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: Energen Resources Corporation OGRID#: 162928
Address: 2010 Afton Place, Farmington, NM 87401
Facility or well name: Carracas 10B #14H
API Number: 30-039-30840 OCD Permit Number:
U/L or Qtr/QtrI Section9 Township32N Range04W County:RIO_ARRIBA
Center of Proposed Design: Latitude <u>36.99890</u> Longitude <u>−107.25165</u> NAD: ☐1927 🗵 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: Lx Wx D
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 20 mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
Liner Seams: Welded Factory Other

☐ 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, schoinstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	ool, hospital,
Alternate. Please specify	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Burconsideration of approval.	reau office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	 -
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of the submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.
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
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
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

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:
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:
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 Quality Control/Quality Assurance Construction and Installation Plan the appropriate requirements of 19.15.17.11 NMAC 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
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)
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 Groundstructions: Please indentify the facility or facilities for the disposal of liquid	und Steel Tanks or Haul-off Bins Only: (19.15.17.13 Is, drilling fluids and drill cuttings. Use attachment if mor	NMAC) re than two								
facilities are required Disposal Facility Name:										
Disposal Facility Name:										
Will any of the proposed closed-loop system operations and associated activition operations? Yes (If yes, please provide the information below) No	es occur on or in areas that will not be used for future ser	vice and								
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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC										
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMA Instructions: Each siting criteria requires a demonstration of compliance in provided below. Requests regarding changes to certain siting criteria may rebe considered an exception which must be submitted to the Santa Fe Enviror and/or demonstrations of equivalency are required. Please refer to 19.15.17.	the closure plan. Recommendations of acceptable sou equire administrative approval from the appropriate dist amental Bureau office for consideration of approval. J	rict office or may								
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		☐ 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 othe lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed sin		Yes No								
Within 300 feet from a permanent residence, school, hospital, institution, or ch - Visual inspection (certification) of the proposed site; Aerial photo; Sa		☐ Yes ☐ No								
Within 500 horizontal feet of a private, domestic fresh water well or spring tha watering purposes, or within 1000 horizontal feet of any other fresh water well NM Office of the State Engineer - iWATERS database; Visual inspec	or spring, in existence at the time of initial application.	☐ Yes ☐ No								
Within incorporated municipal boundaries or within a defined municipal fresh adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written a	· .	☐ 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-M	lining and Mineral Division	☐ Yes ☐ No								
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Go Society; Topographic map	eology & 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 by a check mark in the box, that the documents are attached.	of the following items must be attached to the closure pla	n. Please indicate,								
Siting Criteria Compliance Demonstrations - based upon the appropriate re Proof of Surface Owner Notice - based upon the appropriate requirements Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC appropriate requirements of 19.15.17.11 NMAC appropriate requirements of 19.15.15.17.13 NMAC equirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannot in H of 19.15.17.13 NMAC on I of 19.15.17.13 NMAC									

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurately.	arate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
	Closure Plan (only)
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior report. The closure report is required to be submitted to the division within 60 complete this section of the form until an approved closure plan has been obtain	to implementing any closure activities and submitting the closure days of the completion of the closure activities. Please do not
22	
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternati ☐ If different from approved plan, please explain.	ve Closure Method Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dr than two facilities were utilized. Disposal Facility Name: Bondad Landfill WCA	illing fluids and drill cuttings were disposed. Use attachment if more
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on c Yes (If yes, please demonstrate compliance to the items below)	
Required for impacted areas which will not be used for future service and opera Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	tions:
Closure Report Attachment Checklist: Instructions: Each of the following the 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 Long	ems must be attached to the closure report. Please indicate, by a check itude NAD: ☐ 1927 ☐ 1983
25	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	e report is true, accurate and complete to the best of my knowledge and ements and conditions specified in the approved closure plan.
Name (Print). Anna Stotts	Title: Regulatory Analyst
Signature: Anna 7 15	Date:6/1/11
e-mail address: astotts@energen.com	Telephone: 505-324-4154



