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

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

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

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

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District L

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 ındıvıdual 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 Pl. Farmington, New Mexico 87401
Facility or well name: Carracas Unit 33B #2
API Number: 30-039-30550 OCD Permit Number:
U/L or Qtr/Qtr D Section 33 Township 32N Range 04W County: Rio Arriba
Center of Proposed Design: Latitude
Surface Owner: 🗷 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment
2
x Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: 🗷 Drilling 🔲 Workover
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
TO BECK.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil LLDPE HDPE PVC Other
S Alternative Methods

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)	ol, 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 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.	☐ Yes ☐ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) Art 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 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 I of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Grounstructions: Please indentify the facility or facilities for the disposal of liquids	und Steel Tanks or Haul-off Bins Only: (19.15.17.13.I.s., drilling fluids and drill cuttings. Use attachment if mor	NMAC) te than two	
facilities are required. Disposal Facility Name:	Disposal Facility Permit Number:		
Disposal Facility Name:	Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities 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 oper 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 Subse	priate requirements of Subsection H of 19.15.17.13 NMA ction I of 19.15.17.13 NMAC	AC	
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMAO Instructions: Each siting criteria requires a demonstration of compliance in provided below. Requests regarding changes to certain siting criteria may red be 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 sour quire administrative approval from the appropriate dist amental Bureau office for consideration of approval. Ju	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 No	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS;	.	Yes No	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any 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 che - Visual inspection (certification) of the proposed site; Aerial photo; Sar		☐ Yes ☐No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that watering purposes, or within 1000 horizontal feet of any other fresh water well NM Office of the State Engineer - iWATERS database; Visual inspect	or spring, in existence at the time of initial application.	☐ Yes ☐ No	
Within incorporated municipal boundaries or within a defined municipal fresh adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approximation		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-M	ining and Mineral Division	☐ Yes ☐ No	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Ge Society; 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 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.			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC			

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):	Title:
Signature:	Date:
e-mail address:	Telephone:
20	
OCD Approval: Permit Application (including closure plan) Closur	e Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date: <u>2/10/2012</u>
Title: Compliance Office 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 Considered 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:	fluids and drill cuttings were disposed. Use attachment if more
Disposal Facility Name: Dispos	
Were the closed-loop system operations and associated activities performed on or in an Yes (If yes, please demonstrate compliance to the items below)	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	
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 36.94726 Longitude	
25'	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure repobelief. I also certify that the closure complies with all applicable closure requirements	rt is true, accurate and complete to the best of my knowledge and and conditions specified in the approved closure plan.
Name (Print): Vicki Donaghey	Title: Regulatory Analyst
Signature: VILL TOMOGRALI	Date: vdonaghe@energe(\.COM
e-mail address: 505-324-4136	Telephone: 04/03/09

ENVIROTECH LABS

Chloride Carracas 8#7

OP:	_		
Client:	Energen	Project #:	03022-0001
Sample ID:	10170802	Date Reported:	10-21-08
Lab ID#:	47767	Date Sampled:	10-17-08
Sample Matrix:	Soil Extract	Date Received:	10-17-08
Preservative:	Cool	Date Analyzed:	10-20-08
Condition:	Intact	Chain of Custody:	5566

Parameter Concentration (mg/L)

Total Chloride

690

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Pits 10/17/08.

lyst , R



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	10170802	Date Reported:	10-21-08
Laboratory Number:	47767	Date Sampled:	10-17-08
Chain of Custody:	5566	Date Received:	10-17-08
Sample Matrix:	Soil	Date Analyzed:	10-20-08
Preservative:	Cool	Date Extracted:	10-20-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	88.0	0.9
Toluene	325	1.0
Ethylbenzene	20.3	1.0
p,m-Xylene	321	1.2
o-Xylene	83.6	0.9
Total BTEX	838	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	_
	Fluorobenzene	97.0 %	
	1,4-difluorobenzene	97.0 %	
	Bromochlorobenzene	97.0 %	

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Pits 10/17/08.

