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.

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Pit. Closed-Loop System, Below-Grade Tank, or

Duonagad Altamativa Mathad Darmit on Clasura Plan Application
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 X Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Energen Resources Corporation OGRID#: 162928
Address: 2010 Afton Place, Farmington, NM 87401
Facility or well name: Carracas 16A #2
API Number: 30–039–30822 OCD Permit Number:
U/L or Qtr/QtrB Section 16 Township 32N Range 05W County: Rio Arriba
Center of Proposed Design: Latitude 36.98727 № Longitude 107.36646 ₩ NAD: ☐1927 ☒ 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Surface Committee Land Control of Management
Temporary: ☒ Drilling ☐ Workover
□ Permanent □ Emergency □ Cavitation □ P&A
X Lined □ Unlined Liner type: Thickness 20 mil
X String-Reinforced
Liner Seams: Welded X Factory Other Volume: 1500 bbl Dimensions: L 155 x W 85 x D 10
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: Thicknessmil LLDPE HDPE PVC Other
Drying Fad
Liner Seams: Welded Factory Other 4. Below-grade tank: Subsection I of 19.15.17.11 NMAC
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
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
Liner type: Thicknessmil _ 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.

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 in the strands of the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school in the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school in the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school in the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school in the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school in the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school in the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence).	ol, 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 Burconsideration of approval.	reau office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of 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

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

Waste Removal Closure For Closed-loop Systems That Utilize Above Grou Instructions: Please indentify the facility or facilities for the disposal of liquids	and Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 and crilling fluids and drill cuttings. Use attachment if mo	O NMAC) re 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)							
Required for impacted areas which will not be used for future service and oper. Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate Plan - based upo	priate requirements of Subsection H of 19.15.17.13 NM/ction I of 19.15.17.13 NMAC	AC					
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMAC 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 sou quire administrative approval from the appropriate dist mental Bureau office for consideration of approval. J	rict office or may					
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	☐ Yes 🕱 No ☐ NA					
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	Yes X No					
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	X Yes □ No □ NA					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site.		Yes X No					
Within 300 feet from a permanent residence, school, hospital, institution, or che - Visual inspection (certification) of the proposed site; Aerial photo; Sat		☐ 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 vadopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approximation		Yes X No					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map;	Visual inspection (certification) of the proposed site	☐ Yes 🗷 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 Geology & Mineral Resources; USGS; NM Geological Society; Topographic map							
Within a 100-year floodplain FEMA map	<u>-</u>	☐ 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.	of the following items must be attached to the closure pla	n. Please indicate,					
Siting Criteria Compliance Demonstrations - based upon the appropriate reconstruction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate re Waste Material Sampling Plan - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and 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	of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19.15.15.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannot a H of 19.15.17.13 NMAC in I of 19.15.17.13 NMAC						

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurately	ate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
OCD Approval: Permit Application (including closure plan)	losure Plan-(only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title: Compliance Officer C	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior t report. The closure report is required to be submitted to the division within 60 a complete this section of the form until an approved closure plan has been obtain	to implementing any closure activities and submitting the closure days of the completion of the closure activities. Please do not ned and the closure activities have been completed.
	X Closure Completion Date: 10/19/10
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative If different from approved plan, please explain.	e Closure Method
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drilt than two facilities were utilized. Disposal Facility Name:	ling fluids and drill cuttings were disposed. Use attachment if more
Disposal Facility Name: D	
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No	in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operation	ons:
Closure Report Attachment Checklist: Instructions: Each of the following item 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 36.78695 Longit	
25.	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requiren	
Name (Print): Anna Stotts	Title: Regulatory Analyst
Signature: Auna Stotts	Date: <u>astotts@energen</u>
e-mail address: 505-324-4154	Telephone:02/7/11

Well Name: Carracas 16A #2

Reserve Pit – Final Closure Report

The pit will be closed with in place burial. If the pit is located on private surface, the surface owner will be notified prior to closure by certified mail and the return receipt will be included in the closure packet. The OCD will be verbally or by other means notified at least 72 hours and not more then one week prior to the pit closing. The following process will be used to close the pit:

Notification to the OCD is included in this closure report package. Surface owner notification not required.

