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.

E	9	Q	8

## 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: Jicarilla 152W #4N
API Number: 30-039-30123 OCD Permit Number:
U/L or Qtr/Qtr M Section 05 Township 26N Range 05W County Rio Arriba
Center of Proposed Design: Latitude
Surface Owner: Federal State Private X Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: 🗷 Drilling 🔲 Workover
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
3
Closed-loop System: Subsection H of 19 15 17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Liner Scams: Welded Factory Other Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other RECEIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: bbl Type of fluid:  Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: ThicknessmilLLDPE HDPE PVCOther
5
The Albert Albert Andrews Albert Andrews Albert Andrews Albert Andrews Albert Andrews

**△** 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		
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		
9		
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 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 application of the 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 dry above-grade tanks associated with a closed-loop system.	propriate district f 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 FEMA map	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: (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 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 Grown Instructions: Please indentify the facility or facilities for the disposal of liquid facilities are required.	ls, drilling fluids and drill cuttings Use attachment if more	e'than two
sposal 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 operations?  Yes (If yes, please provide the information below)  No	es occur on or in areas that will not be used for future serv	rice and
Required for impacted areas which will not be used for future service and oper  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsestie Re-vegetation Plan - based upon the appropriate requirements of Subsestie Reclamation Plan - based upon the appropriate requirements of Su	priate requirements of Subsection H of 19.15.17.13 NMA setion I of 19.15.17.13 NMAC	VC
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 re be 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
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
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 other lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed sit		Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or che - 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 approximation		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-M	lining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Ge 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 by a check mark in the box, that the documents are attached.	of the following items must be attached to the closure pla	an. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate re Proof of Surface Owner Notice - based upon the appropriate requirements of 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 Usaste Material Sampling Plan - 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 pad) - based upon the appropriate requirements of 19.15.17.13 NMAC equirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC of Idrill 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, accurate a	nd complete to the best of my knowledge and belief.	
ame (Print): Title:		
Signature:		
e-mail address:	Telephone:	
	re Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature:	Approval Date: <u>//2/2012</u>	
	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 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.		
<u> </u>	Closure Completion Date: 07/01/09	
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.		
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.  Disposal Facility Name:		
Disposal Facility 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		
24		
Closure Report Attachment Checklist: Instructions. Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.		
Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)		
☐ Plot Plan (for on-site closures and temporary pits) ☐ Confirmation Sampling Analytical Results (if applicable)		
▼ Waste Material Sampling Analytical Results (required for on-site closure)     □ Disposal Facility Name and Permit Number		
Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation) On-site Closure Location Latitude 36.51242 Longitude	107.38791 NAD. ☐ 1927 🗵 1983	
25		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure repobleief. I also certify that the closure complies with all applicable closure requirement		
Name (Print): Vicki Donaghey	Title: Regulatory Analyst	
Signature: West Images	Date:	
e-mail address: vdonache@energen.com	Telephone: 505-324-4136	



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

Client:	Energen	Project #:	03022-0001
Sample ID:	Jicarilla 152W #4N	Date Reported:	05-21-09
Laboratory Number:	50105	Date Sampled:	05-15-09
Chain of Custody No:	7078	Date Received:	05-15-09
Sample Matrix:	Sludge	Date Extracted:	05-19-09
Preservative:	Cool	Date Analyzed:	05-19-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	19.3	0.2
Diesel Range (C10 - C28)	16.9	0.1
Total Petroleum Hydrocarbons	36.2	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:

**Reserve Pits** 

Analyst

Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Engrann	Decision of the	02022 0004
Chefft.	Energen	Project #:	03022-0001
Sample ID:	Jicarilla 152W #4N	Date Reported:	05-21-09
Laboratory Number:	50105	Date Sampled:	05-15-09
Chain of Custody:	7078	Date Received:	05-15-09
Sample Matrix:	Sludge	Date Analyzed:	05-19-09
Preservative:	Cool	Date Extracted:	05-19-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	27.5	0.9	
Toluene	282	1.0	
Ethylbenzene	77.5	1.0	
p,m-Xylene	751	1.2	
o-Xylene	230	0.9	
Total BTEX	1,370		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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:

**Reserve Pits** 

Analyst

Review

#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0001
Sample ID:	Jicarilla 152W #4N	Date Reported:	05-21-09
Laboratory Number:	50105	Date Sampled:	05-15-09
Chain of Custody No:	7078	Date Received:	05-15-09
Sample Matrix:	Sludge	Date Extracted:	05-20-09
Preservative:	Cool	Date Analyzed:	05-20-09
Condition:	Intact	Analysis Needed:	TPH-418.1

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

**Total Petroleum Hydrocarbons** 

517

10.3

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:

Reserve Pits.

