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

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
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator: ELM RIDGE EXPLORATION COMPANY, LLC OGRID #: 149052
Address: P. O. BOX 156, BLOOMFIELD, NM 87413
Addiess. F. O. BOX 150, BLOOMPIELD, NW 67415
Facility or well name: BISTI GALLUP 22 #5
API Number: 30-045-34210 OCD Permit Number:
U/L or Qtr/Qtr E Section 22 Township 25 N Range 12 W County: SAN JUAN
Center of Proposed Design: Latitude 36.38764" N Longitude 108.10660" W NAD: 1927 \ 1983
Operator: ELM RIDGE EXPLORATION COMPANY, LLC OGRID #: 149052 Address: P. O. BOX 156, BLOOMFIELD, NM 87413 Facility or well name: BISTI GALLUP 22 #5 API Number: 30-045-34210 OCD Permit Number: U/L or Qtr/Qtr E Section 22 Township 25 N Range 12 W County: SAN JUAN Center of Proposed Design: Latitude 36.38764* N Longitude 108.10660* W NAD: 1927 \(\text{ 1983} \) Surface Owner \(\text{ Federal} \) State \(\text{ Private} \) Tribal Trust or Indian Allotment
1.
☑ <u>Pit</u> : Subsection F or G of 19.15.17.11 NMAC
Temporary: ☑ Drilling ☐ Workover
Permanent Emergency Cavitation P&A
☑ Lined ☐ Unlined Liner type: Thickness 20 mil ☑ LLDPE ☐ HDPE ☐ PVC ☐ Other >
⊠ String-Reinforced
Liner Seams: Welded Factory Other Volume: 9.939 bbl Dimensions. L 160' x W 40' x D 10'
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of
intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thickness mil LLDPE IIDPE PVC Other
Liner Seams: Welded Factory Other
W THE PIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid: \frac{1}{125} on CONS. DIV. DIST. 3 \frac{27}{125}
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
Liner type: Thickness mil
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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 minimum 36" hog wire topped with at least 1 strand of barbed wire = at least 48" high fence						
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)						
s. 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 consideration of approval. See request for alternate marking on Page 2 of attachment Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for					
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 accepmaterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district					
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.	☐ Yes ☐ No					

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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 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Trottously http://orange.com/
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)
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 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 H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control 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
<u>Proposed Closure</u> : 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)
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 G of 19.15.17 13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground S Instructions: Please indentify the facility or facilities for the disposal of liquids, difacilities 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 occ ☐ Yes (If yes, please provide the information below) ☐ No		vice and operations?				
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 I Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of Subsection H of 19.15.17.13 NMA(of 19.15.17.13 NMAC	 C				
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 of the State Engineer - iWATERS database	obtained from nearby wells	⊠ Yes □ No □ NA				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signilake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ficant watercourse or lakebed, sinkhole, or playa	☐ Yes ⊠ No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in Visual inspection (certification) of the proposed site; Aerial photo; Satellite in		☐ Yes ☑ No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less t watering purposes, or within 1000 horizontal feet of any other fresh water well or spring NM Office of the State Engineer - iWATERS database; Visual inspection (co	ing, in existence at the time of initial application.	☐ Yes ⊠ No				
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval	•	☐ 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 a	nd Mineral Division	☐ Yes 🏻 No				
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology of Society; Topographic map	& Mineral Resources; USGS; NM Geological	☐ Yes ⊠ No				
Within a 100-year floodplain FEMA map		☐ Yes 🖾 No				
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure 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 See 10. on APD Page 9 (Exhibit K) 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 19.15.17.13 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 I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17.13 NMAC						
	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	, helief
Name (Print): BRIAN WOOD Title: CONSULTANT	bonoi.
Signature: Date: 11-28-08	
e-mail address: brian@permitswest.com Telephone: (505) 466-8120	
20.	,
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	.
OCD Representative Signature: Branch Self Approval Date: 1=	4-10-08
Title: En Jio Spec OCD Permit Number:	
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 submitted. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do section of the form until an approved closure plan has been obtained and the closure activities have been completed.	not complete this
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	4 26, 2000
Closure Method: Waste Excavation and Removal	i-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Hau Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use a 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 Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)	operations?
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) See attached. Proof of Deed Notice (required for on-site closure) N/A Plot Plan (for on-site closures and temporary pits) See attached. Confirmation Sampling Analytical Results (if applicable) see attached. Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number N/A Soil Backfilling and Cover Installation See attached. Re-vegetation Application Rates and Seeding Technique See attached.	initiale, by a circu
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude / 136, 38746 Longitude - 108.10660 NAD: 19	227 XT 1983
25.	27.23 1703
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 mobile belief. I also certify that the closure complete with all applicable closure requirements and conditions specified in the approved closure.	ly knowledge and
Name (Print): Amy Mackey Title administrative M	. •
Date: 9/25/09	
e-mail address:Telephone:	

