District L.

162'S N. French Dr., Hobbs, NM 88240
District IL.

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

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: CJ Holder #200S API Number: OCD Permit Number:
U/L or Qtr/Qtr N Section 27 Township 28N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.62849 N Longitude 108.20972 W NAD: ☐1927 ☐1927 ☐1928 Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
Temporary:
3.
Received Received
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. The state of th	
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)	ool, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
8 Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Burconsideration 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 ap office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes XNo
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 XNo
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 XNo
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 XNo

Temporary Pits, Emergency Pits, and Below-grade Tanks Pern Instructions: Each of the following items must be attached to the attached. Hydrogeologic Report (Below-grade Tanks) - based upon the n Hydrogeologic Data (Temporary and Emergency Pits) - based upon the appropriate a Design Plan - based upon the appropriate requirements of 19.15 Operating and Maintenance Plan - based upon the appropriate and 19.15.17.13 NMAC	equirements of Paragraph (4) of Subsequirements of Paragraph (4) of Subsequirements of Paragraph (2) appropriate requirements of 19.15.17.10 (5.17.11 NMAC) requirements of 19.15.17.12 NMAC	heck mark in the box, that the documents are ection B of 19.15.17.9 NMAC 2) of Subsection B of 19.15.17.9 NMAC 3) NMAC
Previously Approved Design (attach copy of design) API Nu	or Pe	ermit Number:
Closed-loop Systems Permit Application Attachment Checklist Instructions: Each of the following items must be attached to the attached. Geologic and Hydrogeologic Data (only for on-site closure) - to Siting Criteria Compliance Demonstrations (only for on-site closure) - to Design Plan - based upon the appropriate requirements of 19.1. Operating and Maintenance Plan - based upon the appropriate of Closure Plan (Please complete Boxes 14 through 18, if applicational 19.15.17.13 NMAC	pased upon the requirements of Paragrosure) - based upon the appropriate responsible NMAC requirements of 19.15.17.12 NMAC	theck mark in the box, that the documents are raph (3) of Subsection B of 19.15.17.9 equirements of 19.15.17.10 NMAC
Previously Approved Design (attach copy of design)	PI Number:	_
Previously Approved Operating and Maintenance Plan Above ground steel tanks or haul-off bins and propose to implement	API Number: t waste removal for closure)	(Applies only to closed-loop system that use
Permanent Pits Permit Application Checklist: Subsection B of Instructions: Each of the following items must be attached to the attached. Hydrogeologic Report - based upon the requirements of Paragricular Siting Criteria Compliance Demonstrations - based upon the appropriate Certified Engineering Design Plans - based upon the appropriate Dike Protection and Structural Integrity Design - based upon the Leak Detection Design - based upon the appropriate requirement Liner Specifications and Compatibility Assessment - based upon Quality Control/Quality Assurance Construction and Installation Operating and Maintenance Plan - based upon the appropriate refreeboard and Overtopping Prevention Plan - based upon the appropriate of 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 Substitutions.	application. Please indicate, by a chaph (1) of Subsection B of 19.15.17.9 oppropriate requirements of 19.15.17.11 e requirements of 19.15.17.11 NMAC e appropriate requirements of 19.15.1 nts of 19.15.17.11 NMAC n Plan the appropriate requirements of equirements of 19.15.17.12 NMAC oppropriate requirements of 19.15.17.12 NMAC oppropriate requirements of 19.15.17.1	NMAC 0 NMAC C 7.11 NMAC of 19.15.17.11 NMAC 1 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 thro Type: \[\int \] Drilling \[\int \] Workover \[\int \] Emergency \[\int \] Cavitation \[\int \] Alternative Proposed Closure Method: \[\int \] Waste Excavation and Removal \[\int \] Waste Removal (Closed-loop syster \[\int \] On-site Closure Method (Only for to \[\int \] In-place Burial \[\int \] O \[\] Alternative Closure Method (Excep	P&A Permanent Pit Bel ms only) emporary pits and closed-loop system n-site Trench Burial	low-grade Tank
