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 Service property Property of the Service property Property of the Service property of

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

20	
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Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Proposed Alternative Method P	erinit of Closure Pian Application	~
Modification to an existing pe	ystem, below-grade tank, or proposed alternative rmit or an existing permitted or non-permitted pit, clo	method
Instructions: Please submit one application (Form C-144) per in	dividual pit, closed-loop system, below-grade tank or	alternative request
Please be advised that approval of this request does not relieve the operator of liab environment. Nor does approval relieve the operator of its responsibility to compl	ility should operations result in pollution of surface water, gr y with any other applicable governmental authority's rules, r	ound water or the egulations or ordinances.
Operator Energen Resources Corporation	OGRID #: 162928	
Address: 2010 Afton Place, Farmington, NM 87401	OGRID#	
7 W 450		
API Number:30-039-30121		· · · · · · · · · · · · · · · · · · ·
U/L or Qtr/QtrK Section 28 Township		
Center of Proposed Design. Latitude 36.45605	•	
Surface Owner: Federal State Private Tribal Trust or India	-	
2		
Pit: Subsection F or G of 19.15.17.11 NMAC		
Temporary: 🗷 Drilling 🗌 Workover		
Permanent Emergency Cavitation P&A		
Lined Unlined Liner type: Thicknessmil LL	DPE HDPE PVC Other	
☐ String-Reinforced		
Liner Seams: Welded Factory Other	Volume: bbl Dimensions: L	x Wx D
3		
Closed-loop System: Subsection H of 19.15.17.11 NMAC		
Type of Operation: P&A Drilling a new well Workover or D	rilling (Applies to activities which require prior appro	val of a permit or notice of
intent) .		4.
Drying Pad Above Ground Steel Tanks Haul-off Bins	<u> </u>	8192021223
Lined Unlined Liner type: Thickness mil		2 2
Liner Seams: Welded Factory Other	/ % _ D	ECFIVED B
4	, (6)	AUS 2009
Below-grade tank: Subsection I of 19.15.17.11 NMAC	12	2000 2000 2007 2
Volume: bbl Type of fluid:	اله ق	CONS. DIV. DIST. 3
Tank Construction material:		,,,, 50/
☐ Secondary containment with leak detection ☐ Visible sidewalls, li	ner, 6-inch lift and automatic overflow shut-off	153426
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _		
Liner type: Thicknessmil LLDPE HDI		
5		
☐ Alternative Method:		
Submittal of an exception request is required. Exceptions must be submit	itted 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 (Requiréd 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)		
8 Signs: Subsection C of 19.15.17.11 NMAC		
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
☐ Signed in compliance with 19.15.3.103 NMAC		
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. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	reau office for	
10		
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of the second provided and 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	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 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit 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: above ground steel tanks or haul-off bins and propose to implement waste removal for closure) (Applies only to closed-loop system that use
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 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:		
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may required be considered an exception which must be submitted to the Santa Fe Environment and/or demonstrations of equivalency are required. Please refer to 19.15.17.10	ire administrative approval from the appropriate disti ental 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; D	ata 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; D	ata obtained from nearby wells	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; D	ata obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	gnificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or churc - Visual inspection (certification) of the proposed site; Aerial photo; Satell		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written appre	·	Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vis	sual 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-Mini	ng and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geold Society; Topographic map	ogy & 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		

Page 4 of 5

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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.		
20		
OCD Approval: Permit Application (including closure plan) Closu		
OCD Representative Signature:	Approval Date: 1/12/2012	
Title: Compliance Office OCD	Permit Number:	
Closure Report (required within 60 days of closure completion): Subsection K of Instructions: Operators are required to obtain an approved closure plan prior to im report. The closure report is required to be submitted to the division within 60 days complete this section of the form until an approved closure plan has been obtained to	plementing any closure activities and submitting the closure of the completion of the closure activities. Please do not and the closure activities have been completed.	
	Closure Completion Date:05/27/09	
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure If different from approved plan, please explain.	osure Method	
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: Dispo	sal Facility Permit Number:	
Were the closed-loop system operations and associated activities performed on or in a Yes (If yes, please demonstrate compliance to the items below) [5] No	reas that will not be used for future service and operations?	
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique		
24		
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) 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 36.45605 Longitude 107.15255 NAD 1927 1983		
25		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print): Vicki Donaghey	Title: Regulatory Analyst	
Signature: With Towas Year	Date: 8-18-09	
e-mail address: vdonaghe@energen.eom	Telephone: 505.324.4136	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0001
Sample ID:	Jicarilla 117E #5C	Date Reported:	05-21-09
Laboratory Number:	50104	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)	19.5	0.2
Diesel Range (C10 - C28)	64.0	0.1
Total Petroleum Hydrocarbons	83.5	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

