

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace	
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479	
Facility Name: Blanco LS 16	Facility Type: Natural gas well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 3004511746

LOCATION OF RELEASE

Unit Letter D	Section 36	Township 28N	Range 8W	Feet from the 990	North/South Line North	Feet from the 890	East/West Line East	County: San Juan
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Latitude 36.62255 Longitude 107.63848

NATURE OF RELEASE

Type of Release: oil/condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank – 45 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: May 30, 2014; 9:55 AM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. TPH was 8,720 ppm by Method 418.1 and was 5,250 ppm by Method 8015D. Benzene was 2.67 ppm and total BTEX was 189 ppm by Method 8021. Analysis results are attached. Impacted soil was excavated and removed.

Describe Area Affected and Cleanup Action Taken.* Sampling results during BGT removal indicated a release occurred. Impacted soil was excavated and transported to a landfarm for treatment and remediation was completed on June 12, 2014. Remaining soil samples were below 5,000 ppm TPH, which is the cleanup standard for this site. Approximately 130 cubic yards were transported to the IEI landfarm. The excavated area was backfilled and compacted and has been reclaimed since the well was plugged and abandoned. Attached is a remediation summary that includes soil lab analysis data, photos, site maps, and the final C-138 form.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Jeff Peace</i>	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Coordinator	Approval Date: <i>4/13/15</i>	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached ☐
Date: March 3, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

ANCS 1510355134

27

BP AMERICA PRODUCTION COMPANY

BLANCO LS 16 – HISTORICAL (LEGACY) RELEASE CLEANUP

API #: 30-045-11746

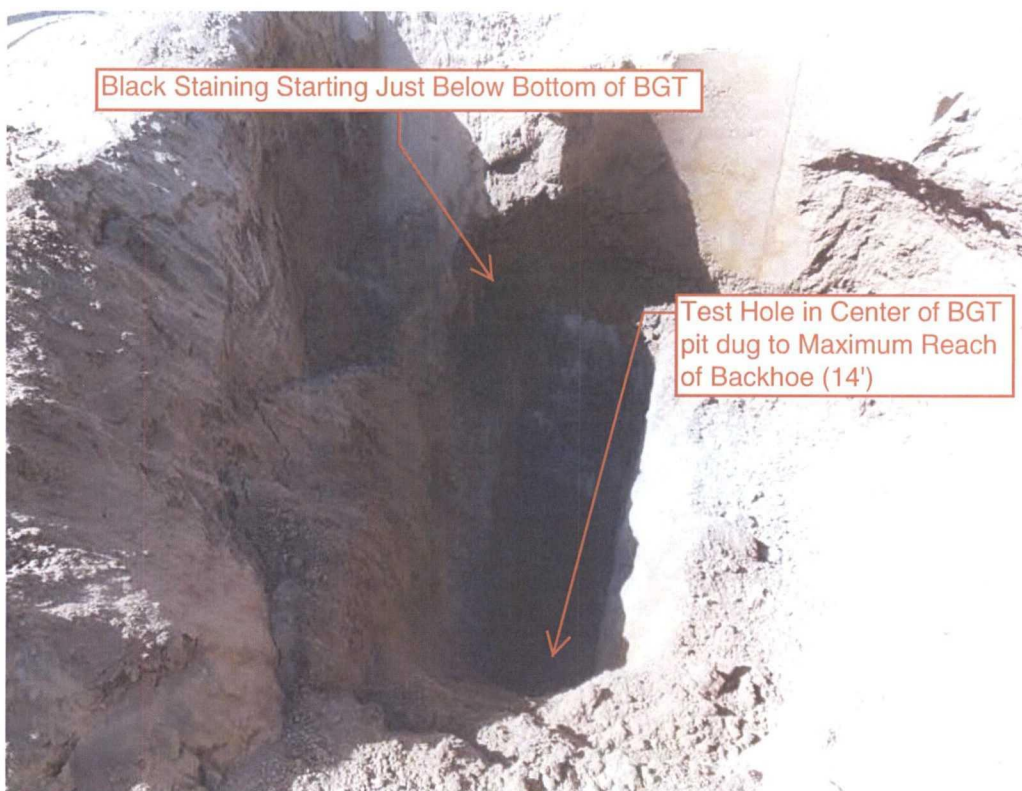
Legal Description: (Unit Letter D, Sec. 36 – T28N - R8W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

