District 1.
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.

20	79
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## 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

Please be advised that approval of this request does not relieve the operator of his	rindividual pit, closed-loop system, below-grade tank or alternative request liability should operations result in pollution of surface water, ground water or the mply 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: Jicarilla 96 #4B	
API Number: 30-039-30153	OCD Permit Number:
	26N Range 03W County: Rio Arriba
Center of Proposed Design: Latitude 36.51551	Longitude107.09220 NAD: ☐1927 🗷 1983
Surface Owner:   Federal   State   Private   Tribal Trust or Inc.	dian Allotment
☐ String-Reinforced	LLDPE HDPE PVC Other  Volume: bbl Dimensions: L x W x D
intent)	r Drilling (Applies to activities which require prior approval of a permit or notice of  Other
Liner Seams: Welded Factory Other	
Tank Construction material:  Secondary containment with leak detection Visible sidewalls	s, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other  Liner type. Thickness mil ☐ LLDPE☐ H	
S 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)		
Institution or churchy  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  Marthly importions (If not in a paragraphic is not physically faceible)		
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 Bur	roon office for	
consideration of approval.	eau 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 applice or may be considered an exception which must be 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		
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		
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		
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site		
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division		
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No	
Within a 100-year floodplain.	☐ Yes ☐ No	

Page 2 of 5

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   Previously Approved Design (attach copy of design)   API 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 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 19.15.17.11 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 Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify 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:		1
Disposal Facility Name: Disposal Facility Permit Number:		I
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 open Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Subset Plan - ba	priate requirements of Subsection H of 19.15.17.13 NMA ection I of 19.15.17.13 NMAC	.C
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 Environ and/or demonstrations of equivalency are required. Please refer to 19.15.17.	the closure plan. Recommendations of acceptable soun equire administrative approval from the appropriate dist nmental Bureau office for consideration of approval. Ju	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	1	☐ 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
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 si		☐ 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 that 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 as		Yes No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map;		Yes No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-N	lining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Good 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 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 19.15.17.13 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 H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC		

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:	
OCD Approval: Permit Application (including closure plan) Closure  OCD Representative Signature:  OCD P	Pl <del>an (only)</del> OCD Conditions (see attachment)  Approval Date: 1/12/2012.  ermit 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 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: 06/06/09		
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure If different from approved plan, please explain.	ure Method	
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Instructions: Please indentify the facility or facilities for where the liquids, drilling fluthan two facilities were utilized.  Disposal Facility Name:	uids 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 or in areas that will not be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below)		
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		
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  36.51551 Longitude 107.09220 NAD: 1927		
25		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements a		
Name (Print): Vicki Donaghey	Title: Regulatory Analyst	
Signature: WCKi. MWQKkky	Date: 8.18.09	
e-mail address: vdonaghe@energen.com	Telephone:505-324-4136	



#### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0001
Sample ID:	Reserve Pit	Date Reported:	06-03-09
Laboratory Number:	50328	Date Sampled:	06-01-09
Chain of Custody No:	7156	Date Received:	06-01-09
Sample Matrix:	Sludge	Date Extracted:	06-01-09
Preservative:	Cool	Date Analyzed:	06-02-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.9	0.2
Diesel Range (C10 - C28)	13.3	0.1
Total Petroleum Hydrocarbons	19.2	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:

5796 US Highway 64, Farmington, NM 87401

Jicarilla 96 #4B

Analyst

Review

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



#### **EPA METHOD 8021** AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	Reserve Pit	Date Reported:	06-03-09
Laboratory Number:	50328	Date Sampled:	06-01-09
Chain of Custody:	7156	Date Received:	06-01-09
Sample Matrix:	Sludge	Date Analyzed:	06-02-09
Preservative:	Cool	Date Extracted:	06-01-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	1.0	0.9	
Toluene	13.5	1.0	
Ethylbenzene	2.9	1.0	
p,m-Xylene	27.2	1.2	
o-Xylene	6.5	0.9	
Total BTEX	51.1		•

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
N and the second	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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:

Jicarilla 96 #4B

Analyst



#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0001
Sample ID:	Reserve Pit	Date Reported:	06-04-09
Laboratory Number:	50328	Date Sampled:	06-01-09
Chain of Custody No:	7156	Date Received:	06-01-09
Sample Matrix:	Sludge	Date Extracted:	06-02-09
Preservative:	Cool	Date Analyzed:	06-02-09
Condition:	Intact	Analysis Needed:	TPH-418.1

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

**Total Petroleum Hydrocarbons** 

172

13.0

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:

Jicarilla 96 #4B.