Requested Disposal Facility:	Bondard Landfill	ŀ	vvaste Pr	ONI HE TH
•	CO CALL CITY	}	WCA Sales Rep:	
i. Generator Informatio	ก	ľ	Date:	
Generator Name: Energ	en Resources	~		
Generator Site Address:	Carracas 10B#	id.	· · · · · · · · · · · · · · · · · · ·	
City: Carracas	County: Più Arriba		ate: NN	Zip:
State ID/Reg No:	State Approval/Waste Code		(if applicable)	SIC Code: \3\1
Generator Malling Address (if di		Place	(ii oppiioos)	10.0000.
City: Farminaton	County: San Thar		ite: NM	Zip: 87401
Generator Contact Name:	Fellie Campbell			
Phone Number: 505-3	524-4158	Fax	x Number: 505-32	24-4177
Ila. Transporter Informatio)A	· · ·	0.00000	
Transporter Name:	PE	Contact I	Name: BIVXVV	
Transporter Address:		1		
City: 12/12/02/2014	County:	State:	Zlp:	
Phone Number 5053303519	Fax Number:	State Tra	insportation Number:	
Ilb. Billing Information			· A · 11 · 1	
the same of the sa	CLIRCES	Contact I	Name: 1 15:11 VDC	he _
Billing Address: 2010 A 47	n flace	1_ 0=	dar 12	17K 70C/2
iny: farmington	State: NN	Zip: 87	Phone Numb	er: 505-325-618
III. Waste Stream Informa	tion, ()	1		
Name of Waste:	Cuttings,			
Process Generating Waste:	ul Cuttings tron	n clo	red Loupope	rations
of civiling a exas	MXII.			
\mathcal{O}			, , , , ,	
	TRIAL		,	
Type of Waste 🛱 INDU	SRITAL PROCESS WASTE	[" P	OLLUTION CONTROL W	ASTE
			- NOUS - OTIF	D .
Physical State: SOL	ID FSEMISOLID FP	OWDER	L'UQUID COTHE	R.
Method of Shipment: KBulk	. Drum Bagge	ed f. Of	her	
Estimated Annual Volume: Ct	JBIC YARDS: TONS:	GALL	ONS OTHER:	
Frequency: ONE TIME	T DAILY T WEEKLY	L. WONTH		
Special Handling Instructions:	LONE.			
D. D	Cardiffication			
IV. Representative Sample Is the representative sample collecte	d to prepare this profile and laborate	ory analysis.	TYES TNO	F NA
collected in accordance with U.S. H	PA 40 CFR 261.20(c) guidelines or	equivalent rul	los? T YES T NO	(14/1
ample Dațe: / -2010	Type of Sample: COMPOS	ITE SAMPLI	E C GRAB SAMPLE	
Laboratory: Envirotech	Se	ample ID Nu	mbers: 20110-00	
Sampler's Employer. Energe	in Resources		1/11/	
Sampler's Name (printed):		gnature:	MILLEAVIER	lell

