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.

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

2478	Proposed A	lternative Metho	od Permit or Clos	sure Plar	Application
610		osure of a pit, closed- odification to an exist osure plan only submi	loop system, below-gracing permit	de tank, or p	roposed alternative method proposed alternative method n-permitted pit, closed-loop system,
Instru	ctions∵ Please submit one a <sub>l</sub>	oplication (Form C-144)	per individual pit, closed-	-loop system,	below-grade tank or alternative request
					ation of surface water, ground water or the nental authority's rules, regulations or ordinance
Operator:	Energen Resources	Corporation		OGRID#:	162928
Address:	2010 Afton Place,	Farmington, NM	87401		

Address: 2010 Afton Place, Farmington, NM 87401
Facility or well name: Carracas 31 B #16
API Number: 30-039-30701 OCD Permit Number:
U/L or Qtr/Qtr P Section 30 Township 32N Range 04W County: Rio Arriba
Center of Proposed Design: Latitude 36.95318 N Longitude 107.28980 W NAD: 1927 X 1983
Surface Owner: 🔀 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment
Pet: Subsection F or G of 19.15.17.11 NMAC   Temporary: □ Drilling ▼ Workover   □ Permanent □ Emergency □ Cavitation □ P&A   ▼ Lined □ Unlined Liner type: Thickness 20 mil ▼ LLDPE □ PVC □ Other   ▼ String-Reinforced   Liner Seams: □ Welded ▼ Factory □ Other Volume: 1500 bbl Dimensions: L_155 x W_85 x D_10
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  Welded Factory Other  TUN 2012
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:

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, scho	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)	
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 Burconsideration 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 applice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	propriate district of approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	· Yes No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No
Within a 100-year floodplain 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 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						
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)  Won-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 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 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 activitie operations?	s occur on or in areas that will not be used for future ser	vice and				
Yes (If yes, please provide the information below)						
Required for impacted areas which will not be used for future service and opera  Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate Plan - based upon the appr	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 require be considered an exception which must be submitted to the Santa Fe Environand/or demonstrations of equivalency are required. Please refer to 19.15.17.1	the closure plan. Recommendations of acceptable sout quire administrative approval from the appropriate dist mental Bureau office for consideration of approval. Ju	rict office or may				
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	Yes No				
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS;	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 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 chu - 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 X No				
Within incorporated municipal boundaries or within a defined municipal fresh valopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written ap	·	Yes X No				
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; V	Visual inspection (certification) of the proposed site	Yes X No				
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-M	ining and Mineral Division	☐ Yes ☒No				
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Ge Society; Topographic map	ology & Mineral Resources; USGS; NM Geological	☐ Yes ☒ No				
Within a 100-year floodplain FEMA map		☐ Yes 🗷 No				
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each o by a check mark in the box, that the documents are attached.	f the following items must be attached to the closure pla	n. Please indicate,				

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:					
OCD Approval: Permit Application (including closure plan) Closure	· · · · · · · · · · · · · · · · · · ·					
	Approval Date: 8/15/281					
Title: Compliance Office Och Pe	ermit Number:					
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 implere 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					
团(	Closure Completion Date: 4/6/11					
Closure Method:  Waste Excavation and Removal Considered 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 I Instructions: 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)	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  36.95286 Longitude -107.28961 NAD: \( \sum 1927 \) 1983						
25						
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.						
Name (Print): Aina Stotts	Title: Regulatory Analyst					
Signature: Anna Signature:	Date: <u>astotts@energen</u>					
e-mail address: _505-324-4154	Telephone:5/25/11					

### Well Name: Carracas 31B #16H

### 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.

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 (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	.0458
TPH	EPA SW-846 418.1	2500	51.7
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	<del>500</del> /1000	330

### 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.

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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.

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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 31B #16H, Unit P Sec. 30, T32N, R04W – Pit Burial Site.