Analyst

Review



#### Chloride

03022-0001 Client: Energen Project #: Reserve Pit Date Reported: 06-04-09 Sample ID: Date Sampled: Lab ID#: 50328 06-01-09 Sample Matrix: Sludge Date Received: 06-01-09 Preservative: Cool Date Analyzed: 06-02-09 Condition: Intact Chain of Custody: 7156

Concentration (mg/Kg) **Parameter** 

**Total Chloride** 

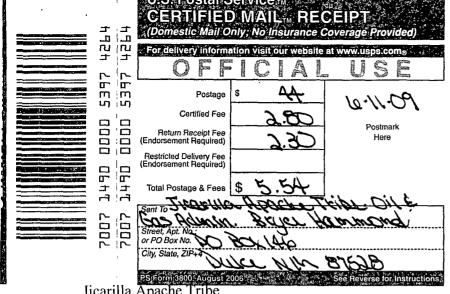
70

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:

Jicarilla 96 #4B.



Jicarilla Apache Tribe
Oil & Gas Administration
Attn: Bryce Hammond
P.O. Box 146
Dulce, NM 87528

Subject: Reserve Pit In-Place Closure
Jicarilla 96 #4B

#### Dear Sir or Madam:

Energen Resources plans to close a reserve pit located on the subject well location. You are on record as the surface owner where this well is located and the New Mexico Oil Conservation Division (NMOCD) rules require notification to the surface owner of our plans to close the reserve pit. NMOCD rules and guidelines will be followed. The well is located in Unit Letter G, Section 01, Township 26N, Range 03W in Rio Arriba County, New Mexico.

If there are any questions or concerns, please contact me at 505.324.4136.

Sincerely, ENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. □ Agent Print your name and address on the reverse ☐ Addres so that we can return the card to you. B. Received by (Printed Name) C. Date of Deliv Vicki Donaghey Attach this card to the back of the mailpiece, Regulatory Analys or on the front if space permits. D. Is delivery address different from item 1? ☐ Yes Energen Resources If YES, enter delivery address below: Service Type Well File Cc: Certified Mail ☐ Express Mail □ Registered ☐ Return Receipt for Merchan ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes 2. Article Number 7007 1490 0000 5397 4264 (Transfer from service label) PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M

#### PIT CLOSURE NOTIFICATION:

EMAIL NOTIFICATION TO OCD REGARDING PIT CLOSURE WAS NOT SUBMITTED BECAUSE OF CONFUSION ON THE PART OF THE DIRT CONTRACTOR (A-Z CONTRACTORS).

ENERGEN RESOURCES WILL COMPLY ON FUTURE PIT CLOSURES.

Well Name: <u>Treasilla 9 % #48</u>
API#: 30.039-30153
Location: G-800, TaleN, ADBLO
Closure Date: Ob. Ob. O9

## Well Name: JKOKIKO 96 #48

#### **Reserve Pit - Final Closure Report:**

The pit was closed with in-place burial. The surface owner was notified by certified mail. The OCD was notified at least 72 hours and not more than one week prior to the pit closing. The following process was used to close the pit:

- 1) All free standing fluids were removed and the liner was cut off at the mudline.
- 2) The contents were solidified to a bearing capacity sufficient to support the final cover. This was accomplished by mixing the contents with soil at a mixing ratio no greater then 3:1 soil to contents.
- 3) Sampling was done by collecting a five-point composite sample of the contents after stabilization. The sample was analyzed for the following components;

