

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

APR 15 2009

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

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

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

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

1.
Operator: Topat Oil Corporation OGRID #: _____
Address: 505 N Big Spring St, ste 405 Midland, TX 79701
Facility or well name: Patricia Federal #3
API Number: 30-005-62948 63041 OCD Permit Number: _____
U/L or Qtr/Qtr 16 N Section 26.20 Township 11S Range 27E County: Chaves
Center of Proposed Design: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other _____
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____

4.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: _____ bbl Type of fluid: _____
Tank Construction material: _____
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

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

6.

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 _____

7.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☐ Netting ☐ Other _____
- ☐ Monthly inspections (If netting or screening is not physically feasible)

8.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

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

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

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (*Applies to temporary, emergency, or cavitation pits and below-grade tanks*)

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No
☐ NA

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (*Applies to permanent pits*)

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No
☐ NA

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (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
☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
☐ Emergency Response Plan
☐ Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan
☐ Erosion Control Plan
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System
☐ Alternative
 Proposed Closure Method: ☐ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

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

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

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

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☐ 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 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

Operator Application Certification:

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

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

20.

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

OCD Representative Signature: _____ Approval Date: _____

Title: _____ OCD Permit Number: _____

21.

Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

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

☐ Closure Completion Date: _____

22.

Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

23.

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

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

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

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

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

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

- ☐ Site Reclamation (Photo Documentation)
☒ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.

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

- ☐ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☒ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
☒ Soil Backfilling and Cover Installation
☒ Re-vegetation Application Rates and Seeding Technique
☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

25.

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): THOMAS E. SCHNEIDER Title: VICE President, Topat Oil Corporation

Signature: *Thomas E. Schneider* Date: 4-13-09

e-mail address: Topat 5 @ aol.com Telephone: (432) 682 6340

Accepted for record
NMOCD

APR 17 2009

Analytical Report 325787

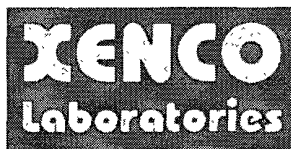
for

Topat Oil Co.

Project Manager: Tomas Schineder

Patrica # 3

27-FEB-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

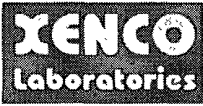
North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta

mike.bratchev@state.nm.us



27-FEB-09

Project Manager: **Tomas Schineder**
Topat Oil Co.

505 N. Big Spring Suite 405
Midland, TX 79701

Reference: XENCO Report No: **325787**
Patrica # 3
Project Address: Chaves Co., NM

Tomas Schineder:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 325787. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 325787 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 325787



Topat Oil Co., Midland, TX

Patrica # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Middle	S	Feb-23-09 08:15		325787-001
NE	S	Feb-23-09 08:18		325787-002
SE	S	Feb-23-09 08:21		325787-003
SW	S	Feb-23-09 08:23		325787-004
NW	S	Feb-23-09 08:25		325787-005



Certificate of Analysis Summary 325787

Topat Oil Co., Midland, TX

Project Name: Patrica # 3



Project Id:

Contact: Tomas Schineder

Project Location: Chaves Co, NM

Date Received in Lab: Tue Feb-24-09 03:20 pm


Report Date: 27-FEB-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	325787-001	325787-002	325787-003	325787-004	325787-005	
	Field Id:	Middle	NE	SE	SW	NW	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Feb-23-09 08:15	Feb-23-09 08:18	Feb-23-09 08:21	Feb-23-09 08:23	Feb-23-09 08:25	
Percent Moisture	Extracted:						
	Analyzed:	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		2.62 1.00	2.34 1.00	1.26 1.00	2.27 1.00	2.59 1.00	
TPH By SW8015 Mod	Extracted:	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	
	Analyzed:	Feb-26-09 18:10	Feb-26-09 18:33	Feb-26-09 18:56	Feb-26-09 19:19	Feb-26-09 19:41	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.4	ND 15.4	ND 15.2	ND 15.3	ND 15.4	
C12-C28 Diesel Range Hydrocarbons		137 15.4	ND 15.4	ND 15.2	ND 15.3	15.4 15.4	
C28-C35 Oil Range Hydrocarbons		48.1 15.4	ND 15.4	ND 15.2	ND 15.3	ND 15.4	
Total TPH		185.1 15.4	ND 15.4	ND 15.2	ND 15.3	15.4 15.4	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


Brent Barron
Odessa Laboratory Director



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Outside XENCO's scope of NELAC Accreditation.

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5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Patrica # 3

Work Orders : 325787,

Project ID:

Lab Batch #: 751048

Sample: 525541-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 11:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

Lab Batch #: 751048

Sample: 525541-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 11:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

Lab Batch #: 751048

Sample: 525541-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 12:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.7	100	97	70-135	
o-Terphenyl	45.5	50.0	91	70-135	

Lab Batch #: 751048

Sample: 325787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

Lab Batch #: 751048

Sample: 325787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	94.2	100	94	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Patrica # 3

Work Orders : 325787,

Project ID:

Lab Batch #: 751048

Sample: 325787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.0	100	93	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 751048

Sample: 325787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 19:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	100	92	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 751048

Sample: 325787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 19:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	100	98	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 751048

Sample: 325777-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 20:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	57.2	50.0	114	70-135	

Lab Batch #: 751048

Sample: 325777-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 20:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Patrica # 3

Work Order #: 325787

Analyst: BHW

Date Prepared: 02/25/2009

Project ID:

Date Analyzed: 02/26/2009

Lab Batch ID: 751048

Sample: 525541-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1050	105	1000	1040	104	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1090	109	1000	1080	108	1	70-135	35	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Patrica # 3

Work Order #: 325787

Project ID:

Lab Batch ID: 751048

QC- Sample ID: 325777-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/26/2009

Date Prepared: 02/25/2009

Analyst: BHW

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1110	103	1080	1110	103	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	1190	110	1080	1210	112	2	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Patrica # 3

Work Order #: 325787

Lab Batch #: 750769

Date Analyzed: 02/24/2009

QC- Sample ID: 325777-001 D

Reporting Units: %

Project ID:

Analyst: BEV

Date Prepared: 02/24/2009

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	27.8	10.9	87	20	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Topat Oil Co.
Date/ Time: 2-24-09 15:20
Lab ID #: 325787
Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10:00 °C	
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply: ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☒ Cooling process had begun shortly after sampling event

Analytical Report 327990

for

Topat Oil Co.

Project Manager: Tomas Schineder

Pat Fed #3

23-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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23-MAR-09

Project Manager: **Tomas Schineder**

Topat Oil Co.