Submit to Appropriate District Office Five Copies District I				State of New Mexico Energy, Minerals and Natural Resources				Form C-105 July 17, 2008									
1625 N French Dr , Hobbs, NM 88240 District II										1. WELL API NO.							
1301 W Grand Av	venue, Artes	sıa, NM	1 88210	OIL CONSERVATION DIVISION				30-039-30701									
District III		TN 4 07	410					JN		2. Ty						-	
1000 Rto Brazos R District IV	(d, Aztec, r	NIM 874	110			20 South S						ÎST <i>A</i>			Ex	] FEI	D/INDIAN
1220 S St Francis	s Dr , Santa	Fe, NN	И 87505		S	anta Fe, 1	NM 875	U5 			3. Sta	ite O	il &	Gas Le		lo.	
WELL (	COMPL	ETIC	ON OR RE	ECO	<b>MPLETION</b>	REPOR	T AND	LOG			" " " ####		1 (4)			\\ "L" salan	
4. Reason for fi	ling										5. Leas	se Nar	ne o	r Unit Agı	reemen	t Nam	e
COMPL	ETION R	REPOI	RT (Fill in bo	xes#1	1 through #31 fc	or State and	Fee wells	only)			Ca	rrac	cas	31B		•	
COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)  C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19.15.17.13 K NMAC)  #16																	
9. Type of Com		$\supset$ w	ORKOVER	□ I	DEEPENING [	□ PLUGB	ack 🗆	DIFFEI	RENT F	RESERV	OIR [	TO E	HEF	≀ pit c	losui	æ	
8 Name of Ope	erator										9 00	RID	Num	ber			
Energen 1	Resourc	es C	Corporati	on.								1629	28				
10. Address of	Operator										11 P	ool na	ame (	or Wildcat	t		
2010 Aft	on Plac	œ,	Farmingt	on,	NM 87401	γ					E			uitlan			
12 Location	Unit Let	ter	Section		Township	Range	Lot		Feet f	from the	N/S Li	ne .	Feet	from the	E/W L	ine	County
Surface:	P		30		32N	04W	T	•	<u> </u>								
ВН														ļ			
13. Date Spudd	led 14	l. Dat	e T D. Reach	ed	15. Date Rig			16 D	ate Cor	mpleted (	Ready to	Prod	uce)	17. RT,	Elevation GR, etc	ons (E c.)	F & RKB,
18 Total Meas	ured Deptl	h of W	ell ell		19. Plug Bac	k Measured	Depth	20. W	as Dire	ectional S	Survey M	lade	2	1. Type I	Electric	and (	Other Logs Run
22 Producing I	nterval(s),	, of thi	s completion	- Тор	, Bottom, Name	:		•	•				•				
23.				(	CASING R	ECORE	(Repor	t all st	rings	set in	well)						
CASING S	SIZE	V	VEIGHT LB								CEMEN	TING	REC	ORD	T A	AMO	JNT PULLED
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24.	1-				NER RECOR				a riro i	25.				A CIVED SET			
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26. Perforation	n record (i	nterva	I, sıze, and nı	ımber)	)									ENT, SO			
								DEPTI	INTE	RVAL	AM	<u>IOUN</u>	T A	ND KIND	MATE	ERIAI	USED
						DD	ODIC	TION									
28.			D.,, d.,	: N 4	athe d /FI		CODUC'						$\neg$	Well Sta	tua /Du	-d or	Chart real
Date First Produ	uction		Product	1011 1016	ethod (Flowing	z, gas iiji, pu	ımpıng - sı	ze ana iy <sub>i</sub>	be pum	p)				wen sta	ius (FFC	ou or	Snut-tri)
Date of Test		Hou	rs Tested		Choke Size	Prod'n Fo		nl - Bbl.	<u>.</u>	Gas - N	1CF	Wa I	ater -	Bbl	Gas	s - Oıl	Ratio
Flow Tubing Press.		Cası	ng Pressure		Calculated 24- Hour Rate	Oil - Bbl	i I	Gas - 1	мСF	Wa	iter - Bbl	<u> </u>		Oil Grav	ity - AI	PI -(C	orr.)
11033.		1		İ	Trour Ruic												
29. Disposition	of Gas (	Sold, 1	ised for fuel,	ventea	l, etc.)							30. T	est \	Vitnessed	Ву		
31. List Attachments																	
32. If a tempora	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	e burial wa	as use	d at the well,	report	the exact locati	on of the on Latitud		: 36.952	86	Long	gitude	-1	07.	28961	NAI	D: 1	927 <b>X</b> 1983
I hereby certi, Signature	fy that th	· ·	mation sho		- Print	ed		d comple			_		-	and belie	-		5/27/11
E-mail addres		~	stotts@e		en.com <sup>Nam</sup>	e 	UI II ICI		, 	Ti	tle Re	<del></del>		Х члет	.y]	Date	J, Z 1 / 11

