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

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

Proposed Atternative 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 119N #8M								
API Number 30-039-31024 OCD Permit Number								
U/L or Qtr/Qtr K Section 08 Township 26N Range 04W County Rio Arriba								
Center of Proposed Design Latitude 36.50050 N Longitude 107.27918 W NAD 1927 1983								
Surface Owner. Federal State Private Tribal Trust or Indian Allotment								
2								
Temporary Drilling Workover OIL CONS. DIV.								
Permanent Emergency Cavitation P&A								
X Lined Unlined Liner type Thickness 20 mil X LLDPE HDPE PVC Other								
X String-Reinforced								
Liner Seams. Welded X Factory Other Volume 1500 bbl Dimensions L 155 x W 85 x D 10								
3								
Closed-loop System: Subsection H of 19 15 17 11 NMAC								
Type of Operation P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of								
intent)								
□ Drying Pad □ Above Ground Steel Tanks □ Haul-off Bins □ Other □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □								
Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other								
Liner Seams Welded Factory Other								
4								
Below-grade_tank Subsection I of 19 15 17 11 NMAC								
Volume bbl Type of fluid								
Tank Construction material								
Secondary containment with leak detection Usible sidewalls, liner, 6-inch lift and automatic overflow shut-off								
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other								
Liner type. Thicknessmil LLDPE HDPE PVC Other								
5								
☐ 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, scholarstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	ool, hospital,
Netting Subsection E of 19 15 17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19 15 17 11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19 15 3 103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Burconsideration of approval Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	reau office for
Siting Criteria (regarding permitting) 19 15 17 10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the ap office 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 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	Yes No
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						
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 Leak Detection 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 Cupality 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 \[\mathbb{Z} \] Drilling \[\mathbb{Z} \] Workover \[\mathbb{E} \] Emergency \[\mathbb{C} \] Cavitation \[\mathbb{P} \] P&A \[\mathbb{P} \] Permanent Pit \[\mathbb{B} \] Below-grade Tank \[\mathbb{C} \] Closed-loop System Alternative Proposed Closure Method \[\mathbb{M} \] Waste Excavation and Removal \[\mathbb{M} \] Waste Removal (Closed-loop systems only) \[\mathbb{Z} \] On-site Closure Method (Only for temporary pits and closed-loop systems) \[\mathbb{Z} \] In-place Burial \[\mathbb{M} \] On-site Trench Burial \[\mathbb{M} \] 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 On Instructions Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings Use facilities are required	e attachment if more than two					
Disposal Facility Name Disposal Facility Permit Number						
Disposal Facility Name Disposal Facility Permit Number		•				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below)						
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection Hoo Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC	f 19 15 17 13 NMAC					
Siting Criteria (regarding on-site closure methods only. 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations provided below. Requests regarding changes to certain siting criteria may require administrative approval from the be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for considerational/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	he appropriate district office or ma	ıy				
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes 👿 No ☐ NA					
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	Yes 🔀 No					
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ☑ No ☐ NA					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, so lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	ınkhole, or playa 🔲 Yes 🕱 No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial a Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	application Yes 🗷 No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for dom watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of it. NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site.	nitial application	1				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a munication 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	e proposed site					
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, N Society, Topographic map	NM Geological ☐ Yes ☒ No	ı				
Within a 100-year floodplain - FEMA map	☐ Yes 🗷 No	1				
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions Each of the following items must be attached by a check mark in the box, that the documents are attached	d to the closure plan Please indicat	te,				
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 13 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 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 1 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 closur. 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 G of 19 15 17 13 NMAC	11 NMAC urrements of 19.15 17 11 NMAC 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 of the Compliance OCD Police OCD	Plan (only)				
Closure Report (required within 60 days of closure completion) Subsection K of 19 Instructions: Operators are required to obtain an approved closure plan prior to implereport. The closure report is required to be submitted to the division within 60 days of complete this section of the form until an approved closure plan has been obtained and	ementing any closure activities and submitting the closure the completion of the closure activities. Please do not				
22	0/5/11				
Closure Method Waste Excavation and Removal Con-Site Closure Method Alternative Closure If different from approved plan, please explain	re Method Waste Removal (Closed-loop systems only)				
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That I Instructions: Please indentify the facility or facilities for where the liquids, drilling fluthan two facilities were utilized. Disposal Facility Name Disposal	tids 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 area Yes (If yes, please demonstrate compliance to the items below) No	s 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					
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 36.30034 Longitude -107.16736 NAD 1927 x 1983					
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 at					
Name (Print) Anna Stotts	Title Regulatory Analyst				
Signature Juna Stoff	Date12/6/11				
e-mail address astotts@energen.com	Telephone 505-324-4154				

Well Name: Jicarilla 119N #8M

Reserve Pit - Final Closure Report

The pit will be closed with in place burial. If the pit is located on private surface, the surface owner will be notified prior to closure by certified mail and the return receipt will be included in the closure packet. The OCD will be verbally or by other means notified at least 72 hours and not more then one week prior to the pit closing. The following process will be used to close the pit:

Notification to the OCD is included in this closure report package. Surface owner notification not required.

