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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or	
13263 Proposed Alternative Method Permit or Closure Plan Application	
Type of action: Below grade tank registration OIL CONS. DIV DIST.	3
39-22288 Closure of a pit, below-grade tank, or proposed alternative method NOV 1 3 2015	
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, 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 ordin	
1. Operator: ConocoPhillips Company OGRID #: 217817	
Address: PO BOX 4289, Farmington, NM 87499	
Facility or well name: AXI Apache N 13A	
API Number: 30-039-22288 OCD Permit Number:	
U/L or Qtr/Qtr I (NESE) Section 2 Township 25N Range 4W County: Rio Arriba	
Center of Proposed Design: Latitude <u>36.425251 N</u> Longitude <u>-107.21582 W</u> NAD: <u>1927</u> 1983	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
□ Lined □ Unlined Liner type: Thicknessmil ☑ LLDPE □ HDPE □ PVC □ Other □ String-Reinforced Liner Seams: □ Welded □ Factory □ Other Volume:bbl Dimensions: Lx Wx D	
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: <u>120</u> bbl Type of fluid: <u>Produced Water</u>	
Tank Construction material: Metal	
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 Unspecified	-
4. Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approv	val.
5.	-
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, 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	
Form C-144 Oil Conservation Division Page 1 of 6	1

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)

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 19.15.16.8 NMAC

Variances and Exceptions:

Conceral siting

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:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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. Siting criteria does not apply to drying pads or above-grade tanks.

General string	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	□ Yes □ No ⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA
 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. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No
 Within an unstable area. (Does not apply to below grade tanks) 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. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet 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 search; Visual inspection (certification) of the proposed site	Yes No

Within 100 feet of a wetland. -, US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit Non-low chloride drilling fluid	
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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 spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	et a m
 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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 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. and 19.15.17.13 NMAC	cuments are
Previously Approved Design (attach copy of design) API Number: or Permit Number:	<u>Nam 28.110</u> 1
11. Multi-Well Fluid Management Pit 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 doc attached. 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 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

 <u>Permanent Pits Permit Application Checklist</u>: Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.</i> Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 	documents are
 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 	
13. <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i> Type: Drilling Workeyer Expression Conjugate in P.8.4 Dependence of the proposed closure plan.	luid Management Dit
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	luid Management Pit
 On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method 	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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 C of 19.15.17.13 NMAC More that the appropriate requirements of Subsection C of 19.15.17.13 NMAC More that the appropriate requirements of Subsection C of 19.15.17.13 NMAC More that the appropriate requirements of Subsection C of 19.15.17.13 NMAC More that the appropriate requirements of Subsection C of 19.15.17.13 NMAC More that the appropriate requirements of Subsection H of 19.15.17.13 NMAC More that the appropriate requirements of Subsection H of 19.15.17.13 NMAC Machine that the appropriate requirements of Subsection H of 19.15.17.13 NMAC More that the appropriate requirements of Subsection H of 19.15.17.13 NMAC More that the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 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 □ NA
Ground water is between 25-50 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 ☐ NA
 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 □ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant 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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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	P. 19
Form C-144 Oil Conservation Division Page 4 o	f 6

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 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 Within a 100-year floodplain.	🗌 Yes 🗌 No
- FEMA map	Yes No
 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure ple 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 E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements 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 cann 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 H of 19.15.17.13 NMAC 	11 NMAC 15.17.11 NMAC
17. 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 beli	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure Plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Ocoscol Approval Date: OCD Title: Constrained OCD Permit Number: OCD Permit Number:	<u> 19212</u>
19.	
<u>Closure Report (required within 60 days of closure completion)</u> : 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Completion Date: 6/8/2015	
20. Closure Method: Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-lo If different from approved plan, please explain.	oop systems only)
21. <u>Closure Report Attachment Checklist</u> : Instructions: Each of the following items must be attached to the closure report. Please in 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 for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 	dicate, by a check

Oil Conservation Division

22.

Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, 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 Walker	Title: Regulatory Coo	ordinator	
Signature:	Getal	Walker	Date: 11/11/2015	2
e-mail address:	crystal.walker@cop.c	om Telephone: (505) 326-983'	7	

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: AXI Apache N 13A API No.: 30-039-22288

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

 COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

 COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

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). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

5. COPC will test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)		
Benzene	EPA SW-846 8021B or 8260B	0.2		
BTEX	EPA SW-846 8021B or 8260B	50		
ТРН	EPA SW-846 418.1	100		
Chlorides	EPA 300.0	250		

 If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week 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.

9. The surface owner shall be notified of COPC's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via 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.)

10. 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 below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including 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 recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. COPC shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs. Provision 11 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Included as an attachment)

Walker, Crystal

From:	Journey, Denise D
Sent:	Thursday, June 04, 2015 8:12 AM
То:	'Smith, Cory, EMNRD'; Powell, Brandon, EMNRD
Cc:	Heinen, Bobby B; 'Kelly, Mark'
Subject:	FW: AXI APACHE N 13A - 30-039-22288 - 72 HOUR NOTICE BGT CLOSURE

PLEASE DISREGARD THE PREVIOUS 72 HOUR NOTIFICATION FOR THE AXI APACHE N 13 – IT SHOULD BE FOR THE AXI APACHE N 13A. MY APOLOGIES.

Subject: AXI APACHE N 13A

Anticipated Start Date: Monday, June 8, 2015 @ approximately 8:30 am

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name:	AXI APACHE N 13A	
API#:	30-039-22288	
Location:	UL I, SEC. 2, T25N, R4W	
Footages:	1520' FSL & 1050' FEL	
Operator:	ConocoPhillips	Surface Owner: BLM
Please forwa	ard this message as necessar	y to anyone I may have missed.

Denise Journey Staff Regulatory Technician ConocoPhillips Company 505-326-9556 505-215-1750 Denise.Journey@conocophillips.com

From: Journey, Denise D Sent: Thursday, June 04, 2015 7:09 AM To: 'Smith, Cory, EMNRD'; Powell, Brandon, EMNRD Cc: Heinen, Bobby B; GRP:SJBU Regulatory; 'Kelly, Mark' Subject: FW: AXI APACHE N 13 - 30-039-21428 - 72 HOUR NOTICE BGT CLOSURE

Please note correction in subject line for the API#.

Denise Journey

Staff Regulatory Technician 505-326-9556

From: Journey, Denise D Sent: Thursday, June 04, 2015 7:07 AM To: Smith, Cory, EMNRD; Powell, Brandon, EMNRD
Cc: Heinen, Bobby B; GRP:SJBU Regulatory; Kelly, Mark
Subject: AXI APACHE N 13 - 30-209-21428 - 72 HOUR NOTICE BGT CLOSURE

Subject: 72 Hour Notice of BGT Closure

Anticipated Start Date: Monday, June 8, 2015 @ approximately 8:30 am

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name: AXI APACHE N 13

API#: 30-039-21428

Location: UL G; SEC. 2, T25N, R4W

Footages: 1850' FNL & 1850' FEL

Operator: ConocoPhillips Company

Surface Owner: BLM

Please forward this message as necessary to anyone I may have missed.

Denise Journey Staff Regulatory Technician ConocoPhillips Company 505-326-9556 505-215-1750 Denise.Journey@conocophillips.com

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division ----1 0. 1 . .