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:	Jicarilla 117E #5C	Date Reported:	05-21-09
Laboratory Number:	50104	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)
Dangana	0.7	0.0
Benzene Toluene	6.7	0.9
Ethylbenzene	83.5 42.2	1.0 1.0
p,m-Xylene	402	1.2
o-Xylene	137	0.9
Total BTEX	671	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	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:

Reserve Pits

Analyst

Mustrum Walter

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0001
Sample ID:	Jicarilla 117E #5C	Date Reported:	05-21-09
Laboratory Number:	50104	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 2,070

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

Review



Chloride

Client: Energen Project #: 03022-0001 Sample ID: Jicarilla 117E #5C Date Reported: 05-21-09 Lab ID#: 50104 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

95

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

Christia, Milaetes Beview



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 117E #5C

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 K, Section 28, Township 26N, Range 03W in Rio Arriba County, New Mexico.

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

Vickit

Sincerely,

Vicki I Regula Energe

Cc:

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X
1. Article Addressed to: Tractive Apare Tribe Ole Cas Almine tration Hun' Bryse Van mod	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
DATE TIME SPORE	3. Service Type Certified Mail
2. Article Number 7007 1490	0000 5397 4257
PS Form 3811, February 2004 Domestic Re	eturn Receipt 102595-02-M-1540

Energen I

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: JUQUIUQ 117E *5

API#: 30-039.30121

Location: K-Sac 28, T 210N, RO3W

Closure Date: 05.27.09

Well Name: Travilla 117E 45C

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;

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

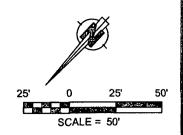
- 4) The analyses demonstrated that the stabilized contents were under the limits listed above. The contents were covered with compacted non-waste containing earthen material to three feet.
- 5) After the stabilized contents were covered, the stockpiled topsoil was replaced to a depth of one foot. Topsoil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

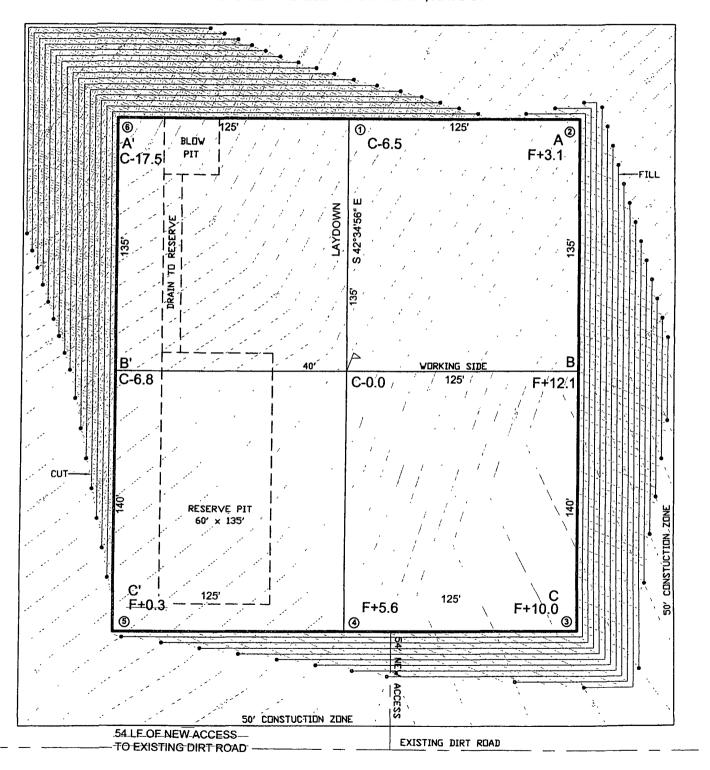
12 inch square plate indicating onsite burial was intermittent welded to the top of the collar to allow easy removal at time of the well being abandoned. Once all wells on the pad are abandoned a four foot tall riser will be threaded into the top of the marker and circumferential welded around the base 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: 36.45594°N LONGITUDE: 107.15267°W DATUM: NAD 83

