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.

District Office.
7/64 Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Energen Resources Corporation OGRID#: 162928
Address: 2010 Afton Place, Farmington, NM 87401
Facility or well name: Carracas 18B #1
API Number: 30-039-30483 OCD Permit Number:
U/L or Qtr/Qtr O Section 18 Township 32N Range 04W County: Rio Arriba
Center of Proposed Design: Latitude 36.98098 Longitude 107.29289 NAD: ☐1927 ☒1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Z Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: □ Drilling X Workover Permanent □ Emergency □ Cavitation □ P&A X Lined □ Unlined Liner type: Thickness 20 mil X LLDPE □ HDPE □ PVC □ Other X String-Reinforced Liner Seams: □ Welded X Factory □ Other Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume: 5000 bbl Dimensions: L_160 x W_60 x D_15 X String-Reinforced Volume:
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
intent) Drying Pad
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)	ool, 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)					
8. Signs: Subsection C of 19.15.17.11 NMAC					
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers					
☐ Signed in compliance with 19.15.3.103 NMAC					
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Buconsideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	reau office for				
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 applicate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.				
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site					
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				
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 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
12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number:
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 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
14.
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 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

16.						
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 the disposal of liquids, drilling fluids and drill cuttings. Use attafacilities are required. Disposal Facility Name:	achment if more than two					
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 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. 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	.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 a provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appear be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ppropriate district office or may					
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No					
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No					
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No NA					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkh lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	nole, or playa Yes 🕟 No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial appl Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	lication. Yes 🕦 No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site						
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 Society; Topographic map	Geological Yes No					
Within a 100-year floodplain FEMA map	☐ Yes 🔊 No					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to by a check mark in the box, that the documents are attached.	the closure plan. Please indicate					
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 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.1 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 standard Sampling Plan - 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	ements of 19.15.17.11 NMAC 3 NMAC					

Operator Application Certification: I hereby certify that the information submitted with this application is true, accura	ate and complete to the best of my knowledge and belief.					
Name (Print):	Title:					
Signature:	Date:					
e-mail address:	Telephone:					
20						
OCD Approval: Permit Application (including closure plan)	osure Plan (only) OCD Conditions (see attachment)					
OCD Representative Signature:	Approval Date: //6///					
Title: Compliance Office o	CD Permit Number:					
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior to report. The closure report is required to be submitted to the division within 60 do complete this section of the form until an approved closure plan has been obtain	o implementing any closure activities and submitting the closure lays of the completion of the closure activities. Please do not					
	X Closure Completion Date: 10/28/09					
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, drille than two facilities were utilized. Disposal Facility Name:	ing fluids and drill cuttings were disposed. Use attachment if more					
Disposal Facility Name: Dis	sposal 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)						
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ons:					
24.						
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						
25.						
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirem						
Name (Print): Vicki Donaghey	Title: Regulatory Analyst					
Signature: Webi Derockio	Date:10/01/10					
a mail address: vicki donashevsenemen com	Telephone: 505-324-4136					

Well Name: Carracas 18B #1

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. 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	.0523
BTEX	EPA SW-846 8021B or 8260B	50	1.320
TPH	EPA SW-846 418.1	2500	826
GRO/DRO	EPA SW-846 8015M	500	160
Chlorides	EPA 300.1	500 /1000	355

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 30015 – Carracas 18B #1 – Unit O – Sec. 18, T32N, R04W – Pit Burial Site.

