District £ 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 Proposed Alternative Method Permit or Closure 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  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 #3
API Number: 30-039-30606 OCD Permit Number:
U/L or Qtr/Qtr M Section 18 Township 32N Range 04W County: Rio Arriba
Center of Proposed Design: Latitude 36.98149 N Longitude 107.30128 W NAD: ☐1927 🗓 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
☑ Pit: Subsection F or G of 19.15.17.11 NMAC   Temporary: ☐ Drilling ☑ Workover   ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A   ☑ Lined ☐ Unlined Liner type: Thickness
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
□ 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 □ Ot
Liner Seams: Welded Factory Other Other
4.    Below-grade tank: Subsection I of 19.15.17.11 NMAC    Volume: bbl Type of fluid: Oll CONS. DIV. DIST. 3
Volume: bbl Type of fluid:
Tank Construction material:
Tank Construction material: Secondary containment with leak detection
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
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, scho institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	ol, hospital,
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 Burconsideration 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 application 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  Previously Approved Design (attach copy of design) API Number: or Permit Number:								
O Totalia (amount)								
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								
Design Fig. 2 based upon the appropriate requirements of 19.15.17.17 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 Lieak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Lieak Detection 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 G of 19.15.17.13 NMAC								

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC). Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two						
facilities are required.   Disposal Facility Name: Disposal Facility Permit Number:						
Disposal Facility Name: Disposal Facility Permit Number:						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future seroperations?  Yes (If yes, please provide the information below)	vice and					
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC					
Siting Criteria (regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distance to be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. J and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	trict 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					
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.  - 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; 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 floodplaín. - FEMA map	Yes No					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached.	lan. 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 19.15.17.11 NMAC  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)  Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC						

Operator Application Certification:  1 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:						
20.							
OCD Approval: Permit Application (including closure plan) Closure-	OCD Conditions (see attachment)						
OCD Representative Signature:OCD Po	Approval Date:						
Title: OCD PO	ermit Number:						
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.							
22.	Closure Completion Date: 10/30/09						
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure If different from approved plan, please explain.	re Method Waste Removal (Closed-loop systems only)						
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That I Instructions: Please indentify the facility or facilities for where the liquids, drilling fluthan two facilities were utilized.  Disposal Facility Name: Disposal	ids and drill cuttings were disposed. Use attachment if more						
Disposal Facility Name: Disposal	Facility Permit Number:						
Were the closed-loop system operations and associated activities performed on or in area  Yes (If yes, please demonstrate compliance to the items below) No	s that will not be used for future service and operations?						
Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique							
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude  36.98140 Longitude 107.30125 NAD: 1927							
25.							
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.							
Name (Print): Vicki Donaghey	Title: Regulatory Analyst						
Signature: Wiki Donokhu	Date: 10/01/10						
e-mail address: vicki.donaghey@energen.com	Telephone: 505-324-4136						

### Well Name: Carracas 18B #3

### 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 (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	ND
TPH	EPA SW-846 418.1	2500	.083
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	<del>500</del> /1000	150