1. May 30, 2014: Soil impacts discovered (21' North 59° West of PxA Marker) while sampling for 45 barrel BGT closure at PxA well site. BGT appeared to have good integrity, original source event not evident, possible prior earthen pit in same area. Use backhoe to sample at BGT, collecting samples immediately below BGT and at 14' depth (maximum backhoe reach) for laboratory testing. Review of site criteria determines groundwater estimated at 300', no water sources within 1,000' and no surface waters within 1,000 feet. Determine NMOCD "Spill and Release Guideline" closure standard of 5,000 ppm TPH. BP initiates plan for cleanup effort.
2. June 9, 2014: BP begins remediation by excavation with trackhoe.
3. June 10, 2014: Excavation size 50' x 33' x 12' deep, L shaped, going around PxA Marker. Sample excavation for closure, plus sample outside excavation to SE of PxA marker to confirm no lateral movement of impacts.
4. June 12, 2014: Receive lab reports. Base 4-point composite TPH = 603 ppm, sidewall composite 4-point = 19.9 ppm (Envirotech Method 418.1) and 21.0 (Hall Method 418.1), TH-1 @ 11' TPH = 0.0 ppm.

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004511746 TANK ID (if applicable): A
FIELD REPORT: (circle one): <u>BGT CONFIRMATION</u> / RELEASE INVESTIGATION / OTHER:		PAGE #: 1 of 2
SITE INFORMATION: SITE NAME: BLANCO LS # 16 QUAD/UNIT: D SEC: 36 TWP: 28N RNG: 8W PM: NM CNTY: SJ ST: NM 1/4 - 1/4/FOOTAGE: 990'N / 890'E NE/NE LEASE TYPE: <u>FEDERAL</u> / STATE / FEE / INDIAN LEASE #: NM012201 PROD. FORMATION: PC CONTRACTOR: CROSSFIRE MBF - T. PETERSON		DATE STARTED: 05/30/14 DATE FINISHED: ENVIRONMENTAL SPECIALIST(S): JCB
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.62253 X 107.63834 GL ELEV.: 6,213' 1) 45 BGT (DW/DB) GPS COORD.: 36.62255 X 107.63838 DISTANCE/BEARING FROM W.H.: 21', N59W 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:		
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: ENVIROTECH 1) SAMPLE ID: 45 BGT @ 7' SAMPLE DATE: 05/30/14 SAMPLE TIME: 0955 LAB ANALYSIS: 418.1/8015B/8021B/300.0 (CI) OVM READING (ppm): 855 2) SAMPLE ID: 45 BGT @ 14' SAMPLE DATE: 05/30/14 SAMPLE TIME: 1006 LAB ANALYSIS: 418.1/8015B/8021B/300.0 (CI) OVM READING (ppm): 596 3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:		
SOIL DESCRIPTION: SOIL TYPE: SAND / SILTY SAND <u>SILT / SILTY CLAY</u> CLAY / GRAVEL / OTHER SOIL COLOR: DARK BROWN COHESION (ALL OTHERS): NON COHESIVE <u>SLIGHTLY COHESIVE</u> / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE <u>FIRM</u> / DENSE / VERY DENSE MOISTURE: DRY <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. NA DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - DARK GRAY PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - STRONG FROM DISCOLORED SOIL. ANY AREAS DISPLAYING WETNESS: YES <u>NO</u> EXPLANATION -		
SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES <u>NO</u> EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <u>YES</u> / NO EXPLANATION: NOT ASSOCIATED WITH BGT, APPEARS HISTORICAL IN ORIGIN. EQUIPMENT SET OVER RECLAIMED AREA: YES <u>NO</u> EXPLANATION - OTHER: GAS WELL RECENTLY PLUGGED & ABANDONED (P & A).		
SOIL IMPACT DIMENSION ESTIMATION: _____ ft. X _____ ft. X _____ ft. EXCAVATION ESTIMATION (Cubic Yards): _____ DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: >1,000' NMOCD TPH CLOSURE STD: 5,000 ppm		
SITE SKETCH BGT Located : off <u>on</u> site PLOT PLAN circle: <u>attached</u> 		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.		MISCELL. NOTES WO: N15421192 PO #: PK: ZFEIRK0SJS PJ #: Permit date(s): 06/09/10 OCD Appr. date(s): 01/16/14 Tank ID: A OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: Y / <u>N</u> BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N Magnetic declination: 10° E
NOTES: _____ ONSITE: 05/30/14		