ENERGEN RESOURCES CORPORATION

JICARILLA 117E #5C 2060' FSL & 1950' FWL LOCATED IN THE NE/4 SW/4 OF SECTION 28, T26N, R3W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 7275', NAVD 88 FINISHED PAD ELEVATION: 7274.7', NAVD 88





I FOOT CONTOUR INTERVAL SHOWN

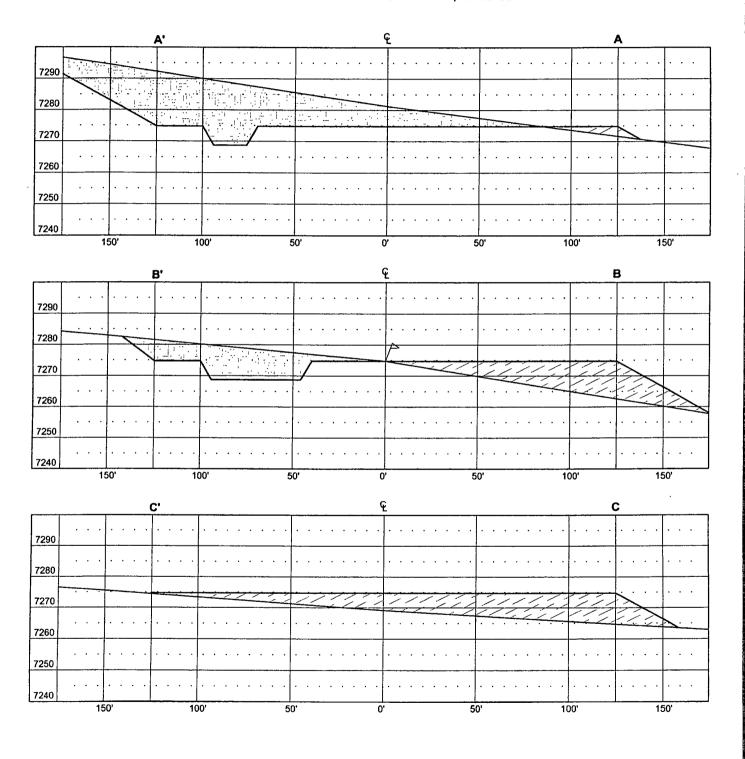
SCALE: 1" = 50' JOB No.: ERG139 DATE: 09/08/06



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

ENERGEN RESOURCES CORPORATION

JICARILLA 117E #5C
2060' FSL & 1950' FWL
LOCATED IN THE NE/4 SW/4 OF
SECTION 28, T26N, R3W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7275', NAVD 88
FINISHED PAD ELEVATION: 7274.7', NAVD 88



