

July 21, 2008

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

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.  
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

2821 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

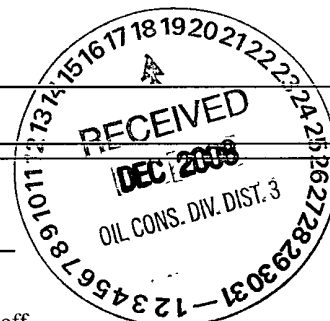
1  
Operator: Energen Resources Corporation OGRID #: 162928  
Address: 2010 Afton Place, Farmington, New Mexico 87401  
Facility or well name: Carracas 10A #5  
API Number: 30-039-30135 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr SE/NE Section 10 Township 32N Range 05W County: Rio Arriba  
Center of Proposed Design: Latitude 36.99803 Longitude 107.34263 NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2  
☒ Pit: Subsection F or G of 19.15.17.11 NMAC  
Temporary: ☒ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A  
☒ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☐ 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 \_\_\_\_\_

4  
☐ Below-grade tank: Subsection I of 19.15.17.11 NMAC  
Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material: \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner type: Thickness \_\_\_\_\_ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

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, school, hospital, institution or church*)
- ☐ 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

9

**Administrative Approvals and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

- ☐ Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10

**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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.*

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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No



**Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more 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 occur on or in areas that will not be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:

- ☐ 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  
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

**Siting Criteria (regarding on-site closure methods only:** 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

- |   |   |
|---|---|
| Ground water is less than 50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 50 and 100 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| 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).<br>- Topographic map; Visual inspection (certification) of the proposed site  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input type="checkbox"/> 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.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> 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.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 500 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within the area overlying a subsurface mine.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within an unstable area.<br>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within a 100-year floodplain.<br>- FEMA map   | <input type="checkbox"/> Yes <input type="checkbox"/> 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

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**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

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**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Donna D. Kelly Approval Date: 1/30/2012

Title: Compliance Officer OCD Permit Number: \_\_\_\_\_

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**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ Closure Completion Date: 11/13/08

22

**Closure Method:**

☐ Waste Excavation and Removal ☒ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

23

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

- ☐ Site Reclamation (Photo Documentation)  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique

24

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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 36.99803 Longitude 107.34263 NAD: ☐ 1927 ☒ 1983

25

**Operator Closure Certification**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Vicki Donaghey Title: Regulatory Analyst

Signature: Vicki Donaghey Date: 12/17/08

e-mail address: vdonaghe@energen.com Telephone: 505.324.4136

Submit to Appropriate District Office  
Five Copies  
District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

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

Form C-105  
July 17, 2008

1. WELL API NO.  
**30-039-30135**
2. Type Of Lease  
☐ STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing

- ☐ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)
- ☒ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19.15 17 13 K NMAC)

5. Lease Name or Unit Agreement Name

**Carracas 10A**

6 Well Number

**#5**

9. Type of Completion

- ☐ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☒ OTHER Pit Closure

8. Name of Operator

**Energen Resources Corporation**

9. OGRID Number

**162928**

10. Address of Operator

**2010 Afton Place, Farmington, NM 87401**

11. Pool name or Wildcat

**Basin Fruitland Coal**

12 Location	Unit Letter	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface										
BH										

13 Date Spudded	14 Date T D. Reached	15 Date Rig Released	16 Date Completed (Ready to Produce)	17 Elevations (DF & RKB, RT, GR, etc.)
18 Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made	21 Type Electric and Other Logs Run	

22. Producing Interval(s), of this completion - Top, Bottom, Name

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

25. TUBING RECORD

26. Perforation record (interval, size, and number)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio	
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API -(Corr.)		

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30 Test Witnessed By

31 List Attachments

32 If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33 If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude **36.99803** Longitude **107.34263** NAD: 1927 X 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature **Vicki Donaghey** Printed Name **Vicki Donaghey** Title **Regulatory Analyst** Date **12/17/08**  
E-mail address **vdonaghe@energen.com**

## 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

Southeastern New Mexico		Northeastern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
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	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp		T. Chinle	T.
T. Penn	T.	T. Permain	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

## OIL OR GAS SANDS OR ZONES

No. 1, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from ..... to .....

No. 2, from ..... to .....

No. 4, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3. from ..... to ..... feet .....