1) At time of closure, all free standing fluids will be removed and reused or disposed with Agua Moss LLC in the Pretty Lady #1 (Disposal API Number # 30-048-30922) or an Energen operated permitted disposal well. The contents will be solidified to a bearing capacity sufficient to support the final cover. This will be accomplished by mixing the contents with soil at a mixing ratio no greater then 3:1 soil to contents.

Fluids were removed and properly disposed in the Pretty Lady #1 - API 30-048-30922. The pit contents were solidified by mixing the contents with soil at a mixing ratio of less than 3:1.

2) The liner will be cut off at the mud line of the stabilized contents.

The liner was cut off at the mud line of the stabilized contents.

3) Sampling will be done by collecting a minimum of a five-point composite sample of the contents after stabilization. The sample will be analyzed for the following components (if the groundwater is less than 100 feet below the pit but greater than 50 feet, testing for chlorides will be done to the lower limit);

Components	Tests Method	Limit	Results
		(mg/Kg)	(mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	.002
BTEX	EPA SW-846 8021B or 8260B	50	.002
TPH	EPA SW-846 418.1	2500	78.0
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	500 /1000	70

Sampling results are listed in the above table.

4) After demonstrating that the stabilized contents are under the limits listed above, the contents will be covered with compacted non-waste containing

earthen material to a minimum of three feet. If stabilized contents exceed a volume that can be covered with three feet of earth and a foot of topsoil the excess contents will be removed and sent to Envirotech (Permit NM-01-0011) or IEI Landfarm (Permit NM-01-0010B). If the stabilized contents do no meet the above stated limits the stabilized contents will all be hauled to Envirotech pursuant to excavation and removal guidelines (19.15.17.13 B1).

The contents were covered with three feet of compacted non-waste containing material.

5) After the stabilized contents have been covered, the stockpiled topsoil will be replaced to a minimum depth of one foot. Topsoil cover will be graded to prevent ponding of water and erosion of the cover material. This will be accomplished within six months of rig release.

The stockpiled topsoil was replaced to a depth of one foot and graded to prevent ponding and erosion.

6) The exact location of the on-site burial will be reported to the Aztec field office on the C-105 form. A deed notice identifying the exact location of the on-site burial will be filed with the county clerk if the pit is on private surface.

The C-105 form is attached. This pit is located on public surface. Proof of Deed notice not required unless pit is located on private surface (per NMOCD FAQ dated 10/30/09).

7) The final closure report (C-144) will be filed within 60 days of closure completion and include sampling results, plot plan, details on backfilling, covering and inspections during the life of the pit.

This closure report includes sampling results, plot plan, closure details, inspections, and photos.

8) If the pit is located on federal or tribal surface, seeding will be deferred to BLM requirements per the BLM / OCD MOU. Otherwise, the disturbed area will be seeded or planted the first growing season after closing the pit. Seed will be drilled on the contour whenever practical or by other division-approved methods. The 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 re-vegetation.

The pit is located on Federal or Tribal surface, seeding is deferred to BLM requirements per the BLM / OCD MOU.

9) Until the abandonment of the wells on the pad where the pit is located, a steel marker no less then four inches in diameter will be cemented in a hole three feet deep in the center of the onsite burial. The top of this marker will be flush with the ground. Once all wells on the pad are abandoned, a four foot tall riser will be welded on top of the marker with; operator name, lease number, well name and number, unit number, section, township and range, and a designation that it is an onsite burial location.

The marker was installed in the center of the closed pit. The marker is set flush to the ground until final abandonment. At the time of abandonment, a four foot riser will be installed and marked as follows: Energen Resources – Lease # NMNM 90463 – Carracas 16A #2 – Unit B – Sec.16, T32N, R05W – Pit Burial Site.