		ł	YVAC	G FIGURE #							
Characteristic Com	voonents		% by Weight	(range)							
1 73)											
14											
5											
Color	Odor (describe)	Free Liquids YES OR XNO	% Solids	pH:	Flash Point						
brun/blk	none	Content %	100		•P						
Attach Laborator	Analytical Report (and/or l	Material Safety Data Sheet)	Including Requ	ired Parameters	Provided for this Profile						
Does this waste or Herbicides: Chlord 2,4,5-TP Silvex as	generating process contain re ane, Endrin, Heptachlor (and defined in 40 CFR 261,33?	gulated concentrations of the it epoxides), Lindane, Meth	e following Pesti oxychlor, Toxap	cides and/or hene, 2,4-D, or	EYES OR KNO						
Sulfide or Hydroge	Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfido or Hydrogen Cyanide as defined in 40 CFR 261.23?										
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?											
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.32, including RCRA F-Listed Solvents? Does this waste contain regulated concentrations of 2.3.7.8. Tetracklood ideas of 2.3.7.8. Te											
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?											
Is this a regulated T	EYES OR KNO										
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?											
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?											
' 's this waste genera	ted at a Federal Superfund Cl	lean Up Site?			EYES OR KNO						
-	characteristics of Was r Certification	to									
description of the Results/Material S utilizing this profil any waste which is from accepting by Our company here	at to the best of my knowledg waste material being offered lafety Data Sheets submitted a le, neither myself nor any oth s classified as toxic waste, has law. I shall immediately give by agrees to fully indemnify the. I further certify that the co	for disposal and all known of are truthful and complete an er employee of the company zardous waste or infectious e written notice of any chan this disposal facility against	r suspected haza d are representati will deliver for waste, or any oth go or condition p any damages res	rds have been dis- ive of the waste. I disposal or attemp or waste material ertaining to the w sulting from this c	closed. All Analytical further certify that by st to deliver for disposal this facility is prohibited aste not provided herein. ertification being						
10.	undersigned individual warra gradi Kellie 5 (un d Representative Name Ad	,	ų.		f the Generator. RESOURCES						
Authorize	d Representative Name A	nd Title (Printed)		6/23/20	ame						
THE	uthorized Representative S	Signature		Date							
VII. Waste Apr	roval Decision										
☐ Approved	□ Rejected			Expiration:							
Conditions:											
			·····								
	Name, Title		Signature		Date						

CLOSED-LOOP SYSTEM

Design Plan

The closed loop system will include a drying pad and sump to facilitate the collection of liquids derived from drill cuttings and an above ground steel holding tank suitable for generated cuttings and fluids during rig operations. The tank will be of sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1) Fencing is not required for an above ground closed-loop system.
- 2) The drying pad will be constructed by 6 inches of clay dirt over a 20-mil stringreinforced LLDPE liner to prevent infiltration of any draining liquid.
- 3) Run-off will be prevented from lined ditches on the perimeter of the drying pad.
- Berms will also be constructed on the outside perimeter to prevent run-on of water or fluids.
- 5) It will be signed in compliance with 19.15.3.103 NMAC.

Operating and Maintenance Plan

A modified steel tank will be operated and maintained; to contain liquids and drill cuttings, to aid in the prevention of contamination of fresh water sources, in order to protect public health and the environment. To attain this goal the following steps will be followed:

- The liquids in the closed-loop tank will be re-circulated through the mud system or vacuumed and disposed of at Envirotech (Permit Number NM-01-0011) or IEI/JFJ Landfarm (#NM-01-0010B) on a periodic basis to prevent over topping.
- 2) As drill solids are generated, a front-end loader removes the waste and will begin stacking it on a drying pad.
- 3) Small amounts of dirt or lime my added to aid in drying.
- 4) No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cuttings used or generated by rig operations will be placed or stored in the tank.
- 5) The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately.
- -6)—All-of-the-above-operations-will-be-inspected-and-a-log-will-be-signed-and-dated.—During rig operations the inspection will be daily.

Closure Plan

The closed loop holding tank will be closed in accordance with 19.15.17.13. To accomplish this, all cuttings on the drying pad and any remaining fluids in the holding tank will be hauled to **Envirotech** (Permit # NM-01-0011) or **IEI/JFL Landfarm** (# NM-01-0010B) immediately following rig operations. The tanks will be removed from location as part of the rig move, and stacked cuttings to a commercial disposal site mentioned above. The APD Conditions of Approval will be followed for cite reclamation.

Completion Plan

A.closed-loop tank will be set on location once drilling operations have ceased. The closed-loop tank will measure 20 ft height by 12 ft diameter (400 BBL) or 20 ft height by 10 ft 6 in diameter (300 BLL). It will be designed, operated, maintained and closed according to the attached Closed-loop Design Plan, Closed-loop Operating and Maintenance Plan, and Closed-loop Closure Plan.