Yerni C-144

Elm Ridge Exploration Bisti Gallup 22-5

Closure Date: February 26, 2009

Job No. 03056-0155

Drill Pit Closure Checklist

- 1) An alternative interim marking system will be used to allow for safer and more efficient operations. A minimum 4" O.D. steel pipe will be set at least 36" deep at the center of the pit. A threaded collar will be on the top of the pipe. A minimum 12" x 12" steel plate will be welded atop the threaded collar. The top of the plate will be flush with ground level. The standard location information listed will be welded onto the plate, plus a notation that it marks an on-site buried, temporary pit. Upon plugging the well, the plate will be removed, and the pit will be marked as described in 19.15.17.13.F(1)(d).

 See attached photo for on-site temporary ground-level marker. In ground marker will be replaced by a division approved four (4) foot riser upon P&A of this well location. Information welded onto the marker will include: Elm Ridge Exploration, Lease #NMNM-25449, Bisti Gallup 22-5, UL E, Sec. 22, Twn. 25N, Rge 12W, on-site burial and the date.
- 2) Elm Ridge Exploration will close the pit in accordance with OCD rules 19.15.17.12 &13. Post closure documents will be submitted within 60 days of pit closure and will include forms C-105 and C-144, cover details, pit diagram, inspection report and closure sampling results. See attached C-105, C-144, pit diagrams, closure sampling results. A cover was installed in accordance with 19.15.17.12 &13.
- 3) All free standing liquids will be removed before backfilling the pit and disposed of at an Elm Ridge Disposal Well or at Basin Disposal's evaporation pond.

 Liquid was removed and disposed of at Carson WDW 242 on December 21, 2008. The rig release date for this drill pit is prior to rule 19.15.17, February 11, 2008.
- 4) Due to the land being located on federal land, managed by the Bureau of Land Management (BLM), a deed notice was not applicable.
- 5) Due to confusion associated with the transition period pertaining to 19.15.17, the new 'Pit Rule', a drill pit inspection log was not maintained on this drill pit. Elm Ridge Exploration will comply with the rule and perform drill pit inspections as standard operating procedure as of 7/31/09, and will perform all necessary drill pit inspections after this date.
- 6) The preferred method of closure will be on-site, in place burial, assuming all criteria outlined in 19.15.17.13 (B) are met.
 The drill pit met all requirements, and was buried in-place on February 26, 2009.
- 7) The surface owner has been notified.
 The BLM was notified on February 23, 2009. See attached BLM notification.
- 8) After approval of this application, Elm Ridge Exploration will notify the OCD verbally, or by other means, at least 72 hours, but not more than one week, prior to any closure operations. The notice shall include the operator's name and the location to be closed by unit letter, section, township and range, well name and number, and API number.

 The Oil Conservation Division, Aztec Office, was notified on February 23, 2009. See attached OCD notification.
- 9) All liner above the mud level will be cut and removed after stabilization. Removed liner will be disposed of in a licensed disposal facility.

 Liner was cut, removed, and disposed after stabilization of the drill pit contents at San Juan

Closure Date: February 26, 2009

Job No. 03056-0155

County Regional Landfill, Solid Waste Facility Permit SW 05-30 (P).

10) Elm Ridge Exploration will stabilize or solidify the contents to a bearing capacity sufficient to support the temporary pit's final cover. Elm Ridge Exploration will mix the contents with soil or other material at a mixing ratio of no greater than 3-1, soil or other material: to drill pit contents

Contents of drill pit were mixed at a 3:1 ratio of soil to contents of drill pit.

