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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NVF1905937101
District RP	
Facility ID	
Application ID	

Release Notification

RCVD Emai 6/25/19

Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Jennifer Deal	Contact Telephone 505-801-6517
Contact email jdeal@hilcorp.com	Incident # NVF1905937101
Contact mailing address 382 Road 3100, Aztec NM 87410	

Location of Release Source

Latitude 36.8070183 Longitude -107.8778305

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Sunray B 1F	Site Type Gas Well
Date Release Discovered 2/28/2019 @ 7:00am	API# *30-045-34494*

Unit Letter	Section	Township	Range	County
M	15	30N	10W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls) 20	Volume Recovered (bbls) 0
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A release of 20.04bbls of oil/condensate was released due to corrosion on bottom of the tank. When operator was gauging tank, he noticed a drop in tank level from previous month. There was a trace of condensate on the liner and under the snow. There are no visible leaks on the side of the tank. Nothing was recovered. Tank was taken out of service. Release remained inside the berm.

State of New Mexico
Oil Conservation Division

Incident ID	NVF1905937101
District RP	
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Site Assessment/Characterization

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?	>50 (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 **not** 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.

State of New Mexico
Oil Conservation Division

Incident ID	NVF1905937101
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: ___Jennifer Deal_____ Title: ____Environmental Specialist_____

Signature:_____ Jennifer Deal _____ Date: __5/21/2019_____

email: ___jdeal@hilcorp.com_____ Telephone: ___(505) 324-5128_____

OCD Only

Received by: _____ Date**:** _____

State of New Mexico
Oil Conservation Division

Incident ID	NVF1905937101
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.

Closure Report Attachment Checklist: ***Each of the following items 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)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jennifer Deal Title: Environmental Specialist

Signature: Jennifer Deal Date: 5/21/2019

email: jdeal@hilcorp.com Telephone: 505-801-6517

OCD Only

Received by: OCD Via Email Date: 6/25/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

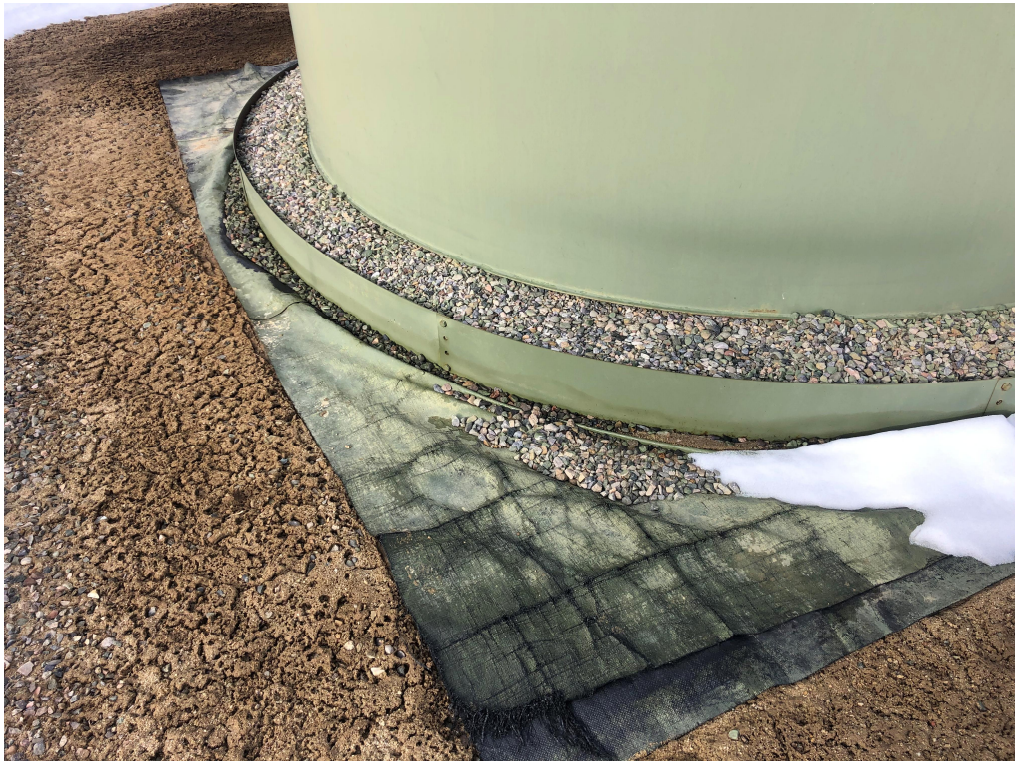
Closure Approved by: Date: 7/22/19

Printed Name: Cory Title: Environmental Specalist

Scaled Map

N

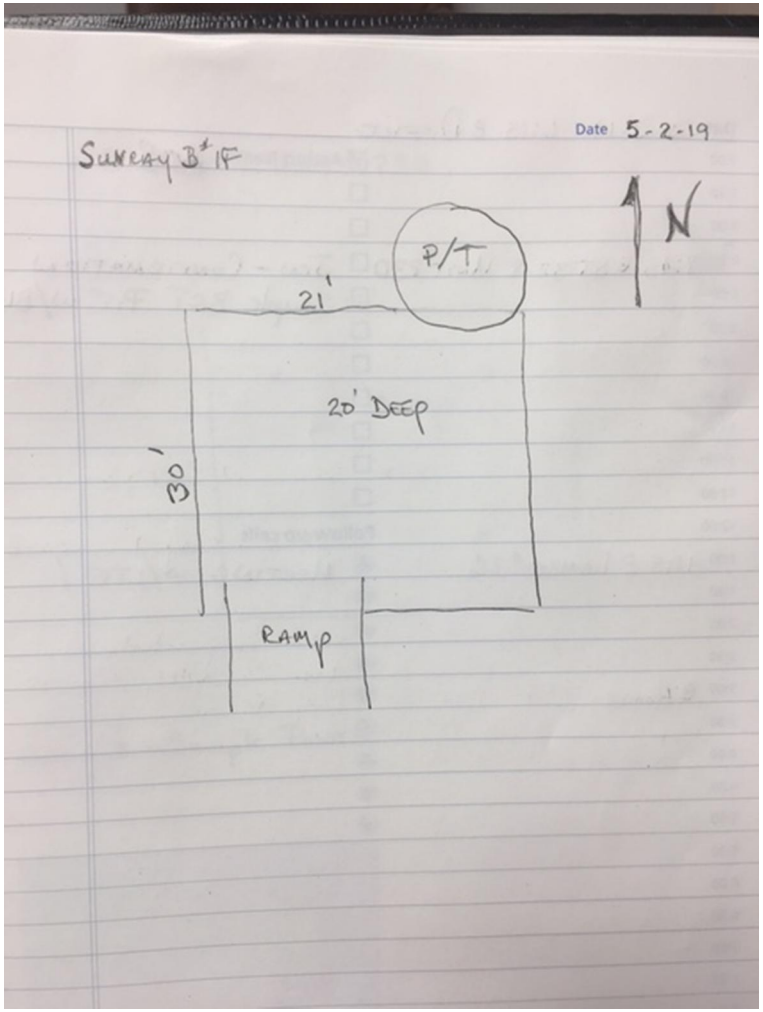
Photographs – 2/28/19 Release Event



Sunray B 1F Release Info

- Began dig and haul on 4/17 and ended 4/23. Hauled a total of 740yds of contaminated soil to IEI and brought in ~740yds of clean soil from Mesa Sand & Gravel
- Confirmation sampling occurred on 5/2 at 9am. Kurt was onsite with Emmanuel from BLM present and directing the sampling
- Site was backfilled 5/15/19

Field Data



Data table of soil contaminant concentration data

TABLE 1

SOIL ANALYTICAL RESULTS
SUNRAY B 1F
HILCORP ENERGY - L48 WEST

Soil Sample Identification	Sample Date	Field Headspace	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes	Total BTEX	Chlorides (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	MRO+DRO (mg/kg)	TPH (mg/kg)
Base	5/2/2019		<0.000505	<0.00505	<0.000505	<0.00152	<0.00505	<10	<0.100	<4.0	<4.0	<4.0	<4.0
W. Wall	5/2/2019		<0.0005	<0.005	<0.0005	<0.0015	<0.005	<10	<0.100	<4.0	<4.0	<4.0	<4.0
S. Wall	5/2/2019		<0.0005	<0.005	<0.0005	<0.0015	<0.005	<10	<0.100	<4.0	<4.0	<4.0	<4.0
N. Wall	5/2/2019		<0.0005	<0.005	<0.0005	<0.0015	<0.005	<10	<0.100	<4.0	<4.0	<4.0	<4.0
E. Wall	5/2/2019		<0.0005	<0.005	<0.0005	<0.0015	<0.005	<10	<0.100	<4.0	<4.0	<4.0	<4.0
NMOCD Standards		**NE**	**10**	**NE**	**NE**	**NE**	**50**	**10,000**	**NE**	**NE**	**NE**	**1,000**	**2,500**

Depth to water determination

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 15, 16, 21, 22 **Township:** 30N **Range:** 10W

