Form C-144 July 21, 2008

District L 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District IIL 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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0951	Pit, Closed-Loop Syste	em, Below-Gr	ade Tank, or	
Propos	ed Alternative Method I	Permit or Clos	ure Plan Application	n_
Type of action:	☐ Permit of a pit, closed-loop some Closure of a pit, closed-loop some Modification to an existing positive Closure plan only submitted to below-grade tank, or proposed	system, below-grad ermit for an existing perm	e tank, or proposed alternati	ive method
Instructions: Please submi	it one application (Form C-144) per i	ndividual pit, closed-l	loop system, below-grade tank	or alternative request
environment. Nor does approval reliev	request does not relieve the operator of lial e the operator of its responsibility to comp	bility should operations bly with any other applic	result in pollution of surface water able governmental authority's rule	s, ground water or the s, regulations or ordinances.
operator: Energen Reso	ources Corporation		OGRID#: 162928	
· *	Place, Farmington, NM 874			
Facility or well name:CJ_H				
	.34949		nber:	
	Section 27 Township _		13W County:	San Juan
	de <u>36.63729 N</u>			The state of the s
	ite Private Tribal Trust or Indi	-		
X String-Reinforced			PVC Other	
Closed-loop System: Subsect	tion H of 19 15 17 11 NMAC		·	
	Orilling a new well Workover or Dintent)	Orilling (Applies to ac	ctivities which require prior ap	proval of a permit or notice of
☐ Drying Pad ☐ Above Groun	d Steel Tanks	Other		
\square Lined \square Unlined Liner type:	Thickness mil	LLDPE HDPE	PVC Other	
Liner Seams: Welded Fact	ory Other			2021222324253
4.	ory Other on I of 19.15.17.11 NMAC bbl Type of fluid: ak detection		/S	RECEIVED 25 OIL CONS. DIV. DIST. 3
Below-grade tank: Subsection	n I of 19.15.17.11 NMAC		191	RECEIVED 18
Volume:	bbl Type of fluid:		<u>(</u> 2	DUE 2010 60 0
Tank Construction material:			13.75	OIL CONS. DIV. DIST. 3
Secondary containment with le	ak detection	iner, 6-inch lift and at	utomatic overflow shut-off	
☐ Visible sidewalls and liner ☐	Visible sidewalls only Other			30,0873246.0
Liner type: Thickness	mil LLDPE HD	PE PVC Oth	er	
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.

6.	
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, schoinstitution or church)	ol, hospital,
X Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
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	
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 dry above-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 X No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes X No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes X 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 図No

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Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon Quality Control/Quality Assurance Construction and Installation Plan the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: \[\int \] 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

16 Wäste Removal Closure For Closed-loop Systems That Utilize Above Grou	und Steel Tanks or Haul-off Bins Only: (19.15.17.13.	O NMAC)
Instructions: Please indentify the facility or facilities for the disposal of liquid facilities are required.	s, drilling fluids and drill cuttings. Use attachment if mo	re than two
Disposal Facility Name:		
Disposal Facility Name:		
Will any of the proposed closed-loop system operations and associated activities operations? Yes (If yes, please provide the information below) No	es occur on or in areas that will not be used for future ser	vice and
Required for impacted areas which will not be used for future service and open Soil Backfill and Cover Design Specifications based upon the appro Re-vegetation Plan - based upon the appropriate requirements of Subse Site Reclamation Plan - based upon the appropriate requirements of Su	priate requirements of Subsection H of 19.15.17.13 NM/ction 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 quire administrative approval from the appropriate dist imental Bureau office for consideration of approval. Ji	rict office or may
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS:	Data obtained from nearby wells	☐ Yes X 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:		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 ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed sit		☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or chi - Visual inspection (certification) of the proposed site; Aerial photo; Sai	urch in existence at the time of initial application.	Yes X 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 inspect	or spring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh vadopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written ap		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-Mi	ining and Mineral Division	☐ Yes ☒No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geosciety; Topographic map	ology & 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 o by a check mark in the box, that the documents are attached.	f the following items must be attached to the closure pla	n. Please indicate,
X Siting Criteria Compliance Demonstrations - based upon the appropriate red Proof of Surface Owner Notice - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the a Construction/Design Plan of Temporary Pit (for in-place burial of a drying N Protocols and Procedures - based upon the appropriate requirements of 19.1	f Subsection F of 19.15.17.13 NMAC ppropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19.15 5.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannot H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC	