'ERT. SCALE: 1" = 30' IORZ. SCALE: 1" = 50' IOB No.: ERG139 DATE: 09/08/06





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



PITCHECK

Comments: J/CA/A/AAA //7/	#BC BI	PI 30-039-30121
Name (Print): T. WEATHER FORD	Signature: Meatherfund	Date: //14/2009
Comments: OK, SNOW IN	PITO	
Name (Print): J. WENTHERFOR	Signature: A Menthers	Date: ///5/2009
Comments: OK		
Name (Print) . WEATHERFORD	Signature: Msathunda	Date: 1/16/2009
Comments: OK		
Name (Print): I Swearinger	Signature:	-Date: 1/17/09
Comments: OK		1
Name (Print): WEATHERFOR	/Signature:	Date: 1/18/09
Comments: OK		
Name (Print): TWEATHERFORD	Signature Menthyshul	Date: //19/09
Comments: OK		
Name (Print) Y WEATHEAFARD	Signature Mescherly	Date: 1/20/09
Comments: OK		
Name (Print): TWENTHEMFORD	Signature Minimum	Date: 1/2//04
Comments: OK		
Name (Print): Richard MonToVa	Signature: Ruch	Date: /-22-09
Comments: OK		
Name (Print): Richard Montale	Signature. Lun	Date: 1-23-09
Comments:	<u> </u>	
Name (Print): Richard MONTOVA	Signature: Kinha / mg	Date: 1-24-09
Comments: OK		
Name (Print): Richard MonToya	Signature: Kuchan Man	Date: /-25-09
Comments: Richard MONTOKa	\cdot \boldsymbol{D} \boldsymbol{I} \boldsymbol{I}	1-26-09
Name (Print): TWEATHENFORD	Signature:	Date: 1/27/09
Comments: OK		
Name (Print):	Signature:	Date:
Comments:		
Name (Print):	Signature:	Date:
Comments:		
Name (Print):	Signature:	Date:
Comments:		
Name (Print):	Signature:	Date:
Comments:		



Pit Inspection Log Sheet

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

Well Name: Joarilla 117		API: 30-0	039 = 30121
Name (Print): BT	Signature: *	BR. Son	Date: 4//7/9
Note Any Deficiencies:			
Name (Print): BLuy	Signature:	B.E. Juga	Date: 4/20/9
Note Any Deficiencies:			
Name (Print): B I sy	Signature:	A. R. Long	Date: 4/a1/9
Note Any Deficiencies:			
Name (Print): BAV	Signature:	B. L. Duy	Date: 4/2ス(プ
Note Any Deficiencies:		7	
Name (Print): BLOY	Signature:	Bely	Date: 4/23/9
Note Any Deficiencies:			
Name (Print): 3 Fuy	Signature:	B. L. dwg	Date: 4/24/9
Note Any Deficiencies:		7	
Name (Print): B Ivy	Signature:	3.R, Jerg	Date: 4/27/9
Note Any Deficiencies:)	
Name (Print): B Tuy	Signature:	Be Se	Date: 4/28/9
Note Any Deficiencies:		7	
Name (Print): BF 04	Signature:	BR JUT	Date: 4/ 29/ 9
Note Any Deficiencies:			
Name (Print): B Tuy	Signature:	Bt Serge	Date: 4/30(°C
Note Any Deficiencies:	···	1	
Name (Print): B Tuy	Signature:	Be Luy	Date: 5///9
Note Any Deficiencies:			
Name (Print): B Toy	Signature:	Rt. Juny	Date: 5/4/9
Note Any Deficiencies:		V	
Name (Print): B Tuy	Signature:	BE. Loy	Date: <u> </u>
Note Any Deficiencies:		V	
Name (Print): ルヌーエッタ	Signature:	The long	Date: 5/6/9
Note Any Deficiencies:		٧	
Name (Print): B.T. J.y	Signature:	B.k duy	Date: 5/7/9
Note Any Deficiencies:		-	
Name (Print): B Zvy	Signature:	BR. Lux	Date: 518/9
Note Any Deficiencies:			

Pit Inspection Log Sheet Energen Resources Corperation

Well Name: Jicavilla	1178 # 5 C AP	
		Date: 3-2-09
		Date: 3-9-09
Name (Print): Perny Kink		Date: 3-16-09
Name (Print): Perny Kink		Date: 3-23-09
Name (Print): Perry Kirk		Date: 4-6-09
Name (Print): - term Kink		Date: 4-13-09
Name (Print): Penny King	وفالوالينا الإشافة والوالد فالبالزم والأراب	Date: 4 - 20 - 0 9
Name (Print): Very Kirk	Signature:	Date: 4-27-09
Name (Print): Yevry Kink		Date: 5-4-09
Name (Print): Jenny Kin		9 Date: 5-11-09
Name (Print): Dervy Kin		9 Date: 5-19-09
Name (Print): Your Kin		9 Date: 5-27-09
Name (Print):	Signature:	Date:
Name (Print):	Signature:	Daté:
Name (Print):	Signature:	Date:
name (Filly.	Signature.	Date.