Ground Water Depth

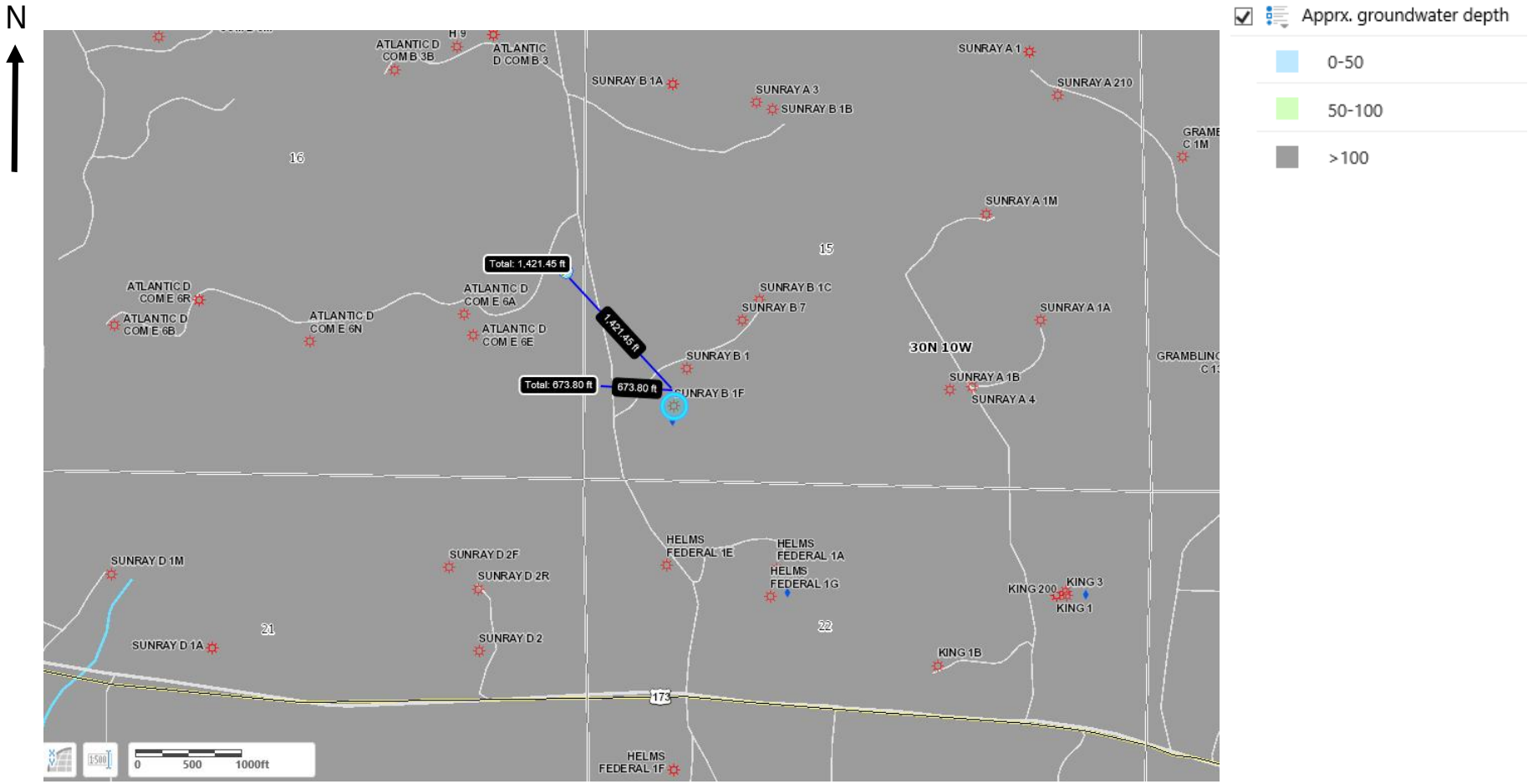
- No depth to ground water data found
- OCD website shows temporary pit closure with closure standards of 2500mg/kg for TPH. (*Full permit is attached*)

8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

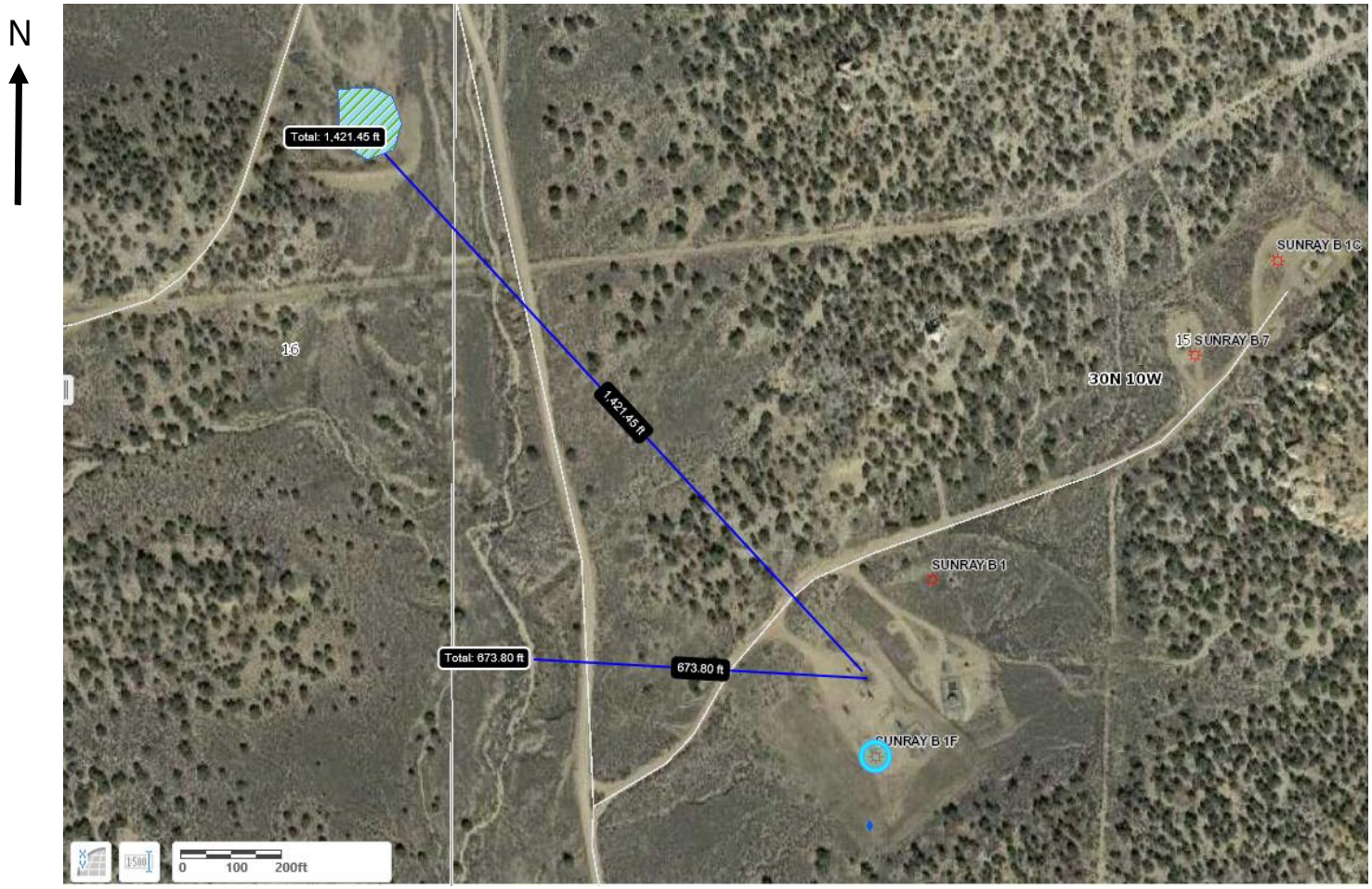
A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	.9 ug/kg
BTEX	EPA SW-846 8021B or 8260B	50	14.3 ug/kG
TPH	EPA SW-846 418.1	2500	504 mg/kg
GRO/DRO	EPA SW-846 8015M	500	ND mg/Kg
Chlorides	EPA 300.1	~~1000~~/500	24.5 mg/L

Ground water depth determination



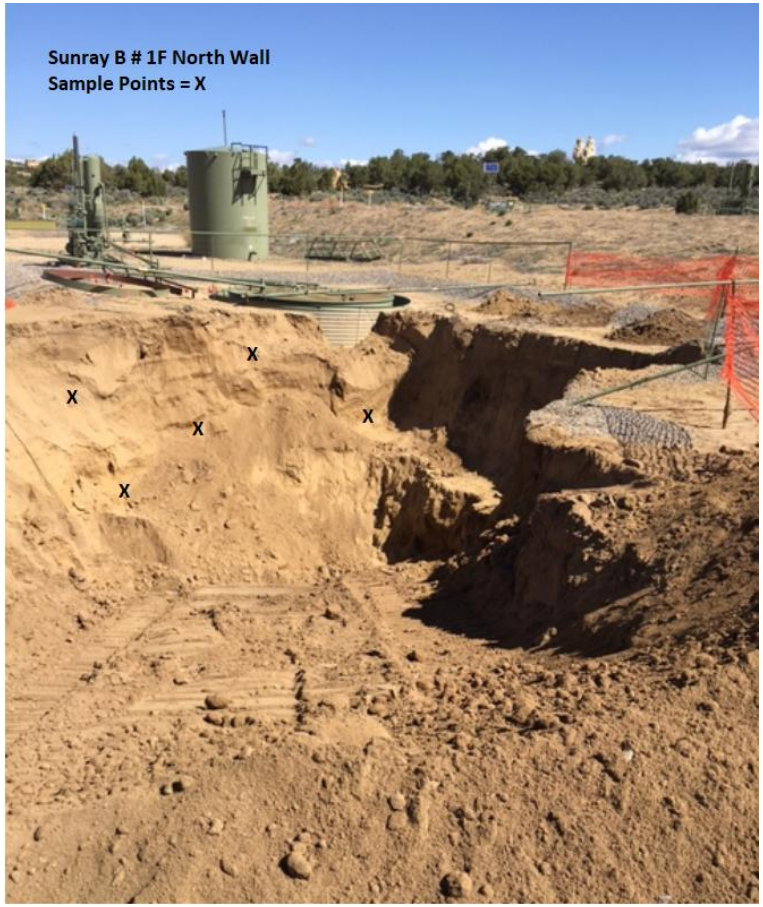
Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