1) At time of closure, all free standing fluids will be removed and reused or disposed with Agua Moss LLC in the Pretty Lady #1 (Disposal API Number # 30-048-30922) or an Energen operated permitted disposal well. The contents will be solidified to a bearing capacity sufficient to support the final cover. This will be accomplished by mixing the contents with soil at a mixing ratio no greater then 3:1 soil to contents.

Fluids were removed and properly disposed in the Aqua Miss Pretty Lady #1. The pit contents were solidified by mixing the contents with soil at a mixing ratio of approximately 3:1.

2) The liner will be cut off at the mud line of the stabilized contents.

The liner was cut off at the mud line of the stabilized contents.

3) Sampling will be done by collecting a minimum of a five-point composite sample of the contents after stabilization. The sample will be analyzed for the following components (if the groundwater is less than 100 feet below the pit but greater than 50 feet, testing for chlorides will be done to the lower limit);

Components	Tests Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	.0026
BTEX	EPA SW-846 8021B or 8260B	50	.203
TPH	EPA SW-846 418.1	2500	158
GRO/DRO	EPA SW-846 8015M	500	21.9
Chlorides	EPA 300.1	500 /1000	620

Sampling results are listed in the above table.

4) After demonstrating that the stabilized contents are under the limits listed above, the contents will be covered with compacted non-waste containing earthen material to a minimum of three feet. If stabilized contents exceed a volume that can be covered with three feet of earth and a foot of topsoil the excess contents will be removed and sent to Envirotech (Permit NM-01-0011) or IEI Landfarm (Permit NM-01-0010B). If the stabilized contents do no meet the above stated limits the stabilized contents will all be hauled to Envirotech pursuant to excavation and removal guidelines (19.15.17.13 B1).

The contents were covered with three feet of compacted non-waste containing material.

5) After the stabilized contents have been covered, the stockpiled topsoil will be replaced to a minimum depth of one foot. Topsoil cover will be graded to prevent ponding of water and erosion of the cover material. This will be accomplished within six months of rig release.

The stockpiled topsoil was replaced to a depth of one foot and graded to prevent ponding and erosion.

6) The exact location of the on-site burial will be reported to the Aztec field office on the C-105 form. A deed notice identifying the exact location of the on-site burial will be filed with the county clerk if the pit is on private surface.

The C-105 form is attached. This pit is located on public surface. Proof of Deed notice not required unless pit is located on private surface (per NMOCD FAQ dated 10/30/09).

.7) The final closure report (C-144) will be filed within 60 days of closure completion and include sampling results, plot plan, details on backfilling, covering and inspections during the life of the pit.

This closure report includes sampling results, plot plan, closure details, inspections, and photos.

8) If the pit is located on federal or tribal surface, seeding will be deferred to BLM requirements per the BLM / OCD MOU. Otherwise, the disturbed area will be seeded or planted the first growing season after closing the pit. Seed will be 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 re-vegetation.

The pit is located on Federal or Tribal surface, seeding is deferred to BLM requirements per the BLM / OCD MOU.

9) Until the abandonment of the wells on the pad where the pit is located, a steel marker no less then four inches in diameter will be cemented in a hole three feet deep in the center of the onsite burial. The top of this marker will be flush with the ground. Once all wells on the pad are abandoned, a four foot tall riser will be welded on top of the marker with; operator name, lease number, well name and number, unit number, section, township and range, and a designation that it is an onsite burial location.

The marker was installed in the center of the closed pit. The marker is set flush to the ground until final abandonment. At the time of abandonment, a four foot riser will be installed and marked as follows: Energen Resources – Lease # Jicarilla Apache 119 – Jicarilla 119N #8M – Unit K – Sec. 08, T26N, R04W – Pit Burial Site.

