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
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Energen Resources Corporation OGRID#: 162928
Address: 2010 Afton Place, Farmington, NM 87401
Facility or well name: Jicarilla 96 #4B
API Number: 30-039-30153 OCD Permit Number:
U/L or Qtr/Qtr SWNE Section 1 Township 26N Range 3W County: RID HREIGHT San Juan
Center of Proposed Design: Latitude 36.51569 N Longitude 107.09200 W NAD: 1927 x 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2 ROW SUL ZO TO
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover OIL CONS. D.W.
□ Permanent □ Emergency □ Cavitation □ P&A DIST. 3
Lined Unlined Liner type: Thickness 20 mil X LLDPE HDPE PVC Other
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 Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
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, school institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	ol, hospital,
7 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	
9	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bur consideration of approval.	reau office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the applice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes 🗷 No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes 🛣 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes 😿 No ☐ 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:
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 Instructions: Please indentify the facility or facilities for the disposal of liquids, a	Steel Tanks or Haul-off Bins Only : (19.15.17.13.I rilling fluids and drill cuttings. Use attachment if mor	NMAC) re than two
facilities are required. Disposal Facility Name: D	isposal Facility Permit Number:	
Disposal Facility Name: D	isposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities of	occur on or in areas that will not be used for future ser	vice and
operations? Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operature. Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate Plan - based upon the	ate requirements of Subsection H of 19.15.17.13 NMA on I of 19.15.17.13 NMAC	AC
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 require 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	re administrative approval from the appropriate dist ental Bureau office for consideration of approval. Jo	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 ☐ 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; 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 lewatering 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 war adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approx		☐ Yes 🗷 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vis	eual 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 by a check mark in the box, that the documents are attached.	ne following items must be attached to the closure pla	ın. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Simple Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Simple Construction/Design Plan of Temporary Pit (for in-place burial of a drying pactor Protocols and Procedures - based upon the appropriate requirements of 19.15. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Simple Soil Cover Design - based upon the appropriate requirements of Simple Soil Cover Design - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate Plan - based upon t	Subsection F of 19.15.17.13 NMAC ropriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19.15 17.13 NMAC rements of Subsection F of 19.15.17.13 NMAC ubsection F of 19.15.17.13 NMAC ll cuttings or in case on-site closure standards cannot of 19.15.17.13 NMAC of 19.15.17.13 NMAC	

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate a	nd complete to the best of my knowledge and belief.
Name (Print):Devin Mills	Title: Drilling Engineer
Signature: Jeru	Date: 7/22/09
e-mail address: dmills@energen.com	Telephone: 505-324-4121
OCD Approval: Permit Application (including closure plan) Closur	<u> </u>
OCD Representative Signature: Drangt Sell	Approval Date: 8-13-69
Title: Enviro/spec 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 impreport. 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
22	
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 Tha Instructions: Please indentify the facility or facilities for where the liquids, drilling than two facilities were utilized. Disposal Facility Name: Disposal	fluids and drill cuttings were disposed. Use attachment if more
Disposal Facility Name: Dispos	al Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in ar Yes (If yes, please demonstrate compliance to the items below) 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 m 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	
Operator Closure Certification:	
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	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Temporary Pit Closure Plan:

The pit will be closed with in place burial. The surface owner will be notified 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:

- 1) 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.
- At time of closure, all free standing fluids will be removed and the liner will be cut off at the mudline.
- 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:

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

- 4) 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). If the stabilized contents do no meet the above stated limits the stabilized contents will all be hauled to Envirotech.
- 5) After the stabilized contents have been covered, the stockpiled topsoil will 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.
- 6) The precise location of the on-site burial will be reported to the Aztec field office on the C-105 form. A <u>deed</u> notice identifying the exact location of the on-site burial will be filed with the county clerk if the pit is on private surface.
- 7) 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 being 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.
- 8) The final closure report (C-144) will be filled within 60 days of closure completion and include sampling results, plot plan, details on back filling, covering and inspections during the life of the pit.
- 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 name, well name and number, unit number, section, township and rage, and a designation that it is an onsite burial location