Photographs – 5/2/19 Sampling Event

Base Sample

North Wall Sample

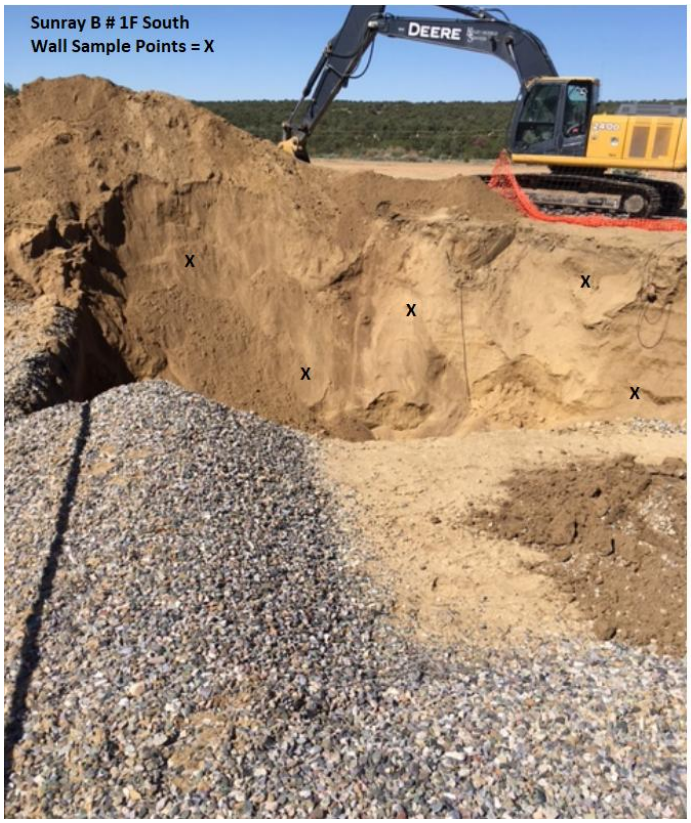


Photographs – 5/2/19 Sampling Event

West Sample

East Wall Sample

South Sample



Topographic/Aerial Maps

N

Jennifer Deal

From:	Jennifer Deal
Sent:	Monday, April 29, 2019 10:03 AM
To:	cory.smith@state.nm.us; Abiodun Adeloye; whitney thomas (l1thomas@blm.gov)
Cc:	Bobby Spearman; Kurt Hoekstra
Subject:	Confirmation Sampling: Sunray B 1F

Good morning,

Hilcorp Energy is providing 48-hour notice of confirmation sampling to occur on Thursday, May 2nd at 9:00am at the Sunray B 1F. Please let me know if you have any questions.

Thank you,

Jennifer Deal
Environmental Specialist
Hilcorp Energy – L48 West
jdeal@hilcorp.com
382 Road 3100
Aztec, NM 87410
Office: (505) 324-5128
Cell: (505) 801-6517

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

May 13, 2019

HilCorp-Farmington, NM

Sample Delivery Group:	L1095333
Samples Received:	05/04/2019
Project Number:	SUNRAY B #1F
Description:	SUNRAY B #1F
Site:	SUNRAY B #1F
Report To:	Jennifer Deal 382 Road 3100 Aztec, NM 87401

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Project Manager

TABLE OF CONTENTS

BASE L1095333-01 Solid

Collected by: Kurt | Collected date/time: 05/02/19 09:22 | Received date/time: 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1277444	1	05/08/19 14:50	05/08/19 19:52	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1277873	1	05/06/19 17:30	05/08/19 14:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG1278441	1.01	05/06/19 17:30	05/09/19 18:52	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1276910	1	05/07/19 06:18	05/07/19 19:16	KME	Mt. Juliet, TN

W. WALL L1095333-02 Solid

Collected by: Kurt | Collected date/time: 05/02/19 09:25 | Received date/time: 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1277447	1	05/09/19 14:50	05/13/19 13:37	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1277873	1	05/06/19 17:30	05/08/19 15:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG1278441	1	05/06/19 17:30	05/09/19 19:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1276910	1	05/07/19 06:18	05/07/19 18:30	KME	Mt. Juliet, TN

S. WALL L1095333-03 Solid

Collected by: Kurt | Collected date/time: 05/02/19 09:30 | Received date/time: 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1277447	1	05/09/19 14:50	05/13/19 13:55	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1277873	1	05/06/19 17:30	05/08/19 15:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG1278441	1	05/06/19 17:30	05/09/19 19:33	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1276910	1	05/07/19 06:18	05/07/19 18:41	KME	Mt. Juliet, TN

N. WALL L1095333-04 Solid

Collected by: Kurt | Collected date/time: 05/02/19 09:33 | Received date/time: 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1277447	1	05/09/19 14:50	05/13/19 14:04	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1277873	1	05/06/19 17:30	05/08/19 16:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG1278441	1	05/06/19 17:30	05/09/19 19:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1276910	1	05/07/19 06:18	05/07/19 18:07	KME	Mt. Juliet, TN

E. WALL L1095333-05 Solid

Collected by: Kurt | Collected date/time: 05/02/19 09:53 | Received date/time: 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1277447	1	05/09/19 14:50	05/13/19 14:13	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1277873	1	05/06/19 17:30	05/08/19 16:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG1278441	1	05/06/19 17:30	05/09/19 20:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1276910	1	05/07/19 06:18	05/07/19 18:18	KME	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Project Manager

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	1	05/08/2019 19:52	WG1277444

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000505	1.01	05/09/2019 18:52	WG1278441
Toluene	ND		0.00505	1.01	05/09/2019 18:52	WG1278441
Ethylbenzene	ND		0.000505	1.01	05/09/2019 18:52	WG1278441
Total Xylene	ND		0.00152	1.01	05/09/2019 18:52	WG1278441
TPH (GC/FID) Low Fraction	ND		0.100	1	05/08/2019 14:53	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*97.9*		*77.0-120*		*05/08/2019 14:53*	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*05/09/2019 18:52*	WG1278441
(S) a,a,a-Trifluorotoluene(PID)	*102*		*72.0-128*		*05/08/2019 14:53*	WG1277873
(S) a,a,a-Trifluorotoluene(PID)	*96.9*		*72.0-128*		*05/09/2019 18:52*	WG1278441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/07/2019 19:16	WG1276910
C28-C40 Oil Range	ND		4.00	1	05/07/2019 19:16	WG1276910
(S) o-Terphenyl	*40.7*		*18.0-148*		*05/07/2019 19:16*	WG1276910

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	ND		10.0	1	05/13/2019 13:37	WG1277447

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	05/09/2019 19:12	WG1278441
Toluene	ND		0.00500	1	05/09/2019 19:12	WG1278441
Ethylbenzene	ND		0.000500	1	05/09/2019 19:12	WG1278441
Total Xylene	ND		0.00150	1	05/09/2019 19:12	WG1278441
TPH (GC/FID) Low Fraction	ND		0.100	1	05/08/2019 15:16	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*97.4*		*77.0-120*		*05/08/2019 15:16*	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*89.8*		*77.0-120*		*05/09/2019 19:12*	WG1278441
(S) a,a,a-Trifluorotoluene(PID)	*99.9*		*72.0-128*		*05/08/2019 15:16*	WG1277873
(S) a,a,a-Trifluorotoluene(PID)	*93.7*		*72.0-128*		*05/09/2019 19:12*	WG1278441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.00	1	05/07/2019 18:30	WG1276910
C28-C40 Oil Range	ND		4.00	1	05/07/2019 18:30	WG1276910
(S) o-Terphenyl	*53.3*		*18.0-148*		*05/07/2019 18:30*	WG1276910

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	1	05/13/2019 13:55	WG1277447

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	05/09/2019 19:33	WG1278441
Toluene	ND		0.00500	1	05/09/2019 19:33	WG1278441
Ethylbenzene	ND		0.000500	1	05/09/2019 19:33	WG1278441
Total Xylene	ND		0.00150	1	05/09/2019 19:33	WG1278441
TPH (GC/FID) Low Fraction	ND	J3	0.100	1	05/08/2019 15:40	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*97.3*		*77.0-120*		*05/08/2019 15:40*	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*93.0*		*77.0-120*		*05/09/2019 19:33*	WG1278441
(S) a,a,a-Trifluorotoluene(PID)	*102*		*72.0-128*		*05/08/2019 15:40*	WG1277873
(S) a,a,a-Trifluorotoluene(PID)	*96.3*		*72.0-128*		*05/09/2019 19:33*	WG1278441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/07/2019 18:41	WG1276910
C28-C40 Oil Range	ND		4.00	1	05/07/2019 18:41	WG1276910
(S) o-Terphenyl	*51.9*		*18.0-148*		*05/07/2019 18:41*	WG1276910

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	1	05/13/2019 14:04	WG1277447

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	05/09/2019 19:53	WG1278441
Toluene	ND		0.00500	1	05/09/2019 19:53	WG1278441
Ethylbenzene	ND		0.000500	1	05/09/2019 19:53	WG1278441
Total Xylene	ND		0.00150	1	05/09/2019 19:53	WG1278441
TPH (GC/FID) Low Fraction	ND		0.100	1	05/08/2019 16:04	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*98.1*		*77.0-120*		*05/08/2019 16:04*	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*05/09/2019 19:53*	WG1278441
(S) a,a,a-Trifluorotoluene(PID)	*103*		*72.0-128*		*05/08/2019 16:04*	WG1277873
(S) a,a,a-Trifluorotoluene(PID)	*96.5*		*72.0-128*		*05/09/2019 19:53*	WG1278441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/07/2019 18:07	WG1276910
C28-C40 Oil Range	ND		4.00	1	05/07/2019 18:07	WG1276910
(S) o-Terphenyl	*46.2*		*18.0-148*		*05/07/2019 18:07*	WG1276910

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	1	05/13/2019 14:13	WG1277447

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	05/09/2019 20:14	WG1278441
Toluene	ND		0.00500	1	05/09/2019 20:14	WG1278441
Ethylbenzene	ND		0.000500	1	05/08/2019 16:28	WG1277873
Total Xylene	ND		0.00150	1	05/09/2019 20:14	WG1278441
TPH (GC/FID) Low Fraction	ND		0.100	1	05/08/2019 16:28	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*98.1*		*77.0-120*		*05/08/2019 16:28*	WG1277873
(S) a,a,a-Trifluorotoluene(FID)	*92.9*		*77.0-120*		*05/09/2019 20:14*	WG1278441
(S) a,a,a-Trifluorotoluene(PID)	*102*		*72.0-128*		*05/08/2019 16:28*	WG1277873
(S) a,a,a-Trifluorotoluene(PID)	*96.0*		*72.0-128*		*05/09/2019 20:14*	WG1278441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/07/2019 18:18	WG1276910
C28-C40 Oil Range	ND		4.00	1	05/07/2019 18:18	WG1276910
(S) o-Terphenyl	*55.7*		*18.0-148*		*05/07/2019 18:18*	WG1276910

Method Blank (MB)

(MB) R3409466-1 05/08/19 15:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.22	J	0.795	10.0

L1094990-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1094990-27 05/08/19 16:53 • (DUP) R3409466-3 05/08/19 17:01

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1330	1520	5	13.1		15

L1095457-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1095457-02 05/08/19 20:17 • (DUP) R3409466-6 05/08/19 20:26