#### 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 #3 – Unit M—Sec. 18, T32N, R04W – Pit Burial Site.

Submit to Appropri	nit to Appropriate District Office State of New Mexico							Form C-105									
District I	r Hobbe l	VIVA 66	240	E	nergy, Mi	nerals an	ıd Natı	ıral Re	sour	ces					July 17,	2008	
District II.								1. WELL API NO.									
1301 W. Grand Avenue, Artesia, NM 88210 District III. OIL CONSERVATION DIVISION								30–039–30606 2. Type Of Lease									
1000 Rio Brazos R District IV	Rd., Aztec,	NM 87	410			20 South S								FEE	XF	FD/INDL	AN
1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505									STATE FEE FED/INDIAN  3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																	
4. Reason for filing:  5. Lease Name or Unit Agreement Name									ame								
COMPL	ETION 1	REPO	RT (Fill in bo	oxes#1	through #31 fo	or State and I	Fee wells	only)		]	Carr	aca	s 18E	3			
#33; attach this	and the p	ATT	ACHMENT he C-144 clos	(Fill in ure rep	boxes #1 throu ort in accordan	igh #9, #15 I ce with 19.1	Date Rig R 5.17.13.K	Released and NMAC)	nd #32	and/or	6. Well N #3	umbe	er				
9. Type of Com	ipletion WELL	□ w	ORKOVER		DEEPENING [	☐ PLUGBA	ack $\square$	DIFFER	ENT I	RESERVO	OIR X	ОТНІ	ER <b>pi</b>	t al	osure		
8. Name of Ope	erator										9. OGRI					,	
Energen 10. Address:of		ces (	Corporati	.on_				··· · · · · · · · · · · · · · · · · ·			11. Pool	2928		ldoot			
2010 Aft		~~	Farmingt	-070	NM 87401										Coal		
12. Location	Unit Le		Section	<u> </u>	Township	Range	Lo	t	Feet 1	from the	N/S Line				W Line	County	
Surface:					<del>-</del>	<u> </u>					1	+		$\top$			
ВН:																	
13. Date Spudd	ed 1	4. Dat	e T.D. Reach	ed	15. Date Rig	Released	·	16. Da	ite Coi	mpleted (I	Ready to Pr	oduce			evations R, etc.)	(DF & RKI	В,
18. Total Meas	ured Dept	th of W	/eii		19. Plug Bac		Depth	20. W	as Dir	ectional S	urvey Mad	e	21. T	ype Ele	ectric an	d Other Log	s Run
22. Producing I	nterval(s)	), of thi	is completion	- Top,	Bottom, Name	· .							l		,		
23.					CASING R	ECORD	(Repo	rt all str	ings	set in v	well)					_	
CASING S	SIZE	V	WEIGHT LB.	/FT.	DEPTH	I SET	НО	LE SIZE		C	CEMENTIN	IG RE	ECORD	,	AM	OUNT PUL	LED
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SIZE	Т	OP		BOT	ER RECOR	D SACKS CE	MENT	SCP	.EEN	25. SIZ		UB	ING F	RECO TH SET		PACKER	CET
SIZE		<u> </u>		DO1	·	SACKS CE	SIVILSINI	1	EEN	312	E		DEFI	пзы	1	FACKER	3E1
		· · · · · · · · · · · · · · · · · · ·															
26. Perforation	record (i	nterva	l, size, and nu	ımber)				27. ACI DEPTH			ACTURE AMOU					TC. AL USED	
28.						DD	ODUC'	TION			i						-
Date First Produ	ction	<u></u>	Producti	ion Me	thod (Flowing				e pump	p)			Well	Status	s (Prod.	or Shut-in)	
Date of Test		Hour	rs Tested		Choke Size	Prod'n Fo Test Perio		Oil - Bbl.		Gas - M	CF	Water	r - Bbl.		Gas - 0	Oil Ratio	,
Flow Tubing Press.		Casii	ng Pressure		Calculated 24- Hour Rate	Oil - Bbl.	·······	Gas - M	CF	Wat	ter - Bbl.		Oil (	Gravity	y - API -	(Corr.)	
29. Disposition	of Gas (	Sold, u	sed for fuel, 1	vented,	etc.)						30	. Test	t Witnes	ssed B	У		
31. List Attachn	nents				,						<u> </u>						
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.																	
33. If an on-site burial was used at the well, report the exact location of the on-site burial:  Latitude 36.98140 Longitude -107.30125 NAD: 1927 X 1983																	
I hereby certif		DNC	They		Printe Name	d,		d complei Donaghe		he best o		_			st <sub>Dat</sub>	te 08/1	7/10
E-mail address	<u> </u>	vc	dontaghe@e	nerg	en.comî ```					1.10					-> 41	-	

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

<sup>4</sup> Property Code

35658

7OGRID No

162928

District.1Y

UL or lot no

М

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

Section

18

Township

32N

Range

Lot. Idn

State of New Mexico Energy, Minerals & Natural Resources

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

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies

East/West line

West

Fee Lease - 3 Copies AMENDED REPORT

County

Rio Arriba

LOCATION AND ACREAGE DEDICATION PLAT WELL 1 API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name 30-039-30606 71629 Basin Fruitland Coal <sup>6</sup> Well Number <sup>5</sup> Property Name