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

Revised July 16, 2010

Form C-102

		VV	ELL LO	CAHON	N AND ACK	EAGE DEDIC	ATION PLA	NI .			
¹ API Number				<sup>2</sup> Pool Code <sup>3</sup> Pool Name							
30-039	- 307	01	_	1629		Basin Fi	ruitland	Coal			
<sup>4</sup> Property C	ode				<sup>6</sup> Property N	iame		•	<sup>a</sup> Well Number		
35597				Carr	acas 31	В			16		
OGRID N	lo.				* Operator I		_		* Elevation		
162928			Enev	rgen R	Resource	s Corpora	tion	7	247		
				- J	10 Surface I	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line			
p	30	32N 4W 970				South	815	East	Rio Arriba		
			<sup>11</sup> Bo	tom Hol	e Location If	Different From	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Ilne	Feet from the	East/West line	County		
P	31	32 N	4W		760'	South	760´	East	Rio Arriba		
12 Dedicated Acres	<sup>to</sup> Joint o	r Infili 14	Consolidation	Code 16 Or	der No.						
320	E/á	2									

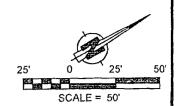
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

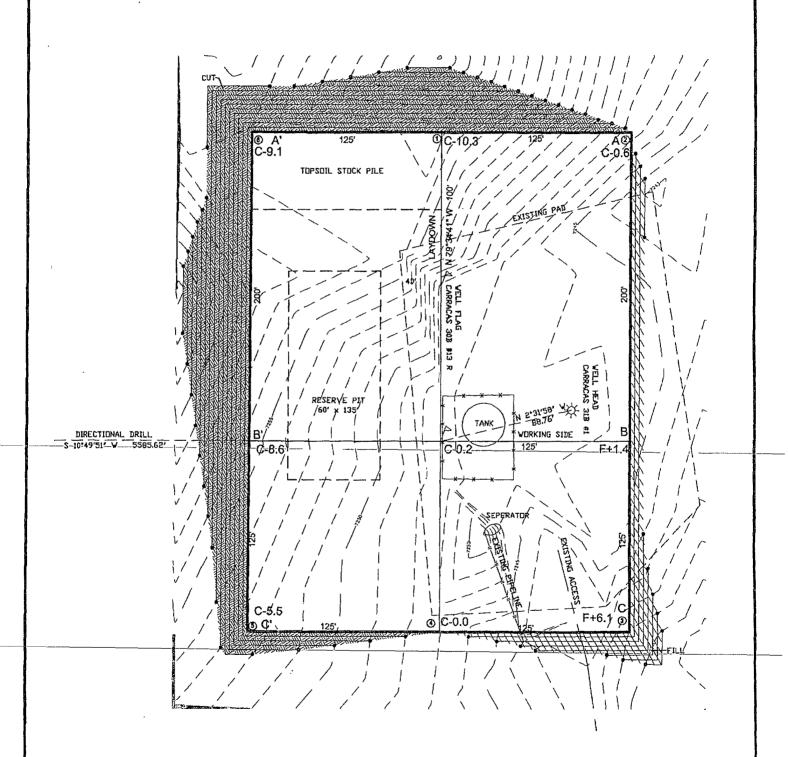
16			]	17 OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete to the
]		1	·	best of my knowledge and belief, and that this organization either owns a
Ĭ				working interest or unleased mineral interest in the land including the proposed
1			k.	bottom hale location or has a right to drill this well at this location pursuant to
Ĭ				a contract with an owner of such a mineral or working interest, or to a
1				voluntary pooling agreement or a compulsory pooling order hardsfore entered
		20		by the division.
			,	Stephen Bress 9-22-10
				Stephen Byers
		CID		Printed Name
	1	SHL 815		churce Para man com
1		1970		Shyers Wenergen.com
<u></u>		1 370		
		110' - 1600'		18SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was
	1	\		plotted from field notes of actual surveys made by me or under
		<del>                                     </del>		my supervision, and that the same is true and correct to the
				best of my belief
		1		T 21 2000
		21\		June 26, 2008
		٦'		Signature and Seal of Professional Surveyor:
<b>A</b>				
	1			David Russell
Į.				
		BHL 760		10201
		760'		Certificate Number
<b>U</b>	<u> </u>	<u> </u>		k