Analyst

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



#### Chloride

Client:	Energen	Project #:	03022-0001
Sample ID:	Jicarilla 152W #4N	Date Reported:	05-21-09
Lab ID#:	50105	Date Sampled:	05-15-09
Sample Matrix:	Sludge	Date Received:	05-15-09
Preservative:	Cool	Date Analyzed:	05-19-09
Condition:	Intact	Chain of Custody:	7078

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

25

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:

Reserve Pits.

Analyst



June 1, 2009

Certified Mail: 0000 5397 4257

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

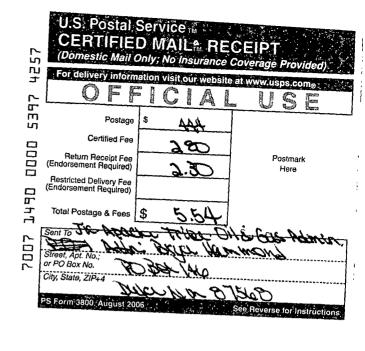
Subject: Reserve Pit In-Place Closure Jicarilla 152W #4N

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 M, Section 05, Township 26N, Range 05W in Rio Arriba County, New Mexico.

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

Sincerely, SENDER: COMPLETE THIS SECTION Vicki I Complete items 1, 2, and 3. Also complete Regula 🗖 Agent item 4 if Restricted Delivery is desired. Energe Print your name and address on the reverse ☐ Addrossos so that we can return the card to you. Attach this card to the back of the malipiece, or on the front if space permits. D. Is delivery address different from Item 1? ☐ Yes 1. Article Addressed to: If YES, enter delivery address below: dist a coal Sites Sites of. Cc: COS Elminis GOS Albri Brith Warming W 188.0.9 3. Service Type BULL MIN 87868 Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ C.O.D. ☐ Insured Mail 4. Restricted Delivery? (Extra Fee) ☐ Yes Energen: 2. Article Number 7007 1490 0000 5397 4257 (Transfer from service label, PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540



From: stacey armenta [mailto:jjjstaci@yahoo.com]

**Sent:** Monday, June 22, 2009 11:12 AM

**To:** Powell, Brandon, EMNRD **Subject:** Jic Apache 152W#4N

A&Z Contracting will begin work on the Jicarilla Apache 152W#4N on 06/24/2009 New Mexico One Call ticket #2009260396 copy available if needed Please contact Diana @ A&Z Contracting 505-330-9929 or email jjjstaci@yahoo.com if questions THANKS Diana

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

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all

## Well Name: TKOKWK 152W #4M

#### 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

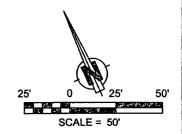
- 4) The analyses demonstrated that the stabilized contents were under the limits listed above. The contents were covered with compacted non-waste containing earthen material to three feet.
- 5) After the stabilized contents were covered, the stockpiled topsoil was replaced to a depth of one foot. Topsoil 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