11) A 5-Point Composite sample will be taken of the pit, and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). If the criteria are not met, then all contents will be handled per subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13. (i.e. dig and haul). If a dig and haul is required, then the disposal facility will be Envirotech's Landfarm (NM01-0011).

Initial sampling on 1/15/09 returned results that were below the NMOCD regulatory standards for all constituents analyzed; see attached *Laboratory Results*.

Sample	Chloride	Benzene (8021)	BTEX (8021)	TPH (418.1)	DRO/GRO (8015)
NMOCD Regulatory Standards	1,000 mg/kg	0.2 mg/kg	50.0 mg/kg	2,500 mg/kg	500 mg/kg
Contents Pre-Mix	510 mg/kg	0.0016 mg/kg	0.0619 mg/kg	87.6 mg/kg	<0.2 mg/kg

12) After completing solidification and testing, the pit area will be backfilled with compacted, waste free, earthen material. At least four (4) feet of cover will be achieved. The cover will include one (1) foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

Site was backfilled using one (1) foot of topsoil and approximately four (4) feet of non-waste containing earthen material used for cover.

13) Recontouring of the location will match the fit, shape, line, form, and texture of the surrounding area. Re-shaping will control drainage and prevent ponds and erosion. Natural drainages will be unimpeded. Water bars and/or silt traps will be placed where needed to prevent erosion on a large scale. Final recontour will have a uniform appearance with smooth surface, fitting the natural landscape.

The site was recontoured to match the fit, shape, line and form of the surrounding area. It was re-shaped to prevent ponding and erosion, and in such a way that natural drainage was unimpeded. Water bars or silt traps were not needed to prevent erosion. The final recontour has a uniform appearance and a smooth surface, and fits the natural landscape. See attached photos of site recontouring.

14) Notice will be sent to the OCD when the reclaimed area is seeded.

Elm Ridge Exploration will comply with the BLM's re-seeding requirements in this area in accordance with the federal rules and regulations as allowed by the BLM/OCD Memorandum of Understanding. Re-seeding was scheduled to begin on July 7, 2009, per the BLM.