Carracas 18B <sup>8</sup> Operator Name <sup>9</sup> Elevation Energen Resources Corporation 74261 <sup>10</sup>Surface Location

Feet from the

04W 755 South 965 Bottom Hole Location If Different From Surface

Feet from the North/South line

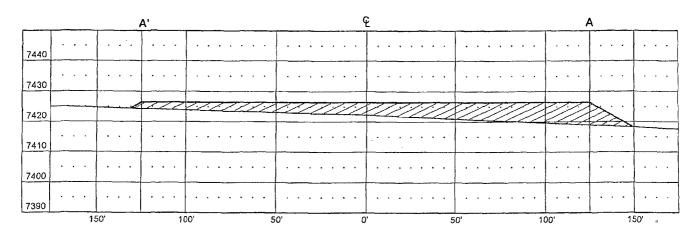
			,						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	18	32N	04W		711	North	258	West	Rio Arriba
12 Dedicated Acre 299.72 W/2		nt or Infill	14 Consolidation	n Code 15 O	rder No	3119		RCVD A	UG 28 '09

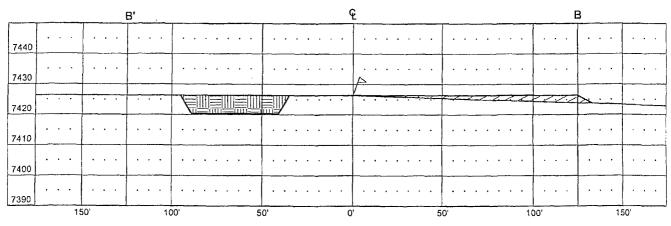
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

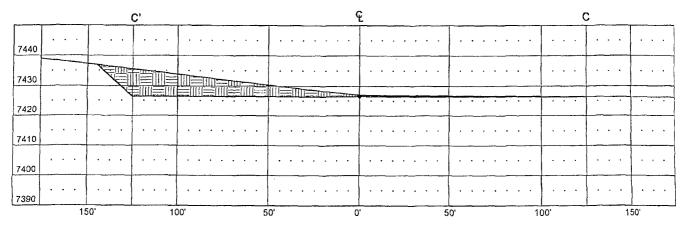
NUN-STAI	DARD UNIT HAS BEEN APPROVED BY	THE DIVISION DIST 3
2000 KK 12810A		17 OPERATOR CERTIFICATION It hereby certify that the information contained herein is true and complete to the best of my knowledge and helief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order
		heretofore entered by the division  08/27/09 Signature Date  Vicki Donachey  Printed Name
Bot		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief  June 26, 2008 Date of Survey
97 - 551		Signature and Seal of Professional Surveyor  ORIGINAL SURVEY CONCLETE AND SURVEY  TRANSPORT  LODO!  Certificate Number

### **ENERGEN RESOURCES CORPORATION**

CARRACAS 18B #3
755' FSL & 965' FWL
LOCATED IN THE SW/4 SW/4 OF SECTION 18,
T32N, R4W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7426', NAVD 88
FINISHED PAD ELEVATION: 7426.4', NAVD 88