505 N. Big Spring Suite 405

Midland, TX 79701

Reference: XENCO Report No: **327990**

Pat Fed #3

Project Address: Chavez County, NM

Tomas Schineder:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 327990. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 327990 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 327990



Topat Oil Co., Midland, TX

Pat Fed #3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pasture, Pat Fed Loc	S	Mar-19-09 13:00		327990-001
Pit 2' depth	S	Mar-19-09 13:00		327990-002
Pit 4' depth	S	Mar-19-09 13:00		327990-003
Pit 6' depth	S	Mar-19-09 13:00		327990-004



Certificate of Analysis Summary 327990

Topat Oil Co., Midland, TX

Project Name: Pat Fed #3



Project Id:

Contact: Tomas Schineder

Project Location: Chavez County, NM

Date Received in Lab: Fri Mar-20-09 08:07 am


Report Date: 23-MAR-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	327990-001	327990-002	327990-003	327990-004		
	<i>Field Id:</i>	Pasture, Pat Fed Loc	Pit 2' depth	Pit 4' depth	Pit 6' depth		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Mar-19-09 13 00	Mar-19-09 13 00	Mar-19-09 13 00	Mar-19-09 13 00		
Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Mar-20-09 09 56	Mar-20-09 09 56	Mar-20-09 09 56	Mar-20-09 09 56		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		8 03 5 09	590 55 6	567 61 1	1860 32 1		
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Mar-20-09 15 20	Mar-20-09 17:00	Mar-20-09 17 00	Mar-20-09 17 00		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		1 74 1 00	10.01 1 00	18.13 1.00	22 03 1 00		

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Outside XENCO's scope of NELAC Accreditation.

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Blank Spike Recovery



Project Name: Pat Fed #3

Work Order #: 327990

Project ID:

Lab Batch #: 753228

Sample: 753228-1-BKS

Matrix: Solid

Date Analyzed: 03/20/2009

Date Prepared: 03/20/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.74	97	90-110	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries

Project Name: Pat Fed #3



Work Order #: 327990

Lab Batch #: 753228

Date Analyzed: 03/20/2009

QC- Sample ID: 327940-001 S

Reporting Units: mg/kg

Date Prepared: 03/20/2009

Batch #: 1

Project ID:

Analyst: LATCOR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes							
Chloride		1200	508	1780	114	80-120	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Sample Duplicate Recovery



Project Name: Pat Fed #3

Work Order #: 327990

Lab Batch #: 753228

Date Analyzed: 03/20/2009

QC- Sample ID: 327940-001 D

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Date Prepared: 03/20/2009

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	1200	1220	2	20	

Lab Batch #: 753256

Date Analyzed: 03/20/2009

QC- Sample ID: 327939-001 D

Reporting Units: %

Date Prepared: 03/20/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.86	1.74	7	20	

Lab Batch #: 753313

Date Analyzed: 03/20/2009

QC- Sample ID: 327990-002 D

Reporting Units: %

Date Prepared: 03/20/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	10.0	9.59	4	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes

Analytical Report 328335

for

Topat Oil Co.

Project Manager: Tomas Schneider

Pat Fed # 3

26-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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26-MAR-09

Project Manager: **Tomas Schneider**
Topat Oil Co.
505 N. Big Spring Suite 405
Midland, TX 79701

Reference: XENCO Report No: **328335**
Pat Fed # 3
Project Address: Chaves County, NM

Tomas Schneider:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 328335. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 328335 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 328335



Topat Oil Co., Midland, TX

Pat Fed # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pit, 8' Depth	S	Mar-24-09 12:00		328335-001
Pit, 10' Depth	S	Mar-24-09 12:00		328335-002



Certificate of Analysis Summary 328335

Topat Oil Co., Midland, TX

Project Name: Pat Fed # 3



Project Id:

Contact: Tomas Schneider

Project Location: Chaves County, NM

Date Received in Lab: Wed Mar-25-09 09:55 am

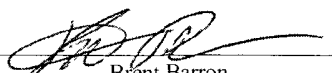
Report Date: 26-MAR-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	328335-001	328335-002				
	Field Id:	Pit, 8' Depth	Pit, 10' Depth				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Mar-24-09 12 00	Mar-24-09 12 00				
Anions by EPA 300	Extracted:						
	Analyzed:	Mar-25-09 14 00	Mar-25-09 14 00				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		905 61.6	471 62.7				
Percent Moisture	Extracted:						
	Analyzed:	Mar-25-09 13 30	Mar-25-09 13 30				
	Units/RL:	% RL	% RL				
Percent Moisture		18.77 1.00	20.22 1.00				

This analytical report and the entire data package it represents has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Outside XENCO's scope of NELAC Accreditation.

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2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Blank Spike Recovery



Project Name: Pat Fed # 3

Work Order #: 328335

Project ID:

Lab Batch #: 753843

Sample: 753843-1-BKS

Matrix: Solid

Date Analyzed: 03/25/2009

Date Prepared: 03/25/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.3	103	90-110	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries

Project Name: Pat Fed # 3



Work Order #: 328335

Lab Batch #: 753843

Project ID:

Date Analyzed: 03/25/2009

Date Prepared: 03/25/2009

Analyst: LATCOR

QC- Sample ID: 328335-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	905	1230	2340	117	80-120	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Sample Duplicate Recovery



Project Name: Pat Fed # 3

Work Order #: 328335

Lab Batch #: 753843

Date Analyzed: 03/25/2009

QC- Sample ID: 328335-001 D

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	905	907	0	20	

Lab Batch #: 753842

Date Analyzed: 03/25/2009

QC- Sample ID: 328331-001 D

Reporting Units: %

Date Prepared: 03/25/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.21	1.24	2	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Bratcher, Mike, EMNRD

From: TOPAT5@aol.com
Sent: Tuesday, March 24, 2009 5:01 AM
To: Bratcher, Mike, EMNRD
Subject: Fwd: WO#327990 Pat Fed #3
Attachments: Re: WO#327990 Pat Fed #3

Mike, here is analysis on latest samples, we have contacted a contractor whom is moving in an excavator as we have reached our depth limit with backhoe. will advise when get 8' & 10' samples, should be in next several days. tom schneider, midland, tx

A Good Credit Score is 700 or Above. See yours in just 2 easy steps!

This inbound email has been scanned by the MessageLabs Email Security System.