## LITHOLOGY RECORD ( Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology



October 31, 2008

**Certified Mail: 0000 5397 4349**

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

**Subject: Reserve Pit In-Place Closure  
Carracas #11A #3 / Carracas 10A #5**

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 H, Section 10, Township 32N, Range 05W in Rio Arriba County, New Mexico.

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

Sincerely,

Vicki Donaghey  
Regulatory Analyst  
Energen Resources

Cc: Well File  
Correspondence

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"><li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>Print your name and address on the reverse so that we can return the card to you.</li><li>Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>		<p>A. Signature </p> <p>B. Received by (Printed Name) LORRI KETTERMAN</p> <p>C. Date of Delivery 11/3/08</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>	
1. Article Addressed to: CARSON NAT'L FOREST JICARILLA RANGER DISTRICT 664 EAST BROADWAY BLOOMFIELD NM 87413		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

Energen Resources Corporation, an Ener

2. Article Number  
(Transfer from service label)

7007 1490 0000 5397 4332



## Vicki Donaghey

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**From:** Ed Hasely  
**Sent:** Wednesday, October 15, 2008 4:32 PM  
**To:** Perry Kirk; Bill Vocke; Robert Schmidt; Doug Thomas; Jason Kincaid; Devin Mills  
**Cc:** Kellie Skelton; Vicki Donaghey  
**Subject:** FW: Reserve Pit Closure Plans

10A  
#5

Brandon just called and gave us a verbal approval on the two C-144's for the San Juan 32-5 #112 and the Carracas 11A #3 reserve pit closures. Please refer to my earlier emails on the required closure process - the #112 does not require mixing or additional sampling, but the 11A #3 does require mixing and sampling prior to final closure.

Let me know if you have questions.

**Ed Hasely**  
**Energen Resources Corporation**

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**From:** Ed Hasely  
**Sent:** Tuesday, October 14, 2008 12:59 PM  
**To:** 'Powell, Brandon, EMNRD'  
**Subject:** RE: Reserve Pit Closure Plans

Brandon - I know it is your first day back, but have you had the chance to look at these two C-144s for pit closure plans? Let me know. Thanks. ----- How was the fishing??

**Ed Hasely**  
**Energen Resources Corporation**

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**From:** Ed Hasely  
**Sent:** Friday, October 10, 2008 4:12 PM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** Bill Vocke; Perry Kirk; Robert Schmidt; Devin Mills; Jason Kincaid  
**Subject:** Reserve Pit Closure Plans

Brandon - as we discussed, Energen has two C-144s w/ reserve pit closure plans at your office. This is a request for you to review these as soon as possible as we are running into a time crunch w/ the seasonal closures coming up. We would like to get these pits closed this year. Specifically, the two I am talking about are:

Carracas 11A 3 / 10A 5 - I think this was submitted around 10/3. I am not sure if it was submitted as the 11A 3, the 10A 5, or both since both wells used the same pit.

San Juan 32-5 Unit 112 - I think this one was dropped off at your office yesterday morning (10/10).

Please let me know as we do not want to be forced into leaving these pits open until next spring. Thanks.

10/28/2008

Detail of Closure: completed by means of covering pit contents with a minimum of three feet of clean dirt and one foot of top soil.



EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0001
Sample ID:	Soil	Date Reported:	11-06-08
Laboratory Number:	48000	Date Sampled:	11-03-08
Chain of Custody No:	5693	Date Received:	11-03-08
Sample Matrix:	Soil	Date Extracted:	11-03-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Analysis Requested:	8015 TPH

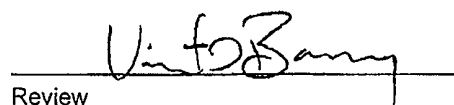
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	3.3	0.1
Total Petroleum Hydrocarbons	3.8	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: ~~Caracas~~ 11A #3.

  
Analyst

  
Review



EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-04-08 QA/QC	Date Reported:	11-06-08
Laboratory Number:	47934	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-04-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0164E+003	1.0168E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0116E+003	1.0120E+003	0.04%	0 - 15%

Blank Conc. (mg/L mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	61.2	60.8	0.7%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	246	98.4%	75 - 125%
Diesel Range C10 - C28	61.2	250	301	96.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 47934, 47936, 47938, 47939, 47944 - 47947, 47965, and 48000.