ATITUDE: 36.95318°N GONOITUDE: 107.28980°W DATUM: NAD 83

### **ENERGEN RESOURCES CORPORATION**

CARRACAS 31 B #16
970' FSL & 815' FEL
LOCATED IN THE SE/4 SE/4 OF SECTION 30,
T32N, R4W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7247', NAVD 88
FINISHED PAD ELEVATION: 7247.0', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG169 REV1

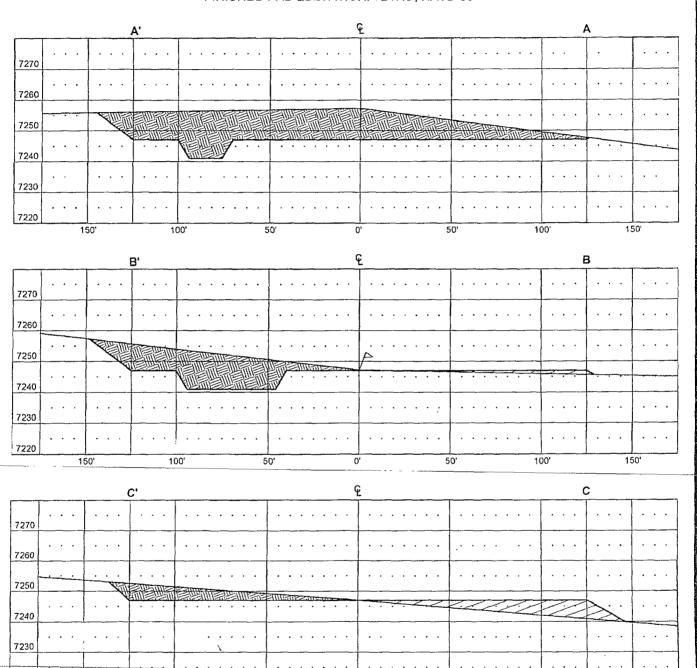
DATE: 07/3/08

m\s

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

### **ENERGEN RESOURCES CORPORATION**

CARRACAS 31 B #16 970' FSL & 815' FEL LOCATED IN THE SE/4 SE/4 OF SECTION 30, T32N, R4W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 7247', NAVD 88 FINISHED PAD ELEVATION: 7247.0', NAVD 88



VERT. SCALE: 1" = 30' HORZ, SCALE: 1" = 50' JOB No.: ERG169\_REV1 DATE: 07/3/08

7220

150

100



50'



