District I.
1625 N. French Dr , Hobbs, NM 88240
District II.
1301 W. Grand Avenue, Artesia, NM 88210
District III.
1000 Rio Brazos Road, Aztec, NM 87410
District IV.
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

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

Pit, Closed-Loop System, Below-Grade Tank, or

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							
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: Northwest #4N							
API Number: 30-039-31038 OCD Permit Number:							
U/L or Qtr/QtrG Section 08 Township 26N Range 04W County: Rio Arriba							
Center of Proposed Design: Latitude 36.50200 N Longitude 107.27123 W NAD: 1927 🗵 1983							
Surface Owner: Federal State Private Tribal Trust or Indian Allotment							
2							
Pit: Subsection F or G of 19.15.17.11 NMAC RCVD DEC 13°11							
Temporary: Drilling Workover OIL CONS. DIV.							
Permanent Emergency Cavitation P&A							
Indicate							
■ String-Reinforced							
Liner Seams: Welded X Factory Other Volume: 1500 bbl Dimensions: L 155 x W 85 x D 10							
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							
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other							
Lined Unlined Liner type: Thicknessmil LLDPE PVC Other Liner Seams: Welded Factory Other							
Lined Unlined Liner type: Thicknessmil LLDPE PVC Other Liner Seams: Welded Factory Other 4 Below-grade tank: Subsection I of 19.15.17.11 NMAC							
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:							
Lined Unlined Liner type: Thicknessmil LLDPE 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:							
Lined Unlined Liner type: Thickness mil LLDPE 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 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off							
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other							
Lined Unlined Liner type: Thickness mil							

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, scho institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	ol, 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 Bur consideration 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 application of the submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.				
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	. 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 Perm	nit 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 checklist Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 requirement 19.15.17 13 NMAC	oh (3) of Subsection B of 19.15 17.9 uirements of 19.15.17.10 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 checattached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 N Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 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 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 Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Errosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.	IMAC NMAC .11 NMAC 19.15.17.11 NMAC NMAC						
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure. Type. \[\begin{align*} \text{Drilling} \text{Workover} \text{Emergency} \text{Cavitation} \text{P&A} \text{Permanent Pit} \text{Belo} \\ Alternative Proposed Closure Method: \text{Waste Excavation and Removal} \text{Waste Removal (Closed-loop systems only)} \text{Von-site Closure Method (Only for temporary pits and closed-loop systems)} \text{Von-site Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted to the Santa Formula)} \text{Alternative Closure Method (Exceptions must be submitted)} \text{Details of the Santa Formula)} \	ow-grade Tank						
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of a 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 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 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	of 19.15.17.13 NMAC n H of 19.15.17.13 NMAC						

Waste Removal Closure For Closed-loop Systems That Utilize Above Gro Instructions: Please indentify the facility or facilities for the disposal of liquid facilities are required.	und Steel Tanks or Haul-off Bins Only: (19.15 17.13.1 ls, drilling fluids and drill cuttings. Use attachment if mod	O NMAC) re 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 open Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection Plan - based upon the appropriat	opriate requirements of Subsection H of 19.15.17.13 NM. ection I of 19.15.17.13 NMAC	AC				
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMA Instructions: Each siting criteria requires a demonstration of compliance in provided below. Requests regarding changes to certain siting criteria may rebe considered an exception which must be submitted to the Santa Fe Environ and/or demonstrations of equivalency are required. Please refer to 19.15.17.	the closure plan. Recommendations of acceptable sou equire administrative approval from the appropriate dist nmental Bureau office for consideration of approval. J	trict 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 X 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 othe lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed si		Yes X No				
Within 300 feet from a permanent residence, school, hospital, institution, or ch Visual inspection (certification) of the proposed site; Aerial photo; Sa		☐ Yes 🗷 No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that watering purposes, or within 1000 horizontal feet of any other fresh water well - NM Office of the State Engineer - iWATERS database; Visual inspec	or spring, in existence at the time of initial application.	Yes X No				
Within incorporated municipal boundaries or within a defined municipal fresh adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written a	·	Yes 🗶 No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site						
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-M	fining 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						
Within a 100-year floodplain FEMA map						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must be attached to the closure pla	n. Please indicate,				
Siting Criteria Compliance Demonstrations - based upon the appropriate 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 19.15.17.11 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 I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC						