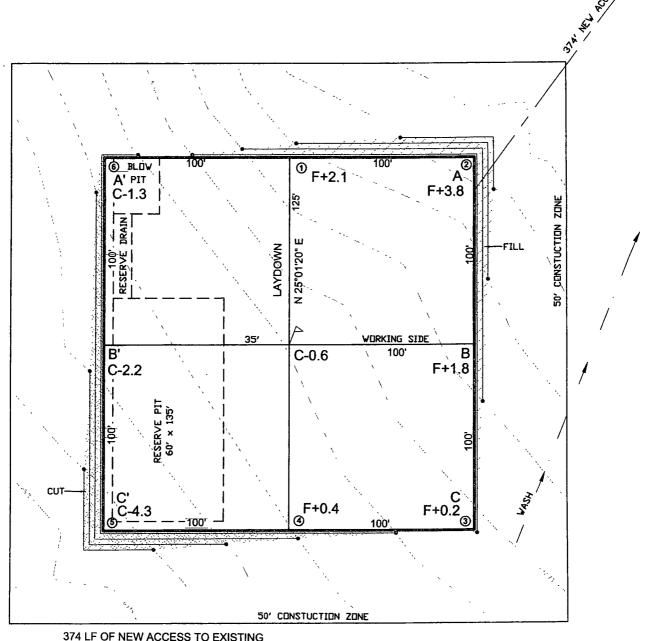
12 inch square plate indicating onsite burial was intermittent welded to the top of the collar to allow easy removal at time of the well being abandoned. Once all wells on the pad are abandoned a four foot tall riser will be threaded into the top of the marker and circumferential welded around the base 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: 36.51235°N L'ONGITUDE: 107.38770°W DATUM: NAD 83

## ENF GEN RESOURCES CORPORATION

JICARILLA 152W #4N
1130' FSL & 1100' FWL
LOCATED IN THE SW/4 SW/4 OF
SECTION 5, T26N, R5W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6571', NAVD 88
FINISHED PAD ELEVATION: 6570.4', NAVD 88





ERC - JICARILLA 152W #4 WELL PAD

1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG140 DATE: 11/22/06; REV1

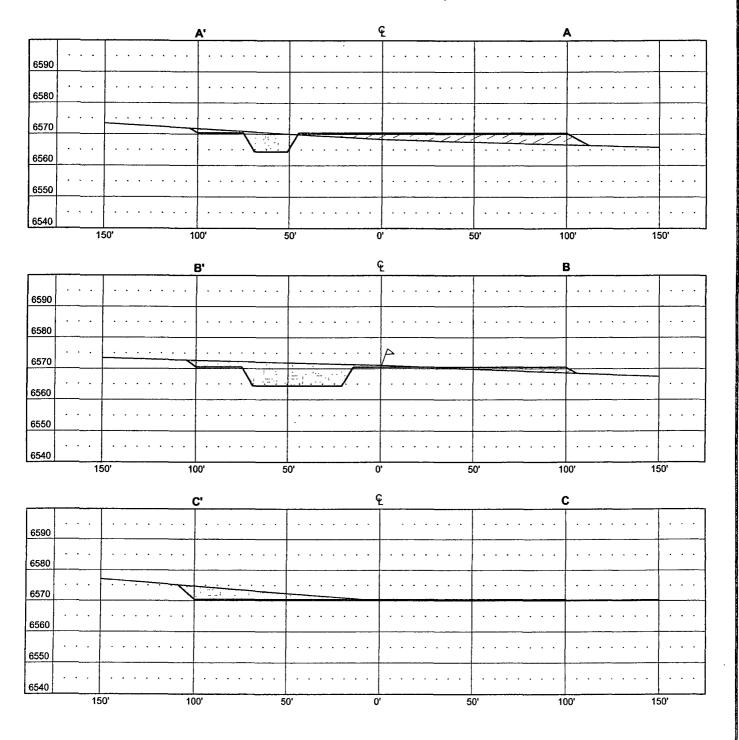


Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637

### ENE GEN RESOURCES CORPORATIO

JICARILLA 152W #4N
1130' FSL & 1100' FWL
LOCATED IN THE SW/4 SW/4 OF
SECTION 5, T26N, R5W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6571', NAVD 88

FINISHED PAD ELEVATION: 6570.4', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERG140 DATE: 11/22/06; REV1