Submit to Appropriate District Office Five Copies										orm C-105							
District I 1625 N French Dr., Hobbs, NM 88240					Energy, Minerals and Natural Resources					July 17, 2008							
District II. 1301 W Grand Avenue, Artesia, NM 88210										1. WELL API NO.							
1301 W Grand Av District III	enue, Arte	sia, NM	1 88210	OIL CONSERVATION DIVISION						30-039-31024							
1000 Rio Brazos R	d, Aztec, 1	NM 874	410	1220 South St. Francis Dr.						2. Type Of Lease							
District IV 1220 S St Francis	Dr , Santa	Fe, NN	M 87505		Sa	anta Fe, N	IM 8750)5			STATE FEE FED/INDIAN						
	_										3 State Oil & Gas Lease No.						
		ETIC	ON OR RI	ECO	MPLETION	REPORT	T AND L	.OG							<u> </u>		
4 Reason for fi	Ŭ	EΡΛΙ	DT (Eill in be	vec #1	through #31 fo	r State and E	aa wallo c	mls/\			5 Lease Name or Unit Agreement Name Jicarilla 119N						
			`		·			• /	4 422		6 Well Nu						
#33, attach this	C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #8M Type of Completion 6 Well Number #8M																
_	WELL [□ w	ORKOVER	□ r	DEEPENING [PLUGBA	АСК 🗆	DIFFER	ENT R	RESERV	OIR X O	THE	R pit	clo	sure	,	
8 Name of Ope											9 OGRID		-				
Energen I		es (Corporati	on.								928	or Wildea				
2010 Afta	•	æ.	Farmingt	on.	NM 87401								kota/Bl		MV		
12 Location	Unit Let		Section	Î	Township	Range	Lot		Feet f	rom the	N/S Line		t from the			County	
Surface	К		08		26 N	04W											
ВН												L					
13 Date Spudd	ed 14	Date	e T D Reach	ed	15 Date Rig 7/8/11			16 Da	ite Con	npleted (Ready to Pro	duce)		Elevati GR, et		OF & RKB,	
18 Total Measi	ured Depti	of W	/ell	•	19 Plug Bac	k Measured I	Depth	20 W	as Dire	ectional S	urvey Made	Ì	21 Type	Electric	c and (Other Logs Run	
22 Producing I	nterval(s)	of thi	is completion	- Top,	Bottom, Name			_\									
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26. Perforation	record (ı	nterva	il, size, and ni	umber)				27 AC	D, SI	HOT, FR	ACTURE,	CEN	MENT, SO	QEEZ!	E, ET	C	
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							ł										
28.						PRO	ODUC	ΓΙΟΝ									
Date First Produ	iction		Product	ion Me	ethod (Flowing	, gas lift, pur	mping - Siz	e and typ	е ритр	p)			Well Sta	itus (Pr	od or	Shut-in)	
Date of Test		Hou	rs Tested	(Choke Size	Prod'n For Test Perio		ıl - Bbl		Gas - N	ICF V	Vater	- Bbl	Ga	as - Oı	l Ratio	
Flow Tubing Press		Cası	ng Pressure		Calculated 24- Hour Rate	Oil - Bbl	!	Gas - M	ICF	Wa	ter - Bbl		Oil Grav	/ity - A	.PI <i>-(C</i>	orr)	
29 Disposition	29 Disposition of Gas (Sold, used for fuel, vented, etc.) 30 Test Witnessed By																
31 List Attachments																	
		e need	at the wall s	ittach -	nlat with the 1-	cation of the	tempora	/ nut									
·	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																
	0		<u> </u>	1		Latitud	le 3	36.300			,		.16736	NA	D	1927 X 1983	
I hereby certi Signature	fy l that th	e unto	rmation sho	open of	n both sides of Printe	d		l comple Stotts			* -	_	e and beli ry Anal	•	D. e	12/6/11	
E-mail addres	s	ā	astotts@e	nerg	en.com Name	:				I 11	ile Regui				Date	, _,	

DISTRICT J 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised July 10, 2010

DISTRICT II 1301 W Grand Avenue, Artesia, N.M. 88210

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

CALC

WEST

5285 93' (R&M)

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Pe, NM 87505

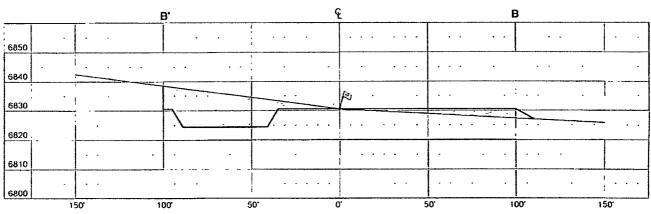
Submit one copy to appropriate District Office