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate	te 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)	
OCD Representative Signature:	Approval Date: 12/19/201
Title: Compliance Officer 0	CD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K Instructions: Operators are required to obtain an approved closure plan prior to 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.	implementing any closure activities and submitting the closure ays of the completion of the closure activities. Please do not ed and the closure activities have been completed.
	x Closure Completion Date: 10/29/11
Closure Method: Waste Excavation and Removal Con-Site Closure Method Alternative If different from approved plan, please explain.	Closure Method
Closure Report Regarding Waste Removal Closure For Closed-loop Systems I Instructions: Please indentify the facility or facilities for where the liquids, drilli than two facilities were utilized. Disposal Facility Name:	ing fluids and drill cuttings were disposed. Use attachment if more
Disposal Facility Name: Dis	
Were the closed-loop system operations and associated activities performed on or in Yes (If yes, please demonstrate compliance to the items below) No	
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) Boil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ns:
Closure Report Attachment Checklist Instructions Each of the following items 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 36.30105 Longitum	
25	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirements.	
Name (Print): Anna Stotts	Title: Regulatory Analyst
Signature	Date:12/6/11
e-mail address: _astotts@energen.com	Telephone:505-324-4154

Well Name: Northwest #4N

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	ND
BTEX	EPA SW-846 8021B or 8260B	50	.0066
TPH	EPA SW-846 418.1	2500	983
GRO/DRO	EPA SW-846 8015M	500	2.0
Chlorides	EPA 300.1	500 /1000	ND

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–Northwest #4N – Unit G – Sec. 08, T26N, R04W – Pit Burial Site.

Submit to Appropriate Copies District I				2000 011,000					Form C-105 July 17, 2008						
1625 N French Di District II. 1301 W Grand Av District III. 1000 Rio Brazos F District IV.	venue, Arte:	sia, NN NM 87	И 88210 410	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM, 87505 2. Type Of Lease STATE FEE X FED/IND					ED/INDIAN						
3. State Oil & Gas Lease No.															
4. Reason for fi		<u>. L 110</u>	ON ON IN		VIFELTION	KLFOK	I AND	LOG			5 Lease N			reement Na	ıme
l —	LOSURE	ATT	ACHMENT ((Fill in	through #31 fo	gh #9. #15 D	Date Rig R	eleased ar	nd #32	and/or	6. Well No	ımber			
9. Type of Con			-		DEEPENING [•	PMT I) CCCDV	#4N	ОТНЕ	n	1	
8 Name of Ope	erator				DEEPENING L	□ PLUGBA	ACK L	DIFFER	ENII	RESERVO	9. OGRII) Nun	nber	t closur	<i>e</i>
		es (<u>Corporati</u>	on_		-					+	2928	or Wildca	•	
10. Address of 2010 Aft	•		Dominat		NM 87401								or whice N/Basir		
12. Location	Unit Let		Farmingt Section	<u>on,</u>	Township	Range	Lot		Feet f	from the	N/S Line			E/W Line	County
Surface	G		08		26 N	04W	130.	<u>'</u>	,		. wo zane				
BH:						<u> </u>						1-			
13 Date Spudd	led 14	Dat	eTD Reach	ed	15 Date Rig 9/5/11		•	16 Da	ite Cor	mpleted (F	Ready to Pro	oduce)		Elevations GR, etc)	(DF & RKB,
18. Total Meas	ured Depti	h of W	Vell		19 Plug Bac	k Measured	Depth	20 W	as Dire	ectional S	urvey Made		21. Type	Electric and	Other Logs Run
22. Producing I	nterval(s)	of th	is completion	- Top,	Bottom, Name										
23.				(CASING R	ECORD	(Repo	t all str	ings	set in v	vell)				
CASING	SIZE	V	WEIGHT LB.,		DEPTH			LE SIZE			EMENTIN	G RE	CORD	AM	OUNT PULLED
		ļ													
												-			
24.	1				ER RECOR					25.		UBI	NG REC		
SIZE	TC	OP		BOTT	rom	SACKS CE	MENT	SCR	EEN	SIZ	E		DEPTH S	SET	PACKER SET
							-					\dashv			
26. Perforation	record (i	ntervo	l size and ni	ımher)				27. ACI	D SI	TOT ED	ACTURE,	CEN	AENIT SA	OFFZE E	TC
20. Terroration	riccord (i	into i va	u, size, und ne	anioci)				DEPTH						MATERIA	
									-						
28.							<u>ODUC</u>								
Date First Produ	iction		Product	ion Me	thod (Flowing	, gas lift, pui	mping - Si	ze and typ	e pum _i	p)			Well Sta	atus (Prod. c	or Shut-in)
Date of Test		Hou	rs Tested	(Choke Size	Prod'n Fo Test Perio		oıl - Bbl.		Gas - M	CF \	Vater	- Bbl	Gas - C	Dil Ratio
Flow Tubing Press		Casi	ing Pressure		Calculated 24- Hour Rate	Oıl - Bbl		Gas - M	ICF	Wat	er - Bbl		Oil Grav	ity - API -(Corr)
29. Disposition of Gas (Sold, used for fuel, vented, etc.) 30. Test Witnessed By															
31. List Attach	ments					<u></u>					L			<u></u>	
32. If a tempor	ary pit was	s used	at the well, a	ttach a	plat with the lo	cation of the	temporar	y pıt							
33 If an on-site	e burial wa	as use	d at the well,	report 1	the exact location	on of the on-		36.3010)5	Long	itude -	-107	.16271	NAD:	1927 X 1983
I hereby certi	fy that th	e info	rmotion sho	wn on	both sides of										
Signature	AM	ΛÓ	Stol	H.	Printe	d		Stotts			_{le} Regul	_		-	12/6/11
E-mail addres	s	ā	astotts@e	nerge	n.com Name	, <u>.</u>				111			-	- Dati	