Waste Excavation and Removal Closure Plan Checklist: (19.15. closure plan. Please indicate, by a check mark in the box, that the Protocols and Procedures - based upon the appropriate requirem Confirmation Sampling Plan (if applicable) - based upon the applicable - based upon the applicable - based upon the Applicable - based upon the Soil Backfill and Cover Design Specifications - based upon the Re-vegetation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements.	e documents are attached. The sents of 19.15.17.13 NMAC propriate requirements of Subsection and drill cuttings) The sent of Subsection appropriate requirements of Subsection I of 19.15.17.13 NMAC	F of 19.15.17.13 NMAC on H 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, of	d Steel Tanks or Haul-off Bins Only: (19.15.17.13.) Irilling fluids and drill cuttings. Use attachment if mo	D NMAC) re than two
facilities are required. Disposal Facility Name:	isposal Facility Permit Number:	
Disposal Facility Name: D	isposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities operations? Yes (If yes, please provide the information below) No	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 operation of Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection of Site Reclamation Plan - based upon the appropriate requirements of Subsection of S	ate requirements of Subsection H of 19.15.17.13 NM. on L 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 required be considered an exception which must be submitted to the Santa Fe Environmental and/or demonstrations of equivalency are required. Please refer to 19.15.17.10	ire administrative approval from the appropriate dist ental Bureau office for consideration of approval. J	rict office or may
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; D	ata obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; D	ata obtained from nearby wells	☐ Yes XNo ☐ NA
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 churci Visual inspection (certification) of the proposed site; Aerial photo; Satell		Yes X No
Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh wat adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approx	-	Yes X No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual 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-Minin	ng and Mineral Division	☐ Yes ☒No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolo Society; Topographic map	gy & Mineral Resources; USGS; NM Geological	Yes No
Within a 100-year floodplain FEMA map		Yes No
18. 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.	e following items must be attached to the closure pla	n. Please indicate,
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of S Proof of Surface Owner Notice - based upon the appropriate requirements of S Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad X Protocols and Procedures - based upon the appropriate requirements of 19.15.1 X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Su X Disposal Facility Name and Permit Number (for liquids, drilling fluids and dril X Soil Cover Design - based upon the appropriate requirements of Subsection H € X Re-vegetation Plan - based upon the appropriate requirements of Subsection I € X Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate Plan - based upon the ap	ubsection F of 19.15.17.13 NMAC ropriate requirements of 19.15.17.11 NMAC) - based upon the appropriate requirements of 19.15 7.13 NMAC rements of Subsection F of 19.15.17.13 NMAC absection F of 19.15.17.13 NMAC I 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	e and complete to the best of my knowledge and belief.
Name (Print):Jason Kincajd	Title: Drilling Engineer
Signature:	Date: 2/10/2009
e-mail address: jkincaid@energen.com	
e-mail address:jKriica roeeriei geri.com	Telephone:505_324-4163
	osure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date: 2/06/2012
Title: Compliance Office () or	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 ys of the completion of the closure activities. Please do not
22.	
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative of If different from approved plan, please explain.	Closure Method
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems T Instructions: Please indentify the facility or facilities for where the liquids, drillin	
than two facilities were utilized. Disposal Facility Name: Disposal Facility Name.	posal Facility Permit Number:
Disposal Facility Name: Disp	posal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in Yes (If yes, please demonstrate compliance to the items below) X No	areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	is:
	must be attached to the closure report. Please indicate, by a check by a check number of the closure report. Please indicate, by a check number of the closure report. Please indicate, by a check
25.	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure repeblief. I also certify that the closure complies with all applicable closure requirements.	port is true, accurate and complete to the best of my knowledge and ants and conditions specified in the approved closure plan.
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 #200S 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.