VERT, SCALE: 1" = 30' HORZ, SCALE: 1" = 50' JOB No.: ERG127\_REV1

DATE: 07/10/08

III cu



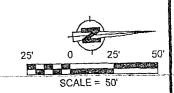


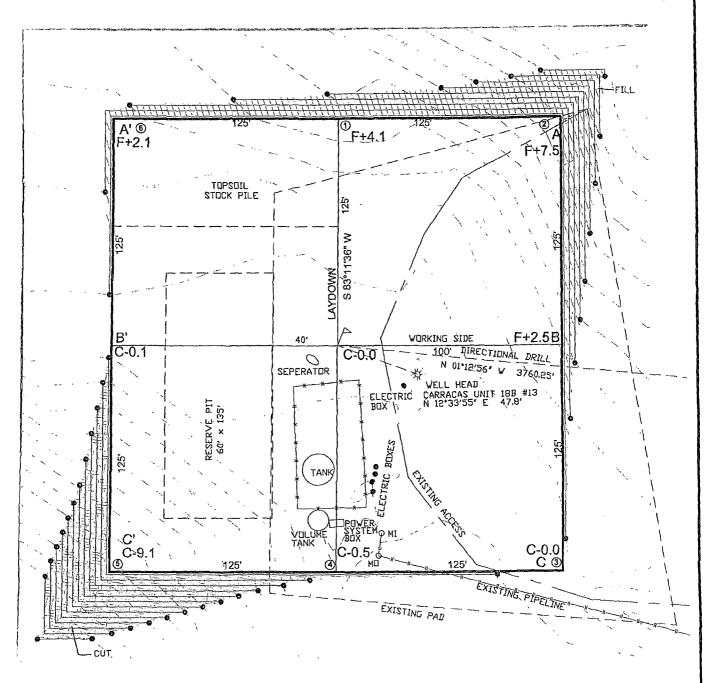
Il Surveying Aztec Blvd. #5 lew Mexico 87410 4-8637 . (TIDE: 36.98149° N ATTUDE: 107.30128° W DATUM: NAD 83

### **ENERGEN RESOURCES CORPORATION**

CARRACAS 18B #3
755' FSL & 965' FWL
LOCATED IN THE SW/4 SW/4 OF SECTION 18,
T32N, R4W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO

RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 7426', NAVD 88 FINISHED PAD ELEVATION: 7426.4', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERG127\_REV1

DATE: 07/10/08



Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637

### Vicki Donaghey

From: Powell, Brandon, EMNRD [Brandon.Powell@state.nm.us]

Sent: Tuesday, September 08, 2009 9:43 AM

To: Danielle Maestas

Cc: Bill Vocke; Robert Schmidt; kcampbell@energen.com; Vicki Donaghey; ehasley@energen.com;

**David Poage** 

Subject: RE: Carracas 18B#3

As a reminder, pit closure notification is required 72 hrs to 1week PRIOR to commencement of closure activities. On this well go ahead and start closure activities as planned, but ensure future notifications are in compliance. Below is a copy of the rule showing the required timeline and required contents of the notification.

(2) The operator of a temporary pit or below-grade tank or an operator who is approved for on-site closure shall notify the

appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to any closure operation. The

notice shall include the operator's name and the location to be closed by unit letter, section, township and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

Thank You Brandon Powell Environmental Specialist New Mexico Oil Conservation 1000 Rio Brazos Rd, Aztec NM 87410 Office: (505) 334-6178 ext. 15

E-mail: Brandon.Powell@state.nm.us

From: Danielle Maestas [mailto:danielle@hockerconstruction.biz]

Sent: Tuesday, September 08, 2009 9:00 AM

To: Powell, Brandon, EMNRD

Cc: bill.vocke@energen.com; rschmidt@energen.com; kcampbell@energen.com; vdonaghe@energen.com;

ehasley@energen.com; dpoage@energen.com

Subject: Carracas 18B#3

This email is to inform you that Hocker Construction will be performing the pit reclamation and site clean up for the Carracas 18B#3. As of Tuesday September 8, 2009 the pit closure procedure will begin. If you have any further questions please call us at 970-563-9533.

Thank You,

Roy Hocker



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

Client:	Energen	Project #:	03022-0001
Sample ID:	10160901B	Date Reported:	10-19-09
Laboratory Number:	52160	Date Sampled:	10-16-09
Chain of Custody No:	8226	Date Received:	1 <b>0-1</b> 6-09
Sample Matrix:	Soil	Date Extracted:	10-16-09
Preservative:	Cool	Date Analyzed:	10-19-09
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	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 #18B3