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000

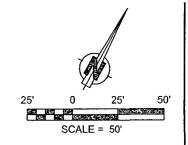
- 4) The analyses demonstrated that the stabilized contents were under the limits listed above. The contents were covered with compacted non-waste containing earthen material to three feet.
- 5) After the stabilized contents were covered, the stockpiled topsoil was replaced to a depth of one foot. Topsoil cover was graded to prevent ponding of water and erosion of the cover material. This was accomplished within six months of rig release.
- 6) The disturbed area not needed for operations was seeded or planted the first growing season after closing the pit. Seed was drilled on the contour whenever practical or by other division-approved methods. The goal is to obtain vegetative cover that equals 70% of the native cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass but not including noxious weeds. Cover will be maintained through two successive growing seasons. During the two growing seasons that prove viability there shall be no artificial irrigation of the vegetation. Seeding or planting will continue until the required cover is reached. If conditions are not favorable to establishment of vegetation due to periods of drought or similar problems then the Aztec office of the OCD will be notified. The Aztec office of the OCD will also be notified when the disturbed ground successfully achieves revegetation.
- 7) A steel marker no less then four inches in diameter was cemented in a hole three feet deep in the center of the onsite burial. The top of this marker was flush with the ground with a threaded collar for future abandonment use to allow access of the pad and for safety concerns. On top of this marker, a steel

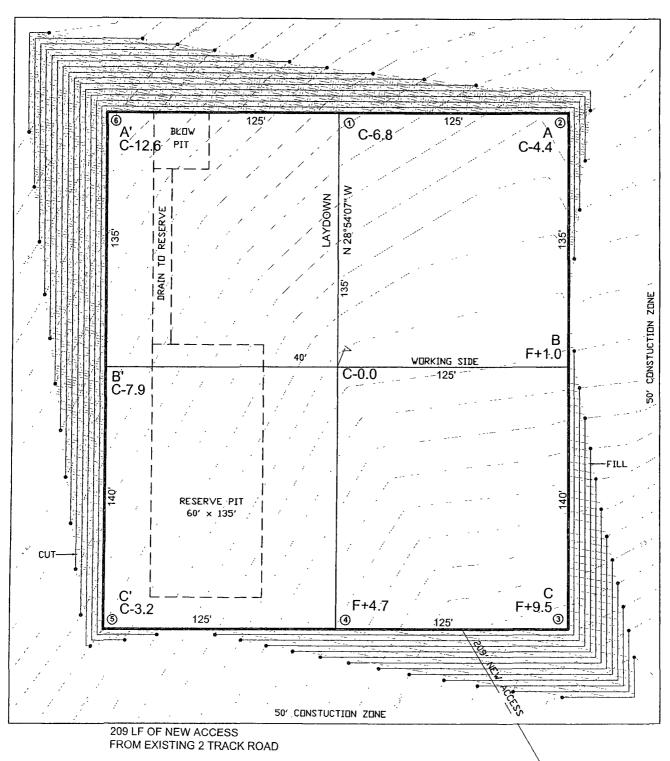
12 inch square plate indicating onsite burial was intermittent welded to the top of the collar to allow easy removal at time of the well being abandoned. Once all wells on the pad are abandoned a four foot tall riser will be threaded into the top of the marker and circumferential welded around the base with; operator name, lease name, well name and number, unit number, section, township and rage, and a designation that it is an onsite burial location.

LATITUDE: 36.51569°N LONGITUDE: 107.09200°W DATUM: NAD 83

## ENERGEN RESOURCES CORPORATION

JICARILLA 96 #4B
2500' FNL & 1420' FEL
LOCATED IN THE SW/4 NE/4 OF
SECTION 1, T26N, R3W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7138', NAVD 88
FINISHED PAD ELEVATION: 7137.7', NAVD 88