r.,

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

1 1 t

Town	ship: 28N Range: 1	.3W Secti	ons:		27	TOTAL TOTAL CONTROL OF THE PARTY OF THE PART	The same of the sa	
NAD2	7 X: Y:		Zone:		Search Ra	dius:		
County: SJ	Basin:			Numi	ber:	Suf	fix:	
Owner Name: (Fir	st)	(Last)	الما المنظمة ا المنظمة المنظمة		O Non-Do	mestic	O Domestic	⊙ All
ſ	POD / Surface Data R	eportAvg De	pth to Water	ReportW	/ater Colur	nn Repoi	rt	
	Clear	Form	iWATERS M	enu	Help			
		WATER	COLUMN RE	PORT ()2/03/20	09		
Water (in feet)	(quarters are 1 (quarters are b		-			Depth	Depth	
Water (in feet) POD Number	Tws Rng Se	cqqq	Zone	x	Y	Well	Water	Column

Temporary Pit Design Plan:

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

F (6)

- 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.

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;

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

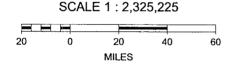
- be notified. The Aztec office of the OCD will also be notified when the disturbed ground successfully achieves re-vegetation.
- 8) The final closure report (C-144) will be filled within 60 days of closure completion and include sampling results, plot plan, details on back filling, covering and inspections 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

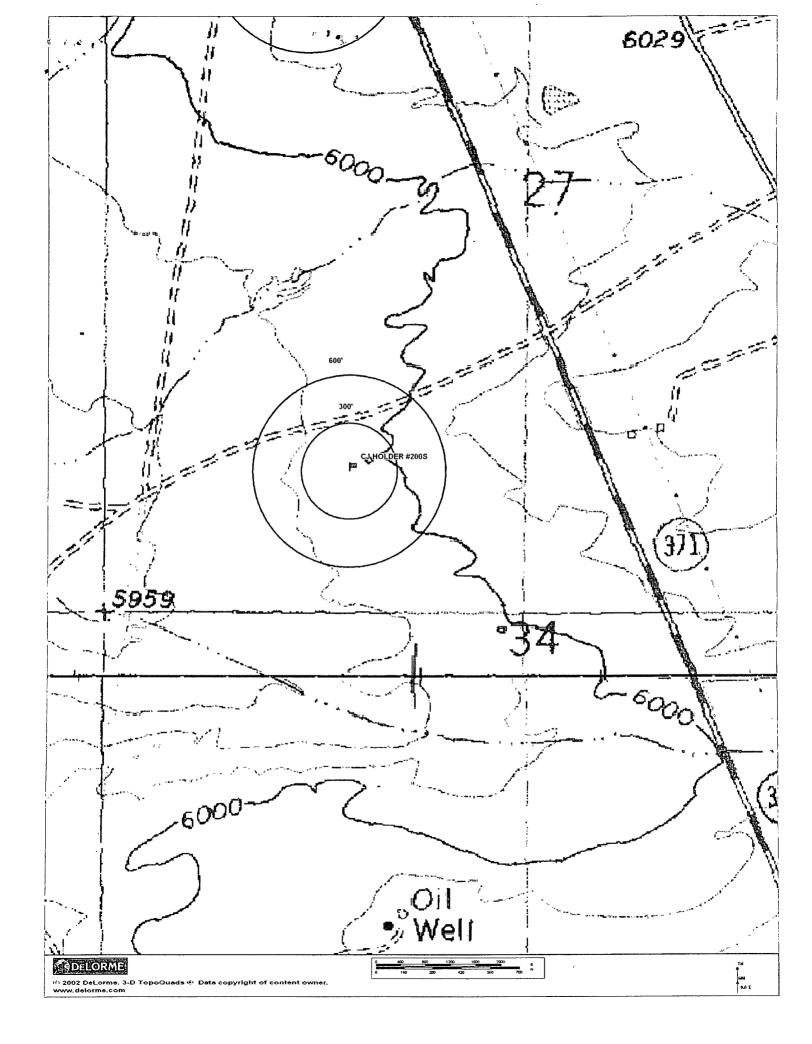
Area of Interest - CJ Holder #200S

/lines, Mil	Ils & Quarries Commodity Groups	
Δ	Aggregate & Stone Mines	
•	Coal Mines	
*	Industrial Minerals Mines	
•	Industrial Minerals Mills	
\mathbf{Z}	Metal Mines and Mill Concentrate	
	Potash Mines & Refineries	