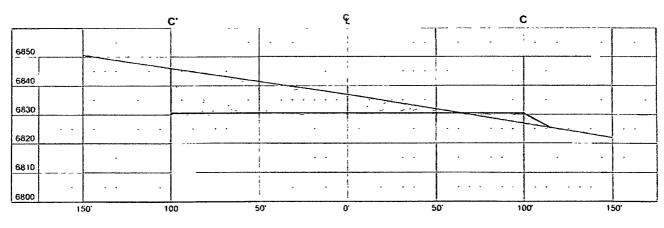
Certificate Number

10201

DISTRICT IV 220 S St Franc	is Dr., San	ta Fe, NM 87	7505		Sallta re,	NM O	303			AMEN	DED REPORT
			WELL		ON AND	ACRE	EAGE DED	ICATION			
30.039 Property C	Number 3 0	JY_	723	Pool Code 19 / 7/5	199 Propert			Pool Na Jesa verd		asin	Dakota Vell Number
21944 JICARILLA 119N											8M
OGRID No				ENERCE	*Operate						Elevation 6831
16292	.8			ENERGE	N RESOURCE					L	
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the		rth/South line	Feet from the	Bast/We	est line	County
К	8	26N	4W		2458'		SOUTH	1424'	WE:		RIO ARRIBA
			11 Bott	om Hole	Location	If D	ifferent Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	e No	orth/South line	Peet from the	East/W	est line	County
Dedicated Acre	25	<u> </u>	19 Joint or	infill	14 Consolidation	n Code		¹⁵ Order No.			
320	W	/2									
NO ALLOW	ABLE W	TLL BE	ASSIGNE	D TO TH	S COMPLE	TION	UNTIL ALL	INTERESTS	HAVE E	BEEN C	ONSOLIDATE
		OR A	NON-ST	ANDARD	UNIT HAS	BEEN	APPROVED	BY THE D			
Q								i			IFICATION
CYTC								true and	complete to th	e best of may	contained herein is transledge and betref.
		,						or unleuse	ed moneral uni	erest in the	ms a working viteres! land including the a right to drill this
1								well at th	is location pu	raugal to a	contract with an evenue ist, or to a voluntary
				,				poutrag ag			pooling order heretofor
						1		1	DV.	30	2/11
<u> </u>		 		- - -		+ -		- 45km	Lure		5-51-/1 Date
(R)		ı		1		į		And	400	Cata	
_								Print	ed Name	عن ين	
5280.00		. WELL	FLAG	i		1		a	3070	Der er	iergen, co.
7, "		LONG.	6.50050° N 107.27918°			ļ		ł ————	il Address SURVEY	OR CE	RTIFICATION
		1 DATUM	(NAD 1983)). ġ		+ -		I hereby	certify that ti	re well local	lion shown on this
⊔	424*	'		,		1					of actual surveys mad and that the same us
NORTH NORTH		1		1		İ		trun and	correct to the	best of my	tehef.
NORTH NORTH		11		1		1		Date o	OCTOB	ER 15,	2010
z		1 } . %		1		•		1 }		of Protesti	Surveyor
						↓ _				A Pris	
					OF BEARINGS F		s survey is It the southeas		37 PE	WEXCO	6/ 4/
		1		CORN	ER AND THE NO ON 12. T26N, R	RTHEAST	CORNER OF	"	(O 1	10201) <u>m</u>
					22'30" E A DIS				TERE!		SUAVEYOR
				1		1			100	SSIONAL	(DIA)
						1			, OF	PANOISS	

ENERGEN RESOURCES CORPORATION JICARILLA 119N #8M 2458' FSL & 1424' FWL LOCATED IN THE NE/4 SW/4 OF SECTION 8, T26N, R4W, N M.P.M, RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6831', NAVD 88 FINISHED PAD ELEVATION: 6830.5', NAVD 88 Α 6850 6840 6830 6820 . . . 6810 ļ 6800 100 150





VERT. SCALE. 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERG298 DATE: 10/28/10 CUT FILL



Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

150

WELL FLAG

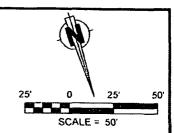
LATITUDE. 36.50050° N LONGITUDE 107.27918° W DATUM. NAD 83 CENTER OF PIT LATITUDE. 36 50063° N LONGITUDE 107 27894° W