Temporary Pit Operations Plan:

The pit will be operated and maintained; to contain liquids and solids, to insure liner and secondary containment integrity, to aid in the prevention of contamination of fresh water sources, in order to protect public health and the environment. To attain this goal the following steps will be followed;

- 1) The fluids in the pit remaining after rig release will be vacuumed out and transported to active drilling locations to be reused or disposed of with Agua Moss LLC in the Pretty Lady #1 (Disposal API Number # 30-048-30922) within 30 days. Residual fluids after vacuuming will be allowed to evaporate.
- 2) No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the pit. Only fluids or cuttings used or generated in the drilling process will be placed or stored in the pit.
- 3) The division district office will be notified within 48 hrs of the discovery of compromised liner integrity. Upon the discovery of the compromised liner repairs will be enacted immediately.
- 4) The division district office will be notified within 48 hrs of the discovery of compromised liner integrity below the fluid level unless more then 25 bbls is released in which case Rule 116's 24 hr notification will apply. All liquid above the damaged liner section will be removed to a level below the damage within 48 hrs and repairs will be enacted.
- 5) Precautionary measures will be taken to insure no liner damage is caused when adding or removing fluids and solids from the pit. This will be accomplished by gradually increasing the slope of the pit from negligible underneath the shale shakers to the 2:1 ratio required by 19.15.17.11 within five feet. A perforated pipe will be installed in the corner of the pit so that a vacuum hose can be run through it to remove fluids without damaging the liner.
- 6) Perimeter berms and ditches will be constructed around the exterior of the pit to prevent surface water run-on but the rig side may be left open to allow location drainage.
- 7) A oil absorbent boom will be maintained on site to remove oil from the pit's surface if necessary. Immediately on the cessation of drilling any accumulated oil will be removed from the surface of the pit.
- 8) A minimum of two feet of freeboard will be maintained at all times. Once fluid levels have the possibility of rising above the minimum freeboard fluid will be vacuumed out of the pit.
- 9) All of the above operations will be inspected and a log will be signed and dated. During drilling operations the inspection will be daily and after rig release they will be carried out weekly as log as there is fluid in the pit.

Temporary Pit Design Plan:

The pit will be designed and constructed in the following manner:

- 1) Top soil will be stripped, stockpiled and stored as designated on the attached well sight layout schematic. Storage will be in accordance with the requirements set forth as described in item B of the the siting requirements of 19.15.17.11 NMAC.
- 2) A sign will be posted on location in accordance with 19.15.3.103 NMAC.
- 3) A four strand barbwire fence will be constructed around the perimeter of the pit with the strands evenly spaced between one and four feet from the ground. This fence will be used to excluded livestock from inadvertently entering the pit. The side of the fence adjacent to the rig will be removed during operations. This fence if located within 1000 feet of a permanent residence, school, hospital, institution or church will be a six foot chain link fence with two strands of barbed wire at the top.
- 4) The pit will be designed to confine liquids, prevent unauthorized releases by constructing a foundation with interior slopes consisting of a firm and unyielding base that are smooth and free of rocks, debris or other sharp edges to prevent liner damage.
- 5) The slopes will be constructed with a 2:1 ratio of vertical to horizontal with a changing slope within five feet of the shale shakers trending towards horizontal.
- 6) The volume of the pit will no exceed 10 acre feet including freeboard.
- 7) The pit will be lines with a LLDPE geomembrane liner with a thickness of no less then 20mm. The liner material will be compatible with EPA SW-846 method 9090A.
- 8) Liner seams will be orientated perpendicular to the largest slope with an overlap of four to six inches.
- 9) If needed a geotextile will be place under the liner to reduce localized stress-strain that may compromise liner integrity.
- 10) The edges of the liner will be anchored in the bottom of a compacted earthfilled trench no less the 18 inches deep.
- 11) To prevent runon of surface water a berm no less then 12 inches high will be constructed around the perimeter of the pit. With drainage ditches being directed to the runoff requirements set forth in the APD Condition of Approval.