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

Name of Company_Consorbhillips Company Contact Liss Hunter Address 3401 East 30 th St, Farmington, NM Telephone No. (505) 326-9786 Facility Name: AXI Apache N #13A Facility Type: Cas Weil Surface Owner Jicarilla Mineral Owner Jicarilla API No. 3003922288 LOCATION OF RELEASE Interview County Reider Strate County Reider Strate County I 02 25N Ref Feet from the South Feet from the East/West Line County Route of Release Intrust of South Feet from the County East Reider Strate County Volume of Release Unknown Volume Recovered 2 cubic yds soil Source of Release BGT Unknown Obscure of Release BGT Was Immediate Notice Given? Yes No Not Required N/A By Whon? N/A Date and Hour N/A If YES, To Whon? N/A Matercourse was Impacted, Describe Fully.* N/A Date and Hour N/A If Westroourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* Bedow-Grade Tank Closure activities with samplet taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affe	Santa	E TA NIM 075	05					
Name of Company ConocoPhillips Company Contact Lisa Hunter Address 3401 East 30 th St, Farmington, NM Telephone No. (505) 326-9786 Facility Name: AXI Apache N#13A Facility Type: Gas Well Surface Owner Jicarilla Mineral Owner Jicarilla API No. 3003922288 LOCATION OF RELEASE Initial Report Rineral Owner Jicarilla County 1 02 25N 04W IS20 LocATION OF RELEASE Unit Letter Section Township Range Feet from the South Line Feet from the East/West Line County 1 02 25N 04W IS20 LocATION OF RELEASE Volume of Release Volume Recovered 2 cubic v/ds soil Source of Release Hydrocarbon Volume of Release Unknown Ust and Hour Of Occurrence Date and Hour Of Discovery Was Immediate Notice Given? If YEs [No [N/A If YEs [No [N/A If YEs [No [N/A If YEs [No [N/A By Whon? NA If Yes [No [N/A If Yes [No [N/A If Yes [No [N/A If Yes [N/A Describe Case of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.						_	_	
Name of Company ConcorPhillips Company Contact Liss Hunter Address 3401 East 30 th St, Farmington, NM Telephone No. (505) 326-9786 Facility Name: XI A packet N #13A Facility Type: Cas Well Surface Owner Jicarilla Mineral Owner Jicarilla API No. 3003922288 LOCATION OF RELEASE Interview County East/West Line County Name of Release Township Range from the East/West Line County Rio Arriba Latitude 36.42506 Longitude -107.21638 NATURE OF RELEASE NATURE OF RELEASE Type of Release Hydrocarbon Volume of Release Unknown 0521/15 @ 12:00 PM 17478, To Whom? Was Immediate Notice Given? Yes No Not Required N/A By Whom? N/A Date and Hour N/A If YES, To Whom? N/A If a Watercourse was Impacted, Describe Fully.* N/A N/A N/A Describe Cause of Problem and Remedial Action Taken.* Bedow-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleaup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation site. Analytical results were below the	Release Notificat	tion and Co	orrective A	ctio	n			
Address 3401 East 30 ⁶ St, Farmington, NM Telephone No. (595) 326-9786 Facility Name: AXI Apache N #13A Facility Type: Gas Well Surface Owner Jiearilla API No. 3003922288 LOCATION OF RELEASE Unit Letter Section Township Range Peet from the South East County Interview of the state of the stat					🗌 Initi	al Report	\boxtimes	Final Report
Facility Name: AXI Apache N #13A Facility Type: Gas Well Surface Owner Jiearilla Mineral Owner Jiearilla API No. 3003922288 Unit Letter Section Township Range Feet from the North/South Line Feet from the Last/West Line County 1 02 Township Range Feet from the North/South Line Feet from the East County 1 02 Township Range Feet from the North/South Line Feet from the East County 1 02 Township Range Feet from the North/South Line Feet from the East County 1 02 Township Range Feet from the North/South Line Feet from the East Routh County County Source of Release Hydrocarbon Volume of Release Unknown Volume Recovered 2 cubic yds soil Source of Release NA Date and Hour O/Courrence Date and Hour N/A Volume Antiper Vist Not Was a watercourse was Impacted, Describe Fully.* N/A NA Date and Hour N/A NA De								
Surface Owner Jicarilla Mineral Owner Jicarilla API No. 3003922288 LOCATION OF RELEASE LOCATION OF RELEASE County East/West Line County 1 02 Township Rame Feet from the North/South Line Feet from the East/West Line County 1 02 25N 04W 1520 South Ine Feet from the East/West Line County 1 02 25N 04W 1520 South Ine Feet from the East/West Line County 1 02 25N 04W Volume of Release Unknown Volume Recovered 2 cubic yds soil 50urce of Release BGT Unknown Use and Hour of Discovery Use and Hour of Nice 0521/15 (g) 12:00 PM If YES, To Whom? Was a Watercourse Reached? Yes No NA Date and Hour N/A Was a Vatercourse. N/A Bew-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavatio				9786				_
LOCATION OF RELEASE Unit Letter Section Township Range Feet from the ISO East/West Line County East County Image: Interview Other South Interview Interview East County Image: Interview Other South Interview South Interview Interview County Image: Interview Optime of Release Hydrocarbon Volume of Release Unknown Volume Recovered 2 cubic vds soil Source of Release BGT Unknown Volume of Release Unknown Volume Recovered 2 cubic vds soil Source of Release BGT Unknown Volume of Occurrence Date and Hour of Discovery Date and Hour of Occurrence Date and Hour of NA By Whom? NA Date and Hour NA If YES, To Whom? N/A NA Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for			e: Gas Well	_				
Unit Letter Section Township Range Feet from the 1050 Feet from the 1050 East West Line 2000 County Rio Arriba Latitude 36.42506 Longitude -107.21638 NATURE OF RELEASE Type of Release Hydrocarbon Volume of Release Unknown Volume Recovered 2 cubic yds soil Source of Release BGT Unknown Volume of Release Unknown 05/21/15 @ 12:00 PM Was Immediate Notice Given? If YES, To Whom? N/A If YES, To Whom? N/A By Whom? N/A Date and Hour N/A If YES, To Whom? N/A By Whom? N/A Date and Hour N/A If YES, Volume Impacting the Watercourse. N/A Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in the other and paced in the excavation site. Analytical results were below the regulators show as transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulators and porterions are failed to adequadely investigate and remediate contain relea	Surface Owner Jicarilla Mineral Own	ner Jicarilla			API No	b. 3003922	288	
1 02 25N 04W 1520 South 1050 East Rio Arriba Latitude 36.42506 Longitude _107.21638 NATURE OF RELEASE Type of Release Hydrocarbon Volume of Release Unknown Volume Recovered 2 cubic yds soil Source of Release BGT Date and Hour of Occurrence Date and Hour of Discovery Was Immediate Notice Given? If YES, To Whom? N/A Date and Hour N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. N/A By Whom? N/A Date and Hour of Occurrence Date and Remoting the Watercourse. N/A By Was a Watercourse Keached? If YES, Volume Impacting the Watercourse. N/A If a Watercourse was Impacted, Describe Fully.* N/A Date and Hour N/A Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulators and related and part or review. 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 regulatons all operators are re	LOCAT	ION OF REL	LEASE					
NATURE OF RELEASE Type of Release Hydrocarbon Volume of Release Unknown Volume Recovered 2 cubic yds soil Source of Release BGT Date and Hour of Occurrence Date and Hour of Discovery 05/21/15 @ 12:00 PM Was Immediate Notice Given? If YES, To Whom? N/A By Whom? N/A Date and Hour N/A By Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Cause of Problem and Remedial Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jiearilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. Thereby 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 rele			and an annual second second	East/			a	
Type of Release Hydrocarbon Volume of Release Unknown Volume Recovered 2 cubic yds soil Source of Release BGT Date and Hour of Occurrence Date and Hour of Discovery Date and Hour of Discovery Was Immediate Notice Given? I Yes No Not Required N/A Date and Hour of NA By Whom? N/A Date and Hour N/A Date and Hour N/A Date and Hour N/A Was a Watercourse Reached? I'YES, Volume Impacting the Watercourse. N/A If a Watercourse was Impacted, Describe Fully.* N/A N/A Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulators ytandards – no further action required. The soil sampling report is attached for review. 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 adicexceptance of a C-141 report by the NMOCD marked as "Fin	Latitude <u>36.42</u>	2506 Longitud	e <u>-107.21638</u>					
Source of Release BGT Date and Hour of Occurrence Unknown Date and Hour of Discovery 05/21/15 @ 12:00 PM Was Immediate Notice Given? Yes No Not Required N/A By Whon? N/A Date and Hour of Occurrence Unknown 05/21/15 @ 12:00 PM Was a Watercourse Reached? Yes No Date and Hour N/A If YES, Yolume Impacting the Watercourse. N/A Ma Describe Fully.* N/A Ma Describe Cause of Problem and Remedial Action Taken.* N/A Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. 1 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 and operators are required to report and/or file certain release notifications and perform corrective actions for releases which may other federal, state, or local laws and/or regulations. Signature: Y			10.1125-252767.57.000					
Unknown 05/21/15 @ 12:00 PM Was Immediate Notice Given? If YES, To Whom? WA N/A By Whom? N/A Date and Hour N/A If YES, To Whom? Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. N/A N/A If a Watercourse was Impacted, Describe Fully.* N/A NA N/A Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to 1E1 land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulators and porter action required. The soil sampling report is attached for review. 1 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. In addition, NMOCD acceptance of a C-141 report by the NMOCD marked as "Filan Report" does not relieve the operator of liability should their operations have failed to adequately investigate								bic yds soil
