District I 1625 N French Dr , Hobbs, NM 88240 1301 W Grand Avenue, Artesia, NM 88210 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

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

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

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
OperatorEnerVest Operating, LLC OGRID #143199
Address1001 Fannin StSte 800Houston, Texas 77002
Facility or well name Jicarilla C#5
API Number30-039-08160 OCD Permit Number
U/L or Qtr/Qtr I Section 24 Township 26N Range 05W County Rio Arriba
Center of Proposed Design Latitude36 470028 Longitude107 303993 NAD □1927 ☒ 1983
Surface Owner
Pit: Subsection F or G of 19 15 17 11 NMAC Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other P
☑ Below-grade tank: Subsection I of 19 15.17.11 NMAC PROPOSED RETROFIT FOR EXISTING BGT
Volume 95 bbl Type of fluid Produced Water
Tank Construction materialSteel w/ expanded metal cover
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type Thickness 45 mil HDPE PVC Other
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) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify 42" Hog-wire fence with 2 strands barbed-wire on top	hospital,
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 Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of consideration of approval Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate 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 drying above-grade tanks associated with a closed-loop system.	priate district pproval.
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 ☐ NA
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. Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number30-039-29771 or Permit Number6582
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15.17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15.17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19 15 17 13 NMAC Previously Approved Design (attach copy of design) API Number Previously Approved Operating and Maintenance Plan API Number. (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15 17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15 17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC 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 the appropriate requirements of 19.15 17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan 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 H ₂ S, 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
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 States Instructions: Please indentify the facility or facilities for the disposal of liquids, a facilities are required.		
•	Disposal Facility Permit Number	
	Disposal Facility Permit Number	
Will any of the proposed closed-loop system operations and associated activities oc ☐ Yes (If yes, please provide the information below) ☐ No		
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19 15.17.13 NMAC of 19.15.17 13 NMAC	C
Siting Criteria (regarding on-site closure methods only): 19.15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC f	e administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	rict office or may be
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 ☐ NA .
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signals (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or significant water well or significant within 1000 horizontal feet of any other fresh water well or significant water well or significant water well or significant water wat	oring, in existence at the time of initial application	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approve		☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visua	l 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 Society; Topographic map	& Mineral Resources, USGS, NM Geological	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Instruction/Design Plan of Temporary Pit (for in-place burial of a drying position Protocols and Procedures - based upon the appropriate requirements of Instruction Sampling Plan (if applicable) - based upon the appropriate requirements of Insposal Facility Name and Permit Number (for Inquids, drilling fluids and described Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	nirements of 19 15 17 10 NMAC Subsection F of 19 15 17.13 NMAC propriate requirements of 19.15 17 11 NMAC ad) - based upon the appropriate requirements of 19 .17.13 NMAC nirements of Subsection F of 19.15 17.13 NMAC Subsection F of 19 15 17 13 NMAC rill cuttings or in case on-site closure standards cann of 19 15 17 13 NMAC T of 19 15 17.13 NMAC	15.17.11 NMAC

19		
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurately.	rate and complete to the	best of my knowledge and belief
Name (Print):Ronnie L Young		
Signature L L Dong	Date	92410
e-mail addressryoung@enervest net		713-495-6530
OCD Approval: Permit Application (including closure plan) Closure	Plan (only) DCD C	Conditions (see attachment)
OCD Representative Signature:	y	_ Approval Date: 1/24/2012
Title: Complance Uttre		er:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the	to implementing any cl the completion of the cl closure activities have be	osure activities and submitting the closure report. losure activities. Please do not complete this een completed.
	Closure Compl	etion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Method Altern If different from approved plan, please explain	native Closure Method [☐ Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dr two facilities were utilized. Disposal Facility Name	illing fluids and drill cu	
Disposal Facility Name		mit Number
Were the closed-loop system operations and associated activities performed on a Yes (If yes, please demonstrate compliance to the items below) \(\square\$ No		
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	tions	
24		
Closure Report Attachment Checklist: Instructions: Each of the following 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 Long)	
Operator Closure Certification:		and complete to the best of more brounded as and
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	report is true, accurate a ments and conditions spo	ecified in the approved closure plan.
Name (Print)	Title	
Signature.	Date:	
a mail address	Telenhone:	

Attachment to Form C-144 Below-grade Tank Permit Application

Introduction:

EnerVest Operating, LLC (EV) is submitting this application to permit an existing below-grade tank or a new below-grade tank at a recently completed well, all under the authority of 19.15.17 NMAC. The below-grade tank at this location is used to collect produced water from the primary and secondary separators. This tank is not currently permitted; therefore this document serves as supporting documentation referenced in the attached Form C-144.

This application is being submitted for the following well site:

Well Name:

Jicarilla C #5

API No:

30-039-08160

Location:

UL I, Sec 24, 26N, 05W

The supporting documentation contained in this C-144 attachment is organized as follows:

Section I – Sitting Criteria Compliance Demonstration

Section II – Design Plan

Section III – Operating and Maintenance Plan

Section IV – Closure Plan

Section V – Hydrogeology Report

Appendices:

- 01 USGS 7.5 Minute Topo Map
- 02 Groundwater (water well search)
- 03 Aerial Photo
- 04 Municipal Boundary Map
- 05 U.S. Fish & Wildlife Wetland Identification Map
- 06 FEMA 100-year Floodplain map
- 07 Mine Map
- 08 C-102 Location Plat & Site Physical Inspection Sheet
- 09 Karst Map for unstable areas