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

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OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	^e Pool Code 162928	³Pool Name MESA VERDE		
⁴ Property Code	*Propert JICARIL		mber	
OGRID No.	*Operato ENERGEN RESOUR			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	1	26N	3W	•	2500'	NORTH	1420'	EAST	RIO ARRIBA
			······		·	<u> </u>			

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acre	3		18 Joint or	Infill	14 Consolidation C	ode	15 Order No.		
313.54 A	lcres -	(E/2)							

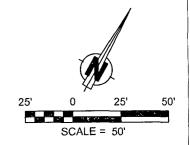
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

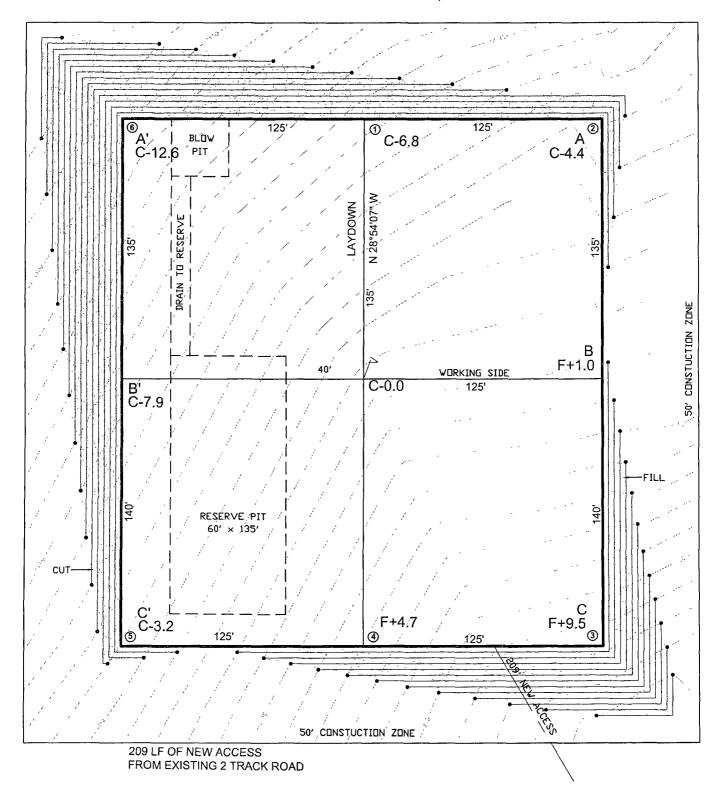
SP CALC	N 89.58'03" W	5286.50' (M)	FND 3 1/4" BC	P	A AMERICAN METATORISM AND A SERVICE
	N 30.00, M	5280.00' (R)	GLO 1916		17 OPERATOR CERTIFICATIO
 			N 0'03'55" É 517.64' (M) 1 1 N 0'14' E 769.56' (R)	SEC.31	I hereby certify that the information contained herein is true and complete to the best of my knowledge an
			NW CORNER SECTION 6		belief
			T-26-N, R-2-W, N.M.P.M. FND 3 1/4" BC GLO 1916	SEC	
			Cro 1919		1 8 d M
	ł.	0,000			Signature
	·	1 1		-1	DEUZI MEUS
	r				Printed Name
			(1) (1) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	E E	DEVEN MEUS Printed Name DAZULONG ENGENCER
				ω Ω.	Title
			4644.45 4644.45	39.5	7/22/09
			4	5239.55° 5235.78°	Date
	1		1420		18 SURVEYOR CERTIFICATION
		1		-	I haveby certify that the well location shown on this p
		LAT. 36.51569 N : : .		-	was plotted from field notes of actual surveys made by me or under my supervision, and that the same is tru
		LONG. 107.09200 W DATUM (NAD 1983)		 	and correct to the best of my belief.
			\mathbf{q}_{i}	, 5e +	11/01/07 00 0000
	4		1		AUGUST 22, 2006
			2	Z	Date of Survey
	§			1~	Signature and Seal of Professional Surveyor:
**************************************				3	OF EN MEXICAL
				88	410
				E 595.09' (M) 594.66' (R)	OF SEW WEXICOLE
	1			594	13/5/15/
				. 26°	[[[10201]] [] []
				015'26" 0'14' E	Edistration of the state of the
	1		SECTION 1 SP CALC	22	1 18/ 18/
	1		SECTION 12	†	TO PROFESSIONAL LES
			SW CORNER SECTION 6	1	DAVID RUSSELL
			T-26-N, R-2-W, N.M.P.M. FND 2" BC	SEC	
			GLO 1915	5 6	1020:

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

ENERGEN RESOURCES CORPORATION

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





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG134 DATE: 08/25/06

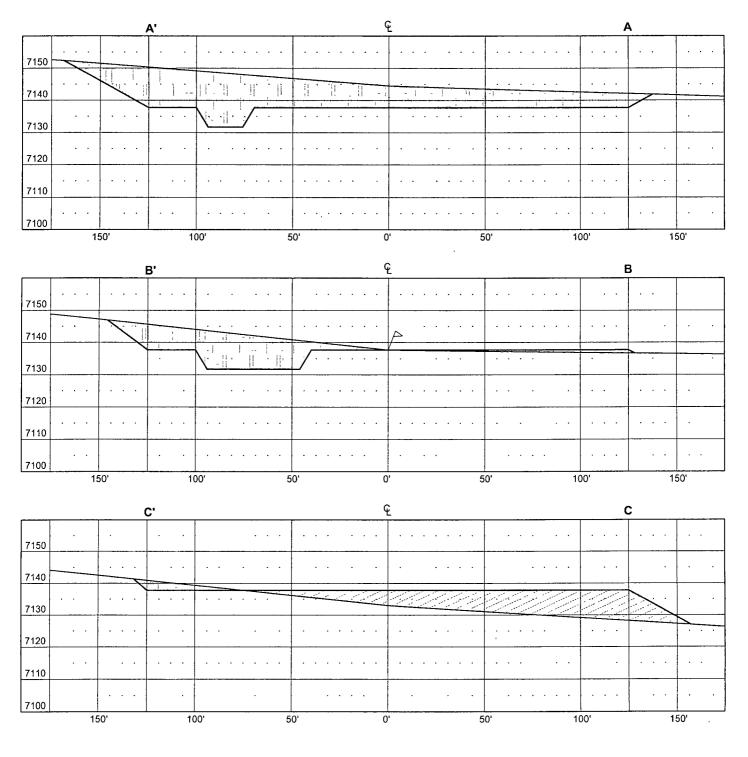


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ENERGEN RESOURCES CORPORATION

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

FINISHED PAD ELEVATION: 7137.7', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERG134 DATE: 08/25/06