Submit To Appropri Two Copies	ate District Of	ffice		State of New Mexico					Form C-105							
District I 1625 N French Dr.,	Hobbs, NM 8	8240	Eı	nergy,	Minerals ar	nd Nati	ural	Resou	ırces		July 17, 2008 1. WELL API NO. 30-045-34210					
District II 1301 W Grand Ave	nue, Artesia, Ì	NM 88210		0	il Conserva	ation I	Divi	cion								
District III 1000 Rio Brazos Rd	, Aztec, NM	87410			220 South S						2 Type of Le		☐ FE	F [∑]	FED/IND	MAN
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505						3 State Oil &										
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								3 State Off &								
4. Reason for fili		HON	JK KEC	JIVIP	LETIONICE	FOR	1 (1)	ND L	<u>og</u>		5. Lease Name	4 P. C.		State Bloom of St.	1304 130	
 □ COMPLETI	ON REPOR	T (Fill in b	oxes #1 thro	ough #31	for State and Fe	ee wells	only)		,		Bisti Gallup 2 6. Well Numb					
C-144 CLOS #33; attach this an	URE ATTA	.CHMENT	Γ (Fill in bo	ces #1 th	nrough #9, #15 D	Date Rig l	Releas		#32 and/c	or	5					
7. Type of Compl NEW V	etion. VELL W	VORKOVE	ER 🗆 DEEI	ENING	□PLUGBAC	ск 🗆 р	IFFE	RENT R	RESERVO	- DIR	R 🗆 OTHER					
8. Name of Opera Elm Ridge Explo	tor										9. OGRID 149052					
10 Address of Op	erator				_I m s						11. Pool name	or W	ildcat			
PO Box 156, Bloc	omfield, Nev	v Mexico,	87413													
12.20 Gatton	Unit Ltr	Section	Town	ship	Range	Lot		Fee	et from th	e	N/S Line	Fee	t from th	e E/W	Line	County
Surface: BH:						+				_				-		
13. Date Spudded	14. Date	TD Reach	ed 15.	Date Ri	g Released			16. Date	e Comple	ted	(Ready to Prod	uce)		17. Eleva	ations (DF	and RKB,
	10	X7.11		<u> </u>	11, 2008 ack Measured De						•			RT, GR,		
18 Total Measure	d Depui of V	WEII	19.	Flug Da	ick Measured De	epui		20 wa	is Directio	ona	l Survey Made?		21. 15	ре Ејесі	ric and O	ther Logs Run
22. Producing Inte	erval(s), of th	is complet	ion - Top, B	ottom, N	lame								•	,		
23.				CAS	SING REC	ORD	(Re	eport	all stri	ng	es set in we	<u>ell)</u>				