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

Pit	Inspection Log S	heet
37	Energen Resources Corperation	
Well Name: Juriel / A	152W 44N APK#:	
Name (Print) HER A. Twilt	Signature:	Date: /p/3/ 2000
Name (Print): OHES A Touch	Signature But	Date: //// 7008
Name (Print): CHAIS A Twick	Signature line all	Date: 11/2/2000
Name (Print): CHES A. Twidt	Signature Charles	Date: 11/3-7008
Nama (Drint): 1	Signature:	Date: 1/4 1/- 2003
Name (Print) Eithers A. Twist		Date: 1.1-3-208
Name (Print) / / / / / / / / / / / / / / / / / / /		Date: 11-6 - 208
Name (Print): Ches A. Tw. D		Date: 11-7- Zaki 8'
Name (Print) Citters 4 Traco		Date: /1-8-200 8
Name (Print): CHRISA . Touch	Signature:	Date: 12 9 : - 7008
Name (Print) The A Twist		Date: 14-10 = 20015
Name (Print): Colles a Two it	Signature:	Date: 11-11 = 2008
Name (Print): CHEO A TWO	Signature: Alun at	Date: 1/-/2-2008
Name (Print) Chan A Tonot	Signature: Office of host	Date. 11-13 - 2012
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Name (Print) Ares & Twill	Signature:	Date: 11-17-2008
Name (Print) Ches & Turde	Signature: Thin Cotton	Date: // 8 . 2008
Name (Print): (Ikeis 4 Twicks	Signature: Mun () fast	Date. 11-19 - 2008
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Name (Print): Quay A To 2=	Signature:	Date: 11-22 -2008
Name (Print) Closes + Two Do	Signature: Chu A	Date: 11-23 2005
Name (Print) They A Think	Signature:	Date: 11-24 - 20 - 3
Name (Print): CHWIS ATWA	Signature /	Date: 1/-25 2003
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## **Pit Inspection Log Sheet**

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

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R E	SOURCES API 30-039-3012.
Tre 152W47	B 6/2/9
BIVY	B.A. Com
	6/3/9
BIUY	BRIVE
	61419
BIV	BR. Durg
Tiè 152 w 471	6/5/9
BJUY	B.R. Lung
JIC 152 W 47	6/8/9
BIUY	BRJUT
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BIV	B. K. Joy
J, U 152 W 47	6/10/9
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Bruy	BKLIT
Jic (52 W47)	6/13/9
Bir	Bk. Jury

#### **Pit Inspection Log Sheet Energen Resources Corperation** Dicavilla 150W #4N Well Name: **API #:** Name (Print): Dervy Signature: Date: 4-20-04 Kirk Name (Print): Signature: Date: irk 09 Name (Print): 1 Signature: Date: 4~09 Name (Print): Signature: Date: 11-04 Name (Print): Signature: Date: evrink 19-0 Signature: Name (Print): Date: 210-04 CVV in k Signature: Name (Print): Date: 8-09 000 'n Signature: Name (Print): 09 Date: Sin K Name (Print): Lerry Signature: Date: 1-09 irk Name (Print): Signature: Date: closed erri KivK 09 Signature: Name (Print): Date: Name (Print): Signature: Date: Signature: Name (Print): Date: Name (Print): Signature: Daté: Name (Print): Signature: Date: Name (Print): Signature: Date: Name (Print): Signature: Date: Name (Print): Signature: Date: Signature: Name (Print): Date: Name (Print): Signature: Date: Date: Name (Print): Signature: Name (Print): Signature: Date: Signature: Name (Print): Date:

Submit to Appropriate District Office State of New Mexico Form C-105 Five Copies Energy, Minerals and Natural Resources July 17, 2008 District I 1625 N French Dr , Hobbs, NM 88240 1. WELL API NO. District II 1301 W Grand Avenue, Artesia, NM 88210 30-039-30123 OIL CONSERVATION DIVISION District III 2. Type Of Lease 1000 Rio Brazos Rd, Aztec, NM 87410 1220 South St. Francis Dr. 🗌 STATE 🔲 FEE 🔀 FED/INDIAN District IV Santa Fe, NM 87505 1220 S St. Francis Dr , Santa Fe, NM 87505 3. State Oil & Gas Lease No. WELL COMPLETION OR RECOMPLETION REPORT AND LOG 4 Reason for filing 5 Lease Name or Unit Agreement Name COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) Jicarilla 152W 6. Well Number C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19 15 17.13 K NMAC) # 4N Type of Completion □ NEW WELL □ WORKOVER □ DEEPENING □ PLUGBACK □ DIFFERENT RESERVOIR X OTHER pit closure 8. Name of Operator 9. OGRID Number Energen Resources Corporation 11. Pool name or Wildcat 10. Address of Operator 2010 Afton Place, Farmington NM 87401 Mesaverde/Dakota 12 Location Unit Letter Township N/S Line | Feet from the | E/W Line County Section Range Lot Feet from the Surface вн 13. Date Spudded 14 Date T D Reached 15 Date Rig Released 16 Date Completed (Ready to Produce) 17 Elevations (DF & RKB, RT, GR, etc) 06/11/09 18 Total Measured Depth of Well 20. Was Directional Survey Made 21. Type Electric and Other Logs Run 19. Plug Back Measured Depth 22 Producing Interval(s), of this completion - Top, Bottom, Name 23 CASING RECORD (Report all strings set in well) WEIGHT LB./FT HOLE SIZE CEMENTING RECORD AMOUNT PULLED CASING SIZE **DEPTH SET** 25 TUBING RECORD 24 LINER RECORD TOP **BOTTOM** SACKS CEMENT **SCREEN** SIZE **DEPTH SET** PACKER SET SIZE 26. Perforation record (interval, size, and number) 27. ACID, SHOT, FRACTURE, CEMENT, SQEEZE, ETC. **DEPTH INTERVAL** AMOUNT AND KIND MATERIAL USED **PRODUCTION** 28 Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in) Oil - Bbl. Gas - MCF Water - Bbl Gas - Oil Ratio Date of Test Hours Tested Choke Size Prod'n For Calculated 24-Gas - MCF Water - Bbl Oil Gravity - API -(Corr.) Oil - Bbl Flow Tubing Casing Pressure Hour Rate Press 29 Disposition of Gas (Sold, used for fuel, vented, etc.) 30 Test Witnessed By 31 List Attachments 32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit 33 If an on-site burial was used at the well, report the exact location of the on-site burial. 36.51242 Latitude Longitude 107.38791 NAD: 1927 X 1983 I hereby ceptify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Signature \\\C Printed Regulatory Analyst Date 07/16/09 Vicki Donaghey Name E-mail address

# **COVER PAGE**

ENERGEN RESOURCES 2010 AFTON PLACE FARMINGTON NM 87401

OGRID # 162928

WELL NAME	Jicarilla 152W 4N	-
API _	30-039-30123	_
PERMIT _	3968	_
Missing CI	102 + PHOTOS	

State of New Mexico
Energy, Minerals & Natural Resources Department

FORM C-1UG Revised August 15, 2000

.a First, Artesia, N.M. 88210

STRICT III
1000 Rio Brazos 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

DISTRICT IV

16

2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEBICATION

	"DEED DOOLLITOT! IH!D	Itolianton basionilion 1 aut			
<sup>1</sup> API Number	<sup>2</sup> Pool Code	RECEIVE Pool Name			
		Pool Code  RECEIVE Pool Name  070 FARMIMESA VERDE/D			
<sup>4</sup> Property Code	<sup>5</sup> Pro	perty Name	<sup>6</sup> Well Number		
		RILLA 152W	4N		
OGRID No.	*Ope	crator Name	<sup>9</sup> Elevation		
	ENERGEN RESC	OURCES CORPORATION	6571'		

<sup>10</sup> Surface Location

ſ	UL or lot no.	Section	Township	Range	Lot Idn	Peet from the	North/South line	Feet from the	East/West line	County
	M	5	26N	5W		1130'	SOUTH	1100'	WEST	RIO ARRIBA

<sup>11</sup> Bottom Hole Location If Different From Surface

							JIII		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
is Dedicated Acres 319,61 329-45 A		(W/2)	15 Joint or	infill	"Consolidation C	ode	<sup>15</sup> Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

PMD-3 1//4" BC. SLM-1957	S 89°53'05" E	5454.52' (M) 5454.24' (R)	. FND 3 1/4° 80 BLM 1957
4	3	2	1
			, ,
		5+-	
			-
	JICARILLA 152W #4 O LAT. 36.51235 N LONG. 107.38770 W		(
<u>.</u>	DATUM (NAD 1983)		
ALC'D ORNER	S 89'17'44" E	5454.92' (M-CLOSURE) 5276.70' (R)	CALC'I CORNEI

ADED HAD CODDING MAN
17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and beltef
Signature
Nathan Smith Printed Name
Drilling Engineer
11/28/06 Date  18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true
and correct to the best of my belief.
NOVEMBER 18, 2006
• • •
NOVEMBER 18, 2006

10201

Certificate Number