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Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate an	nd complete to the best of my knowledge and belief.
Name (Print):Jason Kincaid	Title: Drilling Engineer
Signature:	Date: 2/10/2009
e-mail address:jkincaid@energen.com	Telephone: 505 324-4163
20. OCD Approval: Permit Application (including closure plan), \(\bigcap \) Closure	e Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date: 2/06/2012
The Byoliume Carres Joes	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 a complete this section of the form until an approved closure plan has been obtained a	elementing any closure activities and submitting the closure of the completion of the closure activities. Please do not and the closure activities have been completed.
	Closure Completion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Clo If different from approved plan, please explain.	sure Method Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Instructions: Please indentify the facility or facilities for where the liquids, drilling f than two facilities were utilized. Disposal Facility Name: Disposal	luids and drill cuttings were disposed. Use attachment if more
Disposal Facility Name: Disposa	al Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in are Yes (If yes, please demonstrate compliance to the items below) X No	eas 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 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 Longitude	st be attached to the closure report. Please indicate, by a check NAD: 1927 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 a	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Hydro-geologic Data:

Site Specific:

The Ojo Alamo formation is the highest water bearing zone at this site. It is the lowest Tertiary rock unit in the San Basin. The formation occurs at the surface to a depth of 419' at this proposed CJ Holder #200 location and ranges from 250' to 500' 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 50'. 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. 27, Township 28N R13W.

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.

New Mexico Office of the State Engineer POD Reports and Downloads

(MANUAL TO ANALON TO ANALO					
Township: 28N Range	e: 13W Sections:	27			
NAD27 X:	Y: Zone:	Search Ra	dius:		
County: SJ Basin:		Number:	Suf	ffix:	
Owner Name: (First)	(Last)	O Non-Do	mestic	ODomestic	@ All
POD / Surface Dat	a ReportAvg Depth to Water Re	eportWater Colur	nn Repo	rt	
会。 C	ear, Form iWATERS Mei	nu Help			
	WATER COLUMN REP	ORT 02/03/20	09		
· -	e 1=NW 2=NE 3=SW 4=SE) e biggest to smallest)		Depth	Depth	
•	Sec q q q Zone	x y	Well	Water	Column

No Records found, try again

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.

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.

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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.
- 2) 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:

	<u> </u>	
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 dead notice identifying the exact location of the on-site burial will be filed with the county clerk.
- 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