CASING SIZ	E	WEIGHT	LB./FT.	4	DEPTH SET			HOLE S			CEMENTING RECORD AMOUNT PULLED			PULLED		
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24.				LIN	IER RECORD					25.	I T	UBII	NG REC	CORD		
SIZE	TOP		воттом		SACKS CEM		SCRE	EEN		SIZ			EPTH SE		PACKI	ER SET
	-											+				
26. Perforation	record (inter	val, size, ar	nd number)							R/	ACTURE, CEI					
						-	DEPT	TH INTE	ERVAL		AMOUNT A	ND K	IND MA	ATERIA	L USED	
						DDO	DII	CTIC	NNI .							
28 Date First Product	ion	Pr	oduction Me	thod (Fi	lowing, gas lift, p	PRO					Well Status	(Prod	d. or Shu	t-in)		
						,										
Date of Test	Hours Te	sted	Choke Siz	?	Prod'n For Test Period		Oıl - I	ВЫ		Gas	- MCF	W	ater - Bb	l. ,	Gas - C	Pil Ratio
Flow Tubing Press	Casing Pr	ressure	Calculated Hour Rate	24-	Oıl - Bbl.		G	as - MC	F	_ 	Water - Bbl.		Oil Gr	avity - A	PI - (Cori	r.)
29. Disposition of	Gas (Sold, u	ised for fue	l, vented, etc) 						_		30. T	est Witn	essed By	7	
31. List Attachme	nts			·			·									
32 If a temporary pit was used at the well, attach a plat with the location of the temporary pit Attached																
33. If an on-site bu	ırial was use	d at the we	ll, report the	exact lo							nostrud - 100 -			3711	D 1027 1	083
I hereby certify	that the i	informati	on shown					e and			ngitude -108.10 to the best of		knowle	na dge an	D 1927 1 d belief	783
Signature					Printed Name Ms.	. Amv l	Macl	kev ´	Title A	١d١	ministrative	Ma	nager			
Date E-mail Addres	s amacko	v1@elmi	ridge net		,	-J -		J					B*-			

INSTRUCTIONS

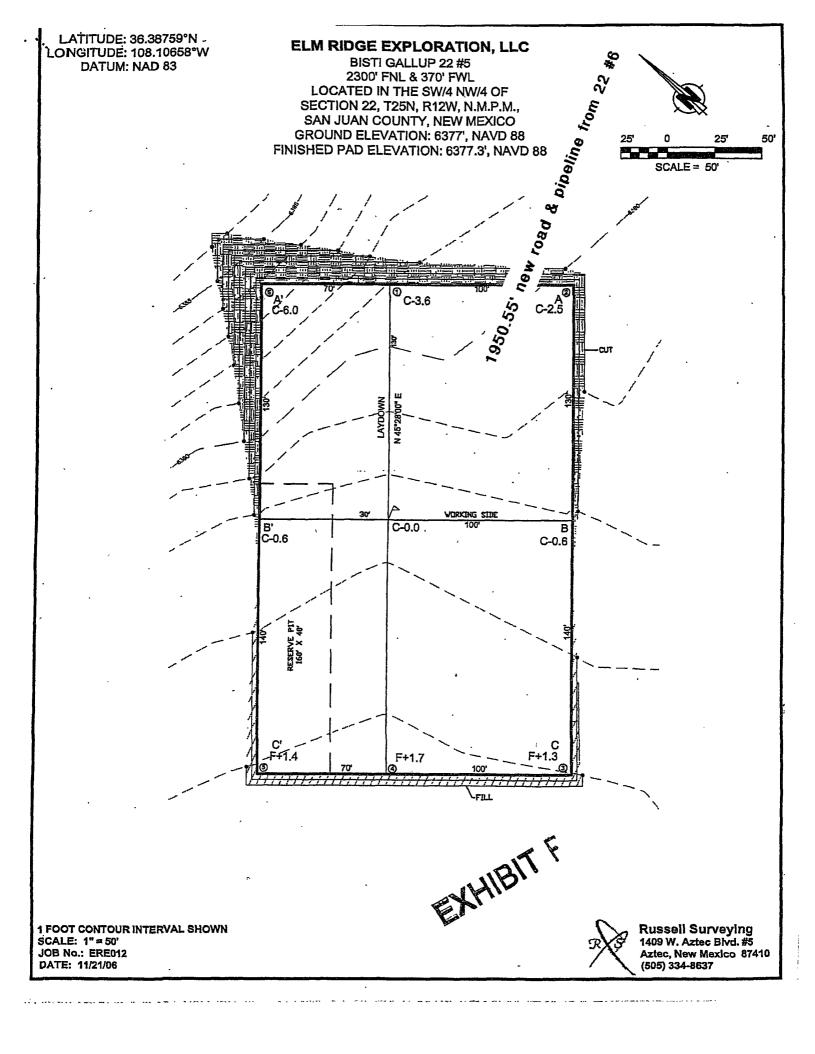
This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southea	astern New Mexico	Northy	vestern New Mexico
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt_	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt_	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash_	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	Т.	T. Permian	OH OD CAS