Submit to Appropriate District Office Five Copies District I 1625 N French Dr., Hobbs, NM 88240				State of New Mexico Energy, Minerals and Natural Resources					Form C-105 July 17, 2008 1. WELL API NO.									
District II 1301 W Grand Avenue, Artesia, NM 88210 District III. 1000 Rio Brazos Rd , Aztec, NM 87410 District IV. 1220 S St. Francis Dr , Santa Fe, NM 87505					OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505						1. WELL API NO. 30-039-30121 2. Type Of Lease STATE FEE FED/INDIAN 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 117E							
Z 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) 6. Well Number # 5C																		
9. Type of Com	ipletion WELL [⊐ w	ORKOVER		DEEPENING [☐ PLUGB	аск 🗆] DII	FFER	ENT F	RESERVO	OIR X	OTH	HER	pit	c clo	sure	:
8. Name of Ope												9. OGR			·			
Energen 1 10. Address of		es (Corporati	on_								11. Poc	5292 I nar		Vildea			
2010 Aft	=	æ,	Farmingt	on,	NM 87401							1		Mes				
12 Location	Unit Lett	ter	Section		Township	Range	Lo	t		Feet f	rom the	N/S Line	F	eet fro	m the	E/W	Line	County
Surface.										<u> </u>		ļ						
BH· 13. Date Spudd	ed 14	. Dat	e T.D. Reach	ed	15. Date Rig	 Released 5/08/09	, I	10	6 Da	ate Cor	npleted (l	Ready to P	rodu	ce)		Elevat GR, et		OF & RKB,
18. Total Meas	ured Depth	of W	/ell		19 Plug Bac		Depth	20	0 W	as Dire	ectional S	urvey Mad	le	21.	Type	Electri	c and	Other Logs Run
22. Producing I	nterval(s),	of th	is completion	- Top,	, Bottom, Name	:								1				
23.					CASING R	ECORD	(Reno	rt al	l str	ings	set in v	vell)					-	•
CASING :	SIZE	V	WEIGHT LB		DEPTH			LE S				EMENTI	NG R	RECOF	RD		AMO	UNT PULLED
																		
		<u> </u>			<u> </u>													
	·	- 					ļ									+		
		 					ļ									+		
24.				LIN	J IER RECOR	.D	ŀ				25.	<u> </u>	TUE	BING	REC	CORE)	
SIZE	TC)P			TOM	SACKS CE	EMENT		SCREEN SIZ						DEPTH SET PACKER			PACKER SET
								<u> </u>						4			_	
26. Perforation	record (ir	nterva	al size and n	ımber)				27	ΔC	ID SI-	OT FR	ACTURI	- CI	T	JT SO)FF7	F FT	<u> </u>
20. Terroration	1100014 (11	itel vu	ii, size, und iii		,					INTE								L USED
								\vdash										
								\vdash										<u>-</u>
28.						PR	ODUC	TIC	N									
Date First Produ	iction		Product	ion Me	ethod (Flowing	g, gas lıft, pu	mping - S	ize ar	nd typ	e pumį	p)			W	ell Sta	tus (Pr	od. or	Shut-ın)
Date of Test		Hou	rs Tested	(Choke Size	Prod'n Fo Test Peri		Oil - I	3bl.		Gas - M	CF	Wat	er - Bb	ol .	Ga	as - Oi	l Ratio
Flow Tubing Press		Cası	ing Pressure		Calculated 24- Hour Rate	Oil - Bbl		Ga	Gas - MCF Wa		Wa	iter - Bbl		Oil Gravity - API -(Corr.)		'orr.)		
29. Disposition	of Gas (S	Sold, 1	used for fuel,	vented	, etc)	1	4					3	0 Te	st Witu	nessed	Ву		
31. List Attach	ments		······································								··· =							
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: Latitude 36.45605 Longitude 107.15255 NAD: 1927 X 1983																		
I hereby certi		info	ormation sho		n both sides of Print	f this form i	is true ar	id co	mple	te to t	he best o	of my kno	vled	ge and	d beli	ef		
E-mail address vdonaghe@energen.com Vicki Donaghey Title Regulatory Analyst Date 07/02/09																		

OIL CONS. DIV.