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004511746 TANK ID (if applicable): A
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / <u>OTHER:</u> REMEDATION AT 45 bbl BGT		PAGE #: 2 of 2
SITE INFORMATION: SITE NAME: BLANCO LS # 16 QUAD/UNIT: D SEC: 36 TWP: 28N RNG: 8W PM: NM CNTY: SJ ST: NM 1/4 - 1/4 FOOTAGE: 990'N / 890'E NE/NE LEASE TYPE: <u>FEDERAL</u> / STATE / FEE / INDIAN LEASE #: NM012201 PROD. FORMATION: PC CONTRACTOR: CROSSFIRE MBF - T. PETERSON		DATE STARTED: 06/10/14 DATE FINISHED: ENVIRONMENTAL SPECIALIST(S): JCB
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.62253 X 107.63834 GL ELEV.: 6,213' 1) 45 BGT (DW/DB) GPS COORD.: 36.62255 X 107.63838 DISTANCE/BEARING FROM W.H.: 21', N59W 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:		
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: ENVIROTECH / HALL 1) SAMPLE ID: BASE 4-pt. Comp. SAMPLE DATE: 06/10/14 SAMPLE TIME: 1051 LAB ANALYSIS: 8015B / 8021B / 300.0 (CI) OVM READING (ppm): 956 2) SAMPLE ID: TH-1 @ 11' SAMPLE DATE: 06/10/14 SAMPLE TIME: 1210 LAB ANALYSIS: 8015B / 8021B / 300.0 (CI) OVM READING (ppm): 2.9 3) SAMPLE ID: SIDEWALLS 4-pt. Comp. SAMPLE DATE: 06/10/14 SAMPLE TIME: 1137 LAB ANALYSIS: 418.1 / 8015B / 8021B / 300.0 (CI) OVM READING (ppm): 92 4) SAMPLE ID: " SAMPLE DATE: " SAMPLE TIME: " LAB ANALYSIS: " (HALL) OVM READING (ppm): "		
SOIL DESCRIPTION: SOIL TYPE: SAND / SILTY SAND / <u>SILT / SILTY CLAY</u> / CLAY / GRAVEL / OTHER SOIL COLOR: DARK BROWN COHESION (ALL OTHERS): NON COHESIVE / <u>SLIGHTLY COHESIVE</u> / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE / <u>FIRM</u> / DENSE / VERY DENSE MOISTURE: DRY / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: <u>GRAB / COMPOSITE</u> - # OF PTS. 4 DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - IN EXCAVATED SOILS PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - IN EXCAVATED SOILS ANY AREAS DISPLAYING WETNESS: YES / <u>NO</u> EXPLANATION -		
SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES / <u>NO</u> EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <u>YES</u> / NO EXPLANATION: NOT ASSOCIATED WITH BGT, APPEARS HISTORICAL IN ORIGIN. EQUIPMENT SET OVER RECLAIMED AREA: YES / <u>NO</u> EXPLANATION - OTHER: GAS WELL RECENTLY PLUGGED & ABANDONED (P & A).		
SOIL IMPACT DIMENSION ESTIMATION: 50' ft. X 33' ft. X 12' ft. EXCAVATION ESTIMATION (Cubic Yards): 500 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: >1,000' NMOCD TPH CLOSURE STD: 5,000 ppm		
SITE SKETCH BGT Located: off / <u>on</u> site PLOT PLAN circle: <u>attached</u> 		
OVM CALIB. READ. = 52.1 ppm RF=0.52 OVM CALIB. GAS = 100 ppm TIME: 6:20 am/pm DATE: 06/10/14		MISCELL. NOTES WO: N15421192 PO #: PK: ZFEIRK0SJS PJ #: Permit date(s): 06/09/10 OCD Appr. date(s): 01/16/14 Tank ID: A OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: Y / <u>N</u> BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N Magnetic declination: 10° E
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. NOTES: _____ ONSITE: 06/10/14		