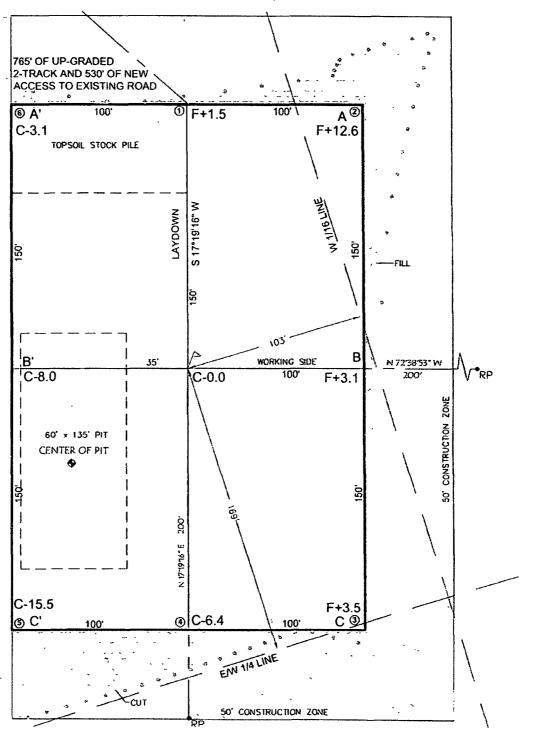
ELEVATION 6818.5'

NAD83 & NAVD88

ENERGEN RESOURCES CORPORATION

JICARILLA 119N #8M
2458' FSL & 1424' FWL
LOCATED IN THE NE/4 SW/4 OF SECTION 8,
T26N, R4W, N.M.P M,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6831', NAVD 88
FINISHED PAD ELEVATION: 6830.5', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50'
JOB No.: ERG298
DATE: 10/28/10
DRAWN BY GRR



Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

Anna Stotts

Subject:

FW: Pit Closure notice

From: bbvac [mailto:bbvac@windstream.net]
Sent: Monday, November 07, 2011 2:54 PM

To: Eugene.Burbank@energen.com

Cc: Brandon.Powell@state.nm.us; mkelly@nm.blm.gov; rmckee@nm.blm.gov; dixonsandoval@jicarillaoga.com;

Robert.Schmidt@energen.com; Anna.Stotts@energen.com; Kellie.Campbell@energen.com; Doug.Thomas@energen.com;

Ed.Hasely@energen.com **Subject:** Pit Closure notice

Notice that on 11/11/2011 B&B Vac will begin closing the reserve pit on the Jicarilla West, #8M. Please let me know if there are any concerns.

Thank you, Robert Bridge B&B Vac Services 575-289-4048



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number:	Energen Res. Reserve Pit 59097	Project #: Date Reported: Date Sampled:	03022-0168 07-28-11 07-26-11
Chain of Custody No:	12253	Date Received:	07-27-11
Sample Matrix:	Sludge	Date Extracted:	07-27-11
Preservative:	Cool	Date Analyzed:	07-28 - 11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.2	0.2
Diesel Range (C10 - C28)	17.7	0.1
Total Petroleum Hydrocarbons	21.9	

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:

Jicarilla 119N #8M



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen Res.	Project #:	03022-0168
Sample ID:	Reserve Pit	Date Reported:	07-28-11
Laboratory Number:	59097	Date Sampled:	07-26-11
Chain of Custody:	12253	Date Received:	07-27-11
Sample Matrix:	Sludge	Date Analyzed:	07-28-11
Preservative:	Cool	Date Extracted:	07-27-11
Condition:	Intact	Analysis Requested.	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	2.6	0.9	
Toluene	25.7	1.0	
Ethylbenzene	15.1	1.0	
p,m-Xylene	112	1.2	
o-Xylene	47.8	0.9	
Total BTEX	203		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.8 %
	1,4-difluorobenzene	86.9 %
	Bromochlorobenzene	99.6 %

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 119N #8M

Arnalyst

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen Res.	Project #:	03022-0168
Sample ID:	Reserve Pit 1/1	Date Reported:	08/09/11
Laboratory Number:	59198	Date Sampled:	08/08/11
Chain of Custody No:	12311	Date Received:	08/09/11
Sample Matrix:	Sludge	Date Extracted:	08/09/11
Preservative:	Cool	Date Analyzed:	08/09/11
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

158

5.0

ND = Parameter not detected at the stated detection limit.