Bratcher, Mike, EMNRD

From: Jeanne Fitch [jeanne.fitch@xenco.com]
Sent: Monday, March 23, 2009 8:11 AM
To: topat5@aol.com
Subject: Re: WO#327990 Pat Fed #3
Attachments: 2009_327990_.pdf

Thank You,

Jeanne Fitch

*Environmental Lab of Texas
a Xenco Company
12600 West I-20 East
Odessa, TX 79765
(432) 563-1800*

 Please consider the environment before printing this email.

Analytical Report 327990

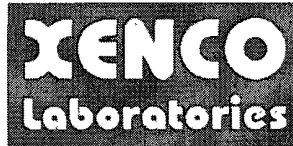
for

Topat Oil Co.

Project Manager: Tomas Schineder

Pat Fed #3

23-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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23-MAR-09

Project Manager: **Tomas Schineder**

Topat Oil Co.

505 N. Big Spring Suite 405

Midland, TX 79701

Reference: XENCO Report No: **327990**

Pat Fed #3

Project Address: Chavez County, NM

Tomas Schineder:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 327990. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 327990 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 327990



Topat Oil Co., Midland, TX

Pat Fed #3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pasture, Pat Fed Loc	S	Mar-19-09 13:00		327990-001
Pit 2' depth	S	Mar-19-09 13:00		327990-002
Pit 4' depth	S	Mar-19-09 13:00		327990-003
Pit 6' depth	S	Mar-19-09 13:00		327990-004



Certificate of Analysis Summary 327990

Topat Oil Co., Midland, TX

Project Name: Pat Fed #3



Project Id:

Contact: Tomas Schineder

Project Location: Chavez County, NM

Date Received in Lab: Fri Mar-20-09 08:07 am


Report Date: 23-MAR-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	327990-001	327990-002	327990-003	327990-004		
	Field Id:	Pasture, Pat Fed Loc	Pit 2' depth	Pit 4' depth	Pit 6' depth		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Mar-19-09 13:00	Mar-19-09 13:00	Mar-19-09 13:00	Mar-19-09 13:00		
Anions by EPA 300	Extracted:						
	Analyzed:	Mar-20-09 09:56	Mar-20-09 09:56	Mar-20-09 09:56	Mar-20-09 09:56		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		8.03 5.09	590 55.6	567 61.1	1860 32.1		
Percent Moisture	Extracted:						
	Analyzed:	Mar-20-09 15:20	Mar-20-09 17:00	Mar-20-09 17:00	Mar-20-09 17:00		
	Units/RL:	% RL	% RL	% RL	% RL		
Percent Moisture		1.74 1.00	10.01 1.00	18.13 1.00	22.03 1.00		

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Brent Barron
Odessa Laboratory Director



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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Blank Spike Recovery



Project Name: Pat Fed #3

Work Order #: 327990

Project ID:

Lab Batch #: 753228

Sample: 753228-1-BKS

Matrix: Solid

Date Analyzed: 03/20/2009

Date Prepared: 03/20/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.74	97	90-110	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries

Project Name: Pat Fed #3



Work Order #: 327990

Lab Batch #: 753228

Date Analyzed: 03/20/2009

QC- Sample ID: 327940-001 S

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Date Prepared: 03/20/2009

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1200	508	1780	114	80-120	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Sample Duplicate Recovery



Project Name: Pat Fed #3

Work Order #: 327990

Lab Batch #: 753228

Date Analyzed: 03/20/2009

QC- Sample ID: 327940-001 D

Reporting Units: mg/kg

Project ID:

Date Prepared: 03/20/2009

Analyst: LATCOR

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	1200	1220	2	20	

Lab Batch #: 753256

Date Analyzed: 03/20/2009

QC- Sample ID: 327939-001 D

Reporting Units: %

Date Prepared: 03/20/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1 86	1 74	7	20	

Lab Batch #: 753313

Date Analyzed: 03/20/2009

QC- Sample ID: 327990-002 D

Reporting Units: %

Date Prepared: 03/20/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	10 0	9.59	4	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79785

Phone: 432-583-1800
Fax: 432-583-1713

Project Manager: Tom Schneider

Company Name: Topcat Oil Corp

Company Address: 505 N Big Spring St, Box 405

City/State/Zip: Midland TX 79701

Telephone No: 432 664 5200

Sampler Signature: John E. White

Fax No: 632 3936

e-mail: topcat5@aol.com

Project Name: Pat Feed #3

Project #:

Project Loc: Chavis County, NM

PO #:

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only):