Five Copies District I 1625 N. French Dr., Hobbs, I	istrict I 525 N. French Dr., Hobbs, NM 88240				State of New Mexico Energy, Minerals and Natural Resources					Form C-105 July 17, 2008					
District II 1301 W. Grand Avenue, Arte District III 1000 Rio Brazos Rd., Aztec, District IV 1220 S. St. Francis Dr., Santa	Santa Fe NM 87505					30-039-30822 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:											2	or Unit Ag		nt Nam	e
COMPLETION	REPO	RT (Fill in bo	xes #1	through #31 for	State and F	ee wells	only)			Car	raca	ıs 16A			
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) 6. Well Number #2															
9. Type of Completion NEW WELL		ORKOVER		DEEPENING [] PLUGBA	VCK [DIEEED	ENIT E	RESERVO	oir X	OTH	ER pit o	_1		
8. Name of Operator	<u> </u>	OKKOVEK	ا اسا	DEFEINING L	- PLUUBA	ick L	DIFFER	EN1 P	CESERVO	9. OGR			JIOSU	TG	
Energen Resour	ces (Corporati	on							1	6292	8			
10. Address of Operator							_			11. Po	ol nam	e or Wildca	at		
2010 Afton Pla		Farmingt	on,	NM 87401								Fruitla			
12. Location Unit Le		Section	-	Township	Range	Lo	<u> </u>	Feet f	rom the	N/S Lin	e Fe	et from the	E/W	Line	County
BH:		16		32N	05W						+				
<u> </u>	4. Dat	e T.D. Reach	ed	15. Date Rig 10/06/		<u> </u>	16. Da	te Cor	npleted (F	Ready to I	Produc		Elevat GR, et		OF & RKB,
18. Total Measured Dep	th of W	/ell		19. Plug Back		Depth	20. W	as Dire	ectional Si	ırvey Ma	de	21. Type	Electri	c and (Other Logs Run
22. Producing Interval(s), of th	is completion	- Top,	Bottom, Name)		-54/14		
23.				CASING R	ECORD	(Repo	rt all str	ings	set in v	vell)					
CASING SIZE	__\	VEIGHT LB.		DEPTH			LE SIZE	ر جيد		EMENTI	NG R	ECORD		AMO	UNT PULLED
												-			
24.				ER RECOR					25.		TUE	ING REC			
SIZE T	OP		BOT	FOM	SACKS CE	MENT	SCR	EEN	SIZ	<u> </u>		DEPTH S	SET	- F	PACKER SET
							 							-	-40.
26 P. C: 10		1 . 1					27 10	D GI	IOT ED	A CYPI ID	E OF) (E) (E)	OPPZ	r pr	<u> </u>
26. Perforation record (interva	il, size, and ni	umber)				DEPTH					MENT, S AND KINI			
28.					DD	ODUC	TION								
Date First Production		Product	ion Me	ethod (Flowing				e pum	p)			Well Sta	atus (Pr	od. or	Shut-in)
Date of Test	Hou	rs Tested		Choke Size	Prod'n Fo Test Perio	od	Oil - Bbl.		Gas - M		Wate	er - Bbl.			Ratio
Flow Tubing Press.	Casi	ng Pressure	re Calculated 24- Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API -(Con					orr.)							
	29. Disposition of Gas (Sold, used for fuel, vented, etc.) 30. Test Witnessed By														
31. List Attachments		-4 dh 11	44 1	what is the state of		. ******									
	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:														
					Latitud	e	36.7869		Long			7.36631	NA ief	<u>D:</u>	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 Printed Name Anna Stotts Title Regulatory Analyst Date 2/7/11															

"As Drilled"

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

Dedicated Acres

320 E/2

District IV

1220 S. St. Francis Dr., Senta Fe, NM 87505

19 Joint or Infill

M Consolidation Code

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

X AMENDED REPORT

RCVD OCT 19'10

OIL CONS. DIV.

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Numbe -039-3082			* Pool Code 71629		* Pool Name Basin Fruitland Coal				
, , ,	Property Code		Property Name Carracas 16 A						Well Number 2 ·	
7 OGRID	OGRID No. 162928		Operator Name Energen Resources Corporation						^e Elevation 7222'	
				·	¹⁰ Surface	Location .				
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West lin	e County	
В	16	32N	5W		71'	North	East	Rio Arriba		
			¹¹ Bot	tom Hol	e Location If	Different Fro	m Surface			
UL. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fest from the	East/West lin	e County	
P	16	32N	5W		110	East	Rio Arriba			

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

¹⁸ Order No.