100'

50'

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

### **Anna Stotts**

From:

Rocky Hocker [rocky@hockerconstruction.biz] Saturday, March 26, 2011 6:06 PM Bill Vocke

Sent:

To:

Cc:

Doug Thomas; Ed Hasely; Robert Schmidt; Brandon.Powell@state.nm.us; jjmiller@fs.fed.us;

Michael Dean; Anna Stotts; Aaron Burleson; Kellie Campbell

Subject:

Carracus 31 b 16

This is a notice that Hocker Construction will be mobing onto the Carracus 31 b 16 to do well sight reclamation. If any one has any questions please call me at (970-749-0391).

Thank you, Rocky Hocker



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0168
Sample ID:	11051003	Date Reported:	11-08-10
Laboratory Number:	56408	Date Sampled:	11-05-10
Chain of Custody:	10679	Date Received:	11-05-10
Sample Matrix:	Soil	Date Analyzed:	11-08-10
Preservative:	Cool	Date Extracted:	11 <b>-</b> 05-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)				
Paurana	ND	0.0				
Benzene	ND	0.9				
Toluene	7.8	1.0				
Ethylbenzene	ND	1.0				
p,m-Xylene	32.6	1.2				
o-Xylene	5.4	0.9				
Total BTEX	45.8					

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	116 %
	1,4-difluorobenzene	111 %
	Bromochiorobenzene	96.6 %

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 31 B 16

Analyst

Review

### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen	Project #:	03022-0168
Sample ID:	11051003	Date Reported:	11-08-10
Laboratory Number:	56408	Date Sampled:	11 <b>-</b> 05-10
Chain of Custody No:	10679	Date Received:	11-05-10
Sample Matrix:	Soit	Date Extracted:	11-08-10
Preservative:	Cool	Date Analyzed:	11-08-10
Condition:	Intact	Analysis Needed:	TPH-418.1

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

**Total Petroleum Hydrocarbons** 

51.7

6.5

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 31 B 16

Analyst

Review



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Cliente	F	Decision 44	00000 0400
Client:	Energen	Project #:	03022-0168
Sample ID:	11051003	Date Reported:	11 <b>-</b> 08-10
Laboratory Number:	56408	Date Sampled:	11-05-10
Chain of Custody No:	10679	Date Received:	11-05-10
Sample Matrix:	Soil	Date Extracted:	11-05-10
Preservative:	Cool	Date Analyzed:	11-08-10
Condition:	Intact	Analysis Requested:	8015 <b>T</b> PH

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 31 B 16

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



#### Chloride

330

Client:	Energen	Project #:	03022-0168
Sample ID:	11051003	Date Reported:	11-08-10
Lab ID#:	56408	Date Sampled:	11-05-10
Sample Matrix:	Soil	Date Received:	11-05-10
Preservative:	Cool	Date Analyzed:	11-08-10
Condition:	Intact	Chain of Custody:	10679

Parameter Concentration (mg/Kg)