References:

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

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla 119N #8M

Analysy

Review

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



Chloride

Client: Project #: Energen Res. 03022-0168 Sample ID: Reserve Pit Date Reported: 07/28/11 Lab ID#: 59097 Date Sampled: 07/26/11 Sample Matrix: Sludge Date Received: 07/27/11 Preservative: Cool Date Analyzed: 07/28/11 Condition: Chain of Custody: Intact 12253

Parameter Concentration (mg/Kg)

Total Chloride 620

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 119N #8M

() Review

96 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com



Pit Inspection Log Sheet

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

Well Name: JICARILLA 119N 8M	API:
Name (Print) MICHAEL L. DEAN Signature	michala Date 7-12-11
Note Any Deficiencies	/ 0
Name (Print) MICHMEL L. DEAN Signature	Muchal In Date. 7.20-11
Note Any Deficiencies	
Name (Print) Michael L. Den Signature	made for Date 7-26-11
Note Any Deficiencies /	/
Name (Print) Total Michael LDEAN Signature	michal FD Date: 16-4-11
Note Any Deficiencies ComplaTion Pel on Location	<u> </u>
Name (Print) Signature	Date ⁻
Note Any Deficiencies	
Name (Print) Signature	Date
Note Any Deficiencies	
Name (Print) Signature	Date
Note Any Deficiencies	
Name (Print) Signature	Date ⁻
Note Any Deficiencies	
Name (Print). Signature	Date.
Note Any Deficiencies	
Name (Print) Signature	Date.
Note Any Deficiencies	
Name (Print) Signature	Date
Note Any Deficiencies	_
Name (Print) Signature	Date
Note Any Deficiencies	
Name (Print) Signature	Date:
Note Any Deficiencies	
Name (Print) Signature	Date
Note Any Deficiencies	
Name (Print) Signature	Date
Note Any Deficiencies	
Name (Print) Signature	Date
Note Any Deficiencies	



Pit Inspection Log Sheet

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

Well Name: Jicarilla 119 N#	8 H API:	30-039	-31024
Name (Print): Ken Dennington	Signature: J. K. Sun	4.	Date. 6-24-11
Note Any Deficiencies:			
Name (Print): Ken Dennington	Signature: Q. K. Aban	tor,	Date 6-25-11
Note Any Deficiencies: None		U	
Name (Print) Ken Dennington	Signature: Q. K. Sourie	ton	Date ⁻ 6-26-11
Note Any Deficiencies: None			
Name (Print): Ken Denning for	Signature G. K. Lon	inter	Date 6-27-11
Note Any Deficiencies: NONE			
Name (Print): Ken Denningfon	Signature: Q. K. Anne	ton	Date: 6-28-1/
Note Any Deficiencies: None			
Name (Print): Key Denvington	Signature: J. K. Som	to	Date: 6-29-11
Note Any Deficiencies: Nous			
Name (Print): Ken Dennington	Signature J. K. Danie	to	Date: 6-30-11
Note Any Deficiencies. None		,	
Name (Print) KeN DENNING TON	Signature: J. L. Duni	ifi.	Date. 7-1-11
Note Any Deficiencies: NONE			
Name (Print): Ken Dennington	Signature: Q.K. Danie	ter	Date 7-2-//
Note Any Deficiencies: None			
Name (Print): Len Dennington	Signature: J. K. Danie	to	Date: 7-3-//
Note Any Deficiencies: None			
Name (Print). Ken Dennington	Signature: J. K. Sans	ifer	Date 7-4-11
Note Any Deficiencies: NONE			
Name (Print) KEN DENNING FON	Signature: J. K. Sonn	ton	Date: 7-5-//
Note Any Deficiencies. Next		, 	And A . A
Name (Print): Ken Dennington	Signature: (f. K. Dun	ngton)	Date: 7-6-11
Note Any Deficiencies: None	a: // // /	• /	7-7-4
Name (Print) Ken Dennington Note Any Deficiencies. Alone	Signature: () / Dun	e fer	Date: 7-7-//
11 (2:0)	Sin 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5 . 7
Name (Print): Ken Denning fon Note Any Deficiencies: None	Signature: J. K. Dane	nfon	Date: 7-8-//
Name (Print):	Signature		Data
Note Any Deficiencies:	Signature:	·	Date







JICARILLA 119N #8M
2458' FSL 1424' FWL
SHL UNIT K SEC 8 T26N R04W
LATITUDE 36.50050°
LONGITUDE -107.27918°
API # 30-039-31024 ELEV. 6831'
LEASE # JICARILLA CONTRACT 119
RIO ARRIBA COUNTY, NEW MEXICO
BLANCO MV/WILD HORSE DK