Submit to Appropries • District I 1625 N. French De				Е		tate of field interned					Form C-1 July 17, 2						
District III 1000 Rio Brazos I District IV	1301 W. Grand Avenue, Artesia, NM 88210 District III. 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 South St. Francis Dr.						-	30-039-30483 2. Type Of Lease STATE FEE FED/INDIAN 3. State Oil & Gas Lease No.				<u>N</u>					
WELL	COMPL	ETIC	ON OR RI	ECO	MPLETION	REPOR	T AND	LOG									
4. Reason for fi								5. Lease	Name	or Unit	Agree	ement Na	me				
COMPL	COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)								Car	raca	ıs 18B						
#33; attach this	and the pla	ATTA at to th	ACHMENT ne C-144 clos	(Fill in sure rep	boxes #1 throu bort in accordan	igh #9, #15 l ice with 19.1	Date Rig R 15.17.13.K	teleased a	nd #32	and/or	6. Well 1		er				
9. Type of Com	npletion WELL [T w	ORKOVER	Пг	DEEPENING [PLUGB	ACK	DIFFE	ENT R	RESERVO	OIR X	ОТН	ER pit	· ~],	Ogrino		
8. Name of Ope	·		OKKOVEK		DEEL ENING E	TEOOD	ACK L	DITTE	CLIVI I	CLOLACTO	9. OGR				OSULE_		
Energen	Resourc	es (orporati	.on							10	6292	8				
10. Address of	Operator												e or Wil				
2010 Aft			Farmingt	on,	NM 87401	T n	₁ .		la		T		Fruitl		Coal W Line	County	
12. Location Surface:	Unit Let	ter	Section		Township	Range	Lo	<u> </u>	Feet f	rom the	N/S Line	re	et from t	ne E	/W Line	County	
BH:	1								-		╂	\dashv		+		-	
13. Date Spudo	led 14	. Date	e T.D. Reach	ed	15. Date Rig	Released 28/09		16. D	ate Con	npleted (I	Ready to P	roduc	e) I	7. El RT, Gl	evations R, etc.)	DF & RKB,	
18. Total Meas	ured Deptl	n of W	'ell		19. Plug Bac		Depth	20. W	as Dire	ectional S	urvey Mad	le	21. Ty	pe Ele	ectric and	Other Logs	Run
22. Producing l	nterval(s),	of thi	s completion	- Top,	Bottom, Name								<u> </u>		•		
23.					CASING R	ECORE) (Reno	rt all st	rings	set in v	vell)						
CASING	SIZE	ν	VEIGHT LB.		DEPTH			LE SIZE	ا ت		EMENTI	NG R	ECORD		AMO	DUNT PULL	.ED
24.					IER RECOR					25.	_	TUB	ING R				
SIZE	TO	OP		BOT"	TOM	SACKS CI	EMENT	SCI	REEN	SIZ	E		DEPT	H SE	Γ	PACKER SI	ET
26. Perforation	n record (i	nterva	l, size, and m	umber)	<u>.</u>			27. AC			ACTURI					TC.	
								DEFII	IIIVIL	KVAL	AIVIO	UNI	AND KI		MATERIA	AL USED	
											_						
28.						PR	ODUC	TION									
Date First Prod	uction		Product	ion Me	ethod (Flowing				ре ритр	p)			Well	Statu	s (Prod. o	or Shut-in)	
Date of Test		Hou	rs Tested		Choke Size	Prod'n Fo Test Peri	iod	Oil - Bbl.		Gas - M		Wate	er - Bbl.			Dil Ratio	
Flow Tubing Press.		Casi	ng Pressure		Calculated 24- Hour Rate	Oil - Bbl	1.	Gas - N	ИCF	Wa	er - Bbl.		Oil G	ravity	y - API -(Corr.)	
29. Disposition	of Gas (Sold, u	ised for fuel,	vented	, etc.)						3	0. Tes	st Witnes	sed B	у		
31. List Attach	ments																
32. If a tempor	ary pit was	s used	at the well, a	ittach a	plat with the lo	ocation of th	e tempora	y pit.									
33. If an on-sit	e burial wa	as used	d at the well,	report	the exact locati	on of the on Latitud		: 36.980	31	Long	itude	-10	7.2929	2	NAD:	1927 X 19	983
I hereby certi	لاسك	W	odrin		Printe Name	ed	is true an	_		he best o	_			-	st Dat	e 08/16	/10
E-mail addres	5	V	donaghe@	enerc	gen.com												

District 1 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

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised October 12, 2005

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

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

AMENDED REPORT

1220 S St Francis Dr., Santa Fe, NM 87505 LOCATION AND ACREAGE DEDICATION PLAT WELL API Number ² Pool Code 3 Pool Name 30-039-30483 71629 Basin Fruitland Coal ⁴ Property Code ⁵ Property Name 6 Well Number 35658 Carracas 18B OGRID No ⁸ Operator Name Elevation 162928 Energen Resources Corporation 73291 ¹⁰Surface Location

UL or lot no Section Township Range Lot. Idn Feet from the North/South line Feet from the East/West line County Rio Arriba 0 18 32N 04W 570 South 1705 East

Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	32N	04W		648	North	713	East	Rio Arriba
12 Dedicated Acre 320 E/2	es 13 Jour	nt or Infill	Consolidation	1 Code 15 Or	der No	13/19-1	V SL	RCVD :	SEP 3'09

OIL CONS. DIV.