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	17.6	17.4	1	0.854		15

Laboratory Control Sample (LCS)

(LCS) R3409466-2 05/08/19 16:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	201	100	80.0-120	

L1095029-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095029-13 05/08/19 17:10 • (MS) R3409466-4 05/08/19 17:18 • (MSD) R3409466-5 05/08/19 17:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	619	1600	2310	2420	114	131	1	80.0-120	E	E J5	4.58	15

Method Blank (MB)

(MB) R3410702-1 05/13/19 13:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.79	J	0.795	10.0

L1095333-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1095333-02 05/13/19 13:37 • (DUP) R3410702-3 05/13/19 13:46

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	ND	4.14	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3410702-2 05/13/19 13:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	214	107	80.0-120	

Method Blank (MB)

(MB) R3409525-5 05/08/19 12:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000110	0.000500
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*103*			*72.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3409525-1 05/08/19 10:14 • (LCSD) R3409525-2 05/08/19 10:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0500	0.0562	0.0483	112	96.6	80.0-124			15.1	20
(S) a,a,a-Trifluorotoluene(FID)				*99.1*	*98.3*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*103*	*100*	*72.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3409525-3 05/08/19 11:02 • (LCSD) R3409525-4 05/08/19 11:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.49	6.37	118	116	72.0-127			1.77	20
(S) a,a,a-Trifluorotoluene(FID)				*107*	*108*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*110*	*111*	*72.0-128*				

L1095333-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095333-03 05/08/19 15:40 • (MS) R3409525-6 05/08/19 20:07 • (MSD) R3409525-7 05/08/19 20:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0500	ND	0.0447	0.0398	88.9	79.0	1	10.0-160			11.7	32
(S) a,a,a-Trifluorotoluene(FID)					*97.0*	*97.7*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*99.4*	*100*		*72.0-128*				

L1095333-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095333-03 05/08/19 15:40 • (MS) R3409525-8 05/08/19 20:54 • (MSD) R3409525-9 05/08/19 21:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	3.71	1.90	67.5	34.6	1	10.0-151		J3	64.5	28
(S) a,a,a-Trifluorotoluene(FID)					*102*	*98.3*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*106*	*102*		*72.0-128*				

Method Blank (MB)

(MB) R3409968-5 05/09/19 13:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	0.000164	J	0.000120	0.000500
Toluene	0.000332	J	0.000150	0.00500
Ethylbenzene	0.000197	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*101*			*72.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3409968-1 05/09/19 11:03 • (LCSD) R3409968-2 05/09/19 11:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0507	0.0572	101	114	76.0-121			12.1	20
Toluene	0.0500	0.0499	0.0552	99.7	110	80.0-120			10.2	20
Ethylbenzene	0.0500	0.0501	0.0577	100	115	80.0-124			14.1	20
Total Xylene	0.150	0.160	0.179	107	119	37.0-160			11.0	20
(S) a,a,a-Trifluorotoluene(FID)				*95.5*	*94.6*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*96.8*	*95.6*	*72.0-128*				

Method Blank (MB)

(MB) R3409145-1 05/07/19 17:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*53.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3409145-2 05/07/19 17:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	31.2	62.4	50.0-150	
(S) o-Terphenyl			*58.0*	*18.0-148*	

L1095219-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095219-02 05/07/19 19:50 • (MS) R3409145-3 05/07/19 20:01 • (MSD) R3409145-4 05/08/19 09:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	64.1	10.6	45.4	39.6	54.3	45.8	1	50.0-150		J6	13.5	20
(S) o-Terphenyl					*36.9*	*38.4*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

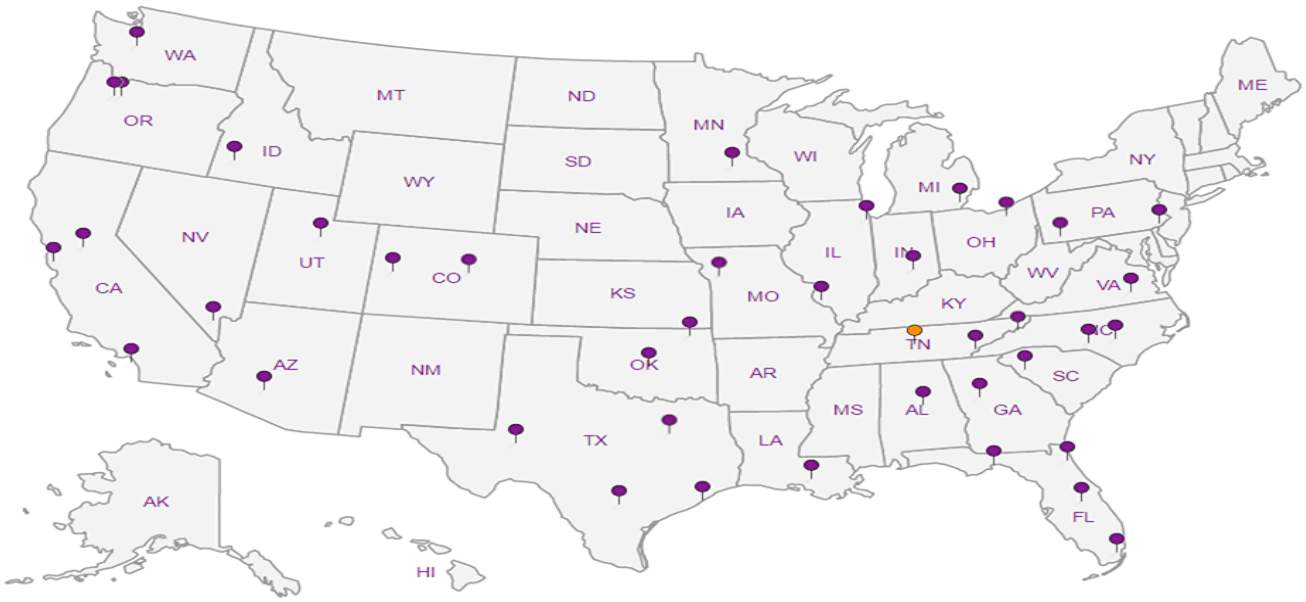
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
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L# 1095333
Table # F038
Acctnum: HILCORANM
Template:
Prelogin:
TSR:
PB:
Shipped Via:

HilCorp-Farmington, NM
382 Road 3100
Aztec, NM 87401

Billing Information:

Pres Chk

khoekstra@hilcorp.com

Report to: JENNIFER DEAL

Email To: jdeal@hilcorp.com

Project Description:

City/State Collected:

Phone: **505-486-9543**
Fax:

Client Project #

Lab Project #

Collected by (print): KURT

Site/Facility ID # SUNRAY B# 1F

P.O. #

Collected by (signature): Kurt Hoekstra

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH 8015 - DRO, GRO, MRO	BTEX 8021	CHLORIDE	Remarks	Sample # (lab only)
BASE	Comp	Soil		5-2	9:22	1	X	X	X		-01
W. WALL	"	"		"	9:25	1	X	X	X		02
S. WALL	"	"		"	9:30	1	X	X	X		03
N. WALL	"	"		"	9:33	1	X	X	X		04
E. WALL	"	"		"	9:53	1	X	X	X		05

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ___

Remarks:

RAD SCREEN: <0.5 mR/hr

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
X UPS __ FedEx __ Courier __ ___

Tracking # 7305 8947 5000

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature) Kurt Hoekstra	Date: 5-3-19	Time: 6:25	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.1 -0.1 = 2.0 °C Bottles Received: 5	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) KWillis	Date: 5/4/19 Time: 845	Hold: Condition: NCF / (OK)

District I
1625 N French Dr , Hobbs, NM 88240

District II
1301 W Grand Ave , Artesia, NM 88210

District III
1000 Rio Brazos Rd , Aztec, NM 87410

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

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

Form C-144
July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

5209

Type of action:
- [ ] Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
- [X] Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
- [ ] Modification to an existing permit
- [ ] Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1
Operator: **Burlington Resources Oil & Gas Company, LP** OGRID#: **14538**
Address: **P.O. Box 4289, Farmington, NM 87499**
Facility or well name: **SUNRAY B 1F**
API Number: **30-045-34494** OCD Permit Number
U/L or Qtr/Qtr: **M(SW/SW)** Section: **15** Township: **30N** Range: **10W** County: **San Juan**
Center of Proposed Design: Latitude: **36.807035** °N Longitude: **107.877875** °W NAD: [ ] 1927 [X] 1983
Surface Owner: [X] Federal [ ] State [ ] Private [ ] Tribal Trust or Indian Allotment

2
[X] **Pit:** Subsection F or G of 19 15 17 11 NMAC
Temporary. [X] Drilling [ ] Workover
[ ] Permanent [ ] Emergency [ ] Cavitation [ ] P&A
[X] Lined [ ] Unlined Liner type Thickness **12** mil [X] LLDPE [ ] HDPE [ ] PVC [ ] Other
[X] String-Reinforced
Liner Seams [X] Welded [X] Factory [ ] Other Volume **4400** bbl Dimensions L **65'** x W **45'** x D **10'**

3
[ ] **Closed-loop System:** Subsection H of 19 15 17 11 NMAC
Type of Operation [ ] P&A [ ] Drilling a new well [ ] Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
[ ] Drying Pad [ ] Above Ground Steel Tanks [ ] Haul-off Bins [ ] Other
[ ] Lined [ ] Unlined Liner type Thickness mil [ ] LLDPE [ ] HDPE [ ] PVD [ ] Other
Liner Seams [ ] Welded [ ] Factory [ ] Other

4
[ ] **Below-grade tank:** Subsection I of 19 15 17.11 NMAC
Volume: bbl Type of fluid
Tank Construction material
[ ] Secondary containment with leak detection [ ] Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
[ ] Visible sidewalls and liner [ ] Visible sidewalls only [ ] Other
Liner Type Thickness mil [ ] HDPE [ ] PVC [ ] Other

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5
[ ] **Alternative Method:**
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

33

6

Fencing: Subsection D of 19 15 17 11 NMAC *(Applies to permanent pit, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☐ Alternate Please specify _____

7

Netting: Subsection E of 19 15 17 11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other _____

☐ Monthly inspections *(If netting or screening is not physically feasible)*

8

Signs: Subsection C of 19 15 17 11 NMAC

☐ 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19 15 3 103 NMAC

9

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 NMAC for guidance

Please check a box if one or more of the following is requested, if not leave blank:

☐ Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval **(Fencing/BGT Liner)**

☐ Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

10

Siting Criteria (regarding permitting) 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. **Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.**

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applied to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

11

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19 15 17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19 15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API _____ or Permit _____

12

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15.17 9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15 17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15 17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API _____

☐ Previously Approved Operating and Maintenance Plan API _____

13

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15 17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15 17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17 11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17 11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17 11 NMAC
- ☐ Nuisance or Hazardous Odors, including H2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.15.17.13 NMAC

14

Proposed Closure: 19 15 17 13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System ☐ Alternative

Proposed Closure Method.

- ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☐ On-site Closure Method (only for temporary pits and closed-loop systems)
  - ☐ In-place Burial ☐ On-site Trench
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15

Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15 17 13 D NMAC)
Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings Use attachment if more than two facilities are required

Disposal Facility Name _____ Disposal Facility Permit # _____

Disposal Facility Name _____ Disposal Facility Permit # _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and
☐ Yes (If yes, please provide the information ☐ No

Required for impacted areas which will not be used for future service and operations

☐ Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

17

Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC
Instructions Each siting criteria requires a demonstration of compliance in the closure plan Recommendations of acceptable source material are provided below Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 10 NMAC for guidance

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search, USGS Data obtained from nearby wells	☐ Yes ☐ No ☐ N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ☐ No ☐ N/A
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS, Data obtained from nearby wells	☐ Yes ☐ No ☐ N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, - Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

18

On-Site Closure Plan Checklist: (19 15 17 13 NMAC) ***Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15 17 11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

19

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief

Name (Print) _____ Title _____

Signature _____ Date _____

e-mail address _____ Telephone _____

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OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly **Approval Date:** 9/15/2011

Title: Compliance Officer **OCD Permit Number:** _____

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Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC

Instructions Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report The closure report is required to be submitted to the division within 60 days of the completion of the closure activities Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed

☒ **Closure Completion Date:** September 11, 2008

22

Closure Method:

☐ Waste Excavation and Removal ☒ On-site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain

23

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name _____ Disposal Facility Permit Number _____

Disposal Facility Name _____ Disposal Facility Permit Number _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and opeartions?

☐ Yes (If yes, please demonstrate complilane to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

24

Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

☒ Proof of Closure Notice (surface owner and division)

☒ Proof of Deed Notice (required for on-site closure)

☒ Plot Plan (for on-site closures and temporary pits)

☒ Confirmation Sampling Analytical Results (if applicable)

☐ Waste Material Sampling Analytical Results (if applicable)

☒ Disposal Facility Name and Permit Number

☒ Soil Backfilling and Cover Installation

☒ Re-vegetation Application Rates and Seeding Technique

☒ Site Reclamation (Photo Documentation)

On-site Closure Location Latitude **36.806775** °N Longitude **107.8779139** °W NAD ☐ 1927 ☒ 1983

25

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan

Name (Print) Crystal Tafoya Title Regulatory Technician

Signature Crystal Tafoya Date 2/5/2010

e-mail address crystal.tafoya@conocophillips.com Telephone 505-326-9837

Burlington Resources Oil Gas Company, LP
San Juan Basin
Closure Report

Lease Name: Sunray B 1F
API No.: 30-045-34494

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the temporary pit referenced above. All proper documentation regarding closure activities is being included with the C-144. The temporary pit for this location was constructed and location drilled before June 16, 2008 (effective date for Rule 19.15.17). While closure of the temporary pit did fall within the rule some dates for submittals are after the rig release date.

- Details on Capping and Covering, where applicable. **(See report)**
- Plot Plan (Pit Diagram) **(Included as an attachment)**
- Inspection Reports **(Included as an attachment)**
- Sampling Results **(Included as an attachment)**
- C-105 **(Included as an attachment)**
- Copy of Deed Notice will be filed with County Clerk **(Not required on Federal, State, or Tribal land as stated by FAQ dated October 30, 2008)**

General Plan:

1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division–approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.

   All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B).

2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.

   The pit was closed using onsite burial.

3. The surface owner shall be notified of BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.

   The closure process notification to the landowner was sent via email. (See Attached)(Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.

   Provision 4 of the closure plan requirements were not met due to rig move off date as noted on C-105 which was prior to pit rule change. Burlington will ensure compliance with this rule in the future.

5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
   i. Operator's name
   ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

   Notification is attached.

6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.

Liner of temporary pit was removed above "mud level" after stabilization. Removal of the liner consisted of manually cutting liner at mud level and removing all remaining liner. Care was taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liner was disposed of at a licensed disposal facility, (San Juan County Landfill).

7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.

Burlington mixed the Pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio consisted of approximately 3 parts clean soil to 1 part pit contents.

8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	.9 ug/kg
BTEX	EPA SW-846 8021B or 8260B	50	14.3 ug/kG
TPH	EPA SW-846 418.1	2500	504 mg/kg
GRO/DRO	EPA SW-846 8015M	500	ND mg/Kg
Chlorides	EPA 300.1	~~1000~~/500	24.5 mg/L

9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.

The pit material passed solidification and testing standards. The pit area was then backfilled with compacted, non-waste containing, earthen material. More than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.

The integrity of the liner was not damaged in the pit closure process.

11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011

Dig and Haul was not required.

12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

    The pit area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping included drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final re-contour has a uniform appearance with smooth surface, fitting the natural landscape.

13. Notification will be sent to OCD when the reclaimed area is seeded.

    Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

14. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

    Provision 14 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

    Provision 15 was accomplished by installing a steel marker in the temporary pit, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker is flush with the ground to allow access of the active well pad and for safety concerns. The top of the marker contains a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate contains the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

    The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the following operator's information at the time of all wells on the pad are abandoned. The riser will be labeled: BR, BLM, SUNRAY B 1F, UL-M, Sec. 15, T 30N, R 10W, API # 30-045-34494

Tafoya, Crystal

From: Tafoya, Crystal
Sent: Friday, August 08, 2008 9:10 AM
To: 'mark_kelly@nm.blm.gov'
Subject: Surface Owner Notification

The following temporary pits will be closed on-site. Please let me know if you have any questions.

Sunray B #1F
Maddox C WN Federal Com #1F
Huerfano Unit #304

Thank you,

Crystal L. Tafoya
Regulatory Technician
ConocoPhillips Company
San Juan Business Unit
Phone: (505) 326-9837
Email: Crystal.Tafoya@conocophillips.com

STRICT I
25 N. French Dr., Hobbs, N.M. 88240

STRICT II
01 West Grand Avenue, Artesia, N.M. 88210

STRICT III
000 Rio Brazos Rd., Aztec, N.M. 87410

STRICT IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
		BASIN DAKOTA

[4] Property Code	[5] Property Name	[6] Well Number
	SUNRAY B	1F

[7] OGRID No.	[8] Operator Name	[9] Elevation
	BURLINGTON RESOURCES OIL AND GAS COMPANY LP	6339'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	30-N	10-W		700'	SOUTH	860'	WEST	SAN JUAN

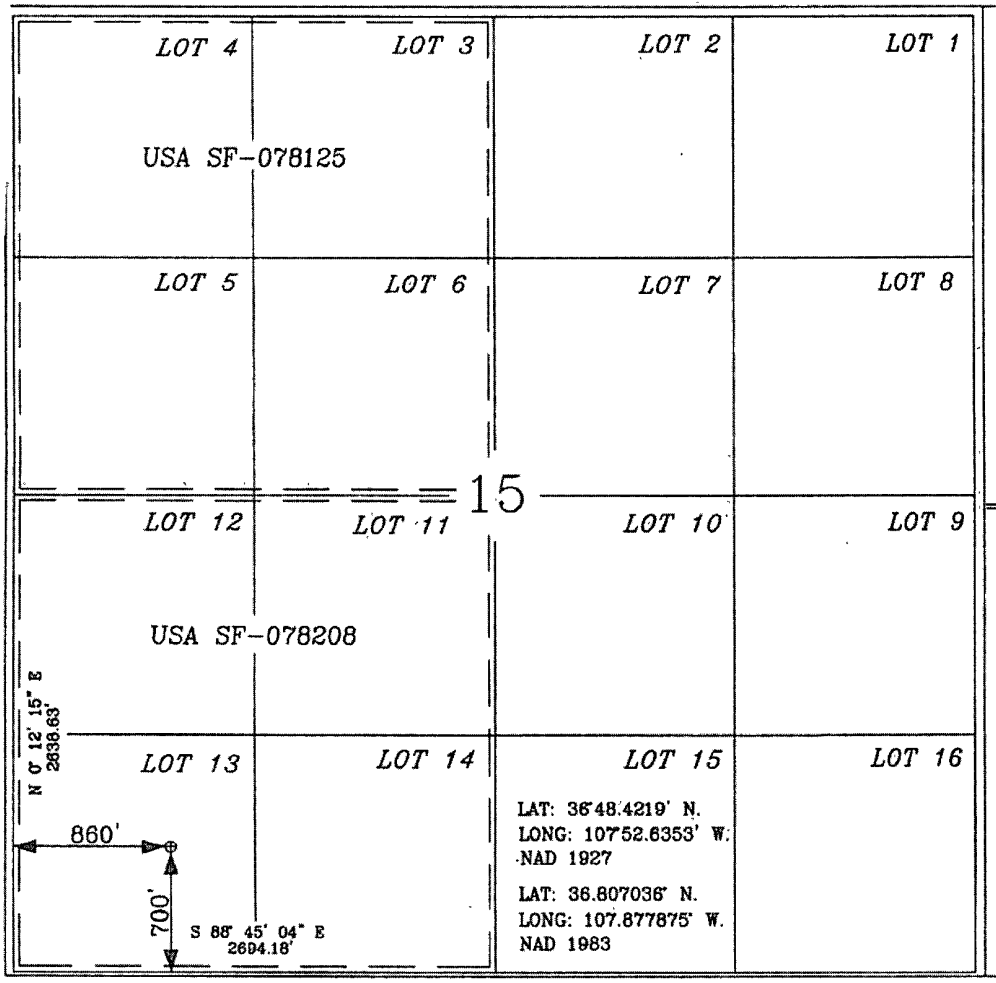
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
319.34			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Printed Name

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this p was plotted from field notes of actual surveys made b me or under my supervision, and that the same is tru and correct to the best of my belief.