Analyst

Mestle Make



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	10160901B	Date Reported:	10-20-09
Laboratory Number:	52160	Date Sampled:	10-16-09
Chain of Custody:	8226	Date Received:	10-16-09
Sample Matrix:	Soil	Date Analyzed:	10-19-09
Preservative:	Cool	Date Extracted:	10-16-09
Condition:	Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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 #18B3

Analyst

Review



### **EPA METHOD 418.1** TOTAL PETROLEUM **HYDROCARBONS**

Client:	Energen	Project #:	03022-0001
Sample ID:	10160901B	Date Reported:	10-20-09
Laboratory Number:	52160	Date Sampled:	10-16-09
Chain of Custody No:	8226	Date Received:	10-16-09
Sample Matrix:	Soil	Date Extracted:	10-20-09
Preservative:	Cool	Date Analyzed:	10-20-09
Condition:	Intact	Analysis Needed:	TPH-418.1

1	The state of the s	Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

83.0

9.7

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 #18B3.



#### Chloride

Client:	Energen	Project #:	03022-0001
Sample ID:	10160901B	Date Reported:	10-20-09
Lab ID#:	52160	Date Sampled:	10-16-09
Sample Matrix:	Soil	Date Received:	10-16-09
Preservative:	Cool	Date Analyzed:	10-19-09
Condition:	Intact	Chain of Custody:	8226

P	a	ra	m	Δŧ	er

### Concentration (mg/Kg)

**Total Chloride** 

150

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 #18B3.

Analyst

Review



Well Name:⊸Carracas 18B #3	API:	30-039-30606
Name (Print): Roy (Mbe Signature.	///	Date: (0-21-09
Comments:		1
Name (Print): Rey (in be) Signature:		Date: 6-22-09
Comments:	· · · · · · · · · · · · · · · · · · ·	7
Name (Print): Ray (in by) Signature 3		Date: 6-23-09
Comments:	9	
Name (Print): (1) Hon Shelton Signature: Hillott)	The	Date: 6-24-09
Comments:		
Name (Print): Office Shelfon Signature:	55	Date: 6-25-09
Comments:	#	\$
Name (Print): Witten Sholfon Signature:	tro	Date: 6-26-09
Comments:	1 marine	;
Name (Print): Witton Notion Signature Add Mil	TW	Date: 6-27-09
Comments:	0.	•
Name (Print): White Shelton Signature	HATO	Date: 6-68:09
Comments:	1	Note that the state of the stat
Name (Print): Witton Shelfon Signature 1	<b>TITO</b>	Date: 6-29-09
Comments:	1	
Name (Print): ( ) A Signature: Man		Date: 6-30-09
Comments:		
Name (Print): BYANBOWN Signature:	A P	Date: 7 - /
Comments:		
Name (Print): Bryan Brown Signature:	P	Date: 7,2
Comments:		A Comment of the Comm
Name (Print): BOYAN BOWN Signature: 73/	IR_	Date: 7 - 3
Comments:		N. P.
Name (Print): BYAN Brown Signature: Range	72	Date: 7 ~ 4
Comments:		
Name (Print): X YAM Signature: We	-7/	Date: 7-5
Comments:		
Name (Print): BN AN Brown Signature: RAN		Date: 7 6
Comments:		
Name (Print): BNAN BOWN Signature: BAN	7/	Date:



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

Well Name: CARRACAS 18-B-	API: 30-039	3-30606
Name (Print): JACK DNEAL Sign	ature: Jack 10 rec	Date: 7-17-2009
Note Any Deficiencies: んのんど		
Name (Print): JACK ONEAL Sign	ature: lack 10 Row	Date: 7-20-2009
Note Any Deficiencies: カリカア		
Name (Print): JACK DNEAC Sign	ature: Jack & Oren	Date: 7-21-2009
Note Any Deficiencies: ぬるから		
Name (Print): JACK ONEAC Sign	ature: Jack Oreal	Date: 7-22-2009
Note Any Deficiencies: ルるんど		
Name (Print): JACK WEAL Sign	ature: Carl Cred	Date: 7-23-2009
Note Any Deficiencies: ルかい E		
Name (Print): JACK ONEAC Sign	ature: furk Drew	Date: 7-24-2009
Note Any Deficiencies: んつんど		
Name (Print): JACK ONEAC Sign	ature: Just Oreve	Date: 7-27-2009
Note Any Deficiencies: WowE		
Name (Print): JACK ENEAC Sign	ature: July Over	Date: 7-28-2009
Note Any Deficiencies: いういど		
Name (Print): JACK ONEAC Signa	ature: Juck Porcel	Date: 7-27-2009
Note Any Deficiencies:		
Name (Print): JACK ONEAC Signa	ature: first Ores	Date: 7-30-2009
Note Any Deficiencies: NONE		
Name (Print): JACK ONEAL Signa	ature: fiah (Oreal	Date: 7-31-2009
Note Any Deficiencies: NONE		
Name (Print): FACK ONEAL Signa	ature: fack Deed	Date: 8-3-2009
Note Any Deficiencies: NONE		
Name (Print): JACK ONEAL Signa	ature: feel Ores	Date: 8-4-2009
Note Any Deficiencies: んしんど		
Name (Print): TACK ONEAL Signa	ature: feet one	Date: 8-5-2009
Note Any Deficiencies: ひるがと		
Name (Print): JACK OWEAC Signa	ature: Jack 102ad	Date: 8-6-2009
Note Any Deficiencies: ル の		
Name (Print): JACK ONEAL Signa	ature: Grekloran	Date: 8-7-200 S
Note Any Deficiencies: ハンルモ	U	





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

Well Name: CARACAS - 18-B	ያ <sub>ጓ</sub> ን API: <u>30 - 03</u>	9-30606
Name (Print): JACK GNEAL	Signature: Jack Longal	Date: 8-10-2009
Note Any Deficiencies: NONE		•
Name (Print): JACK ONEAL	Signature: Gullorel	Date: 8-11-2009
Note Any Deficiencies: ルゥルモ		
Name (Print): JACK ONEAL	Signature: Just Concel	Date: 812-2009
Note Any Deficiencies:		
Name (Print): JACK ONEAK	Signature: Jek 10 noch	Date: \$73-200}
Note Any Deficiencies:		
Name (Print): JACK DWEAL	Signature: Jack Oracl	Date 8-14-2009
Note Any Deficiencies: NO NE		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		
Name (Print):	Signature:	Date:
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Note Any Deficiencies:		
Name (Print):	Signature:	Date:
Note Any Deficiencies:		



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

Well Name: Cerraces	18B#3	API:	
Name (Print): /// Voc	le Signature:	Sue Date:	8-17-09
Note Any Deficiencies: 1000	e		
Name (Print): /3/1/ Voe	لو Signature: ک	Date:	8-16-09
Note Any Deficiencies:			
Name (Print): /S!// Voe	lee Signature:	Date:	8-74-09
Note Any Deficiencies: Men-	e Centra Rug	e gone I no	water
Name (Print): Sill Voc	e Signature: 73	Date:	8-31-09
Note Any Deficiencies: MY	<u>re</u>		
Name (Print): 5,0	Oche Signature:	Date:	9-7-09
Note Any Deficiencies:	H		
Name (Print): /Sill Voc	Le Signature: Z	Date:	9-14-09
Note Any Deficiencies: NO	10		
Name (Print):	OCK Signature:	Date:	9-21-09
Note Any Deficiencies: VW			
Name (Print): Sill Vec	K Signature: T	be Date:	9-28-09
Note Any Deficiencies: 1/10/	e		
Name (Print): /5:/// Voe	K Signature: 75	Date:	10-6-09
Note Any Deficiencies: //৩٧	1e		<u>,                                     </u>
Name (Print): S.W Voc	Ke Signature:	Date:	10-12-09
Note Any Deficiencies:	R .		·
Name (Print): 15/11 Voe	K Signature:	Date:	10-20-09
Note Any Deficiencies: 10/	10		
Name (Print): Bill Voc	Ke Signature: Vo	Date:	10-28-09
Note Any Deficiencies: Non	e		
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:	
Note Any Deficiencies:			

