842-17)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 752 16.0 08/19/2016 ND 432 108 400 0.00

Sample ID: SP 5 @ 4' (H601842-18)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 160 16.0 08/19/2016 432 108 400 0.00 ND

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Celeg D. Freene



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/15/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Celey D. Keene

Project Location: **NOT GIVEN** 

### Sample ID: SP 6 @ 1' (H601842-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2016	ND	2.30	115	2.00	1.39	
Toluene*	<0.050	0.050	08/18/2016	ND	2.35	117	2.00	1.25	
Ethylbenzene*	< 0.050	0.050	08/18/2016	ND	2.25	113	2.00	1.81	
Total Xylenes*	<0.150	0.150	08/18/2016	ND	6.81	113	6.00	1.86	
Total BTEX	<0.300	0.300	08/18/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	08/19/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	
Surrogate: 1-Chlorooctane	95.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	% 28-171							

### Sample ID: SP 6 @ 3' (H601842-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/19/2016	ND	432	108	400	0.00	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/15/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

### Sample ID: SP 6 @ 4' (H601842-21)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/19/2016	ND	432	108	400	0.00	
Sample ID: SP 7 @ 1' (H6	01842-22)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	Result	reporting Limit	rangeca	ricaloa biank	55	70 Recovery	Truc value QC	KI D	Qualifici

### Sample ID: SP 7 @ 3' (H601842-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/19/2016	ND	432	108	400	0.00	

### Sample ID: SP 7 @ 4' (H601842-24)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/19/2016	ND	432	108	400	0.00	

### Sample ID: SP 8 @ 1' (H601842-25)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	08/19/2016	ND	432	108	400	0.00	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/17/2016 Sampling Date: 08/16/2016

Reported: 08/22/2016 Sampling Type: Soil

Project Name: SUNDANCE 9 FED #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: SP 8 @ 3' (H601842-26)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1360 16.0 08/19/2016 ND 432 108 400 0.00

Sample ID: SP 8 @ 4' (H601842-27)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 144 16.0 08/19/2016 432 108 400 0.00 ND

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Celeg D. Freene



### **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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(000) 000-2020 1 00 (000)	53-24/0				0
Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805		Company: OXV			
city: Hobbs State	State: NM Zip: 88241	Attn:			_
Phone #: 575-397-6388 Fax #:	575-397-0397	Address:			
Project #: Projec	Project Owner: OVV	City:			
Project Name: Sundance 9.	£#037	State: Zip:			
		Phone #:			
Sampler Name: Rose Hea	e Heenandes	Fax #:	, ,		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	710		
Lab I.D. Sample I.D.	AB OR (C)OM NTAINERS JINDWATER EWATER	R: BASE: COOL R:	HLOK TPI BTE		×
50/0/	- #	N 00 00 00 00 00 00 00 00 00 00 00 00 00	920		1
2 ' 5'	611		0/5		
io.	1 2	N.11.3	1039		
, C	6/	6 8-11-16	105		
5	6	8.11.6	1129 1		
1000000		00.1.6	175		
8	0	91.11.3	7		
	- 4	-	700 /		
10 Principle 10 Pr	remedy for any claim arising whether based in contract	or tort shall be limited to the amount road b	0		
Inalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable ervice. 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, iffiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated to the performance of services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated to the performance of services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated to the performance of services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated to the performance of services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated to the performance of services hereunder by Cardinal, regardless of whether such claims.	Aussier einieur yn ain y caini aitsiig wiletiiet dascu ii cylliadd, hatsoever shall be deemed walved unless made in writing and damagaes, including without limitation, business interruptions, i ces hereunder by Cardinal, regardless of whether such claim in	to riou, shail be limited to the amount paid of received by Cardinal within 30 days after o loss of use, or loss of profits incurred by clie is based upon any of the above stated reaso	by the cirent for the completion of the applicable ent, its subsidiaries, cons or otherwise.		
Relinquished By:  Bottle Tolkhando Time:	7:16 Received By:	P	Phone Result:	to Add'I Phone #: to Add'I Fax #:	
Relinguished By:	Received By:	W			
Time:	The Received by	9			
(Circle One)			1		
Campion Co. Caron	4.1   In on I no	CON D. 1			