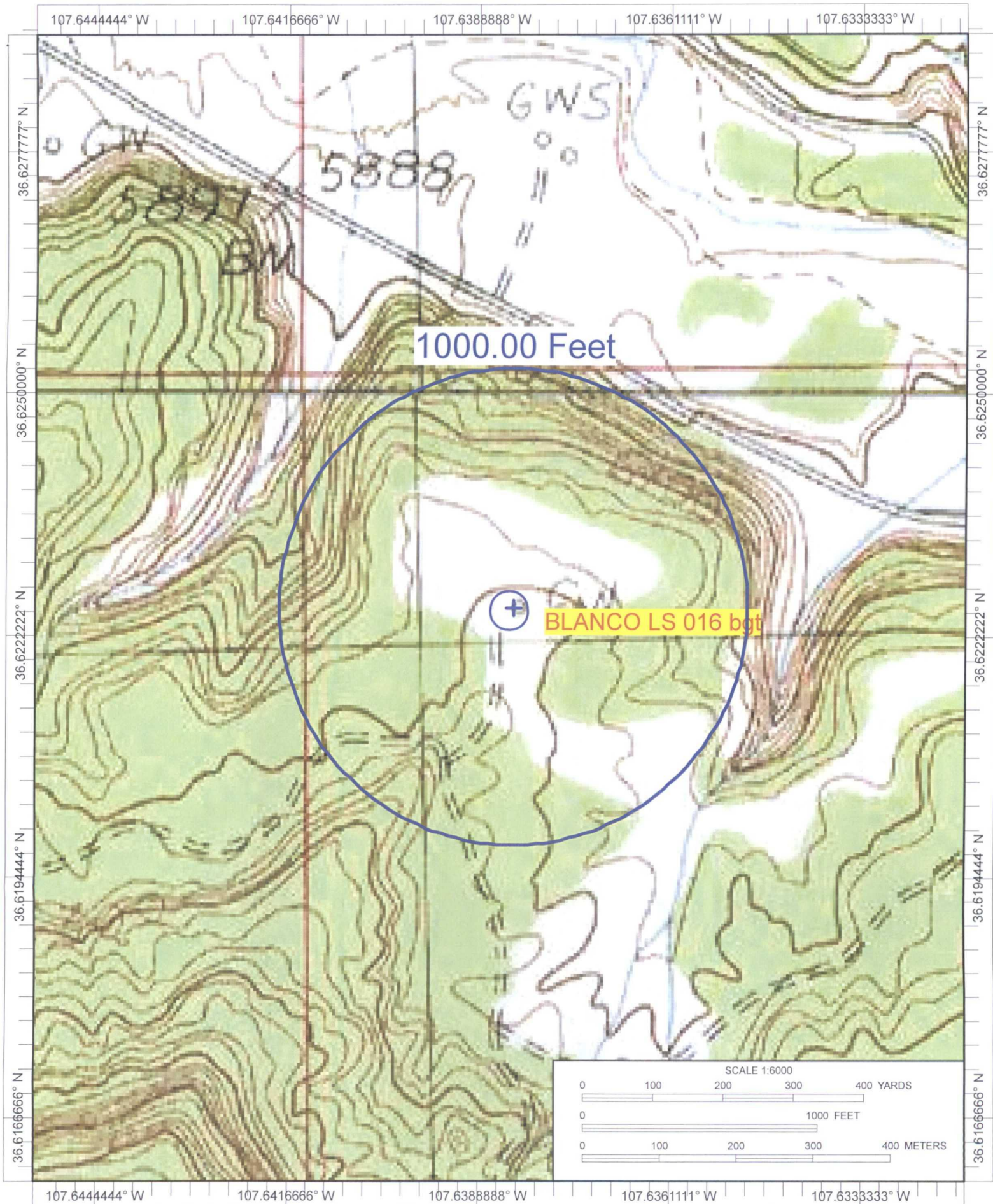


Black Staining Starting Just Below Bottom of BGT

Test Hole in Center of BGT
pit dug to Maximum Reach
of Backhoe (14')



Soil Sample for 14' Depth



BP - Blanco LS #16
Unit Ltr: D, Sec. 36, T28N, R8W, NMPM
API #: 3004511746
Federal lease: NM012201

45 bbl BGT Closure (DW/DB)
GPS: 36.62255 x 107.63838



BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Blanco LS 16
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Jun-14 10:43

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base 4-pt Comp	P406036-01A	Soil	06/10/14	06/10/14	Glass Jar, 4 oz.
Sidewall 4-pt Comp	P406036-02A	Soil	06/10/14	06/10/14	Glass Jar, 4 oz.
TH-1 @11'	P406036-03A	Soil	06/10/14	06/10/14	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

Base 4-pt Comp
P406036-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
Toluene	1.41	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
Ethylbenzene	1.66	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
p,m-Xylene	14.2	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
o-Xylene	2.02	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
Total Xylenes	16.2	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
Total BTEX	19.3	0.05	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		<i>128 %</i>		<i>80-120</i>	<i>1424013</i>	<i>06/10/14</i>	<i>06/11/14</i>	<i>EPA 8021B</i>	<i>S-02</i>
<i>Surrogate: 1,3-Dichlorobenzene</i>		<i>129 %</i>		<i>80-120</i>	<i>1424013</i>	<i>06/10/14</i>	<i>06/11/14</i>	<i>EPA 8021B</i>	<i>S-02</i>
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	370	5.00	mg/kg	1	1424013	06/10/14	06/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	233	29.9	mg/kg	1	1424012	06/10/14	06/11/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	45.4	9.88	mg/kg	1	1424016	06/11/14	06/11/14	EPA 300.0	

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

Sidewall 4-pt Comp
P406036-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		105 %	80-120			1424013	06/10/14	06/11/14	EPA 8021B	