DIST. 3

COVER PAGE

ENERGEN RESOURCES 2010 AFTON PLACE FARMINGTON NM 87401

OGRID # 162928

WELL NAME	Jicanlla 117E 5C	
	76 276 70121	
API _	30-039 - 30121	
PERMIT _	3907	
(MISSING C	102 CLOSURE PHOTO/STEEL 1	MARKER)
	,	,
PLEAS	E SEE ATTACHED	

ench Dr., Hobbs, N.M. 88240

State of New Mexico rgy, Minerals & Natural Resources Departmen

Form C-102 Revised August 15, 2000

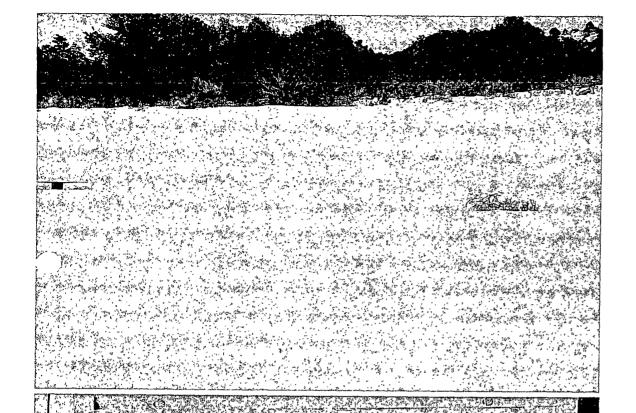
II Juli First, Artesia, N.M. 88210 JULI III JULI Brezos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

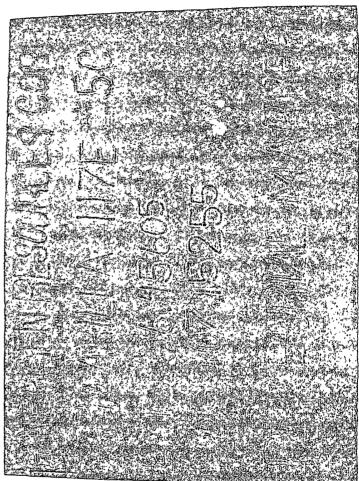
DISTRICT IV
2040 South Pacheco Sente Fe NW 87506

☐ AMENDED REPORT

2040 South Pach	sco, banca			OCATIO	N AND A	CREAGE DED	CATIO	ON PL	ΔT				
1	Number	Pool Code SPool Name NAN MESA VERDE											
30-03 Property C		191		19910	ME	SA VERI	DE	6 He	ell Number				
2/0/43									5C				
OGRID No	<u>, </u>				⁰ Operator		·······	^a Elevation					
1690	\mathscr{A}_{ℓ}			ENERG	EN RESOURC	ES CORPORATION					7275'		
	¹⁰ Surface Location												
UL or lot no.				Lot Idn	Feet from the	North/South line	Feet fro		East/We		County		
K	28	26N	3W		2060'	SOUTH	L	50'	WE	ST	RIO ARRIBA		
117	T 0 - 1/2 -			om Hole		If Different From 15 15 15 15 15 15 15 15 15 15 15 15 15			D. 1 0		1		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Leef IL	om the	East./We	est une	County		
IR Dedicated Acre	.1 es	.1	¹⁵ Joint or	lofill	14 Consolidation	Code	15 Order	No.	l		<u> </u>		
320.56	Acres -	(W/2)											
NO ALLOW	ABLE W	TILL BE A	SSIGNEI	TO THI	S COMPLET	ION UNTIL ALL	INTER	ESTS E	IAVE B	EEN CO	NSOLIDATEI		
						EEN APPROVED							
CALC'D. CORNER				- 28 —			;	I hereby of is true as belief Signatur Printed Date 18 SI I hereby certous plotted and correct	Name New York that the from field from the best	the information to the best	ETIFICATION on shown on this pual surveys made by that the same is tru		
N 0'11'09" E	1950	20080		LONG. DATUM	6.45594" N 107.15267" W (NAD 1983) 			Date of S Signature	and Scal	OR. RUS OR. RUS OR. RUS OFESSIONS RUSSEL	nel Surveyor:		
CALC'D . CORNER	N 89*56	16" E		52	88.91' (M)		CALC'D ORNER	Certificate	Number		10201		







· Alexander