Total Chloride

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 31 B 16

alvet Pa



## **Pit Inspection Log Sheet**

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

Well Name: CARRACAS 3/ B	#16		API:	30-03	9-30701	
Name (Print): DewAyNe BlanceH	Signature:	Sour	aine	Blances	Date: 9-19-20/0	
Note Any Deficiencies:		NO	Ne_			
Name (Print):	Signature:	D F	Plance	et/	Date: 9-18-2010	
Note Any Deficiencies:		. NO	N/e			
Name (Print):	Signature:	.)	Blance	et	Date: 9-19-20/0	
Note Any Deficiencies:			NON-C			
Name (Print):	Signature:	<u>.).</u>	Blane	net/	Date: 9 - 20-20/0	
Note Any Deficiencies:		Na	Ne			
Name (Print):	Signature:		Blanc	vol	Date: 9-21-2010	
Note Any Deficiencies:		<u> </u>	ONE			
Name (Print):	Signature: 、	<u> </u>	Blanc	et	Date: 9-22-2010	
Note Any Deficiencies:		<u> </u>	VONE	,		
Name (Print):	Signature:	$\Delta$	Blane	et	Date: 9-23-20/0	f
Note Any Deficiencies:		Ī	VONE			
Name (Print):	Signature:	<u> </u>	Blan	cet	Date: 9 - 24-2010	2
Note Any Deficiencies:			one			
Name (Print):	Signature:	$\mathcal{L}$	Blas	rcet	Date: 9-25-20/0	)
Note Any Deficiencies:		1	VONC	)		
Name (Print):	Signature:	D_	Blas	ret	Date: 9 - 26-20/	$\bigcirc$
Note Any Deficiencies:			VON	<u>e</u>		
Name (Print):	Signature:	Z.	Bla	moet	Date: 9-21-20/0	)
Note Any Deficiencies:			NON	P		
Name (Print):	Signature:	1)	Bla	nelt	Date: 9 - 28 - 20/0	)
Note Any Deficiencies:			NON	e_		
Name (Print):	Signature:	<u> </u>	Bla	nelt	Date: 9-29-201	C
Note Any Deficiencies:			YON.			
Name (Print):	Signature:	<u></u>	Blas	relt	Date: 9-3-0-20/0	0
Note Any Deficiencies:			NONE			
Name (Print):	Signature:	<u>./).</u>	Blas	relt	Date: 10-1-20/0	7
Note Any Deficiencies:			NON	e		
Name (Print):	Signature:	$\overline{\gamma}$	Bla	nell	Date: 10-2-2010	7
Note Any Deficiencies:			NONE	2		



## **Pit Inspection Log Sheet**

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

Well Name: CAPDACAS 3/	B # 16 API: 30.0	13 <i>9-070/</i>
Name (Print):	Signature: D. Blanch	Date: 10-3-2010
Note Any Deficiencies:	None	
Name (Print):	Signature: D. Blamel	Date: 10-4-2010
Note Any Deficiencies:	NONE	
Name (Print):	Signature: D. Blancet	Date: 10-5-20/0
Note Any Deficiencies:	ploale	
Name (Print):	Signature: D Blance H	Date: 10-6-2010
Note Any Deficiencies:	KONC	
Name (Print):	Signature: D Blancett	Date: 10 - 7-2010
Note Any Deficiencies:	NONE	and the same of th
Name (Print):	Signature: D Blamust	Date: 10 - 8 - 20/0
Note Any Deficiencies:	NONE	
Name (Print):	Signature: Blannet	Date: 10-9-20/0
Note Any Deficiencies:	NONC	
Name (Print):	Signature: D Blameto	Date: 10-10-2010
Note Any Deficiencies:	NONL	Walliam Wall
Name (Print):	Signature: D Blanut	Date: 10-11 - 2010
Note Any Deficiencies:	Nave	
Name (Print):	Signature: D. Planuell	Date: 10-12-201
Note Any Deficiencies:	Nene	
Name (Print):	Signature: D Plancett	Date: 16-13-2010
Note Any Deficiencies:	None	
Name (Frint):	Signature: D Ranal &	Date: 10-14-2010
Note Any Deficiencies:	Moved off	
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		The second secon
Name (Print):	Signature:	Date:
Note Any Deficiencies:		and the state of t
Name (Print):	Signature:	Date;
Note Any Deficiencies;		n saka mendahan kalikat da dan dan dan dan dan dan dan dan dan







CARRACAS 31B #16 970 FSL 815 FEL UNIT P SEC 30 T32N R04W LATITUDE 36 95318 LONGITUDE 107 28980 LONGITUDE 107 28980 LEASE # NMNM-30015 RIO ARRIBA COUNTY NEW MEXICO BASIN FRUITLAND COAL