Was Immediate Notice Given? Yes No Not Required If YES, To Whom? By Whom? N/A Date and Hour N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. N/A If a Watercourse was Impacted, Describe Fully.* N/A N/A Describe Cause of Problem and Remedial Action Taken.* N/A Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. 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 responsibility for compli	Source of Release BGT		lour of Occurrent	ce			-	
□ Yes □ No Not Required N/A By Whom? N/A Date and Hour N/A Was a Watercourse Reached? □ Yes No □ Yes ○ No If YES, Volume Impacting the Watercourse. N/A NA NA Describe Cause of Problem and Remedial Action Taken.* Eleow-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. 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. In addition, NMOCD acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of Itability for compliance with any other federal, state, or local laws and/or regulations. Signature: Watter or local laws and/or regulations. OIL CONSERVATION DIVISION Printed Name: Lisa Hunter <td>Was Immediate Notice Given?</td> <td></td> <td>Whom?</td> <td></td> <td>05/21/15</td> <td>@ 12:00 PM</td> <td>VI</td> <td></td>	Was Immediate Notice Given?		Whom?		05/21/15	@ 12:00 PM	VI	
By Whon? N/A Date and Hour N/A Was a Watercourse Reached?			whom?					
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. NA N/A Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IE1 land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. 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. The 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: With the information specialist Approval Date: VAPUADUS Expiration Date: Printed Name: Lisa Hunter Approval Date: VAPUADUS Expirat			our N/A					
N/A Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC. Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. 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:	Was a Watercourse Reached?	If YES, Vo		the Wat	tercourse.			
Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. 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: OIL CONSERVATION DIVISION Printed Name: Lisa Hunter Title: Field Environmental Specialist Approved by Environmental Specialist Approval Date: E-mail Address: Lisa.Hunter@cop.com	N/A Describe Cause of Problem and Remedial Action Taken.*							
Signature: Mathematical Specialist Printed Name: Lisa Hunter Title: Field Environmental Specialist E-mail Address: Lisa.Hunter@cop.com Conditions of Approval: Attached	Below-Grade Tank Closure activities with samples taken resulting	ng in constituents	exceeded stand	ards ou	itlined by 1	9.15.17.13	MAC	
Printed Name: Lisa Hunter Approved by Environmental Specialist: Title: Field Environmental Specialist Approval Date: V2/12015 E-mail Address: Lisa.Hunter@cop.com Conditions of Approval:	Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during th depth and 2 yds of soil was transported to IEI land farm an and placed in the excavation site. Analytical results were b sampling report is attached for review. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report	te BGT closure and 2 yds of clea below the regula to the best of my ase notifications an by the NMOCD m ediate contaminati	for the subject n soil was tran atory standard knowledge and und perform correct arked as "Final R on that pose a thr e the operator of	t well. sporte s – no indersta ctive act teport" of reat to g respons	The excav d from Jic further ac and that purs tions for rele does not reli ground water sibility for c	vation was carilla app ction requi suant to NM eases which ieve the oper r, surface wa ompliance w	6' x 4 roved red. T OCD ru may er rator of iter, hur vith any	' x 1.5' in source The soil ales and adanger Tiability man health
Printed Name: Lisa Hunter Approved by Environmental Specialist: Title: Field Environmental Specialist Approval Date: V2/12015 E-mail Address: Lisa.Hunter@cop.com Conditions of Approval:	Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during th depth and 2 yds of soil was transported to IEI land farm an and placed in the excavation site. Analytical results were b sampling report is attached for review. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report	te BGT closure and 2 yds of clea below the regula to the best of my ase notifications an by the NMOCD m ediate contaminati	for the subject n soil was tran atory standard knowledge and und perform correct arked as "Final R on that pose a thr e the operator of	t well. sporte s – no indersta ctive act teport" of reat to g respons	The excav d from Jic further ac and that purs tions for rele does not reli ground water sibility for c	vation was carilla app ction requi suant to NM eases which ieve the oper r, surface wa ompliance w	6' x 4 roved red. T OCD ru may er rator of iter, hur vith any	' x 1.5' in source The soil ales and adanger Tiability man health
Title: Field Environmental Specialist Approval Date: V2/2/2015 Expiration Date: E-mail Address: Lisa.Hunter@cop.com Conditions of Approval: Attached	Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during th depth and 2 yds of soil was transported to IEI land farm an and placed in the excavation site. Analytical results were b sampling report is attached for review. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e BGT closure and 2 yds of clea below the regula to the best of my ase notifications any by the NMOCD m ediate contamination ort does not reliev	for the subject n soil was tran atory standard knowledge and u ad perform correc arked as "Final R on that pose a thu e the operator of OIL CON	t well. sporte s – no indersta ctive act teport" reat to g respons SERV	The excave d from Jic further ac and that purs tions for rele does not reli ground water sibility for con- VATION	vation was carilla app ction requi suant to NM eases which ieve the oper r, surface wa ompliance w	6' x 4 roved red. T OCD ru may er rator of iter, hur vith any	' x 1.5' in source The soil ales and adanger Tiability man health
Attached	Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during th depth and 2 yds of soil was transported to IEI land farm an and placed in the excavation site. Analytical results were b sampling report is attached for review. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature:	e BGT closure and 2 yds of clea below the regula to the best of my ase notifications any by the NMOCD m ediate contamination ort does not reliev	for the subject n soil was tran atory standard knowledge and u ad perform correc arked as "Final R on that pose a thu e the operator of OIL CON	t well. sporte s – no indersta ctive act teport" reat to g respons SERV	The excave d from Jic further acc und that purs- tions for rele- does not reli- ground water sibility for co VATION	vation was carilla app etion requi suant to NM eases which ieve the oper r, surface wa ompliance w DIVISIC	6' x 4 roved red. T OCD ru may er rator of iter, hur vith any	' x 1.5' in source The soil ales and adanger Tiability man health
	Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during th depth and 2 yds of soil was transported to IEI land farm an and placed in the excavation site. Analytical results were be sampling report is attached for review. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relead public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: Printed Name: Lisa Hunter	e BGT closure ad 2 yds of clea below the regula to the best of my ase notifications and by the NMOCD me ediate contamination ort does not reliev Approved by	for the subject n soil was tran atory standard knowledge and un ad perform correct arked as "Final R on that pose a thr e the operator of <u>OIL CON</u> Environmental S	t well. sporte s – no indersta ctive act teoport" reat to g respons <u>SERV</u> specialis	The excave d from Jic further acc und that purs- tions for rele- does not reli- ground water sibility for co VATION	vation was carilla app etion requi suant to NM eases which ieve the oper r, surface wa ompliance w DIVISIC	6' x 4 roved red. T OCD ru may er rator of iter, hur vith any	' x 1.5' in source The soil ales and adanger Tiability man health
Date: September 23, 2015 Phone: (505) 326-9786 Attach Additional Sheets If Necessary	Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during th depth and 2 yds of soil was transported to IEI land farm an and placed in the excavation site. Analytical results were b sampling report is attached for review. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: Printed Name: Lisa Hunter Title: Field Environmental Specialist	e BGT closure ad 2 yds of clea below the regula to the best of my use notifications any by the NMOCD m ediate contaminati ort does not reliev Approved by Approval Dat	for the subject n soil was tran atory standard knowledge and u ad perform correct arked as "Final R on that pose a the e the operator of <u>OIL CON</u> Environmental S e: VAPUAC	t well. sporte s – no indersta ctive act teoport" reat to g respons <u>SERV</u> specialis	The excave d from Jic further acc und that purs- tions for rele- does not reli- ground water sibility for co VATION	vation was carilla app etion requi	6' x 4 roved red. 1 OCD ru may er rator of tter, hun vith any	' x 1.5' in source The soil ales and adanger Tiability man health