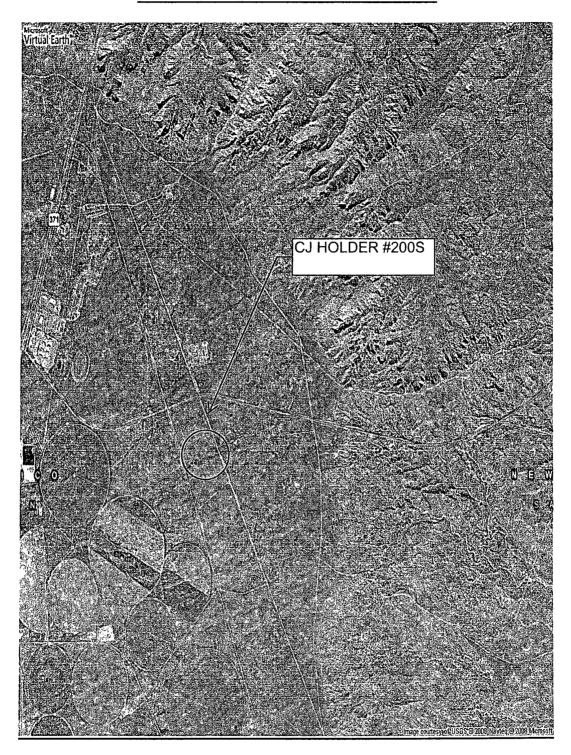


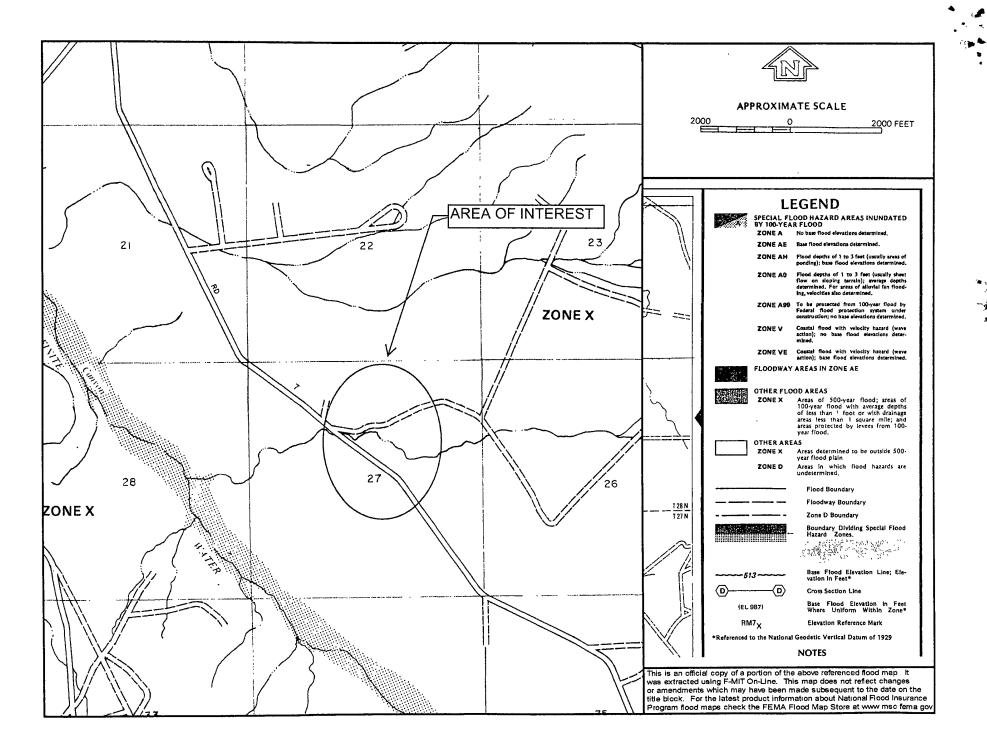






AERIAL PHOTO: C.J. HOLDER #200S





COVER PAGE

RCVD FEB 6'12

OIL CONS. DIV.

DIST. 3

ENERGEN RESOURCES 2010 AFTON PLACE FARMINGTON NM 87401

OGRID # 162928

WELL NAME	E C HOLDER 2008	
API	30.045-34944	
	B 6456 1 AGNAM / DEPTH TO GROUNDWATER	
	HENAMI DEPLATO GROWDHOTER	



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 #200S. 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 #200S location and ranges from 0' to 360' 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 482'. This well is on top of a mesa surrounded by dry washes that lead into a dry area of Gallegos Canyon Wash 462' lower in elevation. With groundwater known to be 20' below Gallegos Canyon Wash, groundwater is assumed to be at a depth of approximately 482' below the C J Holder #200S. Any significant ground water shallower than 462' 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.