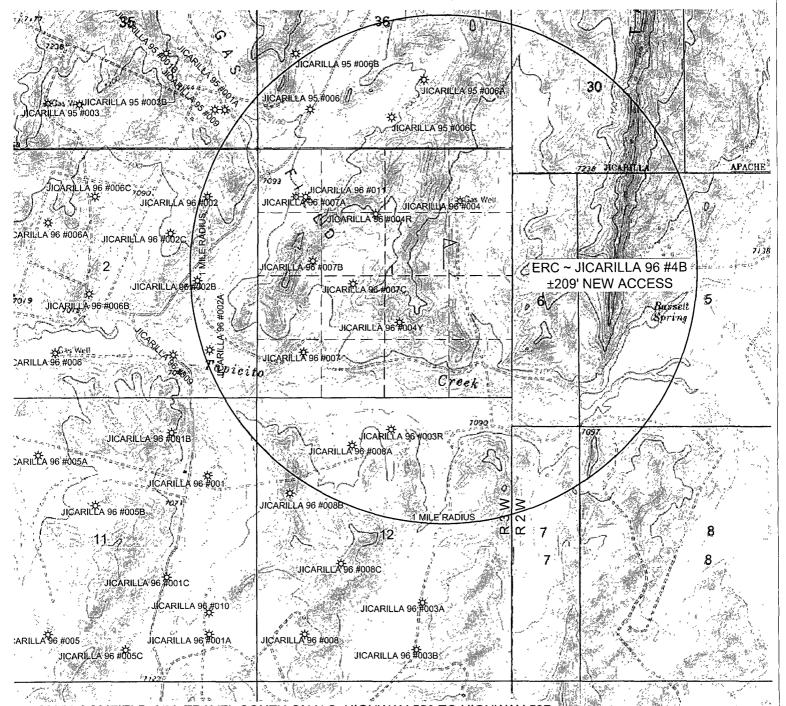




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FROM BLOOMFIELD, NM, TRAVEL SOUTH ON U.S. HIGHWAY 550 TO HIGHWAY 537. TURN LEFT AND TRAVEL NORTH ON HIGHWAY 537 TO JICARILLA ROAD J-4. TURN RIGHT AND TRAVEL EAST 5.0 MILES. TURN RIGHT ONTO FIELD ROAD AND TRAVEL 1.1 MILES TO INTERSECTION.

TURN RIGHT ONTO FIELD ROAD AND TRAVEL 1.1 MILES TO INTERSECTION.
CONTINUE EAST ONTO TWO TRACK ROAD AND TRAVEL 0.4 MILES TO FLAGGED
ACCESS ON LEFT.