District I 1625 N French Dr , Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 B11 S First St., Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-9720 1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-6178 Fax (505) 334-6170 District IV 1220 S St Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3460 Fax. (505) 476-3462

UL or lot no.

G

State of New Mexico
Energy, Minerals & Natural Resources Department Subm
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submittone copy to appropriate
OIL CONS. DN. U. Son Cory District Cory AMENDED REPORT

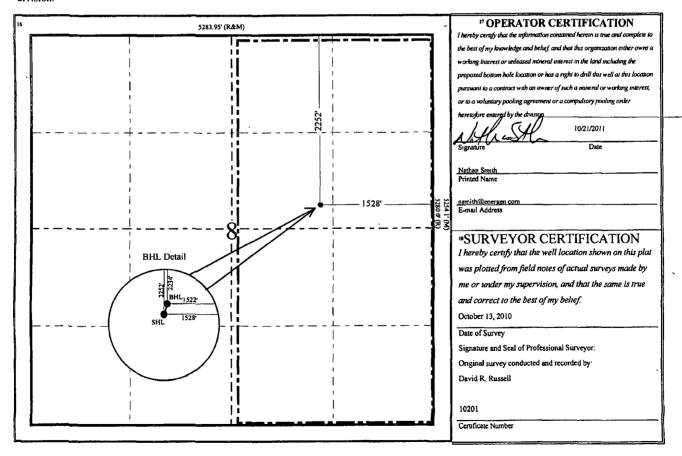
WELL LOCATION AND ACREAGE DEDICATION PLAT

LAPI Number	² Pool Code	³ Pool Name		
30-039-31038	72319/71599	Blanco Mesa Verde / Basin Dakota		
*Property Code	⁵ Property Name		Well Number	
302938	Northwest		4N	
OGRID No.	⁸ Operator Name		9 Elevation	
162928	Energen Resource	es Corporation	7139' GL	

Surface Location Feet from the Township Range Lot Idn Feet from the North/South line East/West line County Rio Arriba 26N 2252 North 1528 East

" Bottom Hole Location If Different From Surface UL or lot no. North/South line East/West line County Lot Idn Feet from the Section Township Range Feet from the 4W 2234 North 1522 East Rio Arriba 26N Dedicated Acres Joint or Infill 4 Consolidation Code 15 Order No. 320.0 - E/2

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.