7-26-07
Date of Surve

Signature and Seal of Professional Surveyor:

GLEN W. RUSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR

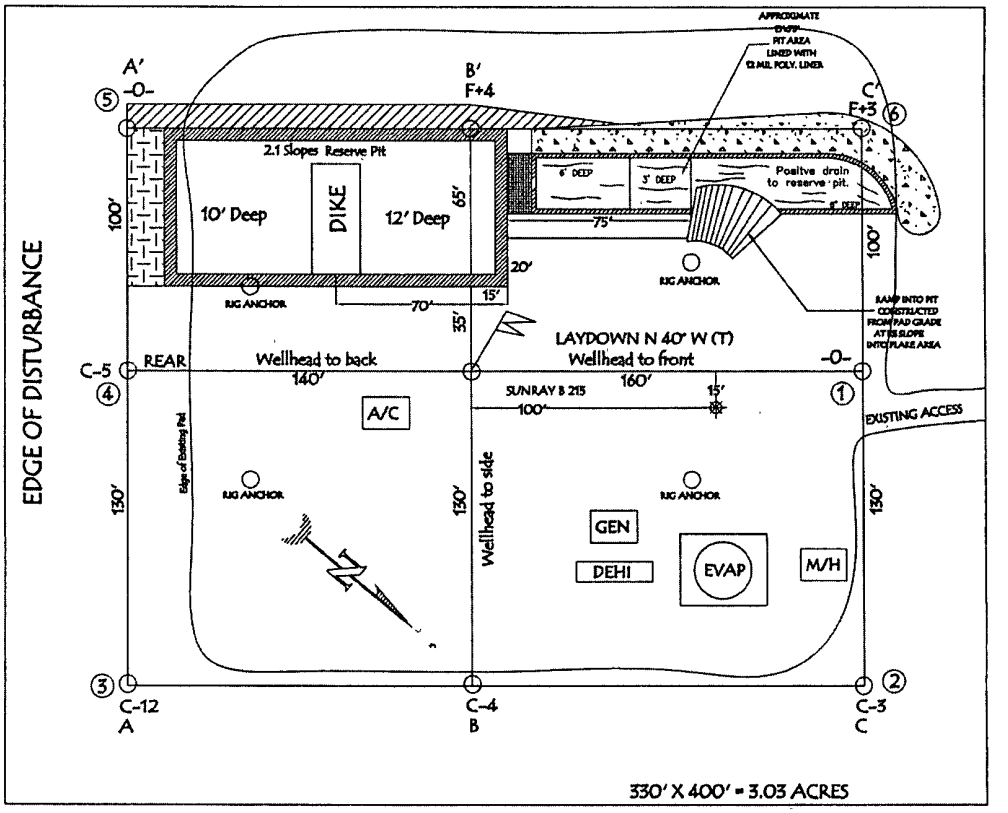
Certificate Number 15703

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SUNRAY B 1F, 700' FSL & 860' FWL

SECTION 15, T-30- N, R-10-W, NMPM, SAN JUAN COUNTY, NM

GROUND ELEVATION: 6339', DATE: JULY 11, 2007



LAT: 36° 48.4219' N LONG: 107° 52.6353' W NAD27

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

BLOW PIT: OVERFLOW PIPE 4' ABOVE BOTTOM OF BLOW PIT.

NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B 1E	Date Reported:	08-18-08
Laboratory Number:	46713	Date Sampled:	08-12-08
Chain of Custody No:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Extracted:	08-13-08
Preservative:	Cool	Date Analyzed:	08-14-08
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Sample**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F Background	Date Reported:	08-18-08
Laboratory Number:	46714	Date Sampled:	08-12-08
Chain of Custody No:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Extracted:	08-13-08
Preservative:	Cool	Date Analyzed:	08-14-08
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Sample**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-14-08 QA/QC	Date Reported:	08-18-08
Laboratory Number:	46700	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-14-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0079E+003	1.0083E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	1.0025E+003	1.0029E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**33.0**	**34.2**	**3.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**252**	**101%**	**75 - 125%**
Diesel Range C10 - C28	**33.0**	**250**	**290**	**102%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 46700, 46713 - 46714, and 46731.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F	Date Reported:	08-18-08
Laboratory Number:	46713	Date Sampled:	08-12-08
Chain of Custody:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Analyzed:	08-14-08
Preservative:	Cool	Date Extracted:	08-13-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**0.9**	**0.9**
Toluene	**3.3**	**1.0**
Ethylbenzene	**3.8**	**1.0**
p,m-Xylene	**4.6**	**1.2**
o-Xylene	**1.7**	**0.9**
Total BTEX	**14.3**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Sample**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F Background	Date Reported:	08-18-08
Laboratory Number:	46714	Date Sampled:	08-12-08
Chain of Custody:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Analyzed:	08-14-08
Preservative:	Cool	Date Extracted:	08-13-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drilling Pit Sample**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-14-BT QA/QC	Date Reported:	08-18-08
Laboratory Number:	46700	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-14-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	9 9655E+007	9 9855E+007	**0.2%**	**ND**	**0.1**
Toluene	7 3805E+007	7.3953E+007	**0.2%**	**ND**	**0.1**
Ethylbenzene	5.9452E+007	5.9571E+007	**0.2%**	**ND**	**0.1**
p,m-Xylene	1.2457E+008	1 2482E+008	**0.2%**	**ND**	**0.1**
o-Xylene	5.8593E+007	5.8710E+007	**0.2%**	**ND**	**0.1**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**1.1**	**1.0**	**9.1%**	**0 - 30%**	**0.9**
Toluene	**1.8**	**1.5**	**16.7%**	**0 - 30%**	**1.0**
Ethylbenzene	**1.8**	**1.6**	**11.1%**	**0 - 30%**	**1.0**
p,m-Xylene	**3.6**	**3.2**	**11.1%**	**0 - 30%**	**1.2**
o-Xylene	**2.0**	**1.6**	**20.0%**	**0 - 30%**	**0.9**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	**1.1**	**50.0**	**50.7**	**99.2%**	**39 - 150**
Toluene	**1.8**	**50.0**	**49.8**	**96.1%**	**46 - 148**
Ethylbenzene	**1.8**	**50.0**	**48.8**	**94.2%**	**32 - 160**
p,m-Xylene	**3.6**	**100**	**101**	**97.1%**	**46 - 148**
o-Xylene	**2.0**	**50.0**	**50.0**	**96.2%**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

References.

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 46700, 46713 - 46714, 46728, and 46731 - 46732 .**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F	Date Reported:	08-18-08
Laboratory Number:	46713	Date Sampled:	08-12-08
Chain of Custody:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Analyzed:	08-15-08
Preservative:	Cool	Date Digested:	08-15-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.090**	**0.001**	**5.0**
Barium	**4.7**	**0.001**	**100**
Cadmium	**0.002**	**0.001**	**1.0**
Chromium	**0.189**	**0.001**	**5.0**
Lead	**0.449**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.028**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Drilling Pit Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F Background	Date Reported:	08-18-08
Laboratory Number:	46714	Date Sampled:	08-12-08
Chain of Custody:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Analyzed:	08-15-08
Preservative:	Cool	Date Digested:	08-15-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.082**	**0.001**	**5.0**
Barium	**3.53**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.066**	**0.001**	**5.0**
Lead	**0.135**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.016**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Drilling Pit Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control /
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	08-15 TM QA/AC	Date Reported:	08-18-08
Laboratory Number:	46713	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-15-08
Condition:	N/A	Date Digested:	08-15-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.001**	**0.090**	**0.100**	**11.4%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**4.67**	**4.65**	**0.4%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.001**	**0.002**	**0.002**	**0.0%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.001**	**0.189**	**0.192**	**1.9%**	**0% - 30%**
Lead	**ND**	**ND**	**0.001**	**0.449**	**0.441**	**1.7%**	**0% - 30%**
Mercury	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Selenium	**ND**	**ND**	**0.001**	**0.028**	**0.022**	**22.1%**	**0% - 30%**
Silver	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.250**	**0.090**	**0.295**	**86.8%**	**80% - 120%**
Barium	**0.500**	**4.67**	**5.15**	**99.6%**	**80% - 120%**
Cadmium	**0.250**	**0.002**	**0.206**	**81.9%**	**80% - 120%**
Chromium	**0.500**	**0.189**	**0.612**	**88.9%**	**80% - 120%**
Lead	**0.500**	**0.449**	**0.791**	**83.4%**	**80% - 120%**
Mercury	**0.100**	**ND**	**0.094**	**94.0%**	**80% - 120%**
Selenium	**0.100**	**0.028**	**0.105**	**82.0%**	**80% - 120%**
Silver	**0.100**	**ND**	**0.098**	**97.5%**	**80% - 120%**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/1QC for Samples 46713 - 46722.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F	Date Reported:	08-19-08
Laboratory Number:	46713	Date Sampled:	08-12-08
Chain of Custody:	4980	Date Received:	08-12-08
Sample Matrix:	Soil Extract	Date Extracted:	08-14-08
Preservative:	Cool	Date Analyzed:	08-15-08
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	**8.11**	s.u.		
Conductivity @ 25° C	**295**	umhos/cm		
Total Dissolved Solids @ 180C	**180**	mg/L		
Total Dissolved Solids (Calc)	**172**	mg/L		
SAR	**1.5**	ratio		
Total Alkalinity as CaCO3	**58.0**	mg/L		
Total Hardness as CaCO3	**41.6**	mg/L		
Bicarbonate as HCO3	**58.0**	mg/L	0.95	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**3.16**	mg/L	0.05	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**24.5**	mg/L	0.69	meq/L
Fluoride	**1.32**	mg/L	0.07	meq/L
Phosphate	**4.536**	mg/L	0.14	meq/L
Sulfate	**36.9**	mg/L	0.77	meq/L
Iron	**0.229**	mg/L	0.01	meq/L
Calcium	**14.2**	mg/L	0.71	meq/L
Magnesium	**1.49**	mg/L	0.12	meq/L
Potassium	**29.3**	mg/L	0.75	meq/L
Sodium	**21.5**	mg/L	0.94	meq/L
Cations			2.52	meq/L
Anions			2.67	meq/L
Cation/Anion Difference			**5.60%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F Background	Date Reported:	08-19-08
Laboratory Number:	46714	Date Sampled:	08-12-08
Chain of Custody:	4980	Date Received:	08-12-08
Sample Matrix:	Soil Extract	Date Extracted:	08-14-08
Preservative:	Cool	Date Analyzed:	08-15-08
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	**7.00**	s.u.		
Conductivity @ 25° C	**135**	umhos/cm		
Total Dissolved Solids @ 180C	**60**	mg/L		
Total Dissolved Solids (Calc)	**64**	mg/L		
SAR	**2.7**	ratio		
Total Alkalinity as CaCO3	**25.0**	mg/L		
Total Hardness as CaCO3	**8.7**	mg/L		
Bicarbonate as HCO3	**25.0**	mg/L	0.41	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**8.67**	mg/L	0.14	meq/L
Nitrite Nitrogen	**5.06**	mg/L	0.11	meq/L
Chloride	**2.69**	mg/L	0.08	meq/L
Fluoride	**1.57**	mg/L	0.08	meq/L
Phosphate	**5.26**	mg/L	0.17	meq/L
Sulfate	**3.14**	mg/L	0.07	meq/L
Iron	**1.28**	mg/L	0.05	meq/L
Calcium	**2.67**	mg/L	0.13	meq/L
Magnesium	**0.503**	mg/L	0.04	meq/L
Potassium	**1.20**	mg/L	0.03	meq/L
Sodium	**18.3**	mg/L	0.80	meq/L
Cations			1.05	meq/L
Anions			1.05	meq/L
Cation/Anion Difference			**0.24%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drilling Pit Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F	Date Reported:	08-15-08
Laboratory Number:	46713	Date Sampled:	08-12-08
Chain of Custody No:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Extracted:	08-13-08
Preservative:	Cool	Date Analyzed:	08-14-08
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**504**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Drilling Pit Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Sunray B1F Background	Date Reported:	08-15-08
Laboratory Number:	46714	Date Sampled:	08-12-08
Chain of Custody No:	4980	Date Received:	08-12-08
Sample Matrix:	Soil	Date Extracted:	08-13-08
Preservative:	Cool	Date Analyzed:	08-14-08
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**92.9**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Drilling Pit Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYROCARBONS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	08-15-08
Laboratory Number:	08-14-TPH QA/QC 46683	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	08-14-08
Preservative.	N/A	Date Extracted:	08-13-08
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
	08-01-08	08-14-08	1,790	1,700	5.0%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	7.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	3,720	3,640	2.1%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	3,715	2,000	5,930	104%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **QA/QC for Samples 46683, 44684, 44698, 46699, 46713, 46714, 46725 and 46726.**

