1625 N French Dr, Hobbs, NM 88240 District II 1301 W Gr

State of New Mexico Energy Minerals and Natural Resources Department

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

sof w Grand Avenue, Artesia, NM 88210 ustrict III. 000 Rio Brazos Road, Aztec, NM 87410 ustrict IV. 220 S St Francis Dr , Santa Fe, NM 87505		Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	NMOC For per the Sant provide District	
3442	Pit, Close	ed-Loop System. Below-Grade	Tank, or	

	ermit or Closure Plan Application
☐ Closure of a pit, closed-loop sy ☐ Modification to an existing per	r an existing permitted or non-permitted pit, closed-loop system,
Instructions Please submit one application (Form C-144) per in	dividual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of hab environment. Nor does approval relieve the operator of its responsibility to comply	lity should operations result in pollution of surface water, ground water or the with any other applicable governmental authority's rules, regulations or ordinances
Operator Energen Resources Corporation	OGRID#. <u>162928</u>
Address 2010 Afton Pl. Farmington, New Mexico 8740)1
Facility or well nameCarracas Unit #16	
API Number 30-039-30468	OCD Permit Number
U/L or Qtr/Qtr K Section 10 Township	32N Range 05W County Rio Arriba
Center of Proposed Design Latitude 36.99311	Longitude107.35384 NAD □1927 🗓 1983
Surface Owner 🗷 Federal 🗌 State 🗌 Private 🔲 Tribal Trust or India	n Allotment
Temporary	DPE HDPE PVC Other Volumebbl Dimensions L x Wx D
Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation P&A Drilling a new well Workover or Dintent) Drying Pad Above Ground Steel Tanks Haul-off Bins Lined Unlined Liner type Thickness mil Liner Seams. Welded Factory Other Below-grade tank Subsection I of 19 15 17 11 NMAC	LLDPE HDPE PVC Other
Volume: bbl Type of fluid	OIL CONS DIV DIST. 3
Tank Construction material	——————————————————————————————————————
Secondary containment with leak detection Visible sidewalls, li	ner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _	
Liner type ThicknessmtlLLDPE HDI	PE 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

Fencing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church)	ol, hospital,
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)	
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. Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	reau office for
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 ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of the considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society, Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docume attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17 9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17.5 and 19.15 17 13 NMAC	ents are
Previously Approved Design (attach copy of design) API Number or Permit Number	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docume 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 and 19 15 17.13 NMAC	
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number (Applies only to closed-loop system above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	em that use
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 docume attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15 17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 NMAC Leak Detection Design - based upon the appropriate requirements of 19 15.17 11 NMAC Liner Specifications and Compatibility Assessment - based upon Quality Control/Quality Assurance Construction and Installation Plan the appropriate requirements of 19 15 17 12 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	ents are
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 Systems 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 consider	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17 13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15 17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC	d to the

Waste Removal Closure For Closed-loop Systems That Utilize Above Groun Instructions Please indentify the facility or facilities for the disposal of liquids,	nd Steel Tanks or Haul-off Bins Only. (19.15 17.13 E drilling fluids and drill cuttings Use attachment if mor	NMAC) se than two
facilities are required Disposal Facility Name I		
Disposal Facility Name I		
Will any of the proposed closed-loop system operations and associated activities operations?	occur on or in areas that will not be used for future serv	vice and
Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operation. Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsect Site Reclamation Plan - based upon the appropriate requirements of Subsection.	riate requirements of Subsection H of 19.15 17.13 NMA tion I of 19 15 17.13 NMAC	AC
Siting Criteria (regarding on-site closure methods only 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require be considered an exception which must be submitted to the Santa Fe Environmental or demonstrations of equivalency are required. Please refer to 19.15.17.16	he closure plan. Recommendations of acceptable sour uire administrative approval from the appropriate dist nental 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, I	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, I		☐ Yes ☐ No ☐ 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; I	Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other slake (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 chur Visual inspection (certification) of the proposed site, Aerial photo, Sate		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that I watering purposes, or within 1000 horizontal feet of any other fresh water well o - NM Office of the State Engineer - iWATERS database; Visual inspection	or spring, in existence at the time of initial application	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh w adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written app	-	Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; V	isual 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-Min	ung and Mineral Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geo Society, Topographic map	logy & 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 by a check mark in the box, that the documents are attached	the following items must be attached to the closure pla	in. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Proof of Surface Owner Notice - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of a drying p Protocols and Procedures - based upon the appropriate requirements of 19.15 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and d Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	Subsection F of 19 15.17 13 NMAC oppropriate requirements of 19.15.17.11 NMAC and) - based upon the appropriate requirements of 19.15.17 13 NMAC uirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19 15.17 13 NMAC little cuttings or in case on-site closure standards cannot H of 19 15 17.13 NMAC I of 19.15 17 13 NMAC	