OPERATOR CERTIFICATION costify that the information contained herein is true and complete to the 616 best of my knowledge and belief, and that this organization either owns a 830 Coal Entry Point hole location or has a right to drill this well at this location pursuant to Producing Interval: 10/4/2010 From milled window 3 716 TVD in 7" casing @ 730 FNL, 809 FEL to TD @ 111 FSL, 355'FEL (BHL). Stephen Byers Printed Name sbyers@energen.com 5267.68 18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platted from field nates of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. ginal Well Bore TO @ 7783' MD November 24, 2008 Date of Survey Signature and Seal of Professional Surveyor: Sidetrack Well Bore "As Drilled" to TD **David Russell** BHL Certificate Number 10201 355 2643,41

WELL FLAG

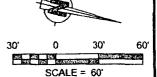
LATITUDE: 36.98727° N LONGITUDE: 107.36646° W DATUM: NAD 83

CENTER OF PIT

LATITUDE: 36.98709° N LONGITUDE: 107.36647° W ELEVATION: 7208.4' DATUM: NAD 83 & NAVD88

NERGEN RESOURCES CORPORAT.

CARRACAS 16A #2H
71' FNL & 2252' FEL
LOCATED IN THE NW/4 NE/4 OF SECTION 16,
T32N, R5W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7222', NAVD 88
FINISHED PAD ELEVATION: 7220.4', NAVD 88



A @ C-13.4

CARRACAS 16 A #1 LAT: 36,98720" N LONG: 107,36688" W 225 60' x 200' CENTER OF PIT В F+7.7 C-2.0 C-14.3 F+11.7 C-0.3 @ C, @F+8.7 125 18616 LF OF NEW ACCESS ACROSS NATIONAL FOREST LANDS TO FOREST ROAD 218

1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 60'

JOB No.: ERG125 REV3

DATE: 08/20/10



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

HERGEN RESOURCES CORPORATA CARRACAS 16A #2H 71' FNL & 2252' FEL LOCATED IN THE NW/4 NE/4 OF SECTION 16, T32N, R5W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO **GROUND ELEVATION: 7222', NAVD 88** FINISHED PAD ELEVATION: 7220.41, NAVD 88 C 50'

VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERG125_REV3

DATE: 08/20/10

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

Vicki Donaghey

From: Sent:

Matt Foutz [mfoutz@fandmconst.com] Thursday, October 07, 2010 10:37 AM Brandon.Powell@state.nm.us

To:

Cc:

Doug Thomas; Vicki Donaghey; Ed Hasely; Robert Schmidt; Bill Vocke; jjmiller@fs.fed.us; Michael Dean; Kellie Campbell; cfoutz@fandmconst.com; mmcminn@fandmconst.com

Cracas 16A # 1 & 2 Pit Closure Subject:

Brandon, This is our 72 hour notice to close the drilling pit; Caracas 16A # 1 & 2 Rio Arriba County Township 32N, Range 5W, Section 16, NE 1/4

Sincerely,

Matt Foutz President F & M Construction, Inc. Office Phone - 970-884-0109 Mobile Phone - 970-749-5983



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0168
Sample ID:	092110-B	Date Reported:	09-22-10
Laboratory Number:	55928	Date Sampled:	09-21-10
Chain of Custody No:	10388	Date Received:	09-21-10
Sample Matrix:	Soil	Date Extracted:	09-21-10
Preservative:	Cool	Date Analyzed:	09-22-10
Condition:	Intact	Analysis Requested:	8015 TPH

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

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:

Carracas #16A 2

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0168
Sample ID:	092110-B	Date Reported:	09-22 - 10
Laboratory Number:	55928	Date Sampled:	09-21-10
Chain of Custody:	10388	Date Received:	09-21-10
Sample Matrix:	Soil	Date Analyzed:	09-22-10
Preservative:	Cool	Date Extracted:	09-21-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

	Dilution:	10
Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.0	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	2.0	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	101 %
	1,4-difluorobenzene	102 %
	Bromochlorobenzene	98.3 %

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:

Carracas #16A 2

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0168
Sample ID:	092110-B	Date Reported:	09-22-10
Laboratory Number:	55928	Date Sampled:	09-21-10
Chain of Custody No:	10388	Date Received:	09-21-10
Sample Matrix:	Soil	Date Extracted:	09-22-10
Preservative:	Cool	Date Analyzed:	09-22-10
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

78.0

13.6

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:

Carracas #16A 2

nalyst



Chloride

Client:	Energen	Project #:	03022-0168
Sample ID:	092110-B	Date Reported:	09-22-10
Lab ID#:	55928	Date Sampled:	09-21-10
Sample Matrix:	Soil	Date Received:	09-21-10
Preservative:	Cool	Date Analyzed:	09-21-10
Condition:	Intact	Chain of Custody:	10388

Parameter

Concentration (mg/Kg)

Total Chloride

70

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:

Carracas #16A 2

Analyst



Pit Inspection Log Sheet

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

well Name: ('AARACAS 16A 2	API: 30-0393-0842		
Name (Print): T, WENTHERFORD	Signature:	Meathonkus	Date: 8/28/2010
Note Any Deficiencies: ChOSE LOOP	9		
Name (Print): TWEATHERFORD	Signature	Methyland	Date: 8/29/2010
Note Any Deficiencies:			
Name (Print): TWENTHERFORD	Signature:	Meatherfus	Date: 8/30/2010
Note Any Deficiencies:			
Name (Print): TWENTHERFORD	Signature:	Meatherland	Date: 8/31/2010
Note Any Deficiencies:			
Name (Print): TWEATHERFORD	Signature:	Meatherfal	Date: 9/1/2010
Note Any Deficiencies:	0		
Name (Print): WEATHERFORD	Signature:	Meather	Date: 9/2/2010
Note Any Deficiencies:	9		
Name (Print): TWEATHERFORM	Signature:	Meatherful	Date: 9/3/2010
Note Any Deficiencies:			
Name (Print). TWEATHERFORD	Signature:	Menthered	Date: 9/4/2010
Note Any Deficiencies:			
Name (Print): TWEATHERFORD	Signatur <u>e:</u>	Meatherbal	Date: 9/5/2010
Note Any Deficiencies:			
Name (Print): TWEATHERFORD	Signature:	Menthul	Date: 9/0/2010
Note Any Deficiencies:			
Name (Print): J WEATHEAFORD.	Signature:	Methol	Date: 9/7/2011
Note Any Deficiencies:			
Name (Print): TWEATHERFORD	Signature:	Mentherland	Date: 9/8/2010
Note Any Deficiencies:			•
Name (Print): J WENTHERFORD	Signature:	Menthorky	Date: 9/9/2010
Note Any Deficiencies:			
Name (Print): TWENTHERFORD	Signature:	Meathurus	Date: 9/10/2010
Note Any Deficiencies:			
Name (Print): TWENTHERFORD	Signature:	Menthernel	Date: 9/11/2010
Note Any Deficiencies:			
Name (Print): TWEPTHERFORD	Signature:	Meatherfart	Date: 9//2/2010
Note Any Deficiencies:			



Pit Inspection Log Sheet

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

well Name: (1473/14/194 /6/1942		API: 30-0393-0822		
Name (Print): J. WEATHER KARD	Signature:	Weatherful	Date: 9/13/2010	
Note Any Deficiencies:	7			
Name (Print): WEWHERKORD	Signature:	Meatherland	Date: 9/14/2010	
Note Any Deficiencies:				
Name (Print): WEATHERFORD	Signature:	Meathandard	Date: 9/15/2010	
Note Any Deficiencies:		A		
Name (Print): TWERTHERFORD	Signature:	Mulhuful	Date: 9/16/2010	
Note Any Deficiencies:				
Name (Print): I WENTHEAFORD	Signature:	Monthuran	Date: 9/17/2010	
Note Any Deficiencies:				
Name (Print): TWEATHERFORD	Signature:	Marthukul	Date: 9/18/2010	
Note Any Deficiencies:				
Name (Print): TWENTHER FORD	Signature:	Menthersund	Date: 9/19/2016	
Note Any Deficiencies:				
Name (Print): TWENTHER KORD	Signature:	Penthulad	Date: 9/20/2010	
Note Any Deficiencies:			·	
Name (Print): INEATHERFORD	Signature:	Weather land	Date: 9/21/2010	
Note Any Deficiencies:		/ July		
Name (Print): TWENTHERFORD	Signature:	Wellhulud	Date: 9/22/2010	
Note Any Deficiencies:	J.,,			
Name (Print): Lew DeNNington	Signature: Q	1 Duniten	Date: 9-13-2011	
Note Any Deficiencies:	/-			
Name (Print): Ken Dennington	Signature: Q/	Dennitor	Date: 9-24-201	
Note Any Deficiencies:				
Name (Print): Ken Denvington	Signature: 0 K	Dunition	Date: 9-25-10	
Note Any Deficiencies:		0		
Name (Print): Ken Denvington	Signature:	Dunister	Date: 9-26-10	
Note Any Deficiencies:		0		
Name (Print): Lew Denvingen	Signature: 0k	Du ton	Date: 9-27-10	
Note Any Deficiencies:				
Name (Print) Les Descripton	Signature:	Counter.	Date: 9-28-10	
Note Any Deficiencies:		700		