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 DIST. 3 OPERATOR CERTIFICATION hereby certify that the information contained herein is true and omplete to the best of my knowledge and belief, and that this rganization either owns a working interest or unleased mineral nterest in the land including the proposed bottom hole location r has a right to drill this well at this location pursuant to a ontract with an owner of such a mineral or working interest, or o a voluntary pooling agreement or a compulsory pooling order eretofore entered by the division 09/01/09 Signature Vicki Donaghey Printed Name 8SURVEYOR 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 hest of my belief August 23, 2007 Date of Survey Signature and Seal of Professional Surveyer original survey conducted and waxay hi. DANG ノカロシ ١ ワアご lODD/ Certificate Number

T32N, R4W, N.M.P.M., RIO ARRIBA, NEW MEXICO **GROUND ELEVATION: 7329', NAVD 88** FINISHED PAD ELEVATION: 7328.5', NAVD 88 7350 7340 7330 7320 7310 7300 100' 150' 150 100' B' 7350 7340 7330 7320 7310 7300 100 100' 150' 150' 7350 7340 7330 7320 7310 7300 0' 50' 100' 150' 150 100 50' Russell Surveying 1409 W. Aztec Bivd. #2 **VERT. SCALE: 1" = 30'**

Aztec, New Mexico 87410

(505) 334-8637

HORZ, SCALE: 1" = 50"

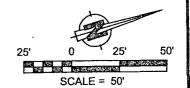
JOB No.: ERG176 DATE: 09/14/07

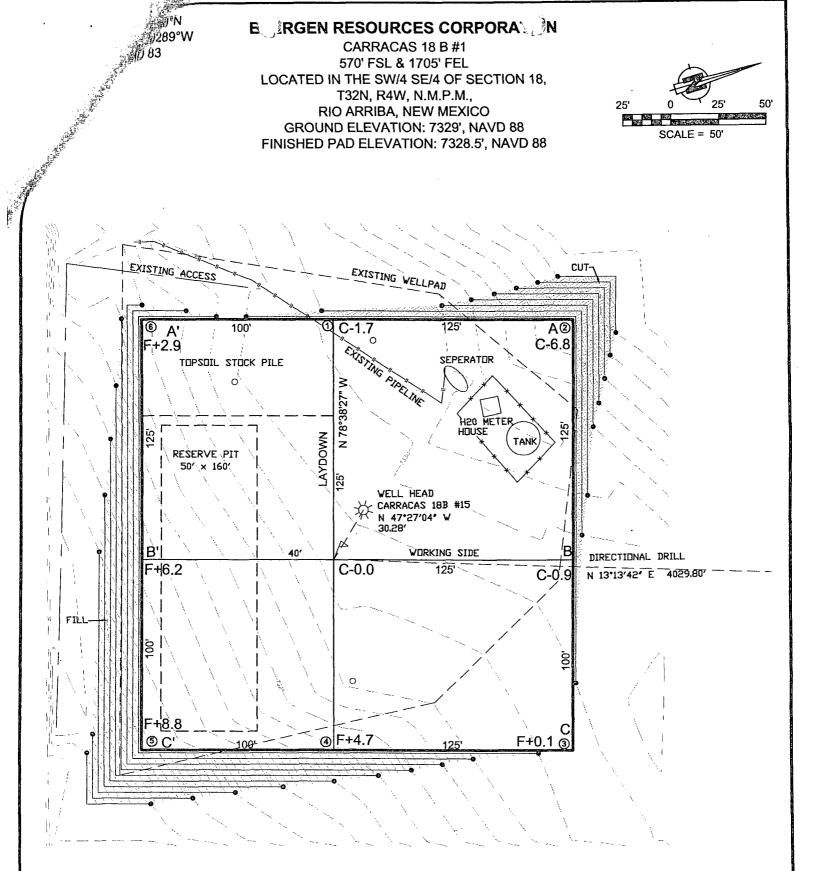
E. RGEN RESOURCES CURPORAL AND CARRACAS 18 B #1 570' FSL & 1705' FEL LOCATED IN THE SW/4 SE/4 OF SECTION 18.