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		
	Plan (only)		
Closure Report (required within 60 days of closure completion) Subsection K of 19 Instructions: Operators are required to obtain an approved closure plan prior to imple report. The closure report is required to be submitted to the division within 60 days of complete this section of the form until an approved closure plan has been obtained and	ementing any closure activities and submitting the closure the completion of the closure activities. Please do not		
22			
Closure Method Waste Excavation and Removal Con-Site Closure Method Alternative Closure If different from approved plan, please explain	re Method Waste Removal (Closed-loop systems only)		
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Unstructions: Please indentify the facility or facilities for where the liquids, drilling fluthan two facilities were utilized. Disposal Facility Name	ids and drill cuttings were disposed. Use attachment if more		
Disposal Facility Name Disposal	Facility Permit Number		
Were the closed-loop system operations and associated activities performed on or in area Yes (If yes, please demonstrate compliance to the items below) No	s that will not be used for future service and operations?		
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique			
Closure Report Attachment Checklist Instructions Each of the following items must 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 36.99311 Longitude 107.35384 NAD 1927 1983			
25			
Operator Closure Certification I hereby certify that the information and attachments submitted with this closure report i belief I also certify that the closure complies with all applicable closure requirements an	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 Will Droughty	Date: vdonaghe@energe		
e-mail address 505-324-4136 V	Telephone 04/14/09		



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

CARRACAS UNIT #16

Client:	Energen		Project #:	03022-0001
Sample ID:	10170802	1	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 ⁷	10-20-08
Condition:	Intact		Analysis Requested	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Ƙg)
Gasoline Range (C5 - C10)	21.7	0.2
Diesel Range (C10 - C28)	19.2	0.1
Total Petroleum Hydrocarbons	40.9	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:

Pits 10/17/08.

Analyst

Review



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	٠
Toluene	325	1.0	
Ethylbenzene	20.3	1.0	
p,m-Xylene	321	1.2	
o-Xylene	83.6	0.9	
Total RTFX	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

Parameter	Concentration (mg/kg)	Det. Limit (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

Musturn Walter
Review



Chloride

* * 4 //	. A		
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	J/L)
Total Chloride		690	
			6
			•
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.		

Analyst

Review



March 17, 2009

Certified Mail: 0000 5397 4202

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

Subject: Reserve Pit In-Place Closure Carracas Unit #16

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

539.

7007

CERTIFIED MAIL RECEIPT

Certified Fee

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees

(Domestic Mail Only; No Insurance Coverage Provided)

320

If there are any questions or concerns, please contact me at 505.324.4136. Sincerely, COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION Vicki Donaghey A. Signature Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse Addressee so that we can return the card to you. ate of Delivery Received by (Printed Name) Attach this card to the back of the mailpiece, -Kef/Erm or on the front if space permits. D Is delivery address different from item 1? If YES, enter delivery address below: Seryice Type Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ C O.D ☐ Insured Mail 4. Restricted Delivery? (Extra Fee) ☐ Yes

7007 1490 0000 5397

Domestic Return Receipt

4202

102595-02-M-1540

2. Artičle Number

PS Form 3811, February 2004

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

Cárracas Unit 33,2B ? Township 32N, Range 4W, Section 33, Quarter Section SW

Thank you,

Stephanne Coats Rosenbaum Construction 505-325-6367

10/30/2008

.

Well Name: Carracas _104 #176.