				OR GAS OR ZONES
No. 1, from	toto	No. 3, from	to	
No. 2, from	to	No. 4, from	to	
,		NT WATER SANDS		
Include data on rate of	water inflow and elevation to which	water rose in hole.		
No. 1, from	to	feet		
No. 2, from	to	feet		
No. 3, from	to	feet		
·	LITHOLOGY RECO	RD (Attach additional sheet	if necessary)	

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
				i		ı	
			,				
				i			



FROM:

JAMES MCDANIEL

SENT:

MONDAY, FEBRUARY 23, 2009 8:01 AM

TO:

'MARK KELLY (MARK_KELLY@NM.BLM.GOV)'

SUBJECT:

BISTI GALLUP 22-5 CLOSURE NOTIFICATION

ATTACHMENTS:

SUNDRY NOTICE EDITABLE.PDF

Mr. Mark Kelly,

Please accept this email as the required notification for closure activities to be performed by Elm Ridge Exploration at the Bisti Gallup 22-5 well site located in Section 22, Township 25N, Range 12W, Unit E, San Juan County, New Mexico. The API # is 3004534210, and closure activities are scheduled to begin on Thursday, February 26, 2009. Attached is a completed Sundry notice for this well site. The OCD has been notified about the closure activities to take place at this site. Thank you for your time in regards to this event.

James P McDaniel Project Scientist Envirotech, Inc

505-793-5392

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPRO	VED
OMB N	o. 1004-	0137
Evnires	Inly 31	2010

5. Lease Serial No NMNM-25449

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

6 If Indian, Allottee or Tribe Name abandoned well.

	A) 0 0010 1110 1 388	. D) 101 3u	cii pi oposais	•	<u> </u>	
	T IN TRIPLICATE – Other	7 If Unit of CA/Agre	eement, Name and/or No			
1 Type of Well Gas W	/ell				8 Well Name and No Bisti Gallup 22-5)
2 Name of Operator Elm Ridge Exploration		9 API Well No 30-045-34210				
3a Address PO Box 156 Bloomfield, NM 87413	(include area code 76)	10 Field and Pool or	Exploratory Area		
4 Location of Well (Footage, Sec , T.,, 2300 FNL & 370 FWL, E-22-25N-12W	R.,M, or Survey Description,)			11 Country or Parish San Juan County,	*
12 CHEC	CK THE APPROPRIATE BO	X(ES) TO IND	ICATE NATURE	OF NOTIC	CE, REPORT OR OTH	HER DATA
, TYPE OF SUBMISSION	X 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TYPI	E OF ACT	ION	
✓ Notice of Intent	Acidize Alter Casing	Deep Fract	en ure Treat		uction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	=	Construction and Abandon	\equiv	mplete oorarily Abandon	Other
Final Abandonment Notice	Convert to Injection	Plug	Back	☐ Wate	r Dısposal	
testing has been completed. Final determined that the site is ready for Elm Ridge Exploration, Inc is making will begin on Thursday, February 26	ed operations. If the operation Abandonment Notices must be final inspection) g the necessary surface not good and continue for the continue	on results in a more filed only after only a	nultiple completion er all requirements, eir intent to close	or recompline including	letion in a new interva reclamation, have been	l, a Form 3160-4 must be filed once n completed and the operator has
14 I hereby certify that the foregoing is to	rue and correct Name (Frintee	и туреа)	Title			
Signature	,					
	THIS SPACE	FOR FEDE	RAL OR STA	TE OFF	ICE USE	
Approved by						
		Title			Date	
Conditions of approval, if any, are attached that the applicant holds legal or equitable tentitle the applicant to conduct operations	ttle to those rights in the subjecthereon.	et lease which wo	ould Office			
Title 18 U S C. Section 1001 and Title 43 fictitious or fraudulent statements or repre				willfully to	make to any departmen	nt or agency of the United States any false,