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		-
	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company: OW	
City: Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner:	City:	
Project Name: SUNDANCE OF FED #3	State: Zip:	
	Phone #:	
Sampler Name: Parte Heavings	Fax#:	
	PRESERV. SAMPLING	
Lab I.D. Sample I.D.  Sor (C)OM TAINERS NDWATER EWATER	ASE: OOL	
# CON	OTHER ACID/E ICE / C OTHER TIME	
1 20301.	1 582 9:11:6	
2 2	1 8.5.16 Byo 1	
1007001	200 St. 16 100	
15 4.	1 0011 N. S. S. S.	
16 505	1 3.12.16 1125	
18 10	50.19.16.100	
19 Spholi	1 8.5.6.42	
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Received By:  Control of Time:  Received By:  Time:	Phone Result: ☐ Yes ☐ Fax Result: ☐ Yes ☐ REMARKS:	□ No Add'l Phone #: □ No Add'l Fax #:
Relinquished By:  Date:   Received By:   Time:   Received By:   Re		
	ion CHECKED BY:	
Sampler - UPS - Bus - Other:	7	



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476	o		
Company Name: BBC International, Inc.		BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company: OKU	
City: Hobbs State: NM	Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575	575-397-0397	Address:	
Project #: Project Owner:	Old	City:	
Project Name: SUNDAILE 9 FE	S, #0	State: Zip:	
Project Location:	,	Phone #:	
Sampler Name: Rocell (Eding) Per	?	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER: DATE	CHL OR
11 Sp60H.	61	8-15-16 725	
11 9605		816-16 950	
1/2	6 1	Cho! 91.91.5	
25 SP801'	7	0611 91.91.8	
36	1 5	1 8.16.16	
27 4'	6	1 8.16.16 130	

Sample Condition
Cool Mitact
Pes Pes
No No

CHECKED BY:

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

Relinquished By

ice. In no event shall Cardinal be liable

Date: 8-/7-/6

Received By

made in writing and received by Cardinal within 30 days after completion of the applicable ness interruptions, loss of use, or loss of profits incufred by client, its subsidiaries,

Phone Result: Fax Result: REMARKS:

□ Yes

□ No

Add'l Phone #: Add'l Fax #: paid by the client for the

Time: 1:176

Received By:

From: Bratcher, Mike, EMNRD

To: Cliff Brunson; Shelly Tucker

Cc: Wade Dittrich; Jennifer Smith@oxy.com; Weaver, Crystal, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: OXY Sundance 9 Federal #3 CTB (2RP-3827) - Delineation Workplan

Date: Thursday, September 21, 2017 9:29:14 AM

RE: OXY USA \* Sundance 9 Fed 3 (CTB) \* 2RP-3827 \* DOR: 8/3/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Federals sites will require like approval from BLM. Please advise once remedial activities have been scheduled.

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

**From:** Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Thursday, September 14, 2017 6:53 PM

**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov> **Cc:** Wade Dittrich <Wade\_Dittrich@oxy.com>; Jennifer\_Smith@oxy.com; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com> **Subject:** OXY Sundance 9 Federal #3 CTB (2RP-3827) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Sundance 9 Federal #3 CTB (2RP-3827). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval. Mike, this plan is one we discussed recently.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 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: <a href="mailto:cbrunson@bbcinternational.com">cbrunson@bbcinternational.com</a>



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From: Tucker, Shelly
To: <u>Bratcher, Mike, EMNRD</u>

Cc: Cliff Brunson; Wade Dittrich; Jennifer Smith@oxy.com; Weaver, Crystal, EMNRD; Ken Swinney; Jennifer Gilkey;

**Kathy Purvis** 

Subject: Re: OXY Sundance 9 Federal #3 CTB (2RP-3827) - Delineation Workplan

**Date:** Tuesday, October 3, 2017 4:23:45 PM

### BLM concurs with NMOCD approval.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist O&G Spill/Release Coordinator

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - Cellular 575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Thu, Sep 21, 2017 at 9:29 AM, Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us > wrote:

RE: OXY USA \* Sundance 9 Fed 3 (CTB) \* 2RP-3827 \* DOR: 8/3/16

Cliff,

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Mike Bratcher

NMOCD District 2

811 South First Street

Artesia, NM 88210

575~748~1283 Ext 108

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**From:** Cliff Brunson [mailto:<u>cbrunson@bbcinternational.com</u>]

**Sent:** Thursday, September 14, 2017 6:53 PM

**To:** Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>; Shelly Tucker

<stucker@blm.gov>

Cc: Wade Dittrich < Wade Dittrich@oxy.com; Jennifer Smith@oxy.com; Weaver,

Crystal, EMNRD < Crystal. Weaver@state.nm.us >; Ken Swinney

< kswinney@bbcinternational.com>; Jennifer Gilkey < igilkey@bbcinternational.com>;

Kathy Purvis < kathy@bbcinternational.com>

**Subject:** OXY Sundance 9 Federal #3 CTB (2RP-3827) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Sundance 9 Federal #3 CTB (2RP-3827). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval. Mike, this plan is one we discussed recently.

If v	<i>l</i> ou	have	anv	questions,	please	let me	know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

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: cbrunson@bbcinternational.com



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