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;

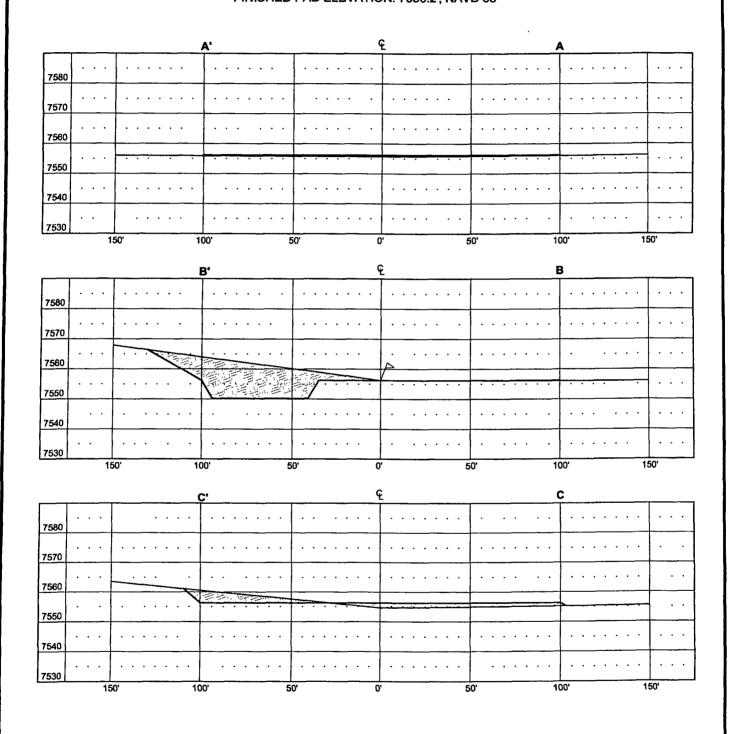
Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000

- 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

ENERGEN RESOURCES CORPORATION

CARRACAS CANYON UNIT 10A #16
2015' FSL & 1400' FWL
LOCATED IN THE NE/4 SW/4 OF SECTION 10, T32N,
R5W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7556', NAVD 88
FINISHED PAD ELEVATION: 7556.2', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERG074 DATE: 05/30/07

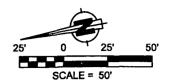


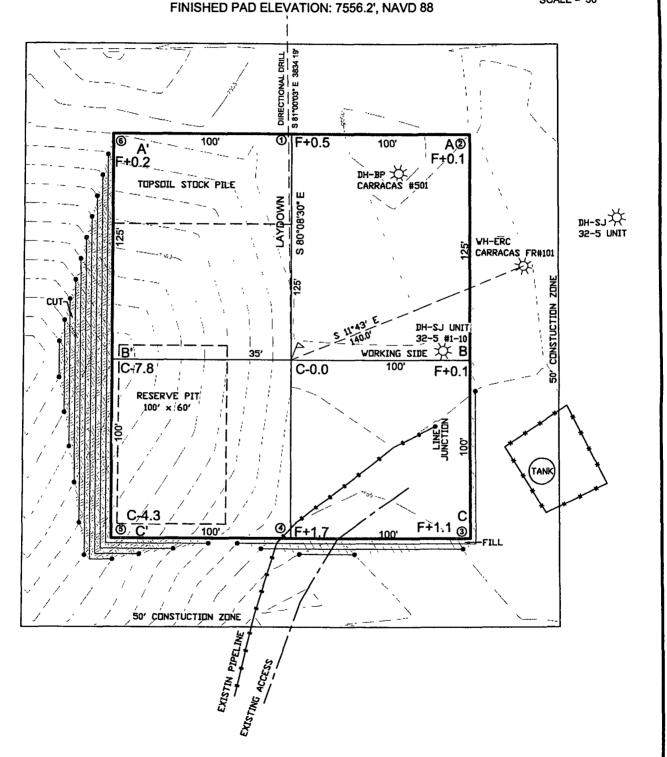


Russell Surveying 1409 W. Aztec Bivd. #2 Aztec, New Mexico 87410 (505) 334-8637 LATITUDE: 36.99306°N LONGITUDE: 107.35389°W DATUM: NAD 83