Analyst

Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	Soil	Date Reported:	11-06-08
Laboratory Number:	48000	Date Sampled:	11-03-08
Chain of Custody:	5693	Date Received:	11-03-08
Sample Matrix:	Soil	Date Analyzed:	11-04-08
Preservative:	Cool	Date Extracted:	11-03-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	4.4	0.9
Toluene	20.2	1.0
Ethylbenzene	1.7	1.0
p,m-Xylene	15.2	1.2
o-Xylene	5.0	0.9
Total BTEX	46.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Caracas 11A #3

Analyst

Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-04-BT QA/QC	Date Reported:	11-06-08
Laboratory Number:	47935	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-04-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	4.8429E+007	4.8526E+007	0.2%	ND	0.1
Toluene	3.7314E+007	3.7388E+007	0.2%	ND	0.1
Ethylbenzene	2.8263E+007	2.8320E+007	0.2%	ND	0.1
p,m-Xylene	6.0642E+007	6.0764E+007	0.2%	ND	0.1
o-Xylene	2.7882E+007	2.7938E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	8.1	8.2	1.2%	0 - 30%	1.0
Ethylbenzene	1.6	1.5	6.3%	0 - 30%	1.0
p,m-Xylene	15.9	17.9	12.6%	0 - 30%	1.2
o-Xylene	5.9	5.7	3.4%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.0	98.0%	39 - 150
Toluene	8.1	50.0	55.8	96.0%	46 - 148
Ethylbenzene	1.6	50.0	49.6	96.1%	32 - 160
p,m-Xylene	15.9	100	113	97.3%	46 - 148
o-Xylene	5.9	50.0	52.9	94.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 47935 - 47937, 47939, 47944 - 47947, 47965, and 48000

Analyst

Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

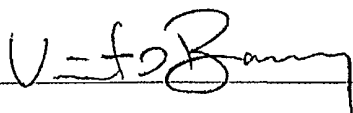
Client:	Energen	Project #:	03022-0001
Sample ID:	Soil	Date Reported:	11-07-08
Laboratory Number:	48000	Date Sampled:	11-03-08
Chain of Custody No:	5693	Date Received:	11-03-08
Sample Matrix:	Soil	Date Extracted:	11-04-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Analysis Needed:	TPH-418.1

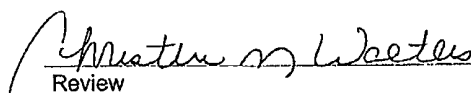
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	136	5.0

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: Caracas 11A #3.

  
Analyst

  
Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	11-05-08
Laboratory Number:	11-04-TPH.QA/QC 47950	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	11-04-08
Preservative:	N/A	Date Extracted:	11-04-08
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	11-03-08	11-04-08	1,420	1,540	8.5%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	8.0


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	426	455	6.7%	+/- 30%

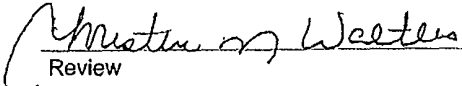
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	426	2,000	2,220	91.5%	80 - 120%

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: QA/QC for Samples 47940, 47948 - 47956, 48000 and 48013.

  
Analyst

  
Review





Chloride

Client:	Energen	Project #:	03022-0001
Sample ID:	Soil	Date Reported:	11-07-08
Lab ID#:	48000	Date Sampled:	11-03-08
Sample Matrix:	Soil	Date Received:	11-03-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5693

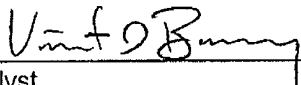
Parameter	Concentration (mg/Kg)
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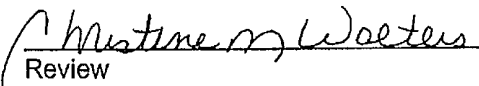
Total Chloride

90.0

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: Caracas 11A #3.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

5693

Client: <b>Energex</b>			Project Name / Location: <b>Caracas #11A #3</b>			ANALYSIS / PARAMETERS													
Client Address: <b>Perm 7010 Astor Place</b>			Sampler Name: <b>Bill Vocke</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: <b>330-2519</b>			Client No.: <b>03022-0001</b>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
Soil	11/3	8/30	48000	Soil Solid	1														
				Sludge Aqueous															
				Soil Solid															
				Sludge Aqueous															
				Soil Solid															
				Sludge Aqueous															
				Soil Solid															
				Sludge Aqueous															
				Soil Solid															
				Sludge Aqueous															
				Soil Solid															
				Sludge Aqueous															
				Soil Solid															
				Sludge Aqueous															
Relinquished by: (Signature) <b>Bill Vocke</b>						Date <b>11/3</b>	Time <b>10:00</b>	Received by: (Signature) <b>[Signature]</b>						Date <b>11/3/08</b>	Time <b>10:00</b>				
Relinquished by: (Signature)								Received by: (Signature)											
Relinquished by: (Signature)								Received by: (Signature)											