ORDER #: 327990

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	TPH	FRD	HC	1,1-D2	HeX	NaP	None	Other (Specify)	SW-846 (Ch. 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)	TPH	TX 1005	TX 1006	TX 1007	TX 1008	TX 1009	TX 1010	TX 1011	TX 1012	TX 1013	TX 1014	TX 1015	TX 1016	TX 1017	TX 1018	TX 1019	TX 1020	TX 1021	TX 1022	TX 1023	TX 1024	TX 1025	TX 1026	TX 1027	TX 1028	TX 1029	TX 1030	TX 1031	TX 1032	TX 1033	TX 1034	TX 1035	TX 1036	TX 1037	TX 1038	TX 1039	TX 1040	TX 1041	TX 1042	TX 1043	TX 1044	TX 1045	TX 1046	TX 1047	TX 1048	TX 1049	TX 1050	TX 1051	TX 1052	TX 1053	TX 1054	TX 1055	TX 1056	TX 1057	TX 1058	TX 1059	TX 1060	TX 1061	TX 1062	TX 1063	TX 1064	TX 1065	TX 1066	TX 1067	TX 1068	TX 1069	TX 1070	TX 1071	TX 1072	TX 1073	TX 1074	TX 1075	TX 1076	TX 1077	TX 1078	TX 1079	TX 1080	TX 1081	TX 1082	TX 1083	TX 1084	TX 1085	TX 1086	TX 1087	TX 1088	TX 1089	TX 1090	TX 1091	TX 1092	TX 1093	TX 1094	TX 1095	TX 1096	TX 1097	TX 1098	TX 1099	TX 1100	TX 1101	TX 1102	TX 1103	TX 1104	TX 1105	TX 1106	TX 1107	TX 1108	TX 1109	TX 1110	TX 1111	TX 1112	TX 1113	TX 1114	TX 1115	TX 1116	TX 1117	TX 1118	TX 1119	TX 1120	TX 1121	TX 1122	TX 1123	TX 1124	TX 1125	TX 1126	TX 1127	TX 1128	TX 1129	TX 1130	TX 1131	TX 1132	TX 1133	TX 1134	TX 1135	TX 1136	TX 1137	TX 1138	TX 1139	TX 1140	TX 1141	TX 1142	TX 1143	TX 1144	TX 1145	TX 1146	TX 1147	TX 1148	TX 1149	TX 1150	TX 1151	TX 1152	TX 1153	TX 1154	TX 1155	TX 1156	TX 1157	TX 1158	TX 1159	TX 1160	TX 1161	TX 1162	TX 1163	TX 1164	TX 1165	TX 1166	TX 1167	TX 1168	TX 1169	TX 1170	TX 1171	TX 1172	TX 1173	TX 1174	TX 1175	TX 1176	TX 1177	TX 1178	TX 1179	TX 1180	TX 1181	TX 1182	TX 1183	TX 1184	TX 1185	TX 1186	TX 1187	TX 1188	TX 1189	TX 1190	TX 1191	TX 1192	TX 1193	TX 1194	TX 1195	TX 1196	TX 1197	TX 1198	TX 1199	TX 1200	TX 1201	TX 1202	TX 1203	TX 1204	TX 1205	TX 1206	TX 1207	TX 1208	TX 1209	TX 1210	TX 1211	TX 1212	TX 1213	TX 1214	TX 1215	TX 1216	TX 1217	TX 1218	TX 1219	TX 1220	TX 1221	TX 1222	TX 1223	TX 1224	TX 1225	TX 1226	TX 1227	TX 1228	TX 1229	TX 1230	TX 1231	TX 1232	TX 1233	TX 1234	TX 1235	TX 1236	TX 1237	TX 1238	TX 1239	TX 1240	TX 1241	TX 1242	TX 1243	TX 1244	TX 1245	TX 1246	TX 1247	TX 1248	TX 1249	TX 1250	TX 1251	TX 1252	TX 1253	TX 1254	TX 1255	TX 1256	TX 1257	TX 1258	TX 1259	TX 1260	TX 1261	TX 1262	TX 1263	TX 1264	TX 1265	TX 1266	TX 1267	TX 1268	TX 1269	TX 1270	TX 1271	TX 1272	TX 1273	TX 1274	TX 1275	TX 1276	TX 1277	TX 1278	TX 1279	TX 1280	TX 1281	TX 1282	TX 1283	TX 1284	TX 1285	TX 1286	TX 1287	TX 1288	TX 1289	TX 1290	TX 1291	TX 1292	TX 1293	TX 1294	TX 1295	TX 1296	TX 1297	TX 1298	TX 1299	TX 1300	TX 1301	TX 1302	TX 1303	TX 1304	TX 1305	TX 1306	TX 1307	TX 1308	TX 1309	TX 1310	TX 1311	TX 1312	TX 1313	TX 1314	TX 1315	TX 1316	TX 1317	TX 1318	TX 1319	TX 1320	TX 1321	TX 1322	TX 1323	TX 1324	TX 1325	TX 1326	TX 1327	TX 1328	TX 1329	TX 1330	TX 1331	TX 1332	TX 1333	TX 1334	TX 1335	TX 1336	TX 1337	TX 1338	TX 1339	TX 1340	TX 1341	TX 1342	TX 1343	TX 1344	TX 1345	TX 1346	TX 1347	TX 1348	TX 1349	TX 1350	TX 1351	TX 1352	TX 1353	TX 1354	TX 1355	TX 1356	TX 1357	TX 1358	TX 1359	TX 1360	TX 1361	TX 1362	TX 1363	TX 1364	TX 1365	TX 1366	TX 1367	TX 1368	TX 1369	TX 1370	TX 1371	TX 1372	TX 1373	TX 1374	TX 1375	TX 1376	TX 1377	TX 1378	TX 1379	TX 1380	TX 1381	TX 1382	TX 1383	TX 1384	TX 1385	TX 1386	TX 1387	TX 1388	TX 1389	TX 1390	TX 1391	TX 1392	TX 1393	TX 1394	TX 1395	TX 1396	TX 1397	TX 1398	TX 1399	TX 1400	TX 1401	TX 1402	TX 1403	TX 1404	TX 1405	TX 1406	TX 1407	TX 1408	TX 1409	TX 1410	TX 1411	TX 1412	TX 1413	TX 1414	TX 1415	TX 1416	TX 1417	TX 1418	TX 1419	TX 1420	TX 1421	TX 1422	TX 1423	TX 1424	TX 1425	TX 1426	TX 1427	TX 1428	TX 1429	TX 1430	TX 1431	TX 1432	TX 1433	TX 1434	TX 1435	TX 1436	TX 1437	TX 1438	TX 1439	TX 1440	TX 1441	TX 1442	TX 1443	TX 1444	TX 1445	TX 1446	TX 1447	TX 1448	TX 1449	TX 1450	TX 1451	TX 1452	TX 1453	TX 1454	TX 1455	TX 1456	TX 1457	TX 1458	TX 1459	TX 1460	TX 1461	TX 1462	TX 1463	TX 1464	TX 1465	TX 1466	TX 1467	TX 1468	TX 1469	TX 1470	TX 1471	TX 1472	TX 1473	TX 1474	TX 1475	TX 1476	TX 1477	TX 1478	TX 1479	TX 1480	TX 1481	TX 1482	TX 1483	TX 1484	TX 1485	TX 1486	TX 1487	TX 1488	TX 1489	TX 1490	TX 1491	TX 1492	TX 1493	TX 1494	TX 1495	TX 1496	TX 1497	TX 1498	TX 1499	TX 1500	TX 1501	TX 1502	TX 1503	TX 1504	TX 1505	TX 1506	TX 1507	TX 1508	TX 1509	TX 1510	TX 1511	TX 1512	TX 1513	TX 1514	TX 1515	TX 1516	TX 1517	TX 1518	TX 1519	TX 1520	TX 1521	TX 1522	TX 1523	TX 1524	TX 1525	TX 1526	TX 1527	TX 1528	TX 1529	TX 1530	TX 1531	TX 1532	TX 1533	TX 1534	TX 1535	TX 1536	TX 1537	TX 1538	TX 1539	TX 1540	TX 1541	TX 1542	TX 1543	TX 1544	TX 1545	TX 1546	TX 1547	TX 1548	TX 1549	TX 1550	TX 1551	TX 1552	TX 1553	TX 1554	TX 1555	TX 1556	TX 1557	TX 1558	TX 1559	TX 1560	TX 1561	TX 1562	TX 1563	TX 1564	TX 1565	TX 1566	TX 1567	TX 1568	TX 1569	TX 1570	TX 1571	TX 1572	TX 1573	TX 1574	TX 1575	TX 1576	TX 1577	TX 1578	TX 1579	TX 1580	TX 1581	TX 1582	TX 1583	TX 1584	TX 1585	TX 1586	TX 1587	TX 1588	TX 1589	TX 1590	TX 1591	TX 1592	TX 1593	TX 1594	TX 1595	TX 1596	TX 1597	TX 1598	TX 1599	TX 1600	TX 1601	TX 1602	TX 1603	TX 1604	TX 1605	TX 1606	TX 1607	TX 1608	TX 1609	TX 1610	TX 1611	TX 1612	TX 1613	TX 1614	TX 1615	TX 1616	TX 1617	TX 1618	TX 1619	TX 1620	TX 1621	TX 1622	TX 1623	TX 1624	TX 1625	TX 1626	TX 1627	TX 1628	TX 1629	TX 1630	TX 1631	TX 1632	TX 1633	TX 1634	TX 1635	TX 1636	TX 1637	TX 1638	TX 1639	TX 1640	TX 1641	TX 1642	TX 1643	TX 1644	TX 1645	TX 1646	TX 1647	TX 1648	TX 1649	TX 1650	TX 1651	TX 1652	TX 1653	TX 1654	TX 1655	TX 1656	TX 1657	TX 1658	TX 1659	TX 1660	TX 1661	TX 1662	TX 1663	TX 1664	TX 1665	TX 1666	TX 1667	TX 1668	TX 1669	TX 1670	TX 1671	TX 1672	TX 1673	TX 1674	TX 1675	TX 1676	TX 1677	TX 1678	TX 1679	TX 1680	TX 1681	TX 1682	TX 1683	TX 1684	TX 1685	TX 1686	TX 1687	TX 1688	TX 1689	TX 1690	TX 1691	TX 1692	TX 1693	TX 1694	TX 1695	TX 1696	TX 1697	TX 1698	TX 1699	TX 1700	TX 1701	TX 1702	TX 1703	TX 1704	TX 1705	TX 1706	TX 1707	TX 1708	TX 1709	TX 1710	TX 1711	TX 1712	TX 1713	TX 1714	TX 1715	TX 1716	TX 1717	TX 1718	TX 1719	TX 1720	TX 1721	TX 1722	TX 1723	TX 1724	TX 1725	TX 1726	TX 1727	TX 1728	TX 1729	TX 1730	TX 1731	TX 1732	TX 1733	TX 1734	TX 1735	TX 1736	TX 1737	TX 1738	TX 1739	TX 1740	TX 1741	TX 1742	TX 1743	TX 1744	TX 1745	TX 1746	TX 1747	TX 1748	TX 1749	TX 1750	TX 1751	TX 1752	TX 1753	TX 1754	TX 1755	TX 1756	TX 1757	TX 1758	TX 1759	TX 1760	TX 1761	TX 1762	TX 1763	TX 1764	TX 1765	TX 1766	TX 1767	TX 1768	TX 1769	TX 1770	TX 1771	TX 1772	TX 1773	TX 1774	TX 1775	TX 1776	TX 1777	TX 1778	TX 1779	TX 1780	TX 1781	TX 1782	TX 1783	TX 1784	TX 1785	TX 1786	TX 1787	TX 1788	TX 1789	TX 1790	TX 1791	TX 1792	TX 1793	TX 1794	TX 1795	TX 1796	TX 1797	TX 1798	TX 1799	TX 1800	TX 1801	TX 1802	TX 1803	TX 1804	TX 1805	TX 1806	TX 1807	TX 1808	TX 1809	TX 1810	TX 1811	TX 1812	TX 1813	TX 1814	TX 1815	TX 1816	TX 1817	TX 1818	TX 1819	TX 1820	TX 1821	TX 1822	TX 1823	TX 1824	TX 1825	TX 1826	TX 1827	TX 1828	TX 1829	TX 1830	TX 1831	TX 1832	TX 1833	TX 1834	TX 1835	TX 1836	TX 1837	TX 1838	TX 1839	TX 1840	TX 1841	TX 1842	TX 1843	TX 1844	TX 1845	TX 1846	TX 1847	TX 1848	TX 1849	TX 1850	TX 1851	TX 1852	TX 1853	TX 1854	TX 1855	TX 1856	TX 1857	TX 1858	TX 1859	TX 1860	TX 1861	TX 1862	TX 1863	TX 1864	TX 1865	TX 1866	TX 1867	TX 1868	TX 1869	TX 1870	TX 1871	TX 1872	TX 1873	TX 1874	TX 1875	TX 1876	TX 1877	TX 1878	TX 1879	TX 1880	TX 1881	TX 1882	TX 1883	TX 1884	TX 1885	TX 1886	TX 1887	TX 1888	TX 1889	TX 1890	TX 1891	TX 1892	TX 1893	TX 1894	TX 1895	TX 1896	TX 1897	TX 1898	TX 1899	TX 1900	TX 1901	TX 1902	TX 1903	TX 1904	TX 1905	TX 1906	TX 1907	TX 1908	TX 1909	TX 1910	TX 1911	TX 1912	TX 1913	TX 1914	TX 1915	TX 1916	TX 1917	TX 1918	TX 1919	TX 1920	TX 1921	TX 1922	TX 1923	TX 1924	TX 1925	TX 1926	TX 1927	TX 1928	TX 1929	TX 1930	TX 1931	TX 1932	TX 1933	TX 1934	TX 1935	TX 1936	TX 1937	TX 1938	TX 1939	TX 1940	TX 1941	TX 1942	TX 1943	TX 1944	TX 1945	TX 1946	TX 1947	TX 1948	TX 1949	TX 1950	TX 1951	TX 1952
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Vanance/ Corrective Action Report- Sample Log-In