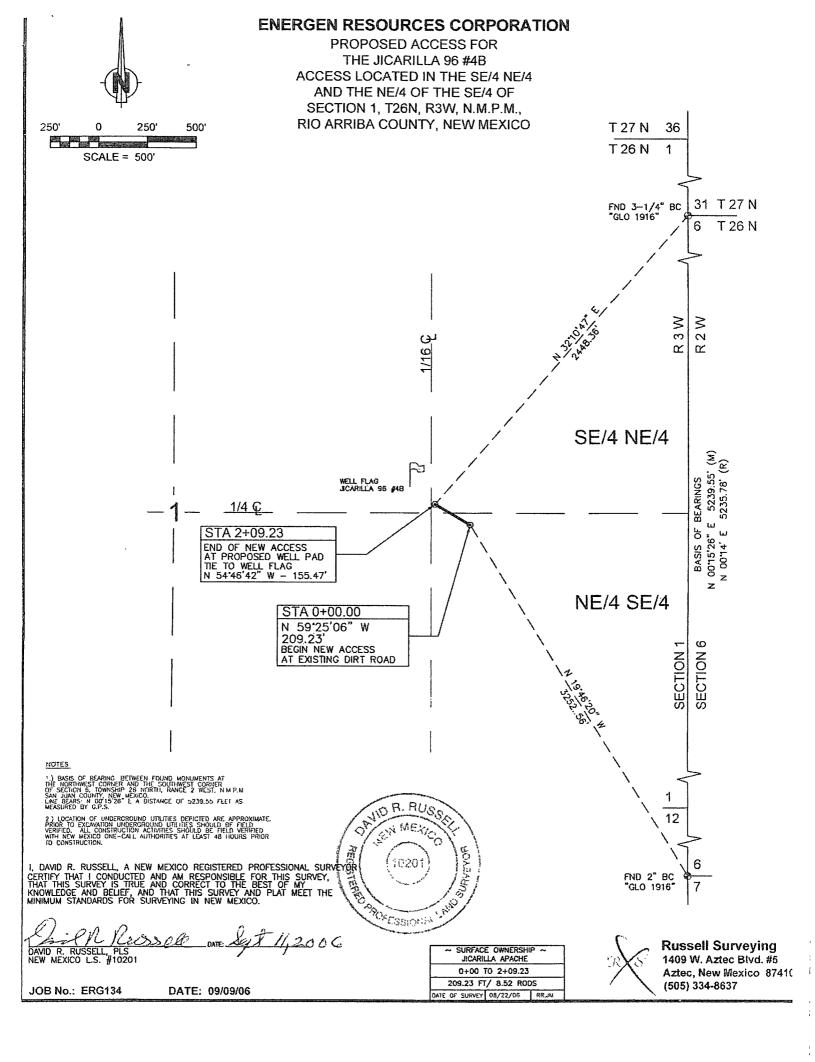
U.S.G.S. QUAD: LEAVRY CANYON, NM

SCALE: 1" = 2000' (1:24,000)

JOB No.: ERG134 DATE: 08/25/06

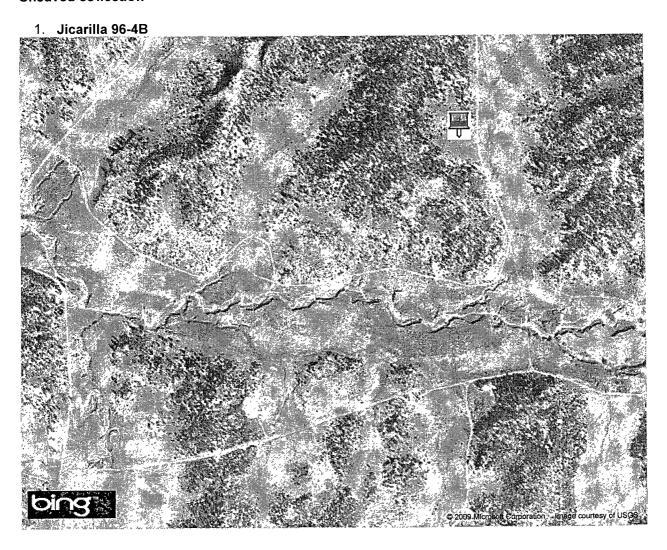


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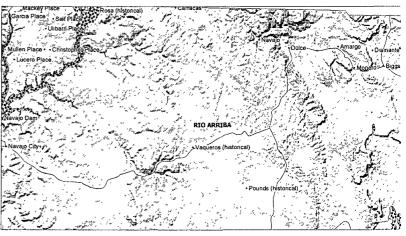
Bing Maps