MMQonline Public Version

Area of Interest - CJ Holder #200

Mines, Mills & Quarries Commodity Groups

△ Aggregate & Stone Mines

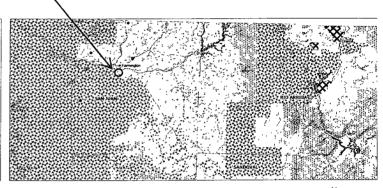
◆ Coal Mines

★ Industrial Minerals Mines

▼ Industrial Minerals Mills

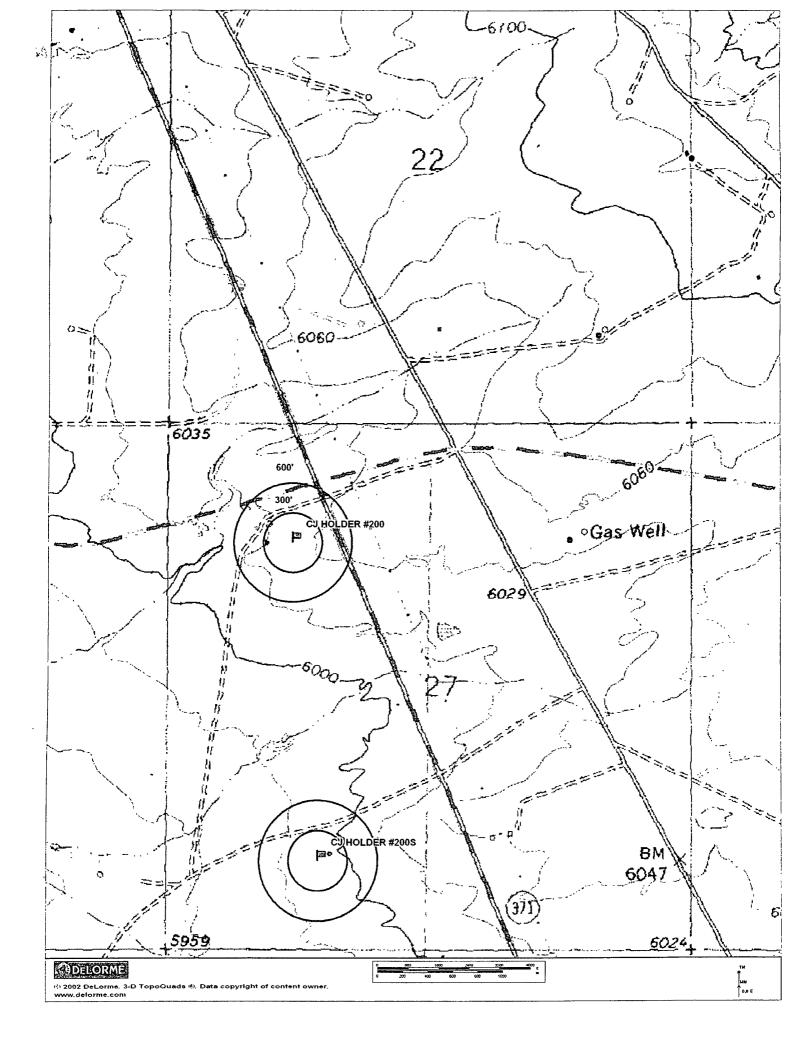
☑ Metal Mines and Mill Concentrate

■ Potash Mines & Refineries



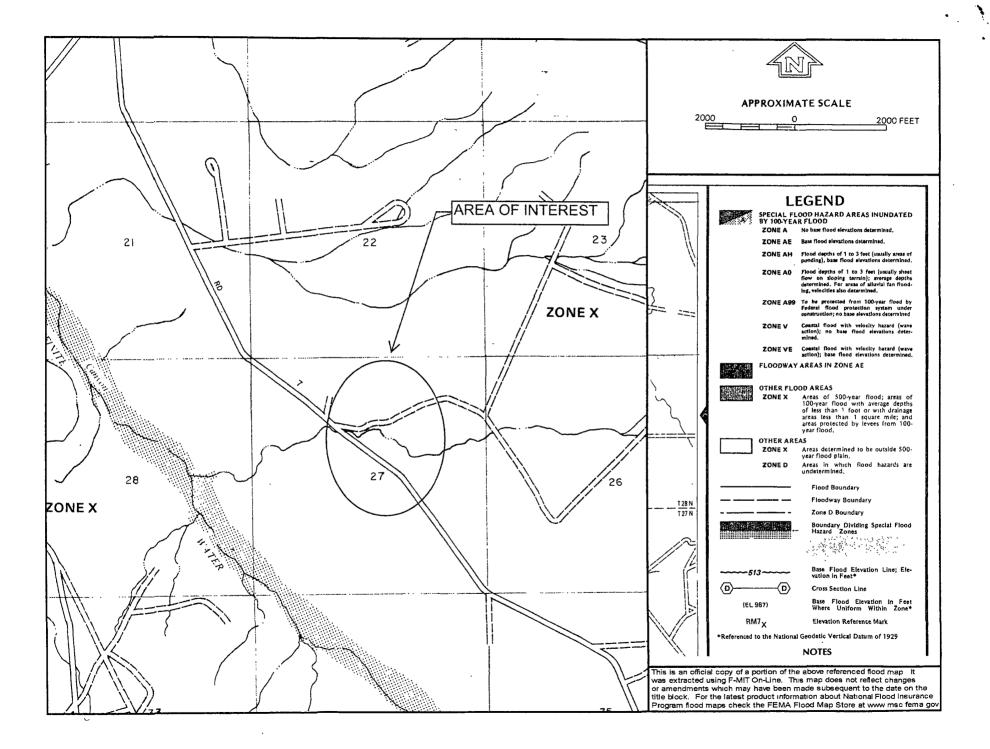
SCALE 1: 2,325,225 20 0 20 40 60 MILES





AERIAL PHOTO: C.J. HOLDER #200





COVER PAGE

RCVD FEB 6 '12 OIL CONS. DIV. DIST. 3

ENERGEN RESOURCES 2010 AFTON PLACE FARMINGTON NM 87401

OGRID # 162928

WELL NAME	CJ HOLDER 200	
API	30.045-34949	
PERMIT	6454	
DEPTH	TO GROUND WATER/CIOZ/DIAGRAM	

Hydrogeologic Data:

100-year Floodplain:

The map available from FEMA does not indicate the well to be in the 100-year floodplain for the subject well, C J Holder Com #200. It is located in San Juan County, NM, in FEMA zone X which is outside the 500 year flood plain.

Site Specific:

The Nacimiento formation is the highest water bearing zone at this site with the exception of possible perched water. It is a Tertiary bedrock unit in the San Juan Basin. The formation occurs at the surface at the C J Holder Com #200 location and ranges from 0' to 400' in this township and range. There are no potentially unstable areas in the region. This below grade tank is not located over a subsurface mine.

The New Mexico State Engineers Water Report shows no water wells in Sec. 27, Township 28N, Range 13W, however based on the topographic map the depth to groundwater could occur at 522'. This well is on top of a mesa surrounded by dry washes that lead into a dry area of Gallegos Canyon Wash 502' lower in elevation. With groundwater known to be 20' below Gallegos Canyon Wash, groundwater is assumed to be at a depth of approximately 522' below the C J Holder Com #200. Any significant ground water shallower than 522' would have leached out long ago.

Geologic Summary:

The Nacimiento sandstone is in the middle Tertiary sequence in the San Juan Basin. This sequence consists because of its slope forming habit is often assumed to be mostly mudstone, however it also contains medium to very coarse grained sandstones. The mudstones display a popcorn weathering characteristic of swelling clays. The Nacimiento ranges in thickness from 413' to 2,232'. Groundwater is associated with the coarser and more continuous sandstone bodies. The Nacimiento conformably overlies the Ojo Alamo formation.

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.

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

State of New Mexico

Form C-102 Revised October 12, 2005

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Submit to Appropriate District Office 1220 South St. Francis Dr. Buchan of Lord State Lease — 4 Copies Santa Fe. NM 87505 Farmington Field Olice

☐ AMENDED REPORT

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

DISTRICT II 1301 W. Grand Avenue , Artesia. NM 88210

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API	Number			*Pool Code 71629		⁸ Pool Name FC			
Property C	ode		*Property Name *Well Number						Well Number
21180	ļ		CJ HOLDER #200						#200
OGRID No	1.			~~~~~	6 Operator	Name			• Elevation
162928	;		ENERGEN RESOURCES 6040				6040		
				*** * ** · · · · · · · · · · · · · · ·	10 Surface	Location			
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	27	28-N	13-W		-1779'	NORTH	1452'	WEST	SAN JUAN
			11 Bot	tom Ho		f Different From	n Surface		
II, or lot no.	Section	Township	Rango	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s la Joint	or Infill 1	*Consolidatio	n Code 16	Order No.				<u>L</u>
320	WI	2							

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the

(et			
16 SB9*54'22"W PROPER	5279.05'(M) PD 2:1 P	ains (R)	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working
9"W 2637.66'(M) (80 Chains'(R)	LAT. 36.63729 N LONG. 108.21062 W		interest, or to a voluntary pooling agreement or a computerry pooling order heretofore entered by the division. Signature
08 %. CO.DN FD 21/2 FRXSS CVF GO 1911			18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat teas plotted from field notes of actual surveys made by
58"W 2642.28'(M)			me or under my supervision, and that the same is true and correct to the best of my belief. 7 30 0-1 Date of Survey Signatura and Scal of Professional Surveyor.
M_ 882, 700,00 FD 3.1/4 BRUSS COP BUILD			8466 Certificate Number