ENERGEN RESOURCES CORPORATION

CARRACAS CANYON UNIT 10A #16
2015' FSL & 1400' FWL
LOCATED IN THE NE/4 SW/4 OF SECTION 10,
T32N, R5W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7556', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG074 DATE: 05/02/06



Russell Surveying 1409 W. Aztec Bivd. #2 Aztec, New Mexico 87410 (505) 334-8637 Carracas 10 A # 16

	Date: 8-24-08 OK
Name (Print): Jason Edde Signature: Form Edd: Name (Print): JASON EDNE Signature: Derny Guld:	
Name (Print): TASON EDDIE Signature: Signatu	Date: 8-25-07 good
	Date: 8-26-08 Date: 8-27-08
Name (Print): Eddie Chacon Signature: Follow Signature:	
Name (Print): Eddie Ch. Signature: Eddie Signature:	
Name (Print): Ason Expl Signature	
Name (Print): Jason Eddie Signature Sison Talli	
Name (Print): JASON EDO LE Signature: John Sold	Date: 9-2 "0x" 4 foot & top
Name (Print): Chelo Chacow Signature:	
Name (Print): Charle Charow Signature:	-Date: 9-6/
Name (Print): JASON EDONS Signature: 7000 Signature	Date: 9-5-08
Name (Print): Jason EDDLE Signature: Para ELL	Date: 9.6
Name (Print): PASUN EDDLE Signature: June Ell	
Name (Print): Seldie Chance) Signature: If the	- Date: 9-8
Name (Print): If the Charge Signature:	Date: 9-9 Called Riles Ind.
Name (Print): Idda Ohne Signature:	Date: 9-10 Riley No SHOW!
Name (Print): TASON EDDIE Signature: Jason Selli	Date: 9-11 Removed 2 Longs.
Name (Print): TASON Eddre Signature: Goon Elli	Date: 9-12 Removed 2 640,5
Name (Print): TASUN Eddie Signature: Sam Eddi	Date: 9-13 Removel 6 Loads
Name (Print): Ellie Chacon Signature: 19/ Cha	Date: 9-14 Removed 8 Londs
Name (Print): Eddie Charge Signature: Spelie Charge	Date: 9-15 Removed 2 Loads
Name (Print): Eddie Chaire Signature: Elho Chaire	Date: 8-16 Removed Theels
Name (Print): Jason Eldio, Signature: John Estali	Date: 9-17 44 (1)495
Name (Print): JASON Eddie Signature. Janualli	Date: 7-18 6 Loads Remont
Name (Print): JASON Eddin Signature: Jason Ell	Date: 9.19 Report 3'XZ' TEAR.
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Submit to Appropriate District Office Form C-105 State of New Mexico Five Conier . Energy, Minerals and Natural Resources July 17, 2008 District I 1625 N French Dr, Hobbs, NM 88240 1. WELL API NO. District II 1301 W Grand Avenue, Artesia, NM 88210 30-039-30468 OIL CONSERVATION DIVISION District III 2. Type Of Lease 1000 Rio Brazos Rd, Aztec, NM 87410 1220 South St. Francis Dr. ☐ STATE ☐ FEE ☐ FED/INDIAN District IV Santa Fe, NM 87505 1220 S St Francis Dr , Santa Fe, NM 87505 State Oil & Gas Lease No. WELL COMPLETION OR RECOMPLETION REPORT AND LOG 4 Reason for filing 5 Lease Name or Unit Agreement Name COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) Carracas Unit 6 Well Number 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) #16 Type of Completion ☐ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR X OTHER Pit Closure 8 Name of Operator 9 OGRID Number 162928 Energen Resources Corporation 10 Address of Operator 11 Pool name or Wildcat 2010 Afton Place, NM 87401 Basın Fruitland Coal Farmington County 12 Location N/S Line Feet from the E/W Line Unit Letter Section Township Range Lot Feet from the Surface ВН 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) 09/27/08 18 Total Measured Depth of Well 20 Was Directional Survey Made Type Electric and Other Logs Run 19 Plug Back Measured Depth 22 Producing Interval(s), of this completion - Top, Bottom, Name 23 CASING RECORD (Report all strings set in well) AMOUNT PULLED CASING SIZE WEIGHT LB /FT DEPTH SET HOLE SIZE CEMENTING RECORD 24. LINER RECORD 25 TUBING RECORD SIZE TOP **BOTTOM** SIZE SACKS CEMENT **SCREEN DEPTH SET** PACKER SET 26. Perforation record (interval, size, and number) 27 ACID, SHOT, FRACTURE, CEMENT, SQEEZE, ETC 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 Oil - Bbl Gas - MCF Water - Bbl Gas - Oil Ratio Test Period Flow Tubing Casing Pressure Calculated 24-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 36.99311 Longitude 1927 X 1983 I hereby cerufy that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Signature WCL Printed QDUVicki Donaghey Title Regulatory Analyst Date 12/08/08