Analyst

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0001
Sample ID:	10170802	Date Reported:	10-21-08
Laboratory Number:	47767	Date Sampled:	10-17-08
Chain of Custody No:	5566	Date Received:	10-17-08
Sample Matrix:	Soil	Date Extracted:	10-20-08
Preservative:	Cool	Date Analyzed:	10-20-08
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons 1,910 5.0

ND = Parameter not detected at the stated detection limit.

References:

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

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Pits 10/17/08.

Analyst



March 17, 2009

Certified Mail: 0000 5397 4219

Carson National Forest Service Jicarilla Ranger District 664 East Broadway Bloomfield, NM 87413

Subject: Reserve Pit In-Place Closure Carracas Unit 33B #2

Dear Sir or Madam:

Energen Resources plans to close a reserve pit located on the subject well location. You are on record as the surface owner where this well is located and the New Mexico Oil Conservation Division (NMOCD) rules require notification to the surface owner of our plans to close the reserve pit. NMOCD rules and guidelines will be followed. The well is located in Unit Letter D, Section 33, Township 32N, Range 04W in Rio Arriba County, New Mexico.

r

5397

0000

1,490

7007

Postage Certified Fee

Janie Andr

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees

If there are any questions or concerns, please contact me at 505.324.4136.

Sincerely,

Energen Resources Corporation

Vicki Donaghey SENDER: COMPLETE THIS SECTION Regulatory Analyst ■ Complete items 1, 2, and 3. Also complete Energen Resources item 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the malipieco, or on the front it space permits. D. Is delivery address different from from 1? Article Addressed to: If YES, ontor dollvary address below: Cc: Well File Soryico Typo Cortified Mail ☐ Registered ☐ Roturn Receipt for Morchandis Insurad Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Foe)

> (Transfer from service label) PS Form 3811, February 2004

2. Article Number

Domestic Return Receipt

7007 1490 0000 5397 4219

102595-02-M-15

□ Yoo

MINO

Brandon,

This is our 72 hr. notice to cover two reserve pits. Both well sites are with Energen Resources. Carracas Canyon 10A #16
Township 32n, Range 5W, Section 10, Quarter Section SW

Carracas Unit 33 28
Township 32N, Range 4W, Section 33, Quarter Section SW

Thank you,

Stephanne Coats Rosenbaum Construction 505-325-6367

Well Name: Cotacas 331347

Reserve Pit - Final Closure Report:

The pit was closed with in-place burial. The surface owner was notified by certified mail. The OCD was notified at least 72 hours and not more than one week prior to the pit closing. The following process was used to close the pit:

- 1) All free standing fluids were removed and the liner was cut off at the mudline.
- 2) The contents were solidified to a bearing capacity sufficient to support the final cover. This was accomplished by mixing the contents with soil at a mixing ratio no greater then 3:1 soil to contents.
- 3) Sampling was done by collecting a five-point composite sample of the contents after stabilization. The sample was 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

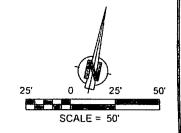
- 4) The analyses demonstrated that the stabilized contents were under the limits listed above. The contents were covered with compacted non-waste containing earthen material to three feet.
- 5) After the stabilized contents were covered, the stockpiled topsoil was replaced to a depth of one foot. Topsoil cover was graded to prevent ponding of water and erosion of the cover material. This was accomplished within six months of rig release.
- 6) The disturbed area not needed for operations will be seeded or planted the first growing season after closing the pit. Seed will be drilled on the contour whenever practical or by other division-approved methods. The goal is to obtain vegetative cover that equals 70% of the native cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass but not including noxious weeds. Cover will be maintained through two successive growing seasons. During the two growing seasons that prove viability there shall be no artificial irrigation of the vegetation. Seeding or planting will continue until the required cover is reached. If conditions are not favorable to establishment of vegetation due to periods of drought or similar problems then the Aztec office of the OCD will be notified. The Aztec office of the OCD will also be notified when the disturbed ground successfully achieves revegetation.
- 7) A steel marker no less then four inches in diameter was cemented in a hole three feet deep in the center of the onsite burial. The top of this marker was flush with the ground with a threaded collar for future abandonment use to allow access of the pad and for safety concerns. On top of this marker, a steel