Analyst

Review

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Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd , Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
July 17, 2008

1. WELL API NO.
30-045-34494

2 Type of Lease
☐ STATE ☐ FEE ☒ FED/INDIAN

3. State Oil & Gas Lease No.
SF-078208

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☐ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☒ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19.15.17.13 K NMAC)

5. Lease Name or Unit Agreement Name
Sunray B

6. Well Number:
1F

7. Type of Completion
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator
Burlington Resources Oil Gas Company, LP

9. OGRID
14538

10 Address of Operator
PO Box 4298, Farmington, NM 87499

11. Pool name or Wildcat

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										

13. Date Spudded	14. Date T D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17 Elevations (DF and RKB, RT, GR, etc.)
		03/13/2008		

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20 Was Directional Survey Made?	21. Type Electric and Other Logs Run

22. Producing Interval(s), of this completion - Top, Bottom, Name

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB /FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30 Test Witnessed By

31. List Attachments

32 If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. If an on-site burial was used at the well, report the exact location of the on-site burial

Latitude **36.806775**°N Longitude **107.8779139**°W NAD ☐1927 ☒1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Crystal Tafoya Printed Name Crystal Tafoya Title: Regulatory Technician Date: 2/5/2010

E-mail Address crystal.tafoya@conocophillips.com

ConocoPhillips

Pit Closure Form:

Date: 9/11/2008

Well Name: Sunray B 1F

Footages: 700 FSL 860 FWL **Unit Letter:** _____

Section: 15, **T-**30**-N, R-**10**-W, County:** SJ **State:** NM

Contractor Closing Pit: Acc

Construction Inspector: Norman Faver **Date:** 9/11/2008

Inspector Signature: Norman Faver

Revised 7/10/08

Tafoya, Crystal

From: Busse, Dollie L
Sent: Wednesday, September 03, 2008 8 14 AM
To: Brandon Powell, Mark Kelly, Robert Switzer, Sherrie Landon
Cc: acedragline@yahoo.com, Chavez, Virgil E, GRP SJBU Production Leads, Kramme, Jeff L, Larry Thacker, Blair, Maxwell O, Blakley, Maclovia; Clark, Joan E, Cornwall, Mary K (SOS Staffing Services, Inc.), Farrell, Juanita R; Maxwell, Mary Alice, McWilliams, Peggy L, Seabolt, Elmo F
Subject: Clean Up Notice - Sunray B 1F

Importance: High

Ace Services will move a tractor to the **Sunray B 1F** on **Monday, September 8, 2008** to start the reclamation process. Please contact Norman Faver (320-0670) if you have any questions or need additional information.
Thanks!
Dollie

Network #: 10198140

Operator:	**Burlington Resources**
Legals:	700' FSL, 860' FWL Section 15, T30N, R10W Unit Letter 'M' (SWSW) San Juan County, NM
Lease:	USA SF-078208
API #:	30-045-34494
Surface/Minerals:	BLM/BLM

Thanks!
Dollie

Dollie L. Busse

ConocoPhillips Company-SJBU
Construction Technician
Project Development
505-324-6104
505-599-4062 (fax)
Dollie.L.Busse@conocophillips.com

Tracking:

Recipient	Read
Brandon Powell	
Mark Kelly	

Recipient	Read
Robert Switzer	
Sherrie Landon	
acedragline@yahoo com	
Chavez, Virgil E	Read 9/3/2008 8 23 AM
GRP SJBU Production Leads	
Kramme, Jeff L	
Larry Thacker	
Blair, Maxwell O	
Blakley, Maclovia	
Clark, Joan E	
Cornwall, Mary K (SOS Staffing Services, Inc)	
Farrell, Juanita R	
Maxwell, Mary Alice	
McWilliams, Peggy L	
Seabolt, Elmo F	

ConocoPhillips

Pit Closure Form:

Date: 9-11-2008

Well Name: Sunray B 1F

Footages: 700 FSL 660 FWL Unit Letter: M

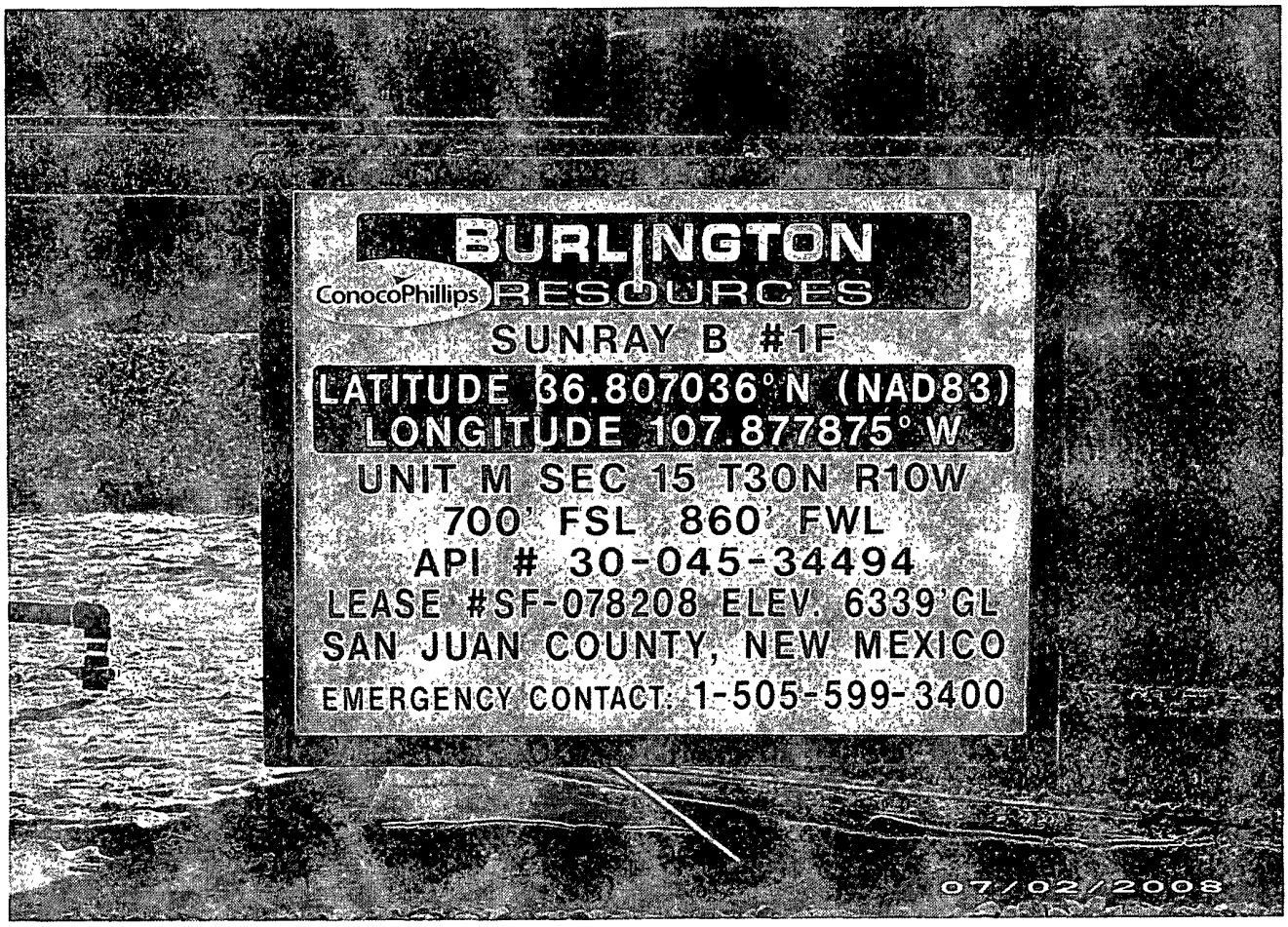
Section: 15, T-30-N, R-10-W, County: SJ State: NM