Pit Inspection Log Sheet

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

Well Name: CARRACAS 16A # 2	API: 30-039340.	822
Name (Print) Lew Dewington	Signature: OK Somiton	Date: 9-29-10
Note Any Deficiencies:	/ 0	
Name (Print): Kes Desvington	Signature: Q.K. Bunington,	Date: 9-30-10
Note Any Deficiencies:	·	
Name (Print): Lew Denviron	Signature: Mountan	Date: 10-1-10
Note Any Deficiencies:		
Name (Print): Ken Denvington	Signature: Konningen	Date: 10-2-10
Note Any Deficiencies:		
Name (Print): Lew Dewington	Signature & Sinta	Date: 10-3-10
Note Any Deficiencies:		
Name (Print): Lew Denvington	Signature: Of fantion	Date: 10-4-10
Note Any Deficiencies:		
Name (Print): Ken Dewington	Signature: W Sanitar	Date: 10-5-10
Note Any Deficiencies:		
Name (Print): Key Dewington	Signature: Of Sum ton	Date: 10-6-10
Note Any Deficiencies:	0	
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
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Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		

Name (Print):

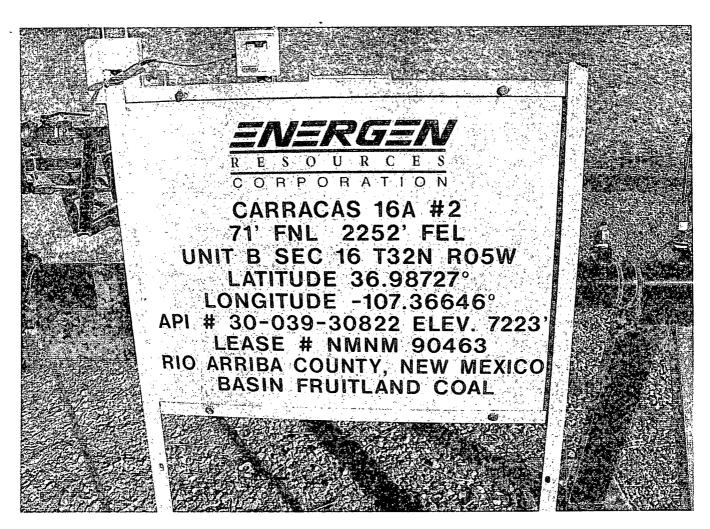
JACK ONEAL

Mate Asis Definionnias a se a)

(daily while rig is site, then weekly as long as liquids remain 'hé pit) API: 3003930822 Well Name: CARRACAS Date: 10-9-2010 Name (Print): TACKONEAL Signature: Note Any Deficiencies: NGNE Date: 10-10-2010 Name (Print): JACK ONEAL Signature: Note Any Deficiencies: NONE Date: 10-11-20/6 JACK ONCAL Name (Print): Signature: Note Any Deficiencies: Date: 16-12-2010 Name (Print): JACK ONCA Signature: Note Any Deficiencies: NO NE. Date: 10-13-20/0 Name (Print): JACK ONEAL Signature: Note Any Deficiencies: Date: 10-14-2010 Name (Print): JACK ONEAL Signature: Note Any Deficiencies: NONE Date: 10-15-2010 Name (Print): Signature: JACK ONFAL Note Any Deficiencies: Date:/0-/6-20/0 Name (Print): ONEAL Signature: Note Any Deficiencies: Date:/6-/7-スロノロ Signature: Name (Print): TACK ONEAL Note Any Deficiencies: Date:/0-/8-2016 Name (Print): Signature: Note Any Deficiencies: 1000

Signature:

Date 10-19-2010





36, 78645 + 107, 36631