Rule Engineering, LLC

Solutions to Regulations for Industry -

September 22, 2015

Ms. Lisa Hunter ConocoPhillips San Juan Business Unit 5525 Highway 64 Farmington, New Mexico 87401

Re: Axi Apache N #13A Below Grade Tank Closure Sampling and Release Report

Dear Ms. Hunter:

This report summarizes below grade tank (BGT) closure sampling and remedial activities conducted at the ConocoPhillips Axi Apache N #13A, located in Unit Letter I, Section 2, Township 25N, Range 4W in Rio Arriba County, New Mexico on the Jicarilla Apache Nation. Site activities included collection and analysis of a five-point composite soil closure sample from beneath the BGT, excavation of hydrocarbon impacted soils, and collection and analysis of an excavation confirmation sample. A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

BGT/Release Summary

Site Name – Axi Apache N #13A Location – Unit Letter I, Section 2, Township 25N, Range 4W API Number – 30-039-22288 Wellhead Latitude/Longitude – N36.42523 and W107.21638 BGT Latitude/Longitude – N36.42506 and W107.21672 Land Jurisdiction – Jicarilla Apache Nation Size of BGT – 45 barrels Source of Release – historic (beneath the BGT east side) Release Contents –unknown Release Volume – unknown Site Ranking – 20 Date of BGT Closure Soil Sampling – June 8, 2015 Date(s) of Rule Engineering, LLC (Rule) Field Work – June 8 and 12, 2015 Subcontractor(s) – CF&M Amount of Contaminated Soil Excavated/Disposed – estimated 2 cubic yards

BGT Closure Standards

As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the Axi Apache N #13A are as follows: 0.2 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH).

Ms. Lisa Hunter Axi Apache N #13A September 22, 2015 Page 2 of 4

Site Ranking

The Axi Apache N #13A is located on the Jicarilla Apache Nation and follows recommendations from Jicarilla Apache Nation Environmental Protection Office (EPO). In accordance with EPO and New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 20 (Table 1). Based on the ranking score of 20, action levels for remediated soils at the site are as follows: 10 mg/kg benzene, 50 mg/kg total BTEX, and 100 mg/kg TPH.

Depth to groundwater at the site was estimated to be 286 feet below ground surface (bgs) based on the elevation differential (286 feet) between the BGT location and the wash in Ojitos Canyon.

A review was completed of the New Mexico Office of the State Engineer online New Mexico Water Rights Reporting System and no water wells were identified within a 1,000 feet radius of the location.

The nearest surface water, an unnamed wash which drains to the Ojitos Canyon is located approximately 80 feet west of the BGT.

Field Activities

On June 8, 2015, Rule personnel conducted a visual inspection for surface/subsurface indications of a release. Soil discoloration and hydrocarbon odor was observed below the BGT along the eastern edge. No corrosion holes were visible in the BGT and the impacted soils were located 4 inches bgs, indicating that a historic release had occurred. Rule personnel then collected five soil samples (S-1 through S-5) from 0.5 feet beneath the BGT. The field work summary sheet is attached.

On the June 12, 2015, CF&M excavated the petroleum impacted materials from below the BGT. On June 12, 2015, Rule personnel collected one confirmation sample made up of samples from the sidewalls and base of the excavation. Approximately 2 cubic yards of impacted soils were removed from an area of excavation measuring approximately 6 feet x 4 feet x 1.5 (to 2.0) feet in depth. Figure 3 provides the locations and results of the soil sample collected during the excavation clearance.

BGT Soil Sampling

Rule

The five soil samples (S-1 through S-5) collected from below the BGT liner were combined to create soil confirmation sample SC-1 BGT. A portion of SC-1 BGT was field screened for volatile organic compounds (VOCs) and chlorides, and field analyzed for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1.

Ms. Lisa Hunter Axi Apache N #13A September 22, 2015 Page 3 of 4

The portion of SC-1 BGT collected for laboratory analysis was placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The sample was analyzed for BTEX per USEPA Method 8021B, TPH per USEPA Method 418.1, and chlorides per USEPA Method 300.0.

Field sampling results for closure sample SC-1 BGT reported VOCs at 293 parts per million (ppm) and TPH concentrations at 1,070 mg/kg. Field chloride concentrations were reported at 80 mg/kg. Laboratory analytical results for sample SC-1 BGT reported benzene and total BTEX concentrations as less than 0.050 mg/kg and 0.2 mg/kg, respectively. Laboratory analytical results for SC-1 BGT reported concentrations of 480 mg/kg TPH and 170 mg/kg chloride. Field and laboratory results for SC-1 BGT are summarized in Table 2, and the analytical laboratory report is attached.

Excavation Soil Sampling

From the excavation, Rule collected one five-point composite sample (Excavation Composite) from the sidewalls and base. A portion of the composite soil sample was field screened for VOCs and field analyzed for TPH per USEPA Method 418.1.

The Excavation Composite collected for laboratory analysis was placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The sample was analyzed for BTEX per USEPA Method 8021B and TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

Field results for soil confirmation sample reported VOC and TPH concentrations below the NMOCD action levels of with 5.2 ppm and 99.9 mg/kg, respectively. Laboratory analytical results for soil confirmation Excavation Composite reported benzene, total BTEX, and TPH (GRO+DRO) concentrations below the applicable NMOCD action levels. Field sampling and laboratory analytical results are summarized in Table 3 and presented on Figure 3. The analytical laboratory report is attached.

Conclusions

Rule

On June 8, 2015, BGT closure sampling activities were conducted at the ConocoPhillips Axi Apache N 13A. Field and laboratory results for sample SC-1 BGT were reported below the BGT closure standards for benzene, total BTEX, and chlorides as outlined in 19.15.17.13.NMAC, but exceeded the BGT closure standard of 100 mg/kg for TPH. Based on field screening results a historic release was noted along the eastern portion of the BGT location.

On June 12, 2015, approximately 2 cubic yards of hydrocarbon contaminated soils were removed from within the impacted area. The final excavation measured 6

Ms. Lisa Hunter Axi Apache N #13A September 22, 2015 Page 4 of 4

feet x 4 feet x 1.5 (to 2.0) feet in depth. On June 12, 2015, one confirmation soil sample was collected from the sidewalls and base of the final excavation.

Laboratory analytical results for soil confirmation sample, Excavation Composite, reported benzene and total BTEX concentrations below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. The field and laboratory TPH concentrations were both reported below the NMOCD action level of 100 mg/kg. Based on the field screening results, Hobson Sandoval, EPO representative, approved backfilling of the excavation on June 12, 2015. Based on laboratory analytical results, no further work is recommended.

Rule Engineering appreciates the opportunity to provide services to ConocoPhillips. If you have any questions, please contact me at (505) 325-1055.

Sincerely, Rule Engineering, LLC

Heather M. Woods

Heather M. Woods, P.G.