Surrogate: Bromochlorobenzene		110 %	80-120			1424013	06/10/14	06/11/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1424012	06/10/14	06/11/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	19.9	19.9	mg/kg	1		1424021	06/11/14	06/11/14	EPA 418.1	
Cation/Anion Analysis										
Chloride	175	9.97	mg/kg	1		1424016	06/11/14	06/11/14	EPA 300.0	

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 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

TH-1 @11'
P406036-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		102 %		80-120		1424013	06/10/14	06/11/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %		80-120		1424013	06/10/14	06/11/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1424013	06/10/14	06/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1424012	06/10/14	06/11/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	71.1	9.97	mg/kg	1		1424016	06/11/14	06/11/14	EPA 300.0	

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 12-Jun-14 10:43

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1424013 - Purge and Trap EPA 5030A
Blank (1424013-BLK1)

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	52.4		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.4		"	50.0		107	80-120			

Duplicate (1424013-DUP1)

Source: P406032-01

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	37.4		ug/L	50.0		74.9	80-120			Surr2
Surrogate: Bromochlorobenzene	38.8		"	50.0		77.6	80-120			Surr2

Matrix Spike (1424013-MS1)

Source: P406032-01

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Benzene	53.5		ug/L	50.0	ND	107	39-150			
Toluene	53.0		"	50.0	ND	106	46-148			
Ethylbenzene	53.0		"	50.0	ND	106	32-160			
p,m-Xylene	107		"	100	ND	107	46-148			
o-Xylene	53.8		"	50.0	ND	108	46-148			
Surrogate: 1,3-Dichlorobenzene	52.9		"	50.0		106	80-120			
Surrogate: Bromochlorobenzene	54.9		"	50.0		110	80-120			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1424012 - DRO Extraction EPA 3550C
Blank (1424012-BLK1)