ENERGEN RESOURCES CORPORATION NORTHWEST #4N 2252' FNL & 1528' FEL LOCATED IN THE SW/4 NE/4 OF SECTION 8, T26N, R4W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION, 7139', NAVD 88 FINISHED PAD ELEVATION: 7138.0°, NAVD 88 7160 7150 7140 7130 7120 7110 100 50 В, 7160 7150 7140 7120 100 C 7160 7140 7130 7120 150 100 100 150 Russell Surveying VERT. SCALE: 1" = 30" 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637 HORZ. SCALE: 1" = 50' JOB No.: ERG297 DATE: 10/26/10

WELL FLAG

LATITUDE: 36.50200° N LONGITUDE: 107.27123° W

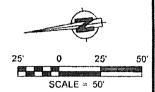
DATUM, NAD 83
CENTER OF PIT

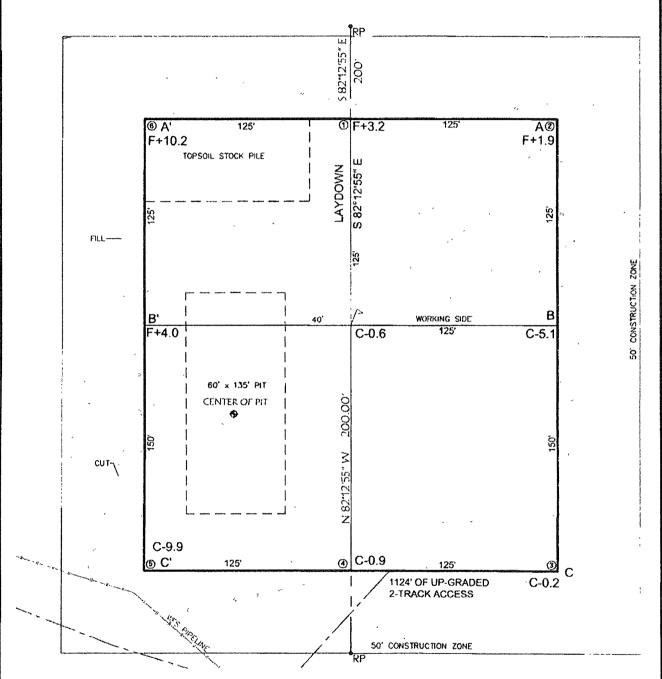
LATITUDE: 36 50128° N LONGITUDE 107.27142° W ELEVATION: 7126 0'

NAD83 & NAVD88

ENERGEN RESOURCES CORPORATION

NORTHWEST #4N
2252' FNL & 1528' FEL
LOCATED IN THE SW/4 NE/4 OF SECTION 8,
T26N, R4W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7139', NAVD 88
FINISHED PAD ELEVATION: 7138 0', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG297 DATE: 10/26/10 DRAWN BY: GRR 18 X 55

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

Anna Stotts

From:

Sent:

To:

Cc:

bbvac [bbvac@windstream.net]
Friday, October 14, 2011 10:04 AM
Eugene Burbank
Brandon.Powell@state.nm.us; mkelly@nm.blm.gov; rmckee@nm.blm.gov;
dixonsandoval@jicarillaoga.com; Robert Schmidt; Anna Stotts; Kellie Campbell; Doug

Thomas; Ed Hasely

Subject:

Pit Closure notice for Jic Northwest #4M

Notice that on 10/17/2011 or 10/18/2011 B&B Vac will begin closing the reserve pit on the Jicarilla Northwest, #4. Please let me know if there are any concerns.

Thank you,

Robert Bridge **B&B Vac Services, Inc** 505 249-6942



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Parameter		(ug/Kg)		(ug/Kg)	
		Concentration		Det. Limit	
	·		Dilution:		10
Condition:	Intact		Analysis Requested [.]		BTEX
Preservative:	Cool		Date Extracted:		10-03-11
Sample Matrix:	Soil		Date Analyzed:		10-03-11
Chain of Custody:	12649		Date Received:		09-28-11
Laboratory Number:	59774		Date Sampled:		09-28-11
Sample ID:	Northwest #4N		Date Reported:		10-06-11
Client:	Energen		Project #:		03022-0168

Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	5.2	1.2
o-Xylene	1.4	0.9
Total BTEX	6.6	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	83.3 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	86.7 %

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:

Northwest #4N



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Project #: Client: Energen 03022-0168 Date Reported: Sample ID: Northwest #4N 09/30/11 Laboratory Number: 59774 Date Sampled: 09/28/11 Date Received: 09/28/11 Chain of Custody No: 12649 Date Extracted: 09/30/11 Sample Matrix: Soil Date Analyzed: 09/30/11 Preservative: Cool Condition: Intact Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons

983

13.9

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.