Sample Receipt Checklist

Client Initials

#1: Temperature of container/ cooler?	Yes	No	16.5 °C
#2: Shipping container in good condition?	Yes	No	
#3: Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4: Custody Seal's intact on sample bottles/ container?	Yes	No	Not Present
#5: Chain of Custody present?	Yes	No	
#6: Sample instructions complete of Chain of Custody?	Yes	No	
#7: Chain of Custody signed when relinquished/ received?	Yes	No	
#8: Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid
#9: Container label(s) legible and intact?	Yes	No	Not Applicable
#10: Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11: Containers supplied by ELOT?	Yes	No	
#12: Samples in proper container/ bottle?	Yes	No	See Below
#13: Samples properly preserved?	Yes	No	See Below
#14: Sample bottles intact?	Yes	No	
#15: Preservations documented on Chain of Custody?	Yes	No	
#16: Containers documented on Chain of Custody?	Yes	No	
#17: Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18: All samples received within sufficient hold time?	Yes	No	See Below
#19: Subcontract of sample(s)?	Yes	No	Not Applicable
#20: VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

Contact _____ Contacted by _____ Date/Time _____

Regarding _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Bratcher, Mike, EMNRD

From: TOPAT5@aol.com
Sent: Friday, March 20, 2009 5:46 AM
To: Bratcher, Mike, EMNRD
Subject: Re: WO#325787 Patricia #3

Mike;

took samples yesterday (thursday) from pit on Pat 3, @ 2', 4' & 6' depths, also from pasture as rancher says soil very gypy. will deliver at 8AM this AM to lab and get results, will advise as available. thanks, tom schneider, topat

A Good Credit Score is 700 or Above. See yours in just 2 easy steps!