Contractor Closing Pit: Ace

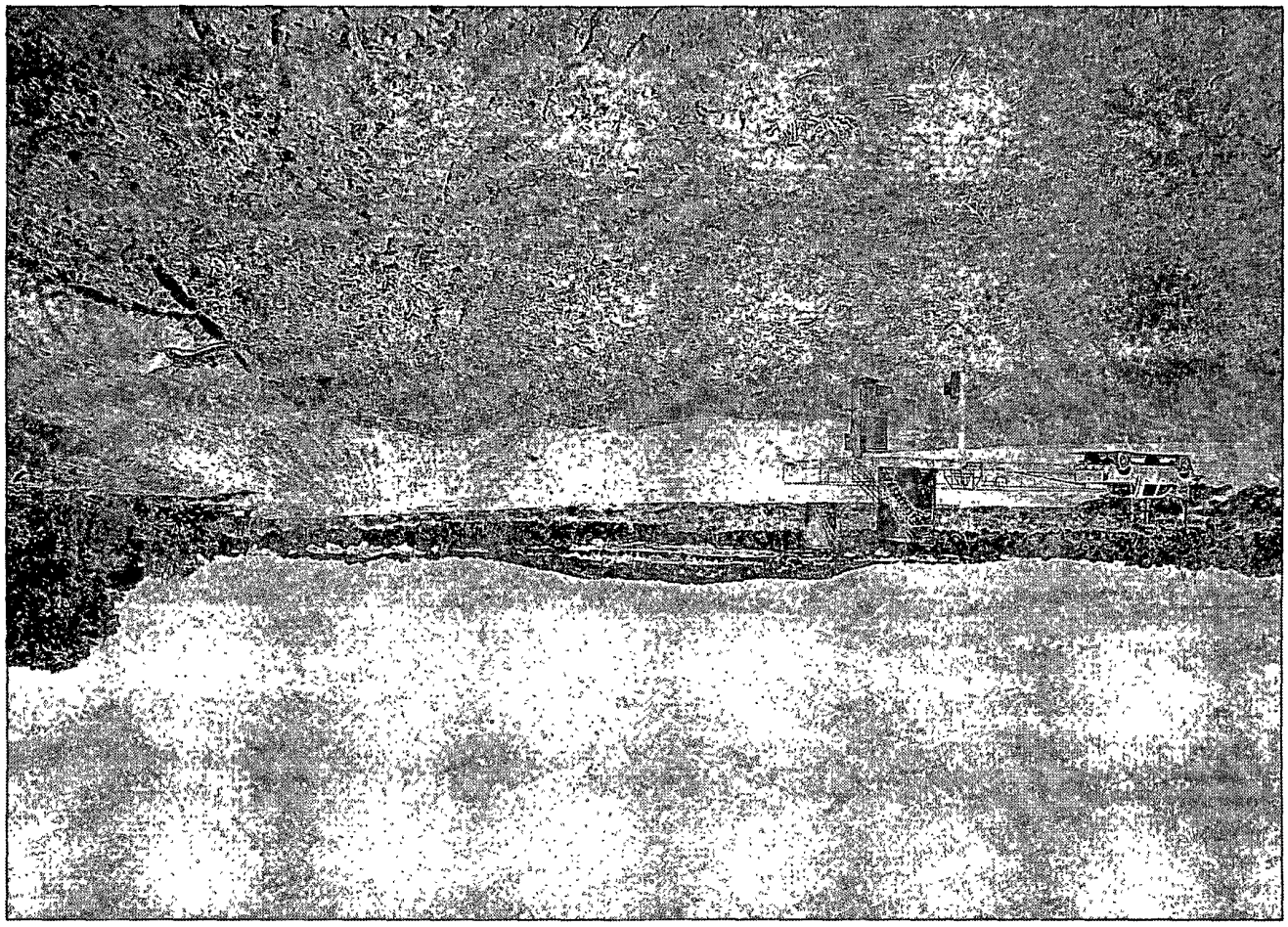
Construction Inspector: Norman Faver Date: 9-11-2008

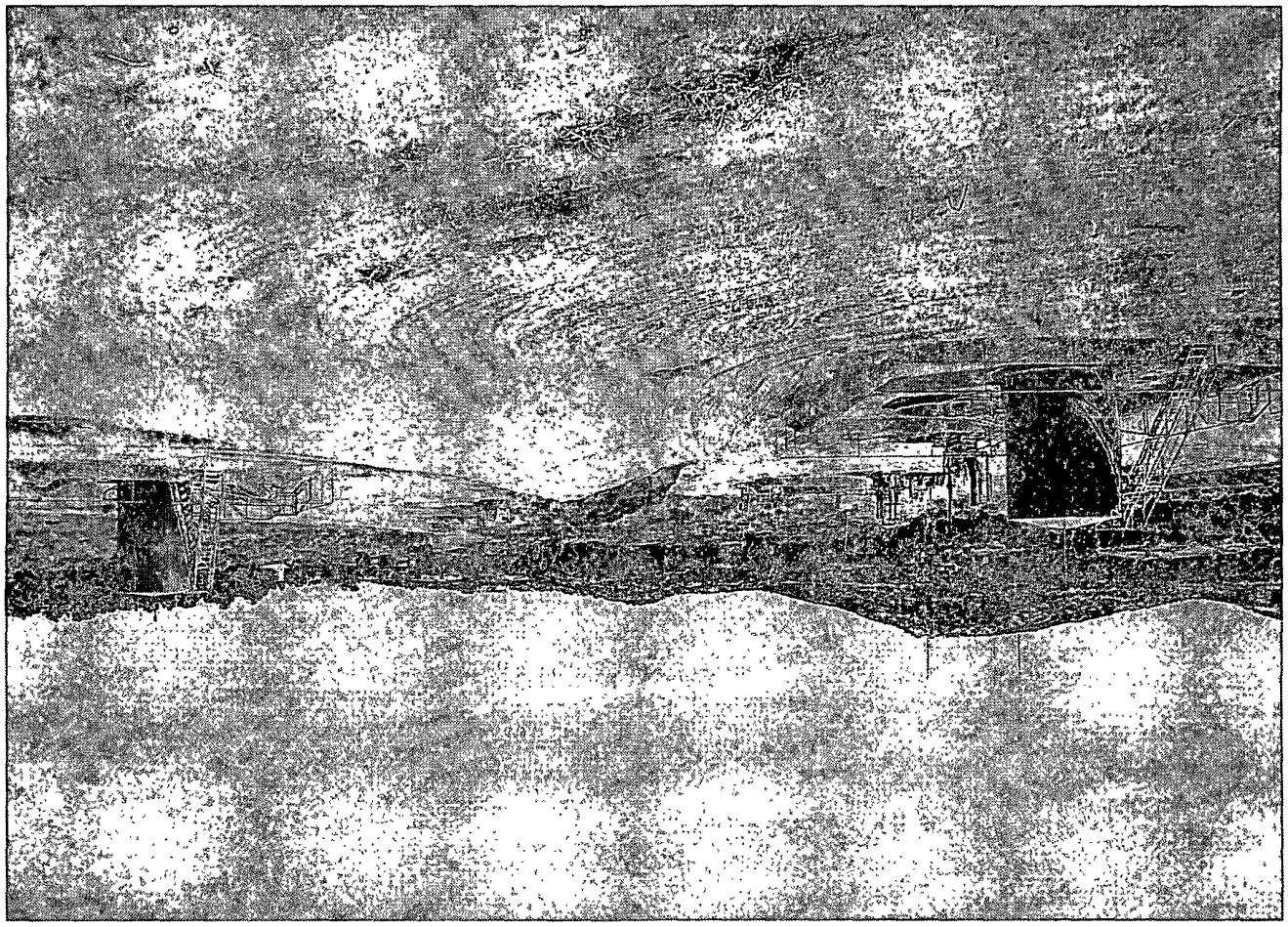
Inspector Signature:

Revised 7/18/08


BURLINGTON
ConocoPhillips RESOURCES
SUNRAY B #1F
LATITUDE 36.807036° N (NAD83)
LONGITUDE 107.877875° W
UNIT M SEC 15 T30N R10W
700' FSL 860' FWL
API # 30-045-34494
LEASE #SF-078208 ELEV. 6339'GL
SAN JUAN COUNTY, NEW MEXICO
EMERGENCY CONTACT: 1-505-599-3400
07/02/2008


SUNRAY B #1F
SEC,T30N,R10W
OBLIBER





WELL PAD SAFETY AND ENVIRONMENTAL CHECK LIST

WELL NAME: Sunray B 1F API#: 30-045-34494

DATE	INSPECTOR	SAFETY CHECK	LOCATION CHECK	PICTURES TAKEN	COMMENTS
2/27/08	Eric Smith	X	X		
3/17/08	Eric Smith	X	X		Liner torn in blow pit, called MVCI to repair and notified OCD
4/4/08	T. Jones	X	X		
4/11/08	T. Jones				Frac on location
4/17/08	J. McDonald	X	X	X	
4/28/08	Jared Chavez	X	X		Holes in liner near water level, called Brandon with OCD, fence needs tightened
5/30/08	Jared Chavez	X	X		Pit and location in good condition
6/11/08	Jared Chavez				Drake rig #24 is on location
6/18/08	Jared Chavez				Drake rig #24 is on location
6/25/08	Jared Chavez	X	X		Hole in liner, fence needs tightened, called MVCI and Brandon with OCD
7/2/08	Jared Chavez	X	X		Pit and location in good condition
7/9/08	Jared Chavez	X	X		Hole in liner, called Crossfire and Brandon with OCD
7/16/08	Jared Chavez	X	X		Pit and location in good condition
7/22/08	Jared Chavez	X	X		Pit and location in good condition
7/30/08	Jared Chavez	X	X		Blow pit water need pulled, contacted Noble trucking
8/6/08	Jared Chavez	X	X		Pit and location in good condition
8/12/08	Jared Chavez	X	X		Blow pit water needs pulled, called ACE services
8/20/08	Jared Chavez	X	X		Pit and location in good condition
9/3./08	Jared Chavez	X	X		Pit and location in good condition
9/16/08	Jared Chavez				Location has been reclaimed