Attachments:

Table 1. NMOCD Site Ranking DeterminationTable 2. BGT Soil Sampling ResultsTable 3. Excavation Soil Sampling ResultsFigure 1. Topographic MapFigure 2. Aerial Site MapFigure 3. Excavation Clearance Soil Analytical MapBGT Field Work Summary SheetAnalytical Laboratory Reports (#1506962 and #1506818)



Table 1. NMOCD Site Ranking Determination Axi Apache N #13A Rio Arriba County, New Mexico ConocoPhillips

Ranking Criteria	Ranking	Site-Based	Basis for Determination	Data
	Score	Ranking Score		Sources
Depth to Groundwater				I
<50 feet	20			NMOCD Online
50-99 feet	10	0	Elevation differential between location and wash in Ojitos Canyon south of the location is 286 feet.	database,Schmitz Ranch Quadrangle, Google Earth, and Visual Inspection
>100 feet	0			and a second
Wellhead Protection Area				
<1,000 feet from a water source, or <200 feet from private domestic water source	20 (Yes) 0 (No)	0	No water source or recorded water wells within 1,000 feet radius of location.	NMOSE NMWRRS, Schmitz Ranch Quadrangle Google Earth, and Visual Inspection
Distance to Surface Water Body				1
<200 horizontal feet	20		An unnamed wash which drains to wash in Ojitos	Schmitz Ranch Quadrangle
200 to 1,000 horizontal feet	10	20	Canyon is located approximately 80 feet west of the	Google Earth, and Visual
>1,000 horizontal feet	0		BGT.	Inspection
Site Based Total Rank	ing score	20		



Table 2. BGT Soil Sampling Results Axi Apache N #13A Rio Arriba County, New Mexico ConocoPhillips

1000					Sampling Re	sults	Laboratory Analytical Results			
Sample ID	Date	Sample Type	Sample Depth (ft below BGT)	VOCs (PID) (ppm)	TPH (mg/kg)	Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BGT Closure Standards*			100	250	0.2	50	100	250		
SC-1 BGT	Jun 08, 15	composite	0.5	293	1,070	80	<0.050	0.17	480	170

Notes: PID - photo-ionization detector

ppm - parts per million

mg/kg - milligrams/kilograms

VOCs - volatile organic compounds

TPH-total petroleum hydrocarbons per USEPA Method 418.1

BTEX - benzene, toluene, ethylbenzene, and total xylenes

*19.15.17.13 NMAC



Table 3. Excavation Soil Sampling Results Axi Apache N #13A Rio Arriba County, New Mexico ConocoPhillips

	- 19 94	Sample Depth	VOCs* (PID)	TPH* (418.1)	Benzene	Total BTEX	TPH-GRO	TPH-DRO
Sample ID	Date	Date (ft below BGT) (ppm) (mg/kg) (r		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
	100	100	10	50	1	00		
Excavation Composite	Jun 12, 15	1.5 to 2	5.2	99.9	< 0.049	<0.245	<4.9	50

Notes:

* field results VOCs - volatile organic compounds

voos - volatile organic compound

PID - photo-ionization detector

ppm - parts per million

mg/kg - milligrams/kilograms

TPH-total petroleum hydrocarbons

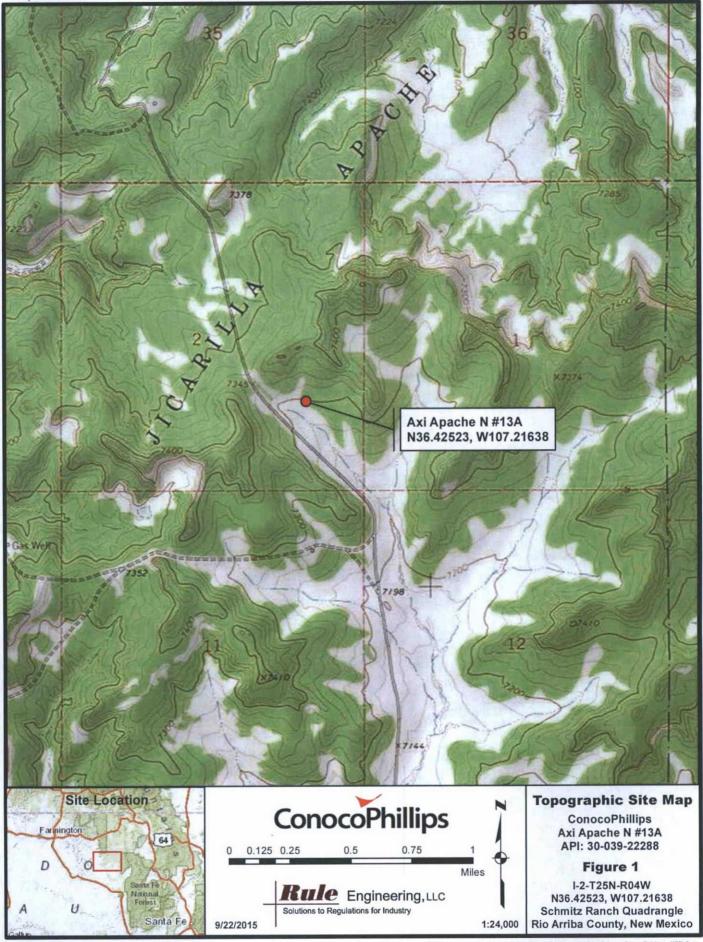
BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

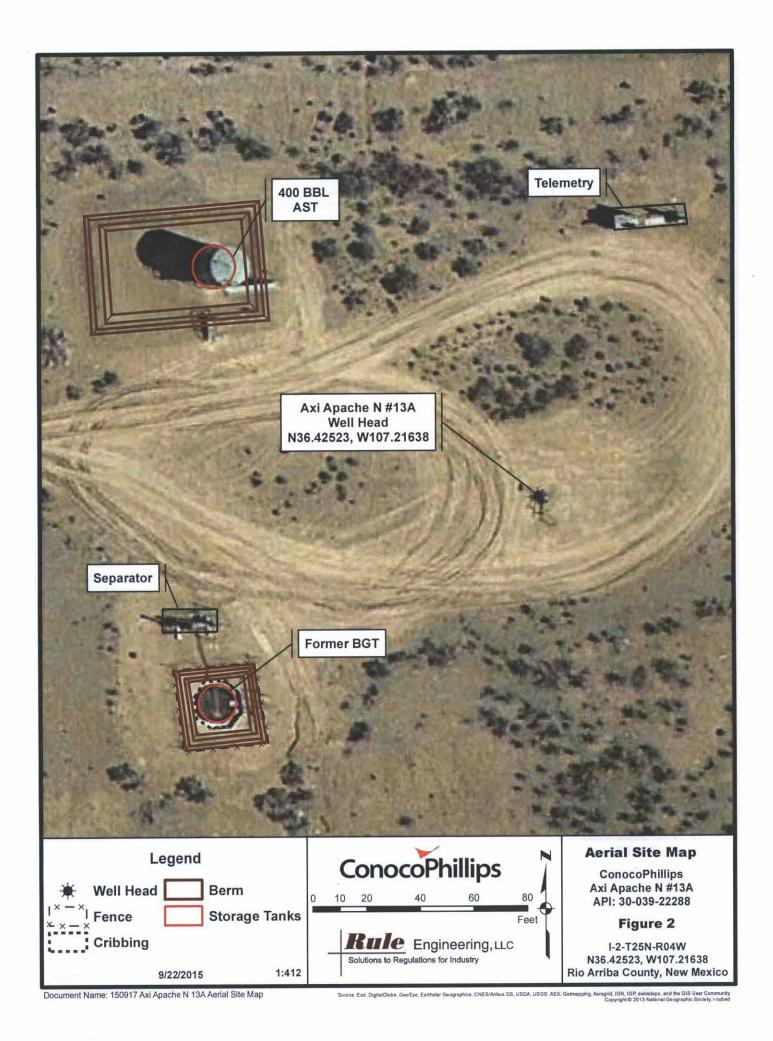
**Based on NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993), site rank of 20.