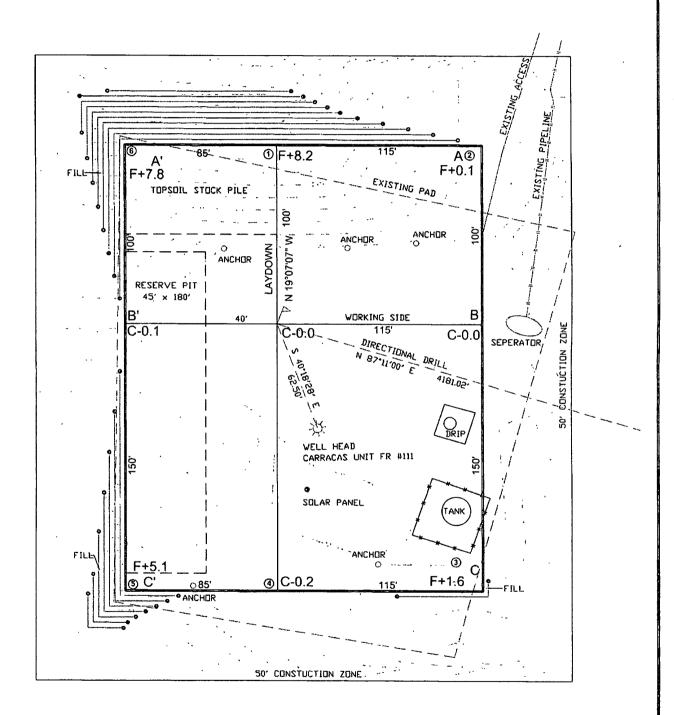
12 inch square plate indicating onsite burial was intermittent welded to the top of the collar to allow easy removal at time of the well being abandoned. Once all wells on the pad are abandoned a four foot tall riser will be threaded into the top of the marker and circumferential welded around the base 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

LATITUDE: 36.94748°N LONGITUDE: 107.26561°W DATUM: NAD 83

ENERGEN RESOURCES CORPORATION

CARRACAS 33 B*#2
1105' FNL & 1000' FWL
LOCATED IN THE NW/4 NW/4 OF SECTION 33.
T32N, R4W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7295', NAVD 88
FINISHED PAD ELEVATION: 7295.0', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

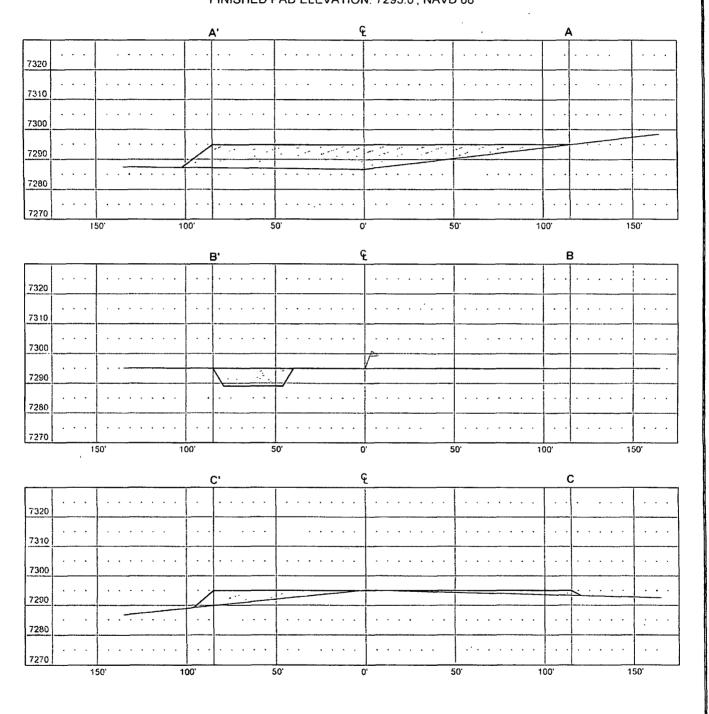
SCALE: 1" = 50' JOB No.: ERG162 DATE: 10/10/07