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

Duplicate (1424012-DUP1)
Source: P406032-01

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Diesel Range Organics (C10-C28) ND 30.0 mg/kg ND 30

Matrix Spike (1424012-MS1)
Source: P406032-01

Prepared: 10-Jun-14 Analyzed: 12-Jun-14

Diesel Range Organics (C10-C28) 253 mg/L 250 24.3 91.4 75-125

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1424013 - Purge and Trap EPA 5030A
Blank (1424013-BLK1)

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

Duplicate (1424013-DUP1)
Source: P406032-01

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg ND 30

Matrix Spike (1424013-MS1)
Source: P406032-01

Prepared: 10-Jun-14 Analyzed: 11-Jun-14

Gasoline Range Organics (C6-C10) 0.49 mg/L 0.450 ND 110 75-125

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

Total Petroleum Hydrocarbons by 418.1 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1424021 - 418 Freon Extraction
Blank (1424021-BLK1)

Prepared & Analyzed: 11-Jun-14

Total Petroleum Hydrocarbons ND 20.0 mg/kg

Duplicate (1424021-DUP1)

Source: P406036-02

Prepared & Analyzed: 11-Jun-14

Total Petroleum Hydrocarbons 27.9 20.0 mg/kg ND 30

Matrix Spike (1424021-MS1)

Source: P406036-02

Prepared & Analyzed: 11-Jun-14

Total Petroleum Hydrocarbons 1880 20.0 mg/kg 2020 ND 93.3 80-120

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Blanco LS 16
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 12-Jun-14 10:43

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1424016 - Anion Extraction EPA 300.0
Blank (1424016-BLK1)

Prepared & Analyzed: 11-Jun-14

Chloride ND 9.93 mg/kg

LCS (1424016-BS1)

Prepared & Analyzed: 11-Jun-14

Chloride 498 9.96 mg/kg 498 100 90-110

Matrix Spike (1424016-MS1)
Source: P406036-01

Prepared & Analyzed: 11-Jun-14

Chloride 562 9.86 mg/kg 493 45.4 105 80-120

Matrix Spike Dup (1424016-MSD1)
Source: P406036-01

Prepared & Analyzed: 11-Jun-14

Chloride 562 9.84 mg/kg 492 45.4 105 80-120 0.0831 20

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17063

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

Analytical Report

Lab Order 1406466

Date Reported: 6/12/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Blanco LS 16

Lab ID: 1406466-001

Client Sample ID: Sidewall 4-pt Comp

Collection Date: 6/10/2014 11:37:00 AM

Matrix: MEOH (SOIL) Received Date: 6/11/2014 9:03:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/11/2014 11:32:13 AM	13630
Surr: DNOP	82.9	57.9-140		%REC	1	6/11/2014 11:32:13 AM	13630
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	6/11/2014 10:14:22 AM	R19201
Surr: BFB	94.3	80-120		%REC	1	6/11/2014 10:14:22 AM	R19201
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.054		mg/Kg	1	6/11/2014 10:14:22 AM	R19201
Toluene	ND	0.054		mg/Kg	1	6/11/2014 10:14:22 AM	R19201
Ethylbenzene	ND	0.054		mg/Kg	1	6/11/2014 10:14:22 AM	R19201
Xylenes, Total	ND	0.11		mg/Kg	1	6/11/2014 10:14:22 AM	R19201
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	6/11/2014 10:14:22 AM	R19201
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	150	30		mg/Kg	20	6/11/2014 11:28:18 AM	13631
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	21	20		mg/Kg	1	6/11/2014 12:00:00 PM	13610