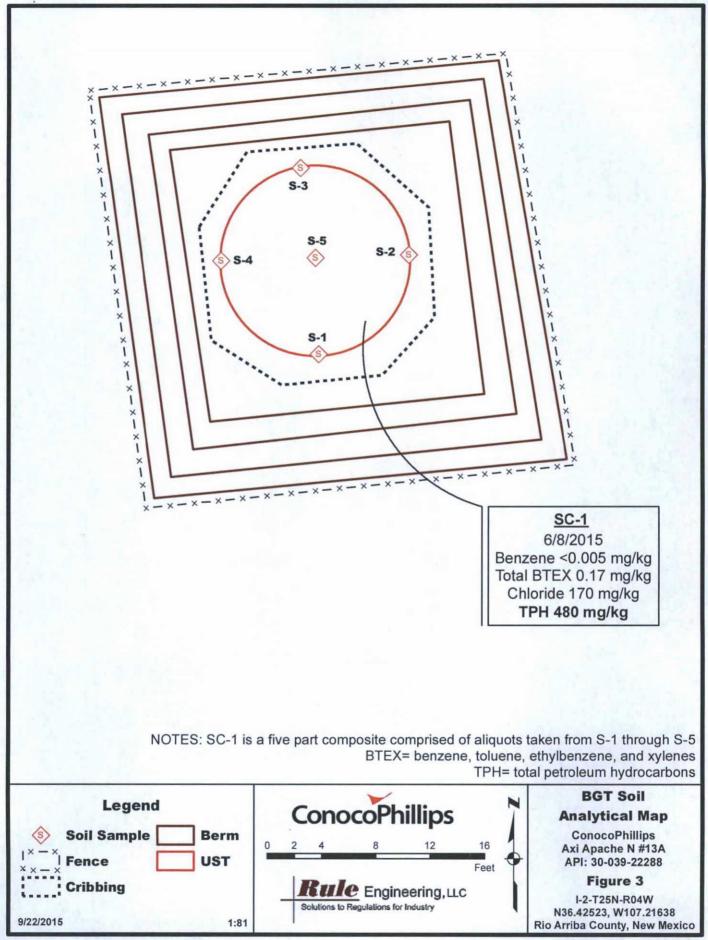




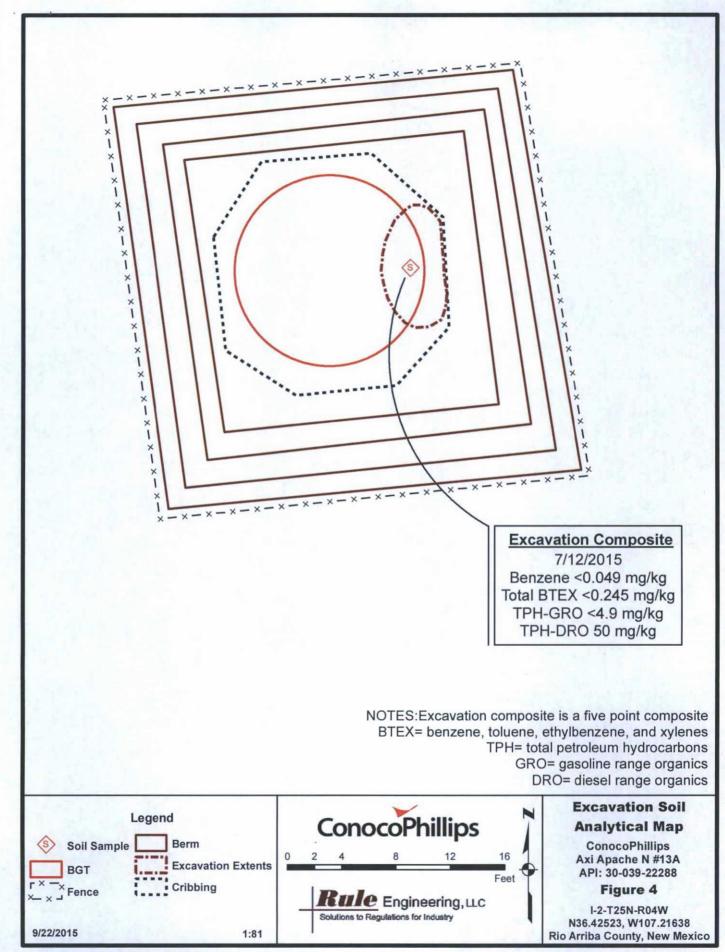
Document Name: 150927 Axi Apache N 13A Topo Map

Sources: Exrl, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Exrl Japan, METL, Esrl China (Hong Kong), exissibility, a OpenStreetMap contributors, and the GIS User Community





Document Name: 150917 Axi Apache N 13A BGT Soil Analytical Map



Document Name: 150917 Axi Apache N 13A Excavation Soil Analytical Map.pdf

Rule Engineering Field Work Summary Sheet

Company:	ConocoPhillips	
Location:	Axi Apache N #13A	
API:	30-039-22288	
Legals:	I-S02-T25N-R4W	
County:	Rio Arriba	
Land Jurisd	iction: Jicarilla Apache Nation	

Siting Information based on BGT Location:

Groundwater: Elevation differential (>100 ft)

Surface Water: Unnamed wash located 80 ft W of BGT

Wellhead Protection: No wells identified within 1,000 ft of location

Objective:	Closure sampling for BGT
Tank Size:	Tank removed
Liner:	No liner
Observatio	ns: Staining observed along east portion of BGT. Stained soil included in sample
Notes:	Following BGT sampling, excavation of impacted soils along east side.

Field Sampling Information

	Type of	Collection	Collection	VOCs1	VOCs	TPH ²	ТРН	Chloride ³	Chloride
Name	Sample	Time	Location	(ppm)	time	mg/kg	Time	mg/kg	Time
SC-1	Composite	9:50	See below	293	10:00	1,070	10:23	80	10:18

SC-1 is a 5-point composite of S-1 through S-5, collected 0.5 ft below BGT.

Sample SC-1 was laboratory analyzed for TPH (418.1), BTEX (8021) and chlorides (300.0).



Field Sampling Notes:

¹ Field screening for volatile organic compounds (VOC) vapors was conducted with a photo-ionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas.

² Field analysis for TPH was conducted using a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

³Field screening for chlorides was conducted using the Hach chloride low range test kit. Chloride concentrations are determined by drop count titration method using silver nitrate titrant.



Date:	8-Jun-15
Staff:	Debbie Watson

Wellhead GPS: 36.42523, -107.21638 BGT GPS: 36.42506, -107.21672

Site Rank 20



June 24, 2015

Deborah Watson

Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 860-2712 FAX

RE: Axi Apache N 13A

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1506962

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1506962

Date Reported: 6/24/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC			Client Sampl	e ID: SC	2-1	
Project: Axi Apache N 13A			Collection	Date: 6/8	8/2015 9:50:00 AM	
Lab ID: 1506962-001	Matrix:	SOIL	Received	Date: 6/1	16/2015 7:30:00 AM	
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	том
Petroleum Hydrocarbons, TR	480	20	mg/Kg	1	6/19/2015	19823
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	170	7.5	mg/Kg	5	6/22/2015 11:30:10 AM	19854
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.050	mg/Kg	1	6/22/2015 11:49:21 AM	19822
Toluene	ND	0.050	mg/Kg	1	6/22/2015 11:49:21 AM	19822
Ethylbenzene	ND	0.050	mg/Kg	1	6/22/2015 11:49:21 AM	19822
Xylenes, Total	0.17	0.099	mg/Kg	1	6/22/2015 11:49:21 AM	19822
Surr: 4-Bromofluorobenzene	113	80-120	%REC	1	6/22/2015 11:49:21 AM	19822

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth-	od Blank		
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded		
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 4		
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 1 01 4		
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit			
	S	Spike Recovery outside accepted recovery limits					

QC	SUMMARY	REPORT	

WO#: 1506962

24-Jun-15

Hall Environmenta	l Analysis	Laboratory,	Inc.
-------------------	------------	-------------	------