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

ENERGEN RESOURCES CORPORATION

CARRACAS 33 B #2
1105' FNL & 1000' FWL
LOCATED IN THE NW/4 NW/4 OF SECTION 33,
T32N, R4W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7295', NAVD 88
FINISHED PAD ELEVATION: 7295.0', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERG162 DATE: 10/10/07





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

Submit to Appropriate Copies District I 1625 N French Di District II. 1301 W Grand Av District III. 1000 Rio Brazos F District IV 1220 S. St Francis WELL (4. Reason for fi	r, Hobbs, N venue, Arte dd, Aztec, 1 s Dr, Santa	IM 882 sia, NM NM 874 Fe, NN	240 4 88210 410 M 87505		onergy, Min OIL CO 122	ONSERVA 20 South S anta Fe, N	ATION I St. Franc NM 875	oral R DIVIS is Dr. 05			1. WELLI 30-039 2. Type (ST 3. State (- Of L AT Oil &	Lease E [& Ga] FE s Le	E Fase No.	July 1	C-105 7, 2008 DIAN
l —	J	FDΩ	DT (Edl in be	.vac #1	through #31 fo	r State and E	Zaa walle	البام			Carra			_	coment iv	inc	
	LOSURE	ATT	ACHMENT	(Fill in	boxes #1 throu	gh #9, #15 Ľ	Date Rig R	eleased	l and #32 C)	2 and/or	6. Well Nu #2						
9. Type of Com NEW 8. Name of Ope	WELL [□w	ORKOVER		DEEPENING [□ PLUGB/	аск 🗆	DIFF	ERENT	RESERV	OIR 🗓 C	THE	-	pit	closu	e	
Energen 1		es (Corporati	on.								928					
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12. Location Surface	Unit Let	ter	Section		TOWNSHIP	Range	Lo		Feet	from the	N/S Line	ree	t Hom	the	E/W LINE	Count	,
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13. Date Spudd	ed 14	Date	e T.D. Reach	ed	15. Date Rig 10/09/			16.	Date Co	mpleted (Ready to Pro	duce]			Elevations GR, etc.)	(DF & R	KB,
18 Total Meas	ured Depti	h of W	/ell		19. Plug Bac	k Measured	Depth	20.	Was Dir	ectional S	urvey Made		21 T	ype E	Electric an	d Other L	ogs Run
22 Producing I	nterval(s)	of thi	is completion	- Top,	Bottom, Name			•									
23.					CASING R	ECORD	(Repo	rt all	strings	set in	well)	1					
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Date First Produ	iction		Product	ion Me	ethod (Flowing					ip)		,	Wel	l Stat	us (Prod.	or Shut-ir	1)
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Flow Tubing Press.		Casi	ng Pressure		Calculated 24- Hour Rate	Oıl - Bbl		Gas	- MCF	Wa	ter - Bbl.		Oil	Gravi	ity - API -	(Corr)	
29. Disposition	of Gas (Sold, 1	used for fuel,	vented,	, etc)						30	Test	Witne	ssed	Ву		
31. List Attach	ments				···												
32 If a tempora	ary pit wa	s used	at the well, a	ttach a	plat with the lo	cation of the	tempora	y pit									
33. If an on-site	e burial wa	as used	d at the well,	report	the exact location	on of the on- Latitud		: 36.94	726	Long	itude 1	.07.	2656	 55	NAD:	1927	1983
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"			
T. Yates	T. Miss	T. Cliff House	T. Leadville			
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison			
T. Queen	T. Silurian	T. Point Lookout	T. Elbert			
T. Grayburg	T. Montoya	T. Mancos	T. McCracken			
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte			
T. Glorieta	T. McKee	Base Greenhorn	T. Granite			
T. Paddock	T. Ellenburger	T. Dakota	Т			
T. Blinebry	T. Gr. Wash	T. Morrison	T.			
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			SANDS OR ZONES
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No. 2, from	to	No. 4, from	to
Include date on water of western	IMPORTAN inflow and elevation to which water ro	WATER SANDS	
No. 1, from	to	teet	
No. 2, from	to	feet	
No. 3. from	to	feet	
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LITHOLOGY RECORD (Attach additional sheet if necessary)