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406466

12-Jun-14

Client: Blagg Engineering

Project: Blanco LS 16

Sample ID	MB-13631	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	13631	RunNo:	19205					
Prep Date:	6/11/2014	Analysis Date:	6/11/2014	SeqNo:	555325	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-13631	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	13631	RunNo:	19205					
Prep Date:	6/11/2014	Analysis Date:	6/11/2014	SeqNo:	555326	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406466

12-Jun-14

Client: Blagg Engineering

Project: Blanco LS 16

Sample ID	MB-13610	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	13610	RunNo:	19175					
Prep Date:	6/10/2014	Analysis Date:	6/11/2014	SeqNo:	554456	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-13610	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	13610	RunNo:	19175					
Prep Date:	6/10/2014	Analysis Date:	6/11/2014	SeqNo:	554457	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	104	80	120			

Sample ID	LCSD-13610	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	13610	RunNo:	19175					
Prep Date:	6/10/2014	Analysis Date:	6/11/2014	SeqNo:	554458	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	103	80	120	1.35	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406466

12-Jun-14

Client: Blagg Engineering

Project: Blanco LS 16

Sample ID	MB-13578		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	13578		RunNo:	19152			
Prep Date:	6/9/2014		Analysis Date:	6/10/2014		SeqNo:	553568		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	57.9	140			

Sample ID	LCS-13578		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	13578		RunNo:	19152			
Prep Date:	6/9/2014		Analysis Date:	6/10/2014		SeqNo:	553571		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.5	57.9	140			

Sample ID	MB-13630		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	13630		RunNo:	19186			
Prep Date:	6/11/2014		Analysis Date:	6/11/2014		SeqNo:	554717		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.2		10.00		92.3	57.9	140			

Sample ID	LCS-13630		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	13630		RunNo:	19186			
Prep Date:	6/11/2014		Analysis Date:	6/11/2014		SeqNo:	554718		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	60.8	145			
Surr: DNOP	4.7		5.000		94.5	57.9	140			

Sample ID	1406466-001AMS		SampType:	MS		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	Sidewall 4-pt Comp		Batch ID:	13630		RunNo:	19152			
Prep Date:	6/11/2014		Analysis Date:	6/11/2014		SeqNo:	554722		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	49.85	9.843	94.7	40.1	152			
Surr: DNOP	4.4		4.985		87.4	57.9	140			

Sample ID	1406466-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	Sidewall 4-pt Comp		Batch ID:	13630		RunNo:	19152			
Prep Date:	6/11/2014		Analysis Date:	6/11/2014		SeqNo:	554723		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	49.80	9.843	95.9	40.1	152	1.03	32.1	
Surr: DNOP	4.2		4.980		83.9	57.9	140	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406466

12-Jun-14

Client: Blagg Engineering

Project: Blanco LS 16

Sample ID	MB-13606		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 13606		RunNo: 19186					
Prep Date:	6/10/2014		Analysis Date: 6/11/2014		SeqNo: 554751		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	57.9	140			

Sample ID	LCS-13606		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 13606		RunNo: 19186					
Prep Date:	6/10/2014		Analysis Date: 6/11/2014		SeqNo: 554756		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	57.9	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406466

12-Jun-14

Client: Blagg Engineering

Project: Blanco LS 16

Sample ID	MB-13607 MK		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	R19201		RunNo:	19201				
Prep Date:			Analysis Date:	6/11/2014		SeqNo:	555171		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	900		1000		89.9	80	120				

Sample ID	LCS-13607 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R19201		RunNo: 19201					
Prep Date:			Analysis Date: 6/11/2014		SeqNo: 555172		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.1	71.7	134			
Surr: BFB	940		1000		94.1	80	120			

Sample ID	MB-13607		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 13607		RunNo: 19201					
Prep Date:	6/10/2014		Analysis Date: 6/11/2014		SeqNo: 555180		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		89.9	80	120			

Sample ID	LCS-13607		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 13607		RunNo: 19201					
Prep Date:	6/10/2014		Analysis Date: 6/11/2014		SeqNo: 555181		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.1	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406466