TRACE METAL ANALYSIS

Arsenic Barium	0.006 74.8	0.001 0.001	
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	77 MA 114 7 4 4 4 4 7 10 8 7 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Condition:	Intact	Analysis Needed:	Total Metals
Preservative:	Cool	Date Digested:	06-15-10
Sample Matrix:	Soil	Date Analyzed:	06-15-10
Chain of Custody:	9646	Date Received:	06-11-10
Laboratory Number:	54745	Date Sampled:	06 -11- 10
Sample ID:	-061110-00	`Date Reported:	06 -1 7-10
Client:	Energen	Project #:	03022-0168

Cadmium 0.009 0.001 Chromium III 0.049 0.001 Copper 0.611 0.001 Lead 0.364 0.001 Mercury 0.005 0.001 Selenium ND 0.001 Silver ND 0.001 Zinc 1.51 0.001

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sedlments, Sludges and Soils.

SW-846, USEPA, December 1996.

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

Comments:

Carr 10 B #14

Analyst



BORON/NICKEL Hot Water Soluable

Client:	Energen	Project #:	03022-0168
Sample ID:	061110-00	Date Reported:	06-17-10
Laboratory Number:	547 4 5	Date Sampled:	06-11-10
Chain of Custody:	9646	Date Received:	06-11-10
Sample Matrix:	Soil	Date Analyzed:	06-15-10
Preservative.	Cool	Date Digested:	06-15-10
Condition:	Intact	Analysis Needed:	B/Ni - Hot Water Sol

	to and a second of the second	Det.
	Concentration	Limit
Parameter	(mg/Kg)	(mg/Kg)

Boron	ND	0.001
Nickel	ND	0.001

ND - Parameter not detected at the stated detection limit.

References:

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmission

Spectroscopy, SW-846, USEPA, December 1996.

Comments:

Carr 10 B #14

Analyst

CHAIN OF CUSTODY RECORD

09646

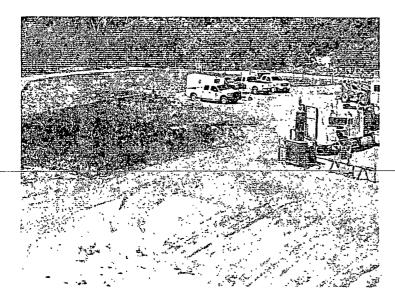
Client: CAGE Collect Address:	7	F	Project Name / I	ocatio	on:	<i>] ()</i>								ANAL	YSIS	/ PAR	AME	TERS				
	,		Sampler Name:	3	106# 111 V	sek	0		(8015)	BTEX (Method 8021)	1 8260)	als (LO	_		<u>م</u>							
Client Phone No.	-761	11	Olient No.:	ವಿ	- 016	8			TPH (Method 8015)	(Metho	VOC (Method 8260)	RCRA 8 Metals	Cation / Anlon		TCLP with H/P		TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
` Sample No./	Sample	Sample			Sample Matrix	No./Volume of Containers	-		TPH (BTEX	200	PCP.	Cation	IŽ.	TCLP	PAH	HAT.	CHLO			Samp	Samp
Identification 06/11/0-00	8/4/10	9:00	54745	Solid	Sludge Aqueous				<u> </u>			X									+	4
		<u> </u>		Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
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				Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
Relinguished by: (Signa	130	d U	all	,	6/11/10	Time 77, 79		Receive	XC	يلا	0 (X/	101	n	100		ر'	ار 11/ما	9/10	Tin 12:	1е 20
Relinquished by: (Signa	ature)						F	eceiv	ād by:	(Sign	ature)				,							
Relinquished by: (Signa	ature)						F	Receive	ed by:	(Sign	ature)	ļ										
that t	o Kel	re			0	env	aly	ytico	La	boro	ator	y										

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Here is a reclaimed picture of the Carracas 10B#14H. There was no visible sign of any fluid release upon removing the liner for the drying pad.