1/289°W

E RGEN RESOURCES CORPORA N

CARRACAS 18 B #1 570' FSL & 1705' FEL LOCATED IN THE SW/4 SE/4 OF SECTION 18, T32N, R4W, N.M.P.M., RIO ARRIBA, NEW MEXICO **GROUND ELEVATION: 7329', NAVD 88** FINISHED PAD ELEVATION: 7328.5', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG176 DATE: 09/14/07



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

BRANDON,

THIS IS OUR NOTICE TO START A CLEAN-UP ON AN ENERGEN WELL SITE.

CARRACAS UNIT 18 B #1

THANK YOU, STEPHANNE COATS ROAENBAUM CONSTRUCTION 505-325-6367



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0001
Sample ID:	10010901	Date Reported:	10-06-09
Laboratory Number:	51942	Date Sampled:	10-01-09
Chain of Custody No:	8120	Date Received:	10-02-09
Sample Matrix:	Soil	Date Extracted:	10-02-09
Preservative:	Cool	Date Analyzed:	10 - 05-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	109	0.2
Diesel Range (C10 - C28)	51.2	0.1
Total Petroleum Hydrocarbons	160	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:

Carracas 18B1

Analyst

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Béview



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	10010901	Date Reported:	10-06-09
Laboratory Number:	51942	Date Sampled:	10-01-09
Chain of Custody:	8120	Date Received:	10-02-09
Sample Matrix:	Soil	Date Analyzed:	10-05-09
Preservative:	Cool	Date Extracted:	10-02-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	(52,3)	0.9
Toluene	451	1.0
Ethylbenzene	70.4	1.0
p,m-Xylene	630	1.2
o-Xylene	112	0.9
Total BTEX	(1,320)	

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:

Carracas 18B1

Analyst

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0001
Sample ID:	10010901	Date Reported:	10-06-09
Laboratory Number:	51942	Date Sampled:	10-01-09
Chain of Custody No:	8120	Date Received:	10-02-09
Sample Matrix:	Soil	Date Extracted:	10-05-09
Preservative:	Cool	Date Analyzed:	10-05-09
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

826

5.8

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 18B1.

Analyst

Review



Chloride

Client: Energen Project #: 03022-0001 Sample ID: 10010901 Date Reported: 10-06-09 Lab ID#: 51942 Date Sampled: 10-01-09 Sample Matrix: Soil Date Received: 10-02-09 Preservative: Cool Date Analyzed: 10-05-09 Condition: 8120 Intact Chain of Custody:

Parameter Concentration (mg/Kg)

Total Chloride

355

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 18B1.

Analyst

Review



Pit Inspection Log Sheet

(daily while rig is on-site, then weekly as long as liquids remain in the pit) CARRACAS 18B #1 API:30-039-30483 Well Name: Name (Print): Michola dRCM Signature: Date: Note Any Deficiencies: Name (Print): MichEld Signature: Date: **Note Any Deficiencies:** Date: 7-10-09 Name (Print): Signature: Note Any Deficiencies: Name (Print): Michsia Signature: Date: 140/85 Note Any Deficiencies: MichsA dizoni Date: Name (Print): Signature: Note Any Deficiencies: Date: 7-13-09 Name (Print): Signature: Note Any Deficiencies: 7-14-0 Signature: Date: Name (Print): Note Any Deficiencies: Signature: Name (Print): Date: Note Any Deficiencies: Date: - 16 Signature: Name (Print): Note Any Deficiencies: Signature: Name (Print): Date: Note Any Deficiencies: MARIA Name (Print): Signature: Date: Note Any Deficiencies: Signature: Name (Print): Date: Note Any Deficiencies: Name (Print): On 50 1 Signature: Date: Note Any Deficiencies: Name (Print): Signature: Date: Note Any Deficiencies: Name (Print): Whiteo Signature:/ Date: Note Any Deficiencies: Name (Print): Signature: Date: Note Any Deficiencies:



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Note Any Deficiencies:	11.0	
Name (Print): (1) Hon Shelton	Signature: (165) 100	Date: 7-35-09
Note Any Deficiencies:		
Name (Print): Clitton Shetton	Signature: Child Strong	Date: 7-26-09
Note Any Deficiencies:	<u> </u>	
Name (Print): Cliffon Shelfon	Signature:	Date: 7-87-09
Note Any Deficiencies:	W. Com	
Name (Print): Wilton Shelton	Signature:	Date: 7-38-09
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Name (Print):	Signature:	Date:
Note Any Deficiencies:		