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

FROM: JAMES MCDANIEL

SENT: MONDAY, FEBRUARY 23, 2009 7:30 AM
TO: 'BRANDON.POWELL@STATE.NM.US'

SUBJECT: DRILL PIT CLOSURE ACTIVITIES BISTI GALLUP 22-5

Mr. Brandon Powell,

Please accept this email as the required notification for closure activities to be performed by Elm Ridge Exploration at the Bisti Gallup 22-5 well site located in Section 22, Township 25N, Range 12W, Unit E, San Juan County, New Mexico. The API # is 3004534210, and closure activities are scheduled to begin on Thursday, February 26, 2009. The BLM has been notified as the surface owner. Thank you for your time in regards to this event.

James P McDaniel Project Scientist Envirotech, Inc

505-793-5392

SITE RESTORATION PHOTOGRAPHY JOB NUMBER: 03056-0155 **PHOTOS TAKEN: MAY 14, 2009 ELM RIDGE EXPLORATION** BISTI GALLUP 22-5

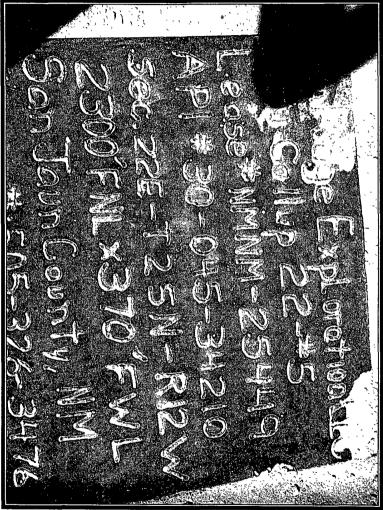


Photo 1: Steel Marker Plate

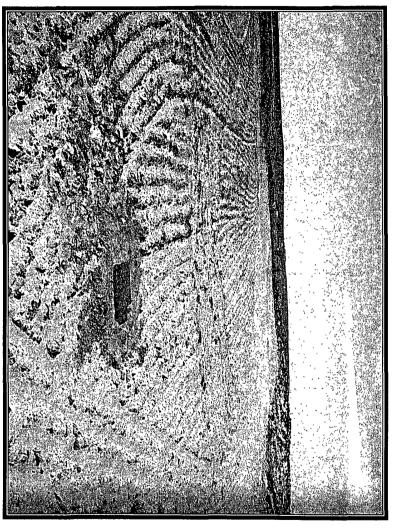


Photo 2: Overview of Recontoured Area

ELM RIDGE EXPLORATION BISTI GALLUP 22-5

SITE RESTORATION PHOTOGRAPHY JOB NUMBER: 03056-0155 PHOTOS TAKEN: MAY 14, 2009

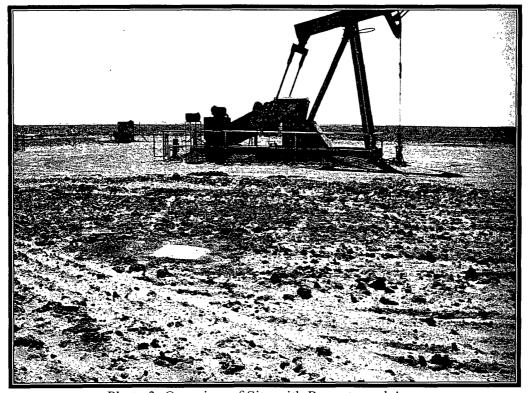


Photo 3: Overview of Site with Recontoured Area

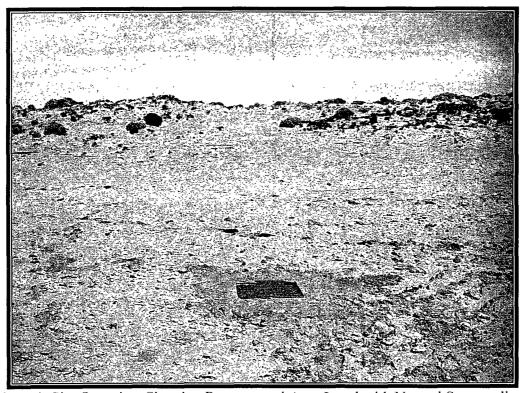


Photo 4: Site Overview Showing Recontoured Area Level with Natural Surroundings



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Elmridge Res.	Project #:	03056-0155
Sample ID:	#3 Pit	Date Reported:	01-23-09
Laboratory Number:	48752	Date Sampled:	01-15-09
Chain of Custody No:	6192	Date Received:	01-15-09
Sample Matrix:	Sludge	Date Extracted:	01-19-09
Preservative:	Cool	Date Analyzed:	01-20-09
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Bisti Gallup 22 #5

Analyst

Mustin m Walt

Ph (505)632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	01-20-09 QA/	QC	Date Reported:		01-23-09
Laboratory Number:	48749		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		01-20-09
Condition:	N/A		Analysis Reques	sted:	TPH
and the second s	00 ST - 5-32 2 V V SO - W - V V V V V V V V V V V V V V V V V				
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept: Range
Gasoline Range C5 - C10	05-07-07	1.0047E+003	1.0051E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0367E+003	1.0371E+003	0.04%	0 - 15%
A AMERICAN WAS AND	the excess pages of the model of the terms	men is not south to a final time term of some	The area of the state of the st	green waann oo fra aanaan we yn districe.	***
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Limi	t i
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
er in market mann of the complete state of the complete state of the complete state of the complete complete state of the complete s	alan salaman a manakan tengahan salah	C. J. TOP A TOPARE TO SEE THE SECTION OF A ST	' J'', 1 T-71071 YANGANASHA (177 2100) 107115	AND THE STOREST CONTRACTOR OF THE STOREST STOR	75e
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	16.4	16.3	0.6%	0 - 30%	
Charles and the weather three and the control of the last and the second of the control of the c	STATE No. 1 See to TITE SEE TO SEE	kateta 1920anie il 1900anie	ATTENDED TO TECHNOLOGY OF THE STREET	40×71. \$975.56884.00.00	.) \$ \$7\$% . \%\ \$4^ 4\% \\$\\\$\
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	16.4	250	262	98.5%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 48749 - 48753, 48760, and 48771 - 48774

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elmridge Res.	Project #:	03056-0155
Sample ID:	#3 Pit	Date Reported:	01-23-09
Laboratory Number:	48752	Date Sampled:	01-15-09
Chain of Custody:	6192	Date Received:	01-15-09
Sample Matrix:	Sludge	Date Analyzed:	01-20-09
Preservative:	Cool	Date Extracted:	01-19-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	1.6	0.9	
Toluene	19.4	1.0	
Ethylbenzene	6.3	1.0	
p,m-Xylene	25.2	1.2	
o-Xylene	9.4	0.9	
Total BTEX	61.9		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

References:

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

December 1996.

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

USEPA, December 1996.