FOOT CONTOUR INTERVAL SHOWN

CALE: 1" = 50' OB No.: ERG134 ATE: 08/25/06

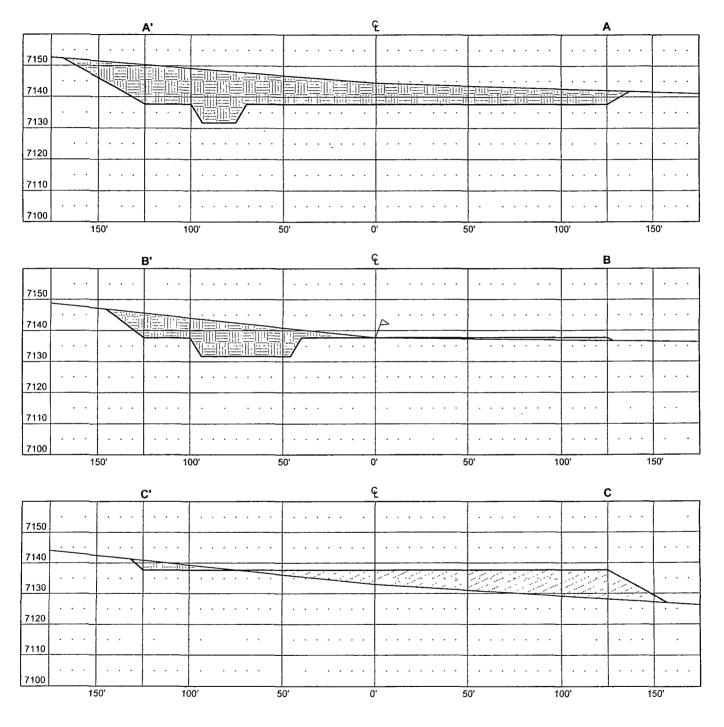


Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637

### ENET TEN RESOURCES CORPORATION

JICARILLA 96 #4B
2500' FNL & 1420' FEL
LOCATED IN THE SW/4 NE/4 OF
SECTION 1, T26N, R3W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7138', NAVD 88

FINISHED PAD ELEVATION: 7137,7', NAVD 88



ERT. SCALE: 1" = 30' ORZ. SCALE: 1" = 50' OB No.: ERG134 ATE: 08/25/06



RS

Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637



SICARIALA 96 * MB P	it Inspection Log	g Sheet	30-039-30153
Well Name: CARRACAS 21		API:	<del>30-039-304</del> 73
Name (Print): TWENTHERFORD	Signature:	herfers	Date: 12/31/2008
Comments: GOOD SHAPE - F	ULL SNOW		, ,
Name (Print): J. WEATHERFORD	Signature:	alus!	Date: //01/2009
Comments: OK	Now	/	,
Name (Print) T. WEATHER FOAL	Signature:	Westerla	Date: / / 2/09
Comments: OK	SNOW	0	
Name (Print): WEATHERFORD	Signature: Allend	trentar	Date: 1/3/09
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Name (Print): T, WEATHERFORD	Signature:	harans	Date: 1/4/09
Comments: OK			
Name (Print): J. WEATHERFORD	Signature:	Thofas	Date: 1/5/09
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Name (Print): X WEATHERFOR	Signature:	Majur	Date: //6/09
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Name (Print): T. WEATHERFORD	Signature:	thefer	Date: 1/7/09
Comments: OK			
Name (Print): J. WEATHERFORD	Signature:	Thater!	Date: //8/09
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Name (Print): J. WEATHERFORD	Signature:	Marton	Bate: 1/12 / 09
Comments: OK			
Name (Print): WESTHEAFORD	Signature:	heghers	Date: ///3 / 0 9
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Name (Print): J. WEATHERFORD	Signature:	hetrio	Date: //14/09
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## **Pit Inspection Log Sheet**