**\*Rush\***

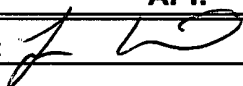
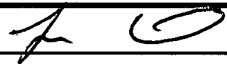





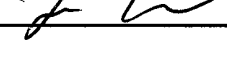
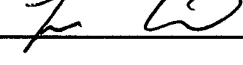
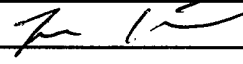
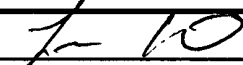
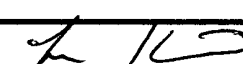
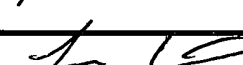

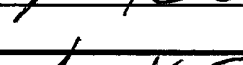
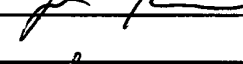
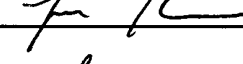
**ENVIROTECH INC.**

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505-632-0615

Email results to **Kellie Skelton**



### Pit Inspection Log Sheet

Well Name: Carracas 10A #5		API: 3003930135
Name (Print): Jason Kincaid	Signature: 	Date: 5/29/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 5/30/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 5/31/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/1/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/2/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/3/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/4/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/5/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/6/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/7/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/8/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/9/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/10/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/11/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/12/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/13/2008
Comments:		
Name (Print): Jason Kincaid	Signature: 	Date: 6/14/2008
Comments:		

# ENERGEN

R E S O U R C E S

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/15/2008

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/16/2008

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/17/2008

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/18/2008

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/19/2008

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/20/2008

Comments:

Name (Print): Jason Kincaid Signature:  Date: 6/21/2008

Comments:

Name (Print): Signature: Date:

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# COVER PAGE

RCVD JAN 30 '12

ENERGEN RESOURCES  
2010 AFTON PLACE  
FARMINGTON NM 87401

OIL CONS. DIV.

DIST. 3

OGRID # 162928

WELL NAME CARRACAS 10A 5

API 30-039-30135

PERMIT 2821

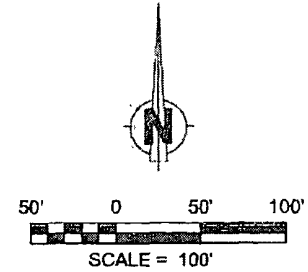
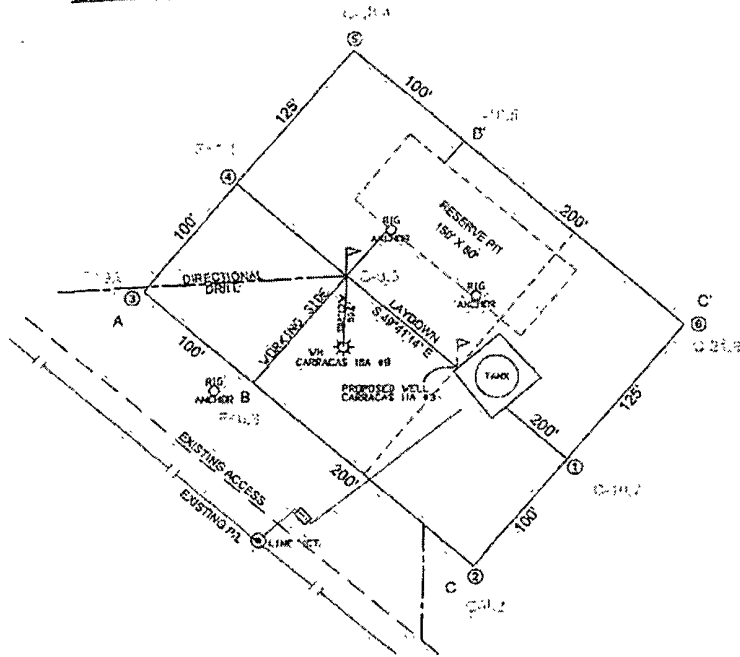
C102/ PIT DIAGRAM/ PHOTO'S