This inbound email has been scanned by the MessageLabs Email Security System.

REC'D 3/6/09

TOPAT Oil Patricia #3


Bratcher, Mike, EMNRD

From: Gracie Avalos [gracie.avalos@xenco.com]
Sent: Friday, March 06, 2009 11:57 AM
To: topat5@aol.com; Bratcher, Mike, EMNRD
Subject: WO 325787 / Patricia #3
Attachments: 2009_325787_FINAL.pdf

Gracie Avalos
Project Assistant
Xenco Labs - Odessa
432-563-1800 Office
432-4563-1713 Fax
gracie.avalos@xenco.com

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Rec'd 3/6/09

Analytical Report 325787

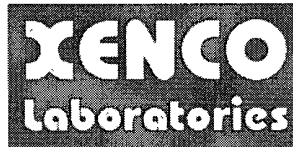
for

Topat Oil Co.

Project Manager: Tomas Schineder

Patrica # 3

06-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



06-MAR-09

Project Manager: **Tomas Schineder**

Topat Oil Co.

505 N. Big Spring Suite 405

Midland, TX 79701

Reference: XENCO Report No: **325787**

Patrica # 3

Project Address: Chaves Co., NM

Tomas Schineder:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 325787. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 325787 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 325787



Topat Oil Co., Midland, TX

Patrica # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Middle	S	Feb-23-09 08:15		325787-001
NE	S	Feb-23-09 08:18		325787-002
SE	S	Feb-23-09 08:21		325787-003
SW	S	Feb-23-09 08:23		325787-004
NW	S	Feb-23-09 08:25		325787-005



Certificate of Analysis Summary 325787

Topat Oil Co., Midland, TX

Project Name: Patrica # 3



Project Id:

Contact: Tomas Schneder

Project Location: Chaves Co , NM

Date Received in Lab: Tue Feb-24-09 03:20 pm


Report Date: 06-MAR-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	325787-001	325787-002	325787-003	325787-004	325787-005	
	<i>Field Id:</i>	Middle	NE	SE	SW	NW	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Feb-23-09 08:15	Feb-23-09 08:18	Feb-23-09 08:21	Feb-23-09 08:23	Feb-23-09 08:25	
Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Mar-05-09 13:51	Mar-05-09 13:51	Mar-05-09 13:51	Mar-05-09 13:51	Mar-05-09 13:51	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		2460 51.3	1670 51.2	721 20.3	2280 51.2	4100 103	
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		2.62 1.00	2.34 1.00	1.26 1.00	2.27 1.00	2.59 1.00	
TPH By SW8015 Mod	<i>Extracted:</i>	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	
	<i>Analyzed:</i>	Feb-26-09 18:10	Feb-26-09 18:33	Feb-26-09 18:56	Feb-26-09 19:19	Feb-26-09 19:41	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.4	ND 15.4	ND 15.2	ND 15.3	ND 15.4	
C12-C28 Diesel Range Hydrocarbons		137 15.4	ND 15.4	ND 15.2	ND 15.3	15.4 15.4	
C28-C35 Oil Range Hydrocarbons		48.1 15.4	ND 15.4	ND 15.2	ND 15.3	ND 15.4	
Total TPH		185.1 15.4	ND 15.4	ND 15.2	ND 15.3	15.4 15.4	

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Outside XENCO's scope of NELAC Accreditation.

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12600 West I-20 East, Odessa, TX 79765
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Patrica # 3

Work Orders : 325787,

Project ID:

Lab Batch #: 751048

Sample: 525541-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 11:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

Lab Batch #: 751048

Sample: 525541-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 11:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

Lab Batch #: 751048

Sample: 525541-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 12:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	100	97	70-135	
o-Terphenyl	45.5	50.0	91	70-135	

Lab Batch #: 751048

Sample: 325787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

Lab Batch #: 751048

Sample: 325787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	100	94	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Patrica # 3

Work Orders : 325787,

Project ID:

Lab Batch #: 751048

Sample: 325787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.0	100	93	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 751048

Sample: 325787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 19:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	100	92	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 751048

Sample: 325787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 19:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	100	98	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 751048

Sample: 325777-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 20:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	57.2	50.0	114	70-135	

Lab Batch #: 751048

Sample: 325777-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 20:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Patrica # 3

Work Order #: 325787

Project ID:

Lab Batch #: 751684

Sample: 751684-1-BKS

Matrix: Solid

Date Analyzed: 03/05/2009

Date Prepared: 03/05/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.99	100	80-120	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Patrica # 3

Work Order #: 325787

Analyst: BHW

Lab Batch ID: 751048

Sample: 525541-1-BKS

Date Prepared: 02/25/2009

Batch #: 1

Project ID:

Date Analyzed: 02/26/2009

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1050	105	1000	1040	104	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1090	109	1000	1080	108	1	70-135	35	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Patrica # 3



Work Order #: 325787

Lab Batch #: 751684

Date Analyzed: 03/05/2009

QC- Sample ID: 325787-001 S

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Date Prepared: 03/05/2009

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	2460	1030	3540	105	80-120	

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$

Relative Percent Difference $[E] = 200 \cdot (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Patrica # 3

Work Order #: 325787

Project ID:

Lab Batch ID: 751048

QC- Sample ID: 325777-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/26/2009

Date Prepared: 02/25/2009

Analyst: BHW

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1110	103	1080	1110	103	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	1190	110	1080	1210	112	2	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Patrica # 3