Client: Rule Engineering LLC

Project:	Axi Apac	he N 13A									
Sample ID	MB-19854	MB-19854 SampType: MBLK				tCode: E	PA Method	300.0: Anior	ıs		
Client ID:	PBS	Batch	h ID: 19	854	F	RunNo: 2	27009				
Prep Date:	6/22/2015	Analysis D	Date: 6	/22/2015	5	SeqNo: 8	806753	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-19854	SampT	ype: LC	S	Tes	tCode: E	PA Method	300.0: Anior	ıs	1.1	1
Client ID:	LCSS	Batch	h ID: 19	854	F	RunNo: 2	27009				
Prep Date:	6/22/2015	Analysis D	Date: 6	/22/2015	5	SeqNo: 8	806754	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.9	90	110			
Sample ID	1506962-001AMS	SampT	ype: M	S	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID:	SC-1	Batch	n ID: 19	854	F	RunNo: 2	7009				
Prep Date:	6/22/2015	Analysis D	Date: 6	/22/2015	5	SeqNo: 8	06756	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		190	7.5	15.00	173.7	99.8	64.2	131		P. M.	
Sample ID	1506962-001AMS	SampT	ype: M	SD	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID:	SC-1	Batch	n ID: 19	854	F	RunNo: 2	7009				
Prep Date:	6/22/2015	Analysis D	ate: 6	/22/2015	S	SeqNo: 8	06757	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
		190	7.5	15.00	173.7	115	64.2	131	1.21	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH Not In Range Р
- Reporting Detection Limit RL

Page 2 of 4

QC SUMMARY REPORT

WO#: 1506962

24-Jun-15

Hall Environmenta	l Analysis	Laboratory,	Inc.
-------------------	------------	-------------	------

Client:Rule Engineering LLCProject:Axi Apache N 13A

Sample ID MB-19823	SampType: MBLK	TestCode: EPA Method	418.1: TPH	
Client ID: PBS	Batch ID: 19823	RunNo: 26959		
Prep Date: 6/19/2015	Analysis Date: 6/19/2015	SeqNo: 805089	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLin	nit Qual
Petroleum Hydrocarbons, TR	ND 20			4.71L
Sample ID LCS-19823	SampType: LCS	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS	Batch ID: 19823	RunNo: 26959		
Prep Date: 6/19/2015	Analysis Date: 6/19/2015	SeqNo: 805090	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLin	nit Qual
Petroleum Hydrocarbons, TR	100 20 100.0	0 99.8 86.7	126	
Sample ID LCSD-19823	SampType: LCSD	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS02	Batch ID: 19823	RunNo: 26959		
Prep Date: 6/19/2015	Analysis Date: 6/19/2015	SeqNo: 805091	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLin	nit Qual
Petroleum Hydrocarbons, TR	100 20 100.0	0 99.8 86.7	126 0 2	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 Not In Range
- RL Reporting Detection Limit

Page 3 of 4

Detection Limit

-		Y REPOR		y, Inc.			
Client: Project:		Engineering LLC pache N 13A					
Sample ID	MB-19822	SampType:	MBLK	TestCode:	EPA Metho	od 8021B: Volatiles	
Client ID:	PBS	Batch ID:	19822	RunNo:	27003		
Prep Date:	6/19/2015	Analysis Date:	6/22/2015	SeqNo:	806550	Units: mg/Kg	

Prep Date: 6/19/2015	Analysis L	Date: 6	22/2015	2	SeqNo: 806550			٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								C
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000	- 1 C	90.7	80	120			
Sample ID LCS-19822	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	6	
Client ID: LCSS	Batc	h ID: 19	822	F	RunNo: 2	7003				
Prep Date: 6/19/2015	Analysis [Date: 6/	22/2015	S	SeqNo: 8	06551	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	76.6	128			
Toluene	0.99	0.050	1.000	0	99.0	75	124			
Ethylbenzene	1.0	0.050	1.000	0	103	79.5	126			
Xylenes, Total	3.1	0.10	3.000	0	102	78.8	124			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	80	120		353 Sam	25
Sample ID 1506962-001AMS	SampT	Гуре: М	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: SC-1	Batcl	h ID: 19	822	F	RunNo: 2	7003				
Prep Date: 6/19/2015	Analysis D	Date: 6/	22/2015	5	SeqNo: 8	06553	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	0.9901	0	96.0	69.2	126			
Toluene	0.94	0.050	0.9901	0.04471	90.5	65.6	128			
Ethylbenzene	<mark>1.1</mark>	0.050	0.9901	0.1842	89.8	65.5	138			
Xylenes, Total	3.1	0.099	2.970	0.2219	98.4	63	139			
Surr: 4-Bromofluorobenzene	1.2		0.9901		117	80	120			

Sample ID 1506962-001AMS	D SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: SC-1	Batch	ID: 19	822	F	RunNo: 2	7003				
Prep Date: 6/19/2015	Analysis D	ate: 6/	22/2015	5	SeqNo: 8	06554	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.049	0.9891	0	96.3	69.2	126	0.248	18.5	1.11
Toluene	0.94	0.049	0.9891	0.04471	90.5	65.6	128	0.0548	20.6	
Ethylbenzene	1.1	0.049	0.9891	0.1842	91.6	65.5	138	1.50	20.1	
Xylenes, Total	3.2	0.099	2.967	0.2219	99.6	63	139	1.02	21.1	
Surr: 4-Bromofluorobenzene	1.2		0.9891		118	80	120	0	0	

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 Not In Range
- RL Reporting Detection Limit

WO#: 1506962

Page 4 of 4

24-Jun-15

Client Name: RULE ENGINEERING LL Work Order Num Received by/date: <u>Art / L.M. Db/1665</u> Logged By: Anne Thorne 6/16/2015 7:30:00 Completed By: Anne Thorne 6/19/2015			RcptNo: 1	
Logged By: Anne Thorne 6/16/2015 7:30:00	AM			
	AM			
completed By: Anne thome 6/19/2015		anne Am	-	
		anne Am	-	
Reviewed By: Dulialis	, ,			
hain of Custody				12
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?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆		
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 🗌	
0.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials	
1. Were any sample containers received broken?	Yes	No 🗹		
			# of preserved bottles checked	
2. Does paperwork match bottle labels?	Yes 🗹	No 🗌	for pH: (<2 or >12 ur	
(Note discrepancies on chain of custody) 3. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	1000
4. Is it clear what analyses were requested?	Yes 🗹	No 🗌	- 51	
5. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	
pecial Handling (if applicable)				
6. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified: Dat By Whom: Via Regarding:		Phone 🗌 Fax	In Person	
Client Instructions:		· · · ·		

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

Page 1 of 1

Client:	Rule Er Address:	501 Airp	ort Drive, Suite 205	Turn-Around Standard Project Name Axi Apple Project #:	Rust					A awki	www	AL v.hal	YS lenvi Alb	ironr uque	b L ment	AE al.co	30	RA	NT		
Phone #		gton, NM 505-860						16	a. ou)5-34	10-31			-	Req		-	(
email or QA/QC P	Fax#: ackage:	and the second division of the second divisio	@ruleengineering.com	Project Mana	ger: D. Watson		\$ (8021)	TPH (Gas only)	(Gas/Diesel)			-0-		PO4, SO4)	PCB's						
Accredit	ation:	- 01) Watom			HdT	5B (G	3.1)	4.1)	Ĥ		1, NO2,	8082			de			î
				On Ice Sample Tem			海外	+	801	d 41	d 50	or PA	als	NO3	des /	0	VOA	chende			Nor
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + WHEE	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	200.0 Ch			Air Bubbles (Y or N)
2-8-15	950	Soul	56-1	1-402	Cold	105	X			X								X			
2											-	-	-			-	-	-	+	+	+
Date: UIS/15 Date: U/15/15	Time: 1659 Time: 1814	Relinquish Relinquish Relinquish	h Watem	Received by: Mis the Received by	Walte	Date Time	R	mark H	s: o C O u	Ja	col	and lyze	2 4	in in	A iora	Le	Le/A	TOP	5/19/03	2	

If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 23, 2015

Deborah Watson

Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 860-2712 FAX

RE: Axi Apache N 13A

OrderNo.: 1506818

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1506818

Date Reported: 6/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Project: Axi Apache N 13A

1506818-001

Lab ID:

Client Sample ID: Excavation Comp Collection Date: 6/12/2015 11:15:00 AM Received Date: 6/16/2015 7:20:00 AM