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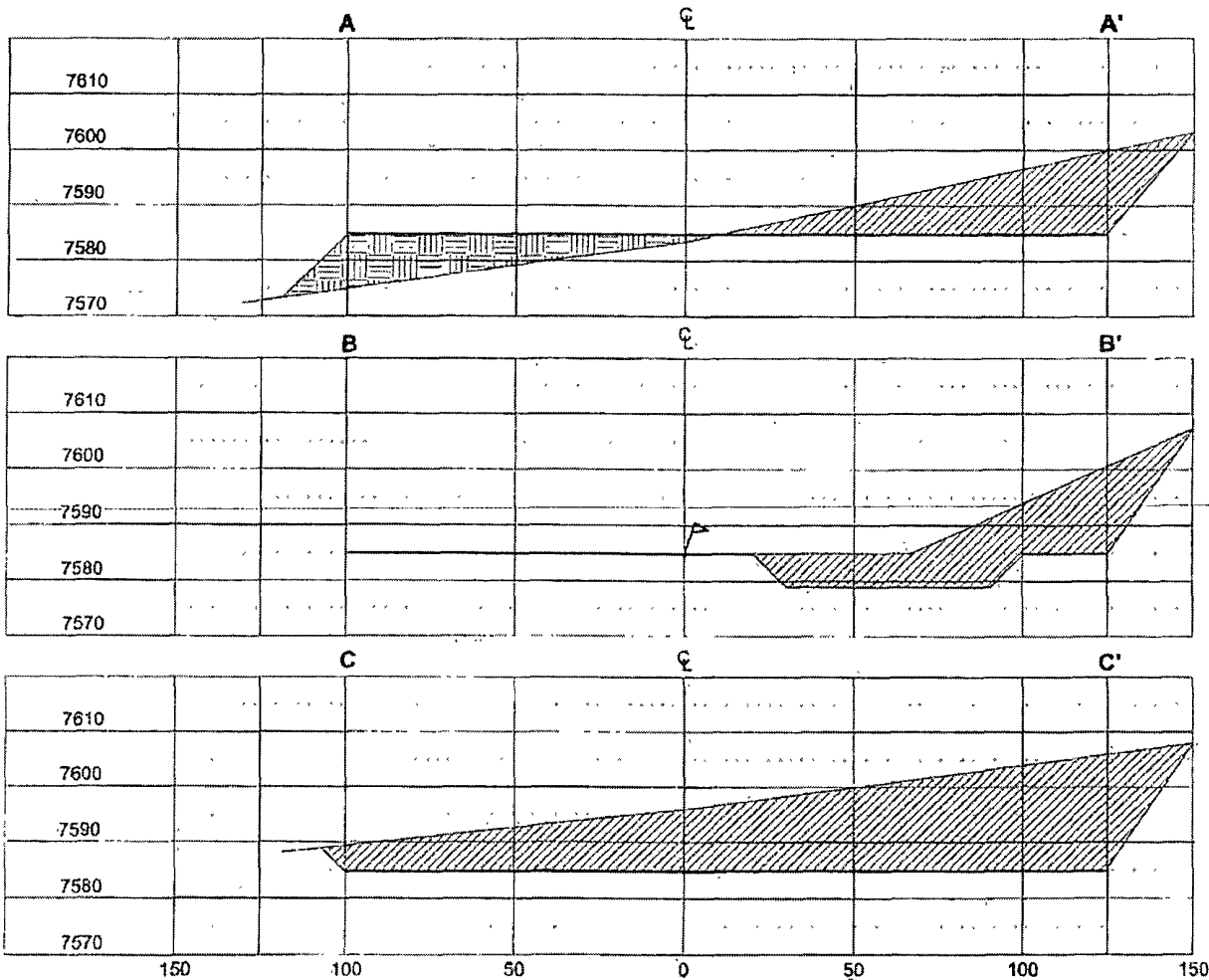
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# ENERGEN RESOURCES CORPORATION

CARRACAS 10A #5  
755' FNL & 620' FEL  
LOCATED IN THE SE/4 NE/4 OF SEC. 10,  
T32N, R5W, N.M.P.M.,  
RIO ARriba COUNTY, NEW MEXICO  
ELEVATION: 7585', NAVD 88