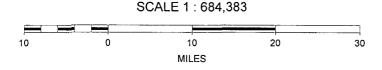
Unsaved collection



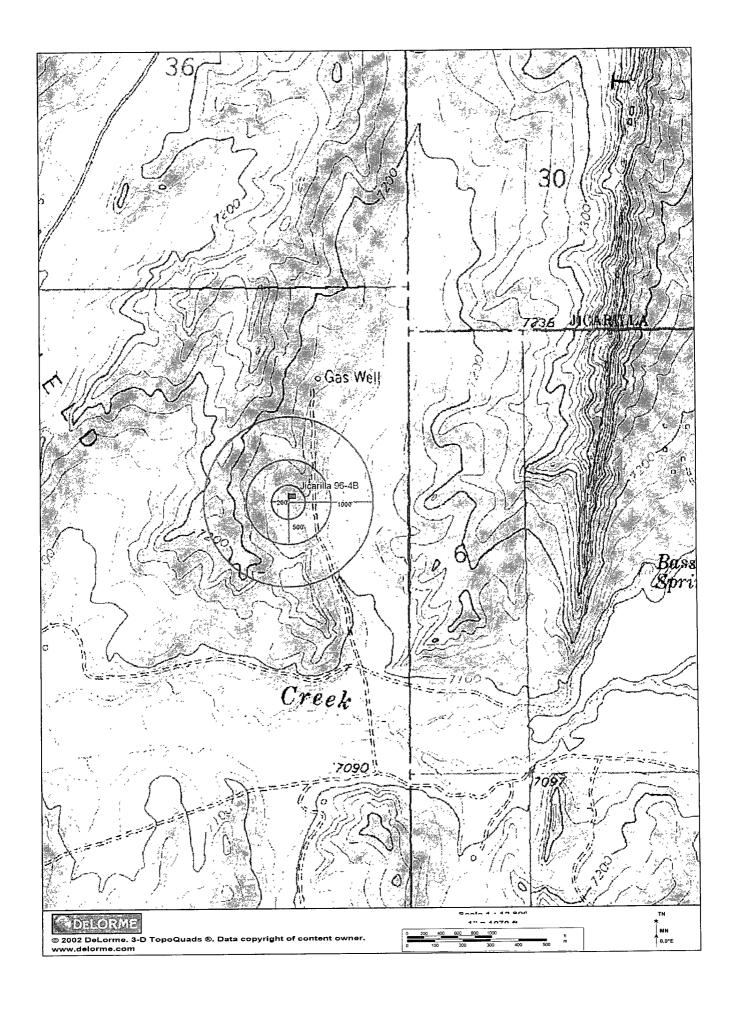
MMQonline Public Version













New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

Basin/County Search:

Basin: San Juan

PLSS Search:

Section(s): 1

Township: 26N

Range: 03W

Hydrogeologic Data:

Site Specific:

The Ojo Alamo formation is the highest water bearing zone at this site with the exception of possible perched water. It is the youngest Tertiary bedrock unit in the San Basin. The formation occurs at 3375' to a depth of 3445' in the Jicarilla 96 #4B and ranges from 3000' to 3500' in this township and range. Based on topographic maps and aerial photos, there did not appear to be any sandy areas located within drainages that may potentially hold shallow ground water. Drainages in the area with elevation changes suggest that ground water depths, if any, will be below 100'. The only potentially unstable areas in the region are over subsurface coal mines. This pit will not be located over a subsurface mine.

The New Mexico State Engineers Water Report shows no water wells in Sec. 1, Township 26N R03W.

Excavated Soil Storage:

The soil excavated for the proposed temporary drilling reserve pit will be stored on location and will be more than 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake.

Geologic Summary:

The Ojo Alamo is a sequence of interbedded sandstones, conglomeratic sandstone, and shales deposited in an alluvial and fluvial environment. The formation accumulated in broad, wet, alluvial aprons. Groundwater is associated with the alluvial and fluvial sandstone aquifers; hence it is controlled by the distribution of these sands.

Reference:

Stone W.J., Lyford F.P., Frenzel P.F., Mizell N.H., and Padgett E.T.: Hydrology and water resources of San Juan Basin, New Mexico Hydrologic Report 6, 1983.

Jicarilla 96 #4B

Closure Plan Addendum

This reserve pit closure plan is being submitted late due to an oversight on Energen's part. The pit was closed following Energen's approved standard pit closure plan, but a plan had not been submitted for this specific pit. Future reserve pit closures will comply with the requirement to have an approved closure plan prior to beginning actual closure work.

The reserve pit was permitted and constructed (not lined) prior to the effective date of the new Pit Rule, so a closure plan was not required to be included as part of the permit application. The drilling of the well was postponed due to pipeline concerns. So by the time the reserve pit was ready to be closed, everyone was familiar with the required procedures to close the pit. Everyone was also used to all pits already having an approved closure plan, so a verification check was not performed.

Again, the pit was closed following Energen's approved standard pit closure plan, but no closure plan paperwork had been submitted for this specific pit. Future pit closures will have approved closure plans prior to the closure work being performed.