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

Well Name: Jicarilla 96- #4B	Α	PI: 30-039-	30/53
Name (Print): Gary Donashey	Signature: Say L	hen .	Date: 4-10-2009
Note Any Deficiencies: None			
Name (Print): GARY Donaghey	Signature: Sam L	loghey	Date: 4-/4-09
Note Any Deficiencies: pon t		0	
Name (Print): GARY Donag hey	Signature: Say h	Jantey	Date: 4-15-09
Note Any Deficiencies: wme		0/	
Name (Print): GALY Donas Key	Signature: Sans K	Syken	Date: 4-16-09
Note Any Deficiencies:			
Name (Print): GARY Donas key	Signature: Sam A	Inghey	Date: 4-17-09
Note Any Deficiencies: nme			
Name (Print): GANY Drughey	Signature: Sang K	Onkey	Date: 4-18-09
Note Any Deficiencies.		0 /	
Name (Print): CARy Donag hey	Signature: Sany	enter	Date: 4-30-09
Note Any Deficiencies: None			
Name (Print): 6 Any Donaghey	Signature: Sang &	Paghey	Date: 5-1-09
Note Any Deficiencies: عدود		0 /	
Name (Print): GANY Donaghey	Signature: Say	Toskey	Date: 5-2-09
Note Any Deficiencies: None		0 /	
Name (Print): GARy Donashey	Signature: Sary L	Oughey	Date: 5-3-09
Note Any Deficiencies: Albe			
Name (Print): GARy Donaghry	Signature: Sany	enfrey	Date: 5-4-09
Note Any Deficiencies:		0	
Name (Print): Gary Drughey	Signature: Sany	respens	Date: 5-5-09
Note Any Deficiencies:			
Name (Print): Cary Doney Lay	Signature: Sang A	lighen	Date: 5-6-09
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Name (Print): 6 My Doney hey	Signature: Saray	alozhang	Date: 5-7-09
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Name (Print):	Signature:		Date:
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Name (Print):	Signature:		Date:
Note Any Deficiencies:			

Residence   Corpetition   Policy   Carl	Pit Inspection Log Sheet							
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Name (Print): Very Kignature: Very Signature:	Well Name:	licavilla 96 # 4	β <sub>Λ</sub> API #:	j				
Name (Print):   Print   Prin		Jerry Kirk Signature:	Pry L. Dat	e: 4-6-09				
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Name (Print):	Name (Print):	Penny Kink Signature:	Date Date	e: 4 -27-09				
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Submit to Appropriate I Five Copies	District Offi	ice	'		ate of Ne					**				]	Form C-105
District I	LLa NIM O	9240	Energy, Minerals and Natural Resources						July 17, 2008						
1625 N French Dr , Ho District II								1. WEL	L A	PI NO					
1301 W Grand Avenue, Artesia, NM 88210						OIL CONSERVATION DIVISION 30-039-30153									
District III. 1000 Rio Brazos Rd , Aztec, NM 87410 1220 South St. Francis Dr.							M		2. Type	Of I	Lease				
District IV										$\square$ S'	ГАТ	E $\square$	FEE	E 🚹 F1	ED/INDIAN
1220 S St Francis Dr , Santa Fe, NM 87505 Santa Fe, NM 87505								3. State Oil & Gas Lease No.							
WELL CO	WELL COMPLETION OR RECOMPLETION REPORT AND LOG									Marie da	****			Seminaria de la composição	
4 Reason for filing.										5. Lease N	Vame	or Unit	Agree	ement Na	ime
COMPLETIC	ON REPO	ORT (Fill in b	oxes #1	through #31 fo	or State and F	ee wells	only)			Jica	ril	la 96			
C-144 CLOS #33, attach this and t	URE ATT	TACHMENT the C-144 clos	(Fill in sure rep	boxes #1 throu ort in accordan	igh #9, #15 D ice with 19.15	ate Rig R 5 17 13.K	eleased ai NMAC)	nd #32	and/or	6. Well N		г			
9 Type of Completi		WORKOVER		EEPENING [		CV $\square$	DIEEED	ENIT	RESERVO	OIR X	ЭТНЕ	7D ~	-i+	closur	~
8 Name of Operator		WORKOVEK		DEEFENING L	FLUGBA	ick 🗀	DIFFER	ENII	CESERV	9 OGRI		<del>-</del>	<u> </u>	CIOSUL	<u>e</u>
Energen Reso	ources	Corporati	ion						_	16	2928	3			
10 Address of Oper	ator									11 Pool	name	e or Wil	dcat		
2010 Afton 1		Farmingt	ton,	NM 87401								<u>lesave</u>	-		То .
	t Letter	Section		Township	Range	Lot		Feet f	rom the	N/S Line	Fee	et from t	the E	/W Line	County
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13 Date Spudded	14 Da	ate T D. Reach	ned		07/09				· ` `	Ready to Pro		F	RT, Gl	R, etc)	(DF & RKB,
18. Total Measured	Depth of	Well		19 Plug Bac	k Measured I	Depth	20. W	as Dire	ectional S	urvey Made		21. Ty	pe Ele	ectric and	d Other Logs Run
22 Producing Interv	ral(s), of t	his completior	ı - Top,	Bottom, Name	:		-						,		
23.				CASING R	ECORD	(Repor	t all str	ings	set in	well)					··
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26. Perforation reco	ord (interv	al, size, and n	umber)				27. ACI DEPTH			ACTURE					TC. AL USED
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Date First Production	ı 	Product	tion Me	thod (Flowing	g, gas lift, pun	npıng - Sız	ze and typ	e pumj 	D) 			Well	Status	S(Prod o	or Shut-ın)
Date of Test	Но	urs Tested	(	Choke Size	Prod'n For Test Perio		oil - Bbl		Gas - M	icf '	Water	- Bbl		Gas - C	Dil Ratio
			Calculated 24- Hour Rate	Oil - Bbl.		Gas - N	Gas - MCF Wate		ter - Bbl		Oil Gravity - API -(Corr)		Corr)		
29 Disposition of G	as (Sold,	used for fuel,	vented,	etc.)			L ,			30	. Test	Witnes	sed B	у	
31. List Attachments	3														
32 If a temporary p	 it was use	d at the well, a	attach a	plat with the lo	ocation of the	temporar	y pıt.			-					
33. If an on-site burn	al was us	ed at the well,	report	the exact locati	on of the on-s	_	36.5155	51	Long	itude	107	. 09220		NAD:	1927 <b>X</b> 1983
I hereby certify the	at the inf	ormation sho	own øn		this form is										
Signature \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		word	X	Printe Name	1	Vicki I	Donaghe	Y	Tit	le Regui	lato	ry Ar	alys	st Date	07/02/09
E-mail address		vdonaghe@	eværg	en.com											