Instrict I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico

Form C-102 Revised October 12, 2005

DISTRICT U
1301 W. Grand Avenue, Artesia, NM 68210

Energy, Minerals & Natural Resources Department

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

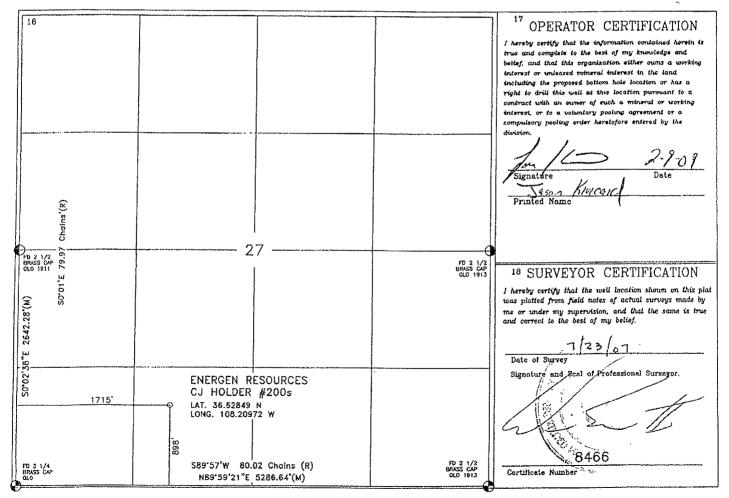
OIL CONSERVATION DIVISION Submit to Appropriate District Office 1220 South St. Francis Dr. Farmington Field Office Fee Lease - 3 Copies Santa Fe. NM 87505

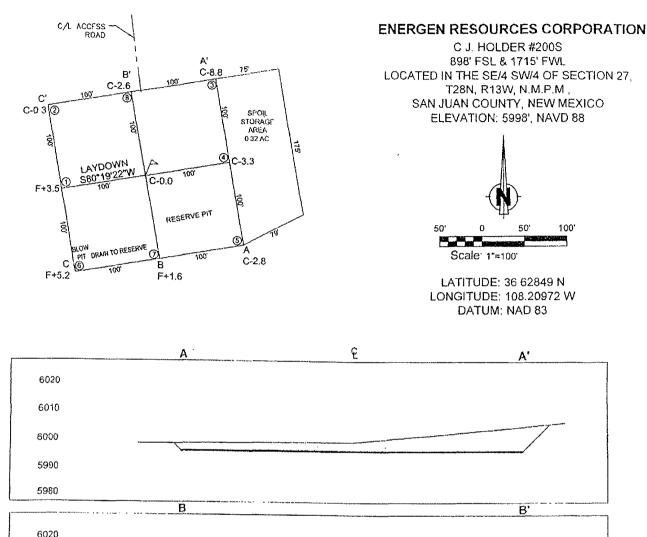
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

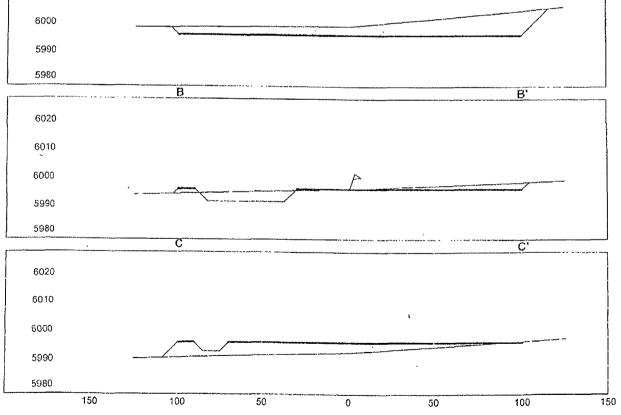
MENDED REPORT

		WEL	LOC	CATION	AND	ACR	EAGE DEI	DICATION	PLAT			
, abi		*Pool Code 71629	E			Pool N FC						
Property C	Code				*Pro	perty N	ame			o M	Well Number	
21190					С	J HOL	DER				#200s	
OGRID No	ο.				* Ope	erator N	ame			•	Elevation	
162928	3				ENERGE	N RES	OURCES				5998'	
					10 Sur	face I	ocation	1040)			
UL or lot po.	Section	Township	Range	Lot Idn	Feet from	ike_	North/South line			st line	County	
K.M.	27	28-N	28-N 13-W 898/35 SOUTH 1745 WES						ST	SAN JUAN		
			¹¹ Bo	ttom Ho	le Locati	on If	Different Fro	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/We	st line	County	
Dedicated Acre	s la Joint	or Infill 14Co	nsolidatio	n Code 15	Order No.			<u> </u>			<u> </u>	
320	W	12										

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







HORIZ. SCALE: 1"=50' VERT. SCALE 1"=30' Red Skies Surveying & Mapping, Inc. A Native American Owned Company

101 Fauver Lane, Bloomfield, New Mexico 87413 Phone/Fax: (505) 632-8906 Cell No: (505) /93-5325