E-mail address

vdonaghe@energen.com

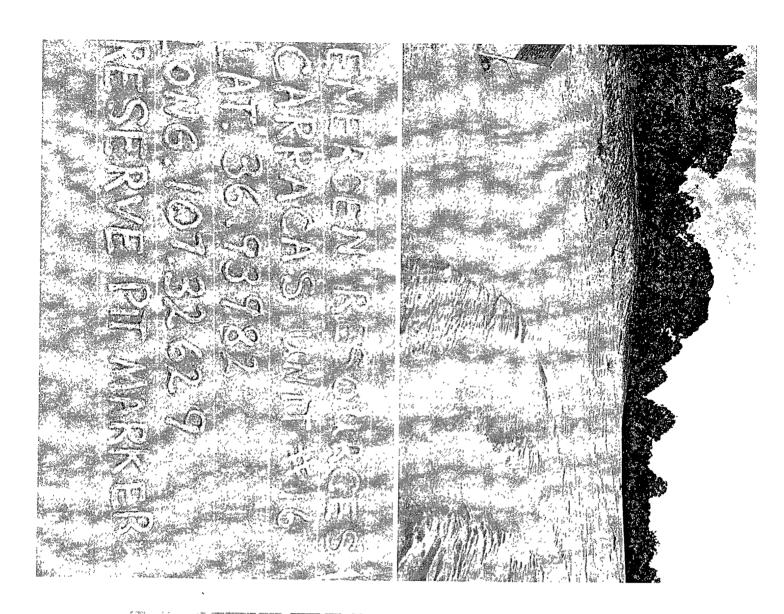
COVER PAGE

RCVD FEB 29'12 OIL CONS. DIV. DIST. 3

ENERGEN RESOURCES 2010 AFTON PLACE FARMINGTON NM 87401

OGRID # 162928

WELL NAME	CARPAGAS UNIT 16	Angular distrib
API	30-039-30468	
PERMIT	. 3442	
MSSING C	102/PHOTOS	





CARRACAS UNIT #16
2015' FSL 1400' FWL
UNIT K SEC 10 T32N R05W
LATITUDE 36.99306'
LONGITUDE -107.35389'
API # 30-039-30468 ELEV. 7663'
LEASE # NMNM-29341
RIO ARRIBA COUNTY, NEW MEXICO
BASIN FRUITLAND COAL

DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 66240

State of New Mexico
Energy, Minerals & Natural Resources Department
Submit to Appropriate District Office
State Lease - 4 Copies

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 68210

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

JAN 22 2008

State Lease - 4 Copies Fee Lease - 3 Copies

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

1220 South St. Francis Dr. Santa Fe, NM 87505

Bureau of Land Management [AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30039 - 30				
Property Code		*Property Name CARRACAS CANYON UNIT /OA		Well Number
OGRID No 162928		•	ator Name JRCES CORPORATION	* Elevation 7556'

10 Surface Location Range UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 32N SW 2015 1400 WEST RIO ARRIBA K 10 SOUTH "Bottom Hole Location If Different From Surface UL or lot no Section Township Lot Idn Feet from the North/South line Feet from the Rast/West line Range County 10 32N 5W 1400' SOUTH 100' **EAST** RIO ARRIBA 10 Dedicated Acres Joint or Infill Consolidation Code 10 Order No. 320.00 Acres - (\$/2)

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