Work Order #: 325787

Lab Batch #: 751684

Date Analyzed: 03/05/2009

QC- Sample ID: 325787-001 D

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Date Prepared: 03/05/2009

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	2460	2430	1	20	

Lab Batch #: 750769

Date Analyzed: 02/24/2009

QC- Sample ID: 325777-001 D

Reporting Units: %

Date Prepared: 02/24/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	27.8	10.9	87	20	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: L. M. S. Schmitt
Company Name: TOPAT S. & Co.
Company Address: 505 W. 1st St. Ste. 405
City/State/Zip: Midland TX 79701
Telephone No: 432 682 6340 Fax No: _____
Sampler Signature: [Signature] e-mail: TOPAT.S@acsl.com

Project Name: AT&T 973

Project #: _____

Project Loc: Offices Co. Rd

PO #: _____

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

e-mail: TORAT.S@ACH.PCVD

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Add Filtered	Total # of Containers	Preservation & # of Containers		Matrix	Analyte For:												RUSH TAT (pre-shipment) 24 hr 72 hr							
													TCLP TOTAL:																			
													TPH	1181	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	2501	2601	2701	2801	2901	3001	
													TPH	1181	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	2501	2601	2701	2801	2901	3001	
01	PATRICA #2	1	WELL			3-23-09	8:15A		1	X			SOIL	X																		
02	PATRICA #3	2	N.E.			3-23-09	14:18A		1	X			SOIL	X																		
03	PATRICA #3	3	S.E.			3-23-09	14:17A		1	X			SOIL	X																		
04	PATRICA #3	4	S.W.			3-23-09	14:17A		1	X			SOIL	X																		
05	PATRICA #3	5	N.W.			3-23-09	9:25A		1	X			SOIL	X																		

Special Instructions:

Relinquished by: [Signature] Date: 3-23-09 16:35 Time: Received by: Fred Ely/mj Date: 3/23/09 Time: 6:35

Relinquished by: [Signature] Date: 3-23-09 16:35 Time: Received by: Fred Ely/mj Date: 3/23/09 Time: 6:35

Relinquished by: Fred Ely Date: 3-23-09 16:35 Time: Received by: [Signature] Date: 3-23-09 16:35 Time:

Laboratory Comments:

Sample Containers Intact? N

VOCs Free of Headspace? N

Labels on containers? N

Custody seals on containers? N

Custody seals on cooler(s)? N

Sample Hand Delivered N

by Sampler/Chart Rep. N

by Counter? N

by UPS N

Temperature Upon Receipt: 10.0 °C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Topcat Oil Co
Date/ Time: 2-24-01 10:10
Lab ID #: 323787
Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	10:10 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELDT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☒ Cooling process had begun shortly after sampling event

Gracie Avalos

From: Brent Barron [brent.barron@xenco.com]
Sent: Thursday, March 05, 2009 8:05 AM
To: Gracie Avalos
Subject: FW: WO#325787 Patricia #3

Please add and have Tasha Process as soon as possible.

-----Original Message-----

From: TOPAT5@aol.com [mailto:TOPAT5@aol.com]
Sent: Wednesday, March 04, 2009 6:11 AM
To: Jeanne.Fitch@xenco.com
Subject: Re: WO#325787 Patricia #3

Jeanne,

The OCC in Artesia, NM wants a test run on the samples for clorides. I thought it was included but perhaps we misunderstood each other. please advise if and when you can do this test, thanks for your quick and efficient processing of these samples. tom (not tomas) schneider, Topat Oil Corp., Midland, TX

A Good Credit Score is 700 or Above. See yours in just 2 easy steps!

3/5/2009

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, March 03, 2009 10:38 AM
To: 'TOPAT5@aol.com'
Subject: RE: WO#325787 Patricia #3

Mr. Schneider,

In reviewing the analytical data presented, I notice that there were no tests run for chlorides. If the lab still has the samples you took to them, they may still be able to run that test. We will need that run before we can approve closure for this pit. I left a message on the phone number provided, so please contact me at your earliest convenience.

Thank you,

Mike Bratcher
NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
575-748-1283 Ext.108

From: TOPAT5@aol.com [mailto:TOPAT5@aol.com]
Sent: Monday, March 02, 2009 8:03 AM
To: Bratcher, Mike, EMNRD
Subject: Fwd: WO#325787 Patricia #3

Dear Mike;

Attached please find report on samples taken from pit on Patricia Fed #3 in Chaves County, NM I am a bit confused on results. Please advise on what we need to do here or if there is anything lacking on the C-144 I had sent in earlier.

Regards;

Thomas E Schneider

A Good Credit Score is 700 or Above. See yours in just 2 easy steps!

This inbound email has been scanned by the MessageLabs Email Security System.

Rec'd 3/2/09

Analytical Report 325787

for

Topat Oil Co.

Project Manager: Tomas Schineder

Patrica # 3

27-FEB-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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Midland - Corpus Christi - Atlanta



27-FEB-09

Project Manager: **Tomas Schineder**
Topat Oil Co.
505 N. Big Spring Suite 405
Midland, TX 79701

Reference: XENCO Report No: **325787**
Patrica # 3
Project Address: Chaves Co., NM

Tomas Schineder:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 325787. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 325787 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 325787



Topat Oil Co., Midland, TX

Patrica # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Middle	S	Feb-23-09 08:15		325787-001
NE	S	Feb-23-09 08:18		325787-002
SE	S	Feb-23-09 08:21		325787-003
SW	S	Feb-23-09 08:23		325787-004
NW	S	Feb-23-09 08:25		325787-005



Certificate of Analysis Summary 325787

Topat Oil Co., Midland, TX

Project Name: Patrica # 3



Project Id:
Contact: Tomas Schineder
Project Location: Chaves Co., NM

Date Received in Lab: Tue Feb-24-09 03:20 pm

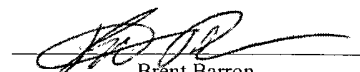
Report Date: 27-FEB-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	325787-001	325787-002	325787-003	325787-004	325787-005	
	Field Id:	Middle	NE	SE	SW	NW	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Feb-23-09 08:15	Feb-23-09 08:18	Feb-23-09 08:21	Feb-23-09 08:23	Feb-23-09 08:25	
Percent Moisture	Extracted:						
	Analyzed:	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	Feb-24-09 17:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		2.62 1.00	2.34 1.00	1.26 1.00	2.27 1.00	2.59 1.00	
TPH By SW8015 Mod	Extracted:	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	Feb-25-09 21:50	
	Analyzed:	Feb-26-09 18:10	Feb-26-09 18:33	Feb-26-09 18:56	Feb-26-09 19:19	Feb-26-09 19:41	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.4	ND 15.4	ND 15.2	ND 15.3	ND 15.4	
C12-C28 Diesel Range Hydrocarbons		137 15.4	ND 15.4	ND 15.2	ND 15.3	15.4 15.4	
C28-C35 Oil Range Hydrocarbons		48.1 15.4	ND 15.4	ND 15.2	ND 15.3	ND 15.4	
Total TPH		185.1 15.4	ND 15.4	ND 15.2	ND 15.3	15.4 15.4	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


Brent Barron
Odessa Laboratory Director

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Outside XENCO's scope of NELAC Accreditation.