Bill vocke construction foreman ENERGEN RESC.

(505)330 2519





Daving Pad

-Pit-Inspection Log Sheet

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

Well Name: Carracas 10B	#14H API: 30 - 039	- 30840
Name (Print): Kerth Kerschians	Signature: Lee FILC	Date: 5 ~ 1/- / ()
Note Any Deficiencies: (700)		
Name (Print): Ke, 11, Kenschion	Signature: / Af / Ca	Date: <u>5~/ 2~/ ○</u>
Note Any Deficiencies: ルンルと		
Name (Print): Keith Kerschinn	Signature: / Late / Lat	Date: J-/3-//0
Note Any Deficiencies: 600	, <u>, , , , , , , , , , , , , , , , , , </u>	····
Name (Print): Richard Beattie	Signature: Richard Benetice	Date: 5 - 14 - 10
Note Any Deficiencies: Non/e		
Name (Print): Kichard Beattie	Signature: Blaked Benefitte	Date: 1/2 . 3 . 10
Note Any Deficiencies: None		
Name (Print): Elias Villa obos	Signature: Aix Villa 1878	Date: 5-17-10
Note Any Deficiencies: None		
Name (Print): Elias Villa bos	Signature: Shint Address of	Date: 5-18-10
Note Any Deficiencies: None		
Name (Print): Kerth Kerseliou.	Signature: Keth K	Date: 5-/9-/0
Note Any Deficiencies:		
Name (Print): 1)	Signature: Non T. Might	Date: 5-20-10
Note Any Deficiencies: Sellera Transe	y East side out side Diter	DRVP: 1
Name (Print): NICK Garan	Signature: MM Down	Date: 5-2110
Note Any Deficiencies: More Tears	on East side out side Di	Her Day Pit To
Name (Print): Nick Common	Signature: MM Deens	Date: 5-27-10
Note Any Deficiencies: Come and RePair		· · · · · · · · · · · · · · · · · · ·
Name (Print): Bichard Beattir	Signature: RUMM (Beattice	Date: 5-23-10
Note Any Deficiencies: OODA		
Name (Print): Don TRuillo	Signature: Non Just to	Date: 524-10
Note Any Deficiencies: Teak Re Den R	red Good	
Name (Print): Derreck Killon	Signature: Wuruck Kull	Date: 5-25-10
Note Any Deficiencies: Good	r 1	
Name (Print): Devreck E. Il-	Signature: Derreck Kell	Date: 5-26-10
Note Any Deficiencies: Cook		
Name (Print): Dovered Killa	Signature: Lined /	Date: 5-27-10
Note Any Deficiencies: Good	2,5	



Pit Inspection Log Sheet

Drying Pad

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

Well Name:	API:	
Name (Print): Ashley Van Landincher Signature: Om	n the succession	Date: 5-3/-/0
Note Any Deficiencies: 660 d	111 11	
Name (Print): ////////////////////////////////////	VARANE (1, ME	Date: 6-1-10
Note Any Deficiencies: 11 / Mary	/// ///	Mc · /
Name (Print): // AMAII / Signature: //	4/1/11/1 /01/11/1	Date: 6-1-10
Note Any Deficiencies:	1/11 11 .	
Name (Print): / //////////////////////////////////	VIMIL SHILL	Date: 63-10
Note Any Deficiencies: / iol //	111	
Name (Print): ////////////////////////////////////	INAAN LAN	Date: 4-4-10
Note Any Deficiencies:	1	
Name (Print): Hater Vm Lawringham Signature:	And V. Source	Date: 15-10
Note Any Deficiencies: Charling Say		
Name (Print): (+Shley Vm Landim Signature:	amen V. sobres	Date: (0 6 1D
Note Any Deficiencies: Con I (W YAW!	·	
Name (Print): Shown Picker II / Signature: &	formalioner all	Date: 10 - 7-10
Note Any Deficiencies: (acrod		<u> </u>
Name (Print): Shawn Picheril Signature: S	nam fisherall	Date: 6 - 8 - 10
Note Any Deficiencies: Crand	<u></u>	
Name (Print): Kerk Kershion Signature: Ke	the Q	Date: 6-5-19
Note Any Deficiencies: All Good		
Name (Print): he. Le Korshien Signature: Ko	The I	Date: 6-10-10
Note Any Deficiencies: 4,00 d	,	·
Name (Print): Signature:		Date:
Note Any Deficiencies:		
Name (Print): Signature:		Date:
Note Any Deficiencies:		
Name (Print): Signature:	<u> </u>	Date:
Note Any Deficiencies:	•	
Name (Print): Signature:		Date:
Note Any Deficiencies:		
Name (Print): Signature:		Date:
Note Any Deficiencies:		<u>, , , , , , , , , , , , , , , , , , , </u>