# COVER PAGE

ENERGEN RESOURCES 2010 AFTON PLACE FARMINGTON NM 87401

OGRID # 162928

WELL NAME	JICARILLA 96 4B	<u></u>
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API	30-039-30153	
PERMIT _	3909	
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MISSING	C102/PHOTOS	
		AND

## ali Dr., Hobbs, N.M. 88240

## State of New Mexico rgy, Minerals & Natural Resources Departmen'

Form C-102 Revised August 15, 2000

Wouth First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brezos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

31 Mich IV 340 South Pache	co, Santa	Fe, NM 87506	;						L	AMEN	DED REPOR		
		V	VELL L	OCATIO:	N AND A	CREAGE DEL	ICAT	ION PI	LAT				
	Number	:a		Pool Code	15316	*Pool Name MESA VERDE							
Property Co	- <del> </del>	<sup>6</sup> Property Name							li Number				
916133											48		
OGRID No					*Operato	or Name				9	Elevation		
109998				ENERG	EN RESOUR	CES CORPORATION	4				7138'		
					10 Surfac	e Location							
UL or lot no. G	Section 1	Township 26N	Range 3W	Lot Idn	Feet from the 2500'	North/South line	1	from the 420'	East/Wes		County RIO ARRIBA		
		<u> </u>	11 Botte	om Hole	Location	If Different Fr	rom S	urface	· · · · · · · · · · · · · · · · · · ·				
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10 Dedicated Acre	8		is Joint or	lafii)	14 Consolidatio	n Code	15 Ord	er No.	<u> </u>	······································	<u> </u>		
313.54	Acres -	(E/2)											
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		OR A N	ION-STA	NDARD I	JNIT HAS	BEEN APPROVE	D BY	THE DIV	NOISIN				
		N 90.00		LAT. 36.5 LONG. 10	1569' N 17.09200' W	15.2	55' (M) 9AS 78' (R)	Signature Devision Signature Devision Printed Devision Printed Date 16 SI i hareby con was platted and correct A Date of Signature of S	Name  CONG  URVEYO  To the best to the bes	TENO.  OR CER  well locations and to fing basis of actual so the second			
						SECTION 1. SP CALC SECTION 12	(015'26" E 585.09' (M)	2	JIDH.	RUSSE	rsrell T		

SW CORNER SECTION 6 T-26-N, R-2-W, N.M.P.M. FND 2" BC GLO 1916

Certificate Number

10201