Comments:

Bisti Gallup 22 #5

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client Sample ID [.]	N/A 01-20-BT QA/QC	Project #: Date Reported.	N/A 01-23-09
Laboratory Number.	48749	Date Sampled:	N/A
Sample Matrix	Soil	Date Received:	N/A
Preservative ⁻	N/A	Date Analyzed:	01-20-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF: Accept Rand	%Diff. je 0 - 15%	Blank Conc	Detect: Limit
Benzene	5 4655E+005	5.4764E+005	0.2%	ND	0.1
Toluene	5 2152E+005	5 2257E+005	0.2%	ND	0.1
Ethylbenzene	7.5656E+005	7 5807E+005	0.2%	ND	0.1
p,m-Xylene	1 1786E+006	1 1810E+006	0.2%	ND	0.1
o-Xylene	5 0287E+005	5 0387E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample 44 D	uplicate	%Diff	Accept Range	Defect Limit
Benzene	1.3	1.4	7.7%	0 - 30%	0.9
Toluene	13.8	13.5	2.2%	0 - 30%	1.0
Ethylbenzene	4.9	4.6	6.1%	0 - 30%	1.0
p,m-Xylene	18.2	17.0	6.6%	0 - 30%	1.2
o-Xylene	12.2	12.6	3.3%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked Spil	ced Sample	% Recovery	Accept Range
Benzene	1.3	50.0	49.3	96.1%	39 - 150
Toluene	13.8	50.0	61.8	96.9%	46 - 148
Ethylbenzene	4.9	50.0	51.7	94.2%	32 - 160
p,m-Xylene	18.2	100	114	96.5%	46 - 148
o-Xylene	12.2	50.0	63.6	102%	46 - 148

ND - Parameter not detected at the stated detection limit

References

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

December 1996

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

Comments:

QA/QC for Samples 48749 - 48753, 48760, and 48771 - 48774.

Analyst

Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Res	Project #:	03056-0155
Sample ID:	#3 Pit	Date Reported:	01-21-09
Laboratory Number:	48752	Date Sampled:	01-15-09
Chain of Custody No:	6192	Date Received:	01-15-09
Sample Matrix:	Sludge	Date Extracted:	01-15-09
Preservative:	Cool	Date Analyzed:	01-15-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

87.6

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Bisti Gallup 22 #5.

Analyst

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported:

01-19-09

Laboratory Number:

01-15-TPH.QA/QC 48707

Sample Matrix:

Freon-113

Date Sampled: Date Analyzed: N/A

TPH

Preservative: Condition:

N/A N/A

Date Extracted: Analysis Needed: 01-15-09 01-15-09

Calibration

I-Cal Date

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference

Accept. Range

01-08-09

01-15-09

1,690

1,720

1.8%

Blank Conc. (mg/Kg)

+/- 10%

Concentration

Detection Limit

TPH

ND

16.2

Duplicate Conc. (mg/Kg)

TPH

Sample 49.9

Duplicate 41.8

% Difference 16.2%

Accept. Range +/- 30%

Spike Conc. (mg/Kg)

TPH

Sample 49.9

Spike Added 2,000

Spike Result 1,750

% Recovery 85.4%

Accept Range 80 - 120%

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 48707 - 48709 and 48751 - 48753.

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



Chloride

Elm Ridge Res Project #: 03056-0155 Client: Sample ID: #3 Pit Date Reported: 01-21-09 Lab ID#: 48752 Date Sampled: 01-15-09 Date Received: Sample Matrix: Sludge 01-15-09 Preservative: Cool Date Analyzed: 01-16-09 Condition: Intact Chain of Custody: 6192

Parameter

Concentration (mg/Kg)

Total Chloride

510

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Bisti Gallup 22 #5.

Analyst

CHAIN OF CUSTODY RECORD

5125

Project Name / Location: Client: ANALYSIS / PARAMETERS Elithing Res BISTI Gally 22#5 Sampler Name: #3 A+ BTEX (Method 8021) VOC (Method 8260) TPH (Method 8015) RCRA 8 Metals TCLP with H/P Cation / Anion Sample Intact Client Phone No.: Client No.: TPH (418.1) Sample Cool CHLORIDE 03056-015 5 Sample No./Volume Preservative Sample No./ Sample Sample RC Lab No. Containers HgCl, HCl Identification Date Time Matrix (Sludge) Soil 53 A+ 1/15/09/10:40 48752 X Aqueous Solid Soil Sludge Solid Aqueous Relinquished by: (Signature) Received by: (Signature) Date Time 1290 1230 115/04 Relinquished by: (Signature) Received by: (Signature) Relinquished by: (Signature) Received by: (Signature)

ENVIROTECH INC.

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