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 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
 842 Cantwell Lane, Corpus Christi, TX 78408

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(281) 240-4200	(281) 240-4280
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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Patrica # 3

Work Orders : 325787,

Project ID:

Lab Batch #: 751048

Sample: 525541-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 11:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

Lab Batch #: 751048

Sample: 525541-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 11:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

Lab Batch #: 751048

Sample: 525541-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/26/09 12:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	100	97	70-135	
o-Terphenyl	45.5	50.0	91	70-135	

Lab Batch #: 751048

Sample: 325787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

Lab Batch #: 751048

Sample: 325787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	100	94	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Patrica # 3

Work Orders : 325787,

Project ID:

Lab Batch #: 751048

Sample: 325787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 18:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.0	100	93	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 751048

Sample: 325787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 19:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	100	92	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 751048

Sample: 325787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 19:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	100	98	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 751048

Sample: 325777-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 20:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	57.2	50.0	114	70-135	

Lab Batch #: 751048

Sample: 325777-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/26/09 20:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

All results are based on MDL and validated for QC purposes



BS / BSD Recoveries



Project Name: Patrica # 3

Work Order #: 325787

Analyst: BHW

Date Prepared: 02/25/2009

Project ID:

Date Analyzed: 02/26/2009

Lab Batch ID: 751048

Sample: 525541-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1050	105	1000	1040	104	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1090	109	1000	1080	108	1	70-135	35	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Patrica # 3

Work Order #: 325787

Project ID:

Lab Batch ID: 751048

QC- Sample ID: 325777-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/26/2009

Date Prepared: 02/25/2009

Analyst: BHW

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1110	103	1080	1110	103	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	1190	110	1080	1210	112	2	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not
ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Patrica # 3

Work Order #: 325787

Lab Batch #: 750769

Date Analyzed: 02/24/2009

QC- Sample ID: 325777-001 D

Reporting Units: %

Date Prepared: 02/24/2009

Batch #: 1

Project ID:

Analyst: BEV

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	27.8	10.9	87	20	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes

Xenco Laboratories

The Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Thomas Schinow
Company Name: TOPAT P/L
Company Address: 785 N. Dwyer Ave. Apt 4105
City/State/Zip: Durham, TX 79701
Telephone No: 432 682 6340
Sampler Signature: [Signature]

Project Name: WATER
Project #:
Project Loc: (Hill Co. NW)
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

Fax No:
e-mail: TOPAT5@AOL.COM

Lab use only:
ORDER #: 325787

LAB # (lab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers										Analyze For										RUSH TAT (pre-schedule) 24	
								Ice	HCl	H ₂ O ₂	LiSO ₄	NaOH	Na ₂ SO ₄	None	Other (Specify)	LowpH/Alk/Other	GC/MS/Other	TPH	TX 100	TX 1000	Chlorides (as Ag)	Ammonia (as N)	Sulfate (as S)	Salinity (ppt)	Mercury (as Ag)	Volatiles	Heavy Metals	PCB's	
01	PATRICK #1	1. MHW			2-25-09	8:15A		X							Solid														
02	PATRICK #2	2. N.E			2-25-09	9:18A		X							Solid														
03	PATRICK #3	3. S.E			2-25-09	2:14P		X							Solid														
04	PATRICK #4	4. S.W			2-25-09	6:23P		X							Solid														
05	PATRICK #5	5. N.W			2-25-09	9:25A		X							Solid														

Special Instructions:

Relinquished by: <u>[Signature]</u>	Date: <u>2-25-09</u>	Time: <u>11:35A</u>	Received by: <u>FedEx</u>	Date: <u>2-25-09</u>	Time: <u>11:35A</u>
Relinquished by: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>	Received by: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>
Relinquished by: <u>FedEx</u>	Date: <u></u>	Time: <u></u>	Received by: <u>[Signature]</u>	Date: <u>2-25-09</u>	Time: <u>11:35A</u>

Laboratory Comments:
Sample Containers intact? ☒ N
VOICs Free of Headspace? ☒ N
Labels on container(s)? ☒ N
Custody seals on container(s)? ☒ N
Custody seals on cooler(s)? ☒ N
Sample Hand Delivered? ☒ N
by Sanitizer/Clean Rep? ☒ N
by Courier? ☒ N
Temperature Upon Receipt? 10.0 C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Tornt Oil Co
Date/ Time: 1-24-09 10:20
Lab ID #: 325787
Initials: AL

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	10.0	*C
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

☐ See attached e-mail/ fax

☐ Client understands and would like to proceed with analysis

☒ Cooling process had begun shortly after sampling event

FEB 23 2009

Topat Oil Corporation, Inc.
505 N Big Spring St, Ste 405
Midland, TX 79701
(432) 682-6340
(432) 682-3996 Fax

Oil Conservation Commission
1301 W Grand Ave
Artesia, NM 88210
Attn: Mike Bratcher

2/19/09

Re: C-144 Application to close pit

Dear Mr. Bratcher;

As per our conversation yesterday, I am sending you a partially filled out C-144 to fill in an old drilling pit. This pit was dug in 1995 when we drilled the Patricia Federal #3 well, it had ground water in it in the original drilling and has been kept open since as per the request of David Carpenter, the surface owner whom also takes care of these wells for us. He uses it to water his cattle when there are sufficient rains to supplement his well water. You can contact David at (575) 626-6336 to confirm. Inspector Richard Inge is also very familiar with the case.

I talked to Environmental Compliance in Midland, TX (432) 563-1800 concerning taking soil samples on a 5 spot pattern from the bottom of this pit that is presently dry. They are forwarding test containers to David via Fed-Ex so that we should have the results in the next several days. Taking the samples is tentatively set up for Monday morning, February 23rd, 2009 at 8AM.

Please advise if you need more information. I filled out the C-144 as best I could up to item #14. We would like to use fill dirt on location to backfill the pit provided the samples come back clean. Thanks for your help with this.

Regards;



Thomas E Schneider
Operations Manager, Topat Oil Corporation