12-Jun-14

Client: Blagg Engineering

Project: Blanco LS 16

Sample ID	MB-13607 MK		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R19201		RunNo:	19201			
Prep Date:			Analysis Date:	6/11/2014		SeqNo:	555207		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	LCS-13607 MK		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R19201		RunNo:	19201			
Prep Date:			Analysis Date:	6/11/2014		SeqNo:	555208		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.8	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	MB-13607		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	13607		RunNo:	19201			
Prep Date:	6/10/2014		Analysis Date:	6/11/2014		SeqNo:	555210		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	LCS-13607		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	13607		RunNo:	19201			
Prep Date:	6/10/2014		Analysis Date:	6/11/2014		SeqNo:	555211		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1406466

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

6/11/2014 9:03:00 AM

Completed By: Lindsay Mangin

6/11/2014 9:08:51 AM

Reviewed By: IO

06/11/2014

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

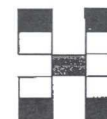
Chain-of-Custody Record		Turn-Around Time: ASAP SAME DAY
Client: BLAGE ENGINEERING INC.		☐ Standard ☒ Rush
BP AMERICA		Project Name: BLANCO LS 16
Mailing Address: P.O. Box 87		Project #: _____
BLOOMFIELD, NM 87413		Project Manager: JEFF BLAGE
Phone #: 505-632-1199		
email or Fax#: _____		
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)		
Accreditation ☐ NELAP ☐ Other _____		Sampler: JEFF BLAGE
☐ EDD (Type) _____		On Ice: ☒ Yes ☐ No
		Sample Temperature: 1.0

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/10/14	1449	Jill Blosay	Christie Walle	2/10/14	1449
Date:	Time:	Relinquished by:	Received by:	Date	Time
2/10/14	1457	Christie Walle	Christie Walle		

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice ON

Remarks: Bill BP
PAYKEY: ZFEIRKOSJS
CONTACT: JEFF PEACE



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

X	BTEX + MTBE + TMB's (8021)
	BTEX + MTBE + TPH (Gas only)
X	TPH 8015B (GRO / DRO / MTBE)
X	TPH (Method 418.1)
	EDB (Method 504.1)
	PAH's (8310 or 8270 SIMS)
	RCRA 8 Metals
	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
	8081 Pesticides / 8082 PCB's
	8260B (VOA)
	8270 (Semi-VOA)
X	CHLORIDE
	Air Bubbles (Y or N)

6-9-14

1025 N. French Dr., Hobbs, NM
 District I
 1301 W. Grand Avenue, Artesia,
 District III
 1000 Rio Brazos Road, Aztec, NM 87410
 District IV
 220 S. St. Francis Dr., Santa Fe, NM 87505

03<2-48

SOURCES

Form C
 Revised March 12

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

Surface Waste Management Facility Operator and Generator shall maintain and make documentation available for Division inspection

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

BP AMERICA 200 ENERGY COURT FARMINGTON NEW MEXICO 87401

2. Originating Site:

Work Order # N15421192

3. Location of Material (Street Address, City, State or ULSTR):

UL D SECTION 36 TOWNSHIP 28N RANGE 8W

4. Source and Description of Waste:

Hydrocarbon impacted soil discovered during decommissioning of location. NW 6 PIA marker

Estimated Volume 800 yd³/bbls

Known Volume (to be entered by the operator at the end of the haul)

130 yd³/bbl

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

Sub signer 505-632-8301

representative or authorized agent for BP AMERICA

do hereby

Generator Signature and Phone#

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 19 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFILLS

[Signature], representative for [Signature] do hereby certify that

Representative/Agent Signature

representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfills pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:

Crossroads

OCID Permitted Surface Waste Management Facility

Name and Facility Permit #: BP Amco NM-02-003Address of Facility: 491 CR 9150 Aztec NM 87410

Method of Treatment for Disposal:

☐ Evaporation ☐ Injection ☐ Treating Pond ☒ Landfill ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ ACCEPTED☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME:

L. Machacha

TITLE:

Administrative Officer

DATE:

6/9/14

SIGNATURE:

Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-1192FAX NO.: 505-632-1192

DATE