Result	RL Q	ual Units	DF	Date Analyzed	Batch
ORGANICS				Analyst	JME
50	9.8	mg/Kg	1	6/19/2015 2:28:11 PM	19771
103	57.9-140	%REC	1	6/19/2015 2:28:11 PM	19771
NGE				Analyst	RAA
ND	4.9	mg/Kg	1	6/19/2015 5:32:28 PM	19798
85.5	75.4-113	%REC	1	6/19/2015 5:32:28 PM	19798
				Analyst	RAA
ND	0.049	mg/Kg	1	6/19/2015 5:32:28 PM	19798
ND	0.049	mg/Kg	1	6/19/2015 5:32:28 PM	19798
ND	0.049	mg/Kg	1	6/19/2015 5:32:28 PM	19798
ND	0.098	mg/Kg	1	6/19/2015 5:32:28 PM	19798
87.2	80-120	%REC	1	6/19/2015 5:32:28 PM	19798
	E ORGANICS 50 103 NGE ND 85.5 ND ND ND ND ND ND	E ORGANICS 50 9.8 103 57.9-140 NGE ND 4.9 85.5 75.4-113 ND 0.049 ND 0.049 ND 0.049 ND 0.049 ND 0.049 ND 0.049 ND 0.049 ND 0.049	E ORGANICS 50 9.8 mg/Kg 103 57.9-140 %REC NGE ND 4.9 mg/Kg 85.5 75.4-113 %REC ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg	E ORGANICS 50 9.8 mg/Kg 1 103 57.9-140 %REC 1 NGE ND 4.9 mg/Kg 1 85.5 75.4-113 %REC 1 ND 0.049 mg/Kg 1	E ORGANICS Analyst 50 9.8 mg/Kg 1 6/19/2015 2:28:11 PM 103 57.9-140 %REC 1 6/19/2015 2:28:11 PM 103 57.9-140 %REC 1 6/19/2015 2:28:11 PM NGE Analyst ND 4.9 mg/Kg 1 6/19/2015 5:32:28 PM 85.5 75.4-113 %REC 1 6/19/2015 5:32:28 PM Analyst ND 0.049 mg/Kg 1 6/19/2015 5:32:28 PM ND 0.098 mg/Kg 1 6/19/2015 5:32:28 PM

Matrix: SOIL

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysi	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 4
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 1 01 4
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT Hall Environmental Analysis Laboratory

WO#: 1506818

23-Jun-15

Hall Environmenta	l Analysis	Laboratory,	Inc.
-------------------	------------	-------------	------

Client:Rule Engineering LLCProject:Axi Apache N 13A

Sample ID MB-19771	SampTy	pe: ME	BLK	Tes	TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batch I	ID: 19	771	F	RunNo: 2	6936					
Prep Date: 6/17/2015	Analysis Da	te: 6/	19/2015	5	SeqNo: 8	04485	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	9.1		10.00		90.8	57.9	140		Sec. 1	1.11	
Sample ID LCS-19771	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics		
Client ID: LCSS	Batch I	ID: 19	771	F	RunNo: 2	6936					
Prep Date: 6/17/2015	Analysis Da	te: 6/	19/2015	S	SeqNo: 8	04486	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Discol Dense Organico (DDO)	51	10	50.00	0	102	67.8	130		Teres of		
Diesel Range Organics (DRO)											

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 Not In Range
- RL Reporting Detection Limit

Page 2 of 4

Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Rule Engineering LLC

Project: Axi Apache N 13A

Sample ID	1506818-001AMS	SampT	ype: MS	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	le	
Client ID:	Excavation Comp	Batch	h ID: 19	798	F	RunNo: 2	6956				
Prep Date:	6/18/2015	Analysis D	Date: 6/	19/2015	5	SeqNo: 8	05452	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	29 930	4.9	24.51 980.4	0	119 95.2	47.9 75.4	144 113			
Sample ID	1506818-001AMSD) SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	Excavation Comp	Batch	h ID: 19	798	F	RunNo: 2	6956				
Prep Date:	6/18/2015	Analysis D	Date: 6/	19/2015	5	SeqNo: 8	05453	Units: mg/H	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	30 950	4.9	24.56 982.3	0	123 96.6	47.9 75.4	144 113	4.13 0	29.9 0	
Sample ID	LCS-19798	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	h ID: 19	798	F	RunNo: 2	6956				
Prep Date:	6/18/2015	Analysis D	ate: 6/	19/2015	S	SeqNo: 8	05455	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	26	5.0	25.00	0	105	64	130			
Surr: BFB		940		1000		94.4	75.4	113		Server.	114
Sample ID	MB-19798	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	n ID: 19	798	F	RunNo: 2	6956				
Prep Date:	6/18/2015	Analysis D	ate: 6/	19/2015	5	SeqNo: 8	05456	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0								
Surr: BFB		890		1000		88.8	75.4	113			

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 Not In Range
- RL Reporting Detection Limit

WO#: 1506818

23-Jun-15

Page 3 of 4

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Rule Engineering LLC

Project: Axi Apache N 13A

Sample ID LCS-19798	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	F										
Prep Date: 6/18/2015	Analysis [Date: 6/	19/2015	S	SeqNo: 8	05465	Units: mg/M	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.050	1.000	0	102	76.6	128				
Toluene	0.99	0.050	1.000	0	99.0	75	124				
Ethylbenzene	1.0	0.050	1.000	0	102	79.5	126				
Xylenes, Total	3.0	0.10	3.000	0	100	78.8	124				
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	80	120				
Sample ID MB-19798	Samp	Гуре: МЕ	BLK	Tes	1.14						
Client ID: PBS	Batc	798	F	RunNo: 2	6956						
Prep Date: 6/18/2015	Analysis D	Date: 6/	19/2015	S	SeqNo: 8	05466	Units: mg/K	g			
161											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Analyte Benzene	Result ND	PQL 0.050	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
			SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene Toluene	ND ND	0.050 0.050	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

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 Not In Range
- RL Reporting Detection Limit

Page 4 of 4

1506818 23-Jun-15

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Nu	mber: 1506818		RcptNo: 1	
skin nuluu	15			
Received by/date: A PT DU//U/				
Logged By: Ashley Gallegos 6/16/2015 7:20:0	MA 00	AJ		
Completed By: Ashley Gallegos 8/17/2015 12:48:	49 PM	SAZ		
Reviewed By: Dr 06/18/15		U.		
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?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🛃	No []]	NA	
5. Were all samples received at a temperature of >0° 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 🛃	# of preserved	
12 Dece papaguate match hottle labels?	Yes 🛃	No 📋	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)			(<2 or >1)	2 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes 🛃	No []	Adjusted?	
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 🗌	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🛃	
Person Notified:	Date	adı atırtığı məsiləfi Muða etərəri		
By Whom:	/ia: [eMail []	Phone [] Fax	[] In Person	
Regarding:		- CAN IN ALCOLOGICULOU COMMAN	B ((101010), 110, 100, 000, 000, 000) 4/03	
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal I	No Seal Date	Signed By		
1 1.8 Good Yes		0.9.104 07		
		** * * * *		
Page 1 of 1				

Chain-of-Custody Record Client: Rule Engineering LLC Mailing Address: 501 Airport Drive, Suite 205 Farmington, NM 87401 Phone #: 505-860-2712			Turn-Around Time: X Standard □ Rush Project Name: Axi Apache N 13A Project #:				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
email or Fax#: dwatson@ruleengineering.com QA/QC Package:			Project Manager: D. Watson			4 1448's (8021)	+ TPH (Gas only)	15B(Gast					Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	PCB's						
Accreditation:			Sampler: D WASAN On Ice: D Yes D No						18.1)	504.1)						(A)			or N)	
Date	(Type) _ Time	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type	2月1日日 1月1日	BTEX + WHEE	+ MTBE	TPH Method 8(TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,N	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
6-12-15	1115	Srl	ExcavationComp	1-402-	aret	-001	X													
Date:	Time: (US9 Time: 1804	Relinquist	rah Watn	Received by:	Waster	Date Time 4/15/15 /1659 Date Time X6/16/15 2720	1	nark	s: b	Con	170	Phu	Olig	25						

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