LATITUDE: 36°59'53"N  
LONGITUDE: 107°20'34"W  
DATUM: NAD 83



HORIZ. SCALE: 1"=50'  
VERT. SCALE: 1"=30'

**Russell Surveying**  
1409 W. Aztec Blvd. #5  
Aztec, New Mexico 87410

DISTRICT I  
1825 N. French Dr., Hobbs, N.M. 88240

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

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code	<sup>5</sup> Property Name CARRACAS 10A	<sup>6</sup> Well Number 5
<sup>7</sup> GRID No. 162928	<sup>8</sup> Operator Name ENERGEN RESOURCES CORPORATION	<sup>9</sup> Elevation 7585'

<sup>10</sup> Surface Location

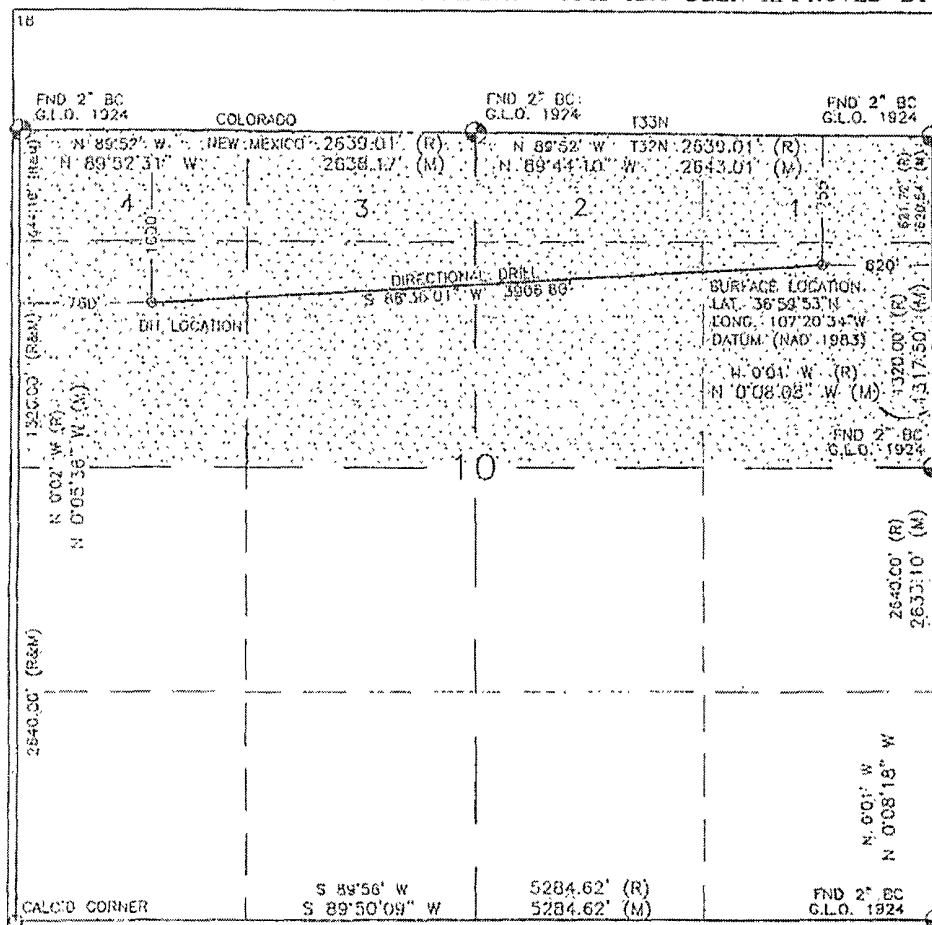
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
H	10	32N	5W		755'	NORTH	620'	EAST	RIO ARRIBA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	10	32N	5W		1000'	NORTH	760'	WEST	RIO ARRIBA

<sup>12</sup> Dedicated Acres 236.63 Acres - (N/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein  
is true and complete to the best of my knowledge and  
belief

*Nathan Smith*  
Signature

Nathan Smith  
Printed Name

Drilling Engineer  
Title

12/07/06  
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat  
was plotted from field notes of actual surveys made by  
me or under my supervision, and that the same is true  
and correct to the best of my belief

NOVEMBER 08, 2005

Date of Survey

Signature and Seal of Professional Surveyor

*David R. Russell*  
DAVID R. RUSSELL

Certificate Number 10201