Northwest #4N. Comments:

5796 US Highway 64, Farmington, NM 87401

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



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

Client:	Energen	Project #:	03022-0168
Sample ID:	Northwest #4N	Date Reported:	10-06-11
Laboratory Number:	59774	Date Sampled:	09-28-11
Chain of Custody No:	12649	Date Received:	09-28-11
Sample Matrix:	Soil	Date Extracted:	10-03-11
Preservative:	Cool	Date Analyzed:	10-03-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.0	0.1
Total Petroleum Hydrocarbons	2.0	

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:

Northwest #4N



Chloride

Client:

Energen

Project #:

03022-0168

Sample ID:

Northwest #4N

Date Reported:

09/30/11

Lab ID#:

59774

Date Sampled:

09/28/11

Sample Matrix:

Soil Cool Date Received:

09/28/11

Preservative:

Date Analyzed:

09/30/11

Condition:

Intact

Chain of Custody:

12649

Parameter

Concentration (mg/Kg)

Total Chloride

ND

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:

Northwest #4N.

5796 US Highway 64, Farmington, NM 87401



Pit Inspection Log Sheet

(daily while rig is on-site, then weekly as long as liquids remain in the pit) 3/038 Well Name: Date: 8-7-// Signature: Name (Print): Note Any Deficiencies: Name (Print): Signature: Note Any Deficiencies: Date: 8-9-11 Name (Print): 4 Signature: Note Any Deficiencies: Date: 8-10-11 Name (Print): Signature: Note Any Deficiencies Name (Print): Signature: Note Any Deficiencies: 8-12-11 Name (Print): Date: Signature: Note Any Deficiencies: Date: Name (Print): Signature: Note Any Deficiencies: Date: 8-14-11 Name (Print): Signature: Note Any Deficiencies: Name (Print): Signature: Date: Note Any Deficiencies: Name (Print): Date: Signature Note Any Deficiencies: Name (Print): / Signature Date: Note Any Deficiencies: Date: Name (Print): Signature: Note Any Deficiencies Name (Print): K Signature: Date: Note Any Deficiencies: Name (Print): 人をいての Date: Signature: Note Any Deficiencies: Name (Print): K Signature: Date: Note Any Deficiencies: Name (Print): Signature: Date: Note Any Deticiencies:



Pit Inspection Log Sheet

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

API: 30 - 03	9-31038
Signature:	Date:
Signature: Allen Bo	Date: 8-23-11
Signature: Sillin By	Date: 8-24-1/
Signature: Sillin By	Date: 8-25-11
Signature: When Bay	Date: 8-26-11
Signature: Siller By	Date: 8-27-11
Signature: Allin Box	Date: 8 - 28 - 1/
Signature By	Date: 8-29-11
Signature: K- Zacle H	Date: 9-30-11
1	
Signature: K- Hackett	Date: 8-31-11
	·
Signature: K- Wachett	Date: 9-1-11
Signature: X- Hackelt	Date: 9-2-1)
Signature: The Hackett	Date: 9-3-//
Signature: 7h- Hackett	Date: 9-4-11
Signature:	Date:
Signature:	Date:
<u> </u>	
	Signature: Signature:



Pit Inspection Log Sheet

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

Well Name: Northwest #4N	API:	
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 8-/8-//
Note Any Deficiencies: None		
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 8-24-11
Note Any Deficiencies: None		
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 8-30-1/
Note Any Deficiencies: None	<u> </u>	
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 9-/-//
Note Any Deficiencles: None		
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 9-8-//
Note Any Deficiencies: None		
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 9-13-11
Note Any Deficiencies: None	0	
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 9-20-11
Note Any Deficiencies: None	<i>y</i>	
Name (Print): Eugene Burhank	Signature: Lugene Burbank	Date: 9-28-//
Note Any Deficiencies: None		
Name (Print): Eugene Burbank	Signature: Eugene Burbank	Date: 10-10-11
Note Any Deficiencies: None		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
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Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		

ENERGEN RESOURCES CORPORATION

NORTHWEST #4N
2252' FNL 1528' FEL
SHL UNIT G SEC 8 T26N R04W
LATITUDE 36.50200°
LONGITUDE -107.2723°
API # 30-039-31038 ELEV. 7139'
LEASE # JICARILLA CONTRACT 119
RIO ARRIBA COUNTY, NEW MEXICO
BLANCO MV/WILD HORSE DK

2011/11/05 15:E