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Pit Inspection Log Sheet

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ENERGEN RESOURCES
2010 AFTON PLACE
FARMINGTON NM 87401

OGRID # 162928

WELL NAME CARIZACAS UNIT 33B 2

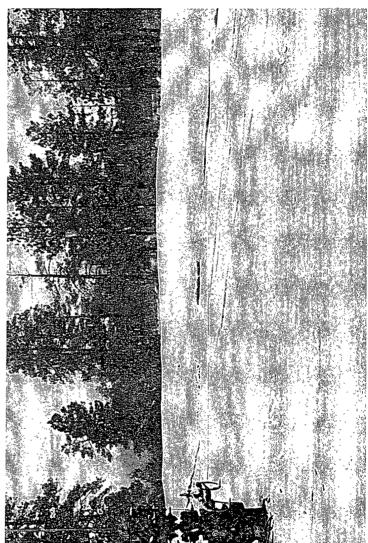
API 30-036-30556

PERMIT 3A16

MIGGIN 6 CIO2 | PHOTO'S







RCVD AUG 22 '08

OIL CONS. DIV.

DISTRICT] 1626 N. French Dr., Robbs, N.M. 66240

State of New Mexico Energy, Minerals & Netural Resources Department

Revised October 12, 2005

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

DISTRICT III 1015 Rio Braxce Rd., Asteo, N.M. 87410

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

Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

☐ AMENDED REPORT

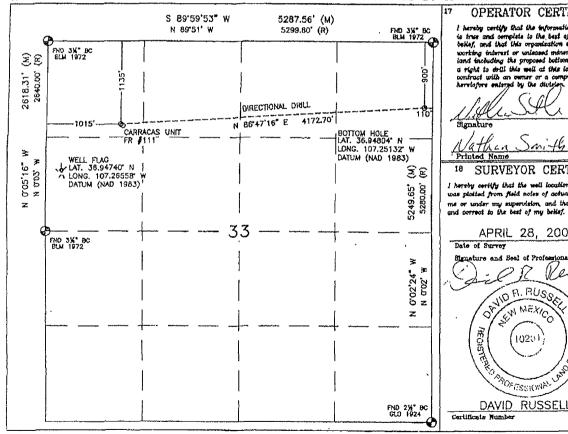
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87506

WELL LOCATION AND ACREAGE DEDICATION PLAT

30 · 039 · 30	Paci Code 7/629	FOULTHUD COAL
Property Code		roperty Name Pall Number RACAS 33 B 2
TOGRED No.		perator Name ** Revation ** SOURCES CORPORATION ** 7295*

10 Surface Location Township UL or lot no. Rection Lat Idn Feet from the Range North/South line Feet from the Rest/West line County D 33 32N 4W 11351 NORTH 1015 WEST RIO ARRIBA ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Lot Idn Feet from the North/South line Township Range East/Wost line Feet from the County 900* 32N 4W 33 NORTH 110 EAST RIO ARRIBA Dedicated Acres Joint or Infill Consolidation Code Order No.

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



OPERATOR CERTIFICATION I hereby certify that the information contained herein I harring certify that the information contained harron is true and compiles to the best of my knowledge and bellef, and that this organization either owns a sorrhing interest or unlessed anterest interest in the land including the proposed bellow hole location or has a right to drill this well at this location pursuant to a contract with an owner or a computacry pooling order 123/08 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plai was plotted from field notes of actual eurosys made by me or under my supervision, and that the same is true and correct to the best of my belief. APRIL 28, 2008 Date of Survey Vech OF UN MEXICA MEXICO AROFESSIONAL AND PLANT OF THE PROPERTY OF THE

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