ATTH! Vick

ENERGEN R E S O U R C E S

Pit Inspection Log Sheet

Drying Pad

(daily while rig is on-site, then weekly as long as liquids remain in the pit) Well Name: CALCACAS API: 30-039-30840 14 4 Date: 6/18/0 RON HAYNES Name (Print): Signature: Note Any Deficiencies: RON HAUNES 121/12 Name (Print): Signature: Date: Note Any Deficiencies: ROW HAYNES Name (Print): Signature: Date: 6 122110 Note Any Deficiencies: RON HAYNES Name (Print): Signature: Date: Note Any Deficiencies: 6114119 Name (Print): 1300 Signature: Date: 294 VAH Note Any Deficiencies: RON HAINES Name (Print): Signature: Date: Note Any Deficiencies: 6128111 KON HAVNET Signature: Name (Print): Date: Note Any Deficiencies: 29110 Name (Print): Signature: Date: CSHVAH Note Any Deficiencies: BON HRYDES 6130/10 Name (Print): Signature: Date: Note Any Deficiencies: 71110 Name (Print): 1200 HAYDES Signature: Date: Note Any Deficiencies: BOD HAYNER diffil Name (Print): Signature: Date: Note Any Deficiencies: 7112110 130 M 734VBF1 Name (Print): Signature: Date: Note Any Deficiencies: 13/18 Name (Print): 254 VAH Signature: Date: Note Any Deficiencies: 01/41/ 1902 Name (Print): LAVNES Signature: Date: Note Any Deficiencies: 12 Name (Print): ZIGVAH Signature: Date: Note Any Deficiencies: 7/1610 12000 HAYARS Name (Print): Signature: Date: Note Any Deficiencies:

P.1/1



Pit Inspection Log Sheet

Drying Pad

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

Well Name: CAILACHS 18 B	194	API: 30-039 - 30840
Name (Print): Roa HAYNZ	Signature: 🔾	on House Date: 7/17/10
Note Any Deficiencies:		9
Name (Print): Ron HAYNES	Signature: 🤍	lan Hayer Date: 7/18/10
Note Any Deficiencies:		
Name (Print): ROD HAYDES	Signature: 🦠	Rom January Date: 7/19/10
Note Any Deficiencies:		3
Name (Print): Roo Hayats	Signature: 🔾	on Yearne Date: 7/20/10
Note Any Deficiencies.		
Name (Print): Row HAYDES	Signature.	How Thanks Date: 7/2/1/6
Note Any Deficiencies:		<u> </u>
Name (Print): HON HAYNES	Signature:	1 on House Date: 7/22/10
Note Any Deficiencies:		
Name (Print). RON HAMPES	Signature:	Row Hours Date: 71 23/10
Note Any Deficiencies:		<u> </u>
Name (Print): RON HAYNES	Signature:	Law Hoyne Date: 7/26/10
Note Any Deficiencies:		
Name (Print): ROD Haynes	Signature:	love Hayen Date: 7/27/10
Note Any Deficiencies:		
Name (Print)	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies.		
Name (Print).	Signature:	Date:
Note Any Deficiencies:		
Name (Print).	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		