Pit Inspection Log Sheet Completion (daily while rig is on-site, then weekly as long as liquids remain in the pit)

Well Name: CA	RRACAS	18 B # / API: 30	-039 -30483
Name (Print): Deu &	YNE BLANC.	eff Signature: D. Blance	Date: 7-30-09
Note Any Deficiencies:	None		
Name (Print):		Signature: D. Blancett	Date: 7-3/-09
Note Any Deficiencies:	None		
Name (Print):		Signature: D. Blancett	Date: 8 ~ 1 - 0 9
Note Any Deficiencies:	NONE		
Name (Print):		Signature: D. Blancett	Date: 8-2-09
Note Any Deficiencies:	NONE		
Name (Print):		Signature: D. Blance 4	Date: 8-3-09
Note Any Deficiencies:	NONE	·	•
Name (Print):		Signature: D. Blancett	Date: 8 - 4-09
Note Any Deficiencies:	NONE	·	
Name (Print):		Signature: 1) Blance	Date: 8 - 5- 59
Note Any Deficiencies:	NONE		
Name (Print):		Signature: D Blancet	Date: &-6-09
Note Any Deficiencies:	NONE		
Name (Print):		Signature: D. Blancett	Date: 8 - 7-09
Note Any Deficiencies:	NONE		
Name (Print):		Signature: Dlancel	Date: § . 8 . 09
Note Any Deficiencies:	None		
Name (Print):		Signature: D. Blancett	Date: 8-9-09
Note Any Deficiencies:	None		
Name (Print):		Signature: D. Blance	Date: \$-10-09
Note Any Deficiencies:	None		
Name (Print):		Signature: D. Blancet	Date: \$ ~//-09
Note Any Deficiencies:	NONE		
Name (Print):		Signature: D. Blamet	Date: 8 -/2-09
Note Any Deficiencies:	MONE		
Name (Print):		Signature: D. Blanack	Date: 8 -/3-09
Note Any Deficiencies:	None	· · · · · · · · · · · · · · · · · · ·	
Name (Print):		Signature: D. Blancett	Date: 8-14-09
Note Any Deficiencies:	NONE		



Pit Inspection Log Sheet

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

Well Name: ('AR	RACAS	<i> 8 </i>	-039-30483
Name (Print):	MINE BLAN	(ceHSignature: D. Blancet	Date: 8-15-09
Note Any Deficiencies:	None		
Name (Print):		Signature: D. Blances	Date: 8-16-09
Note Any Deficiencies:	NONE		,
Name (Print):		Signature: D. Blanest	Date: 8-17-09
Note Any Deficiencies:	None		
Name (Print):		Signature:	Date:
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Name (Print):		Signature:	Date:
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: Cam	aces 18	SHI	API:			
Name (Print): 15:11	Vocke	Signature:	Bul	Date: 8-16	-09	
Note Any Deficiencies:	None					
Name (Print): 3.1/	Vocke	Signature:	181	Date: 8-24	-09	
Note Any Deficiencies:	none					
Name (Print):	Vocke	Signature:	Be	Date: 8-3/	-09	
Note Any Deficiencies:	None				· · · · · · · · · · · · · · · · · · ·	
Name (Print): 1511	Vocke	Signature:	FUL.	_ Date: 9-7-0	79	
Note Any Deficiencies:	None					ţ ·
Name (Print): /3/1/		Signature:	Tar	Date: 9 - 14 -	09	
Note Any Deficiencies:	none					
Name (Print):	Vocke	Signature:	Toll	Date: 9-21-	-09	A second
Note Any Deficiencies:	none				, 	
Name (Print): 5M	Nocke	Signature:	Tan	Date: 9-28-	09	
Note Any Deficiencies:	none	*** :				
Name (Print):	Vocke	Signature:	311		<u> ७९</u>	
Note Any Deficiencies:	/whe					
Name (Print): 15,10	Vocke	Signature:	BL	. Date: 10-12-	09	
Note Any Deficiencies:	none c	entrap	uge 900e/11	o water	, 	
Name (Print): /5,1//	Voeke	Signature:	BI	_ Date: 16 - 70	>09 <u> </u>	
Note Any Deficiencies:	none				<u> </u>	
Name (Print):	-311	Signature:		Date:		0
Note Any Deficiencies:	Wit C	losed	10/28/09	1 RINISh	work in	SKIN
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:		
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Name (Print):		Signature:		Date:		
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