References

1

Section I

Sitting Criteria Compliance Demonstration

Jicarilla C #5

API No. 30-039-08160

Sitting Criteria Compliance Demonstration

Criteria as per 19.15.17.10.(A) (1)	In Compliance	Comments
Ground water less than 50' below bottom of tank	Yes	Refer to "Site Hydrology Report" in Section V
Within 300' of continuously flowing watercourse or 200 feet of other significant watercourse, lakebed, sinkhole, or playa lake (measured from ordinary high-water mark)	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08
Within 300 feet of a permanent residence, school, hospital, institution, or church	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08
Within 500 ft of a private, domestic freshwater well or spring or within 1000 ft of freshwater well or spring in existenance at time of application	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08
Within incorporated municipal boundary of defined municipal fresh water field	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08
Within 500 feet of a wetland	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08 and USF&W Map in Appendix 5
Within the area overlying a subsurface mine	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08
Within an unstable area	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08 and Karst Map in Appendix 09
Within a 100-year floodplain	Yes	Refer to Observed Setting Requirements completed by field personnel in Appendix 08 and FEMA Map in Appendix 06

Section II

Design & Construction Plan

EnerVest Operating, LLC (EV)

BELOW-GRADE TANK DESIGN AND CONSTRUCTION SPECIFICATIONS

Rule 19.15.17.11

- C. Enervest Operating is the official operator of record for all wells which have below-grade tanks to be addressed in this specification. All below-grade tanks are located on these leases and will be in full compliance with 19.15.16.8 regarding signage.
- D. ___EV_will_ensure_a_fence_shall_be_constructed_and_maintained_in_good_repair_with_ ____gates_that_are_closed_and_locked_when_responsible_personnel_are_not_on_site. EV_shall insure that all gates are closed and locked when responsible personnel are not on-site.

If the below-grade tank is located within 1,000 feet of a permanent residence, school, hospital, institution or church, the fence shall be a chain link security fence at least 6 feet in height with at least two strands of barbed wire on top.

If the below-grade tank is not within 1,000 feet of the above mentioned structures, the fence shall constructed to exclude livestock with at least four strands of barbed wire evenly spaced between one foot from the ground and four foot above the ground.

EV is requesting administrative approval to use a 42" Hog wire fence with 2 strands barbed-wire on top in lieu of the required four strand barbed wire fence. This will be supported with iron posting at the corners and 10 - 12 feet apart. EV believes this will offer better protection for wildlife in these tank areas. Please refer to Exhibit 2.1 of this Section.

- E. EV shall ensure an open top tank is screened with expanded 3/16" metal screen or a fully closed top, both of which are welded on the top of the tank. Such screening will be painted to blend with the below-grade tank. EV believes this is sufficient strength to protect migratory birds or other wildlife.
- I. EV will ensure all below-grade tanks will be constructed of 3/16" steel, resistant to the tank's contents and to damage from sunlight. Based on water production and road condition for access during the winter months there are a choice of three different sizes which could be used:

CAPACITY DIAMETER HEIGHT 125 bbl 15' 4' 120 bbl 12' 6' 100 bbl 12' 5'

This tank will contain liquids and should prevent contamination of fresh water to protect the public health and environment.

The below-grade system will include a excavated area for the tanks which will be dependent upon the size of the tank used:

```
18' x 18' x 4' High Square excavated area
```

18' Diameter x 4' High Circular excavated area

18' Diameter x 5' High Circular excavated area

The particular area and well conditions will determine which design best for that particular well. EV will ensure that there will be room to walk around the tank inside_the_containment_area_which_will_better_enable_our_field_personnel_to_inspect_for_damage_to_liners_or_incidental_leaks.—Please_refer_to_tank_diagram_under_Exhibit 2.2 of this section for details.

All excavated areas will be reinforced with metal walls to prevent collapse. There will be sufficient open area on all sides of the tank to witness any incidental release that may occur. Please refer to tank diagram under Appendix 8.

EV will ensure the base of any excavated area containing a below-grade tank will be level and free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom.

EV will ensure that any geomembrane liner used shall consist of 30-mil flexible PVC or 60-mil HDPE liner or equivalent liner material. The liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salt and acidic and alkaline solutions and shall be resistant to ultraviolet light. The liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec The liner shall be compatible with EPA SW-846 method 9090A. EV will install the liner in such a manner as to divert any possible leak for visual inspection. EV will demonstrate to the OCD that the liner complies with the specifications within Subparagraph (a) of Paragraph (4) of Section I of 19.156.17.11 NMAC and obtain approval from the division prior to the installation of the new design.

EV is requesting administrative approval to use an equivalent liner. The "Dura-Skirm J45 BB" is a 45-mil reinforced liner which we feels offers the same or better protection as the required 60-mil liner as indicated above. Please refer to Exhibit 2.3 of this Section for the specification sheets for this liner.

EV will ensure the fluid levels of tanks will be monitored by automatic high level alarms at 24" from the top and shut-off devise at 10 1/2 inches from the top of the tank. The tanks will be also equipped with a manual shut-off valve in the event it is needed. Please see design specification sheet of this system in this section.

The majority of our below-grade tanks are within the berm around our tank battery and as so are protected from run-on water. Those outside this berm will be protected with an earthen berm which will extend at least 6" above surface ground level to divert run-on around the tank. The side walls of the excavated area will extend at least 6" above the ground level to divert run-on water around the tank. Any possible leak will be diverted, on the liner, in such a way can be visually inspected. Please refer to Exhibit 2.4 of this Section for details of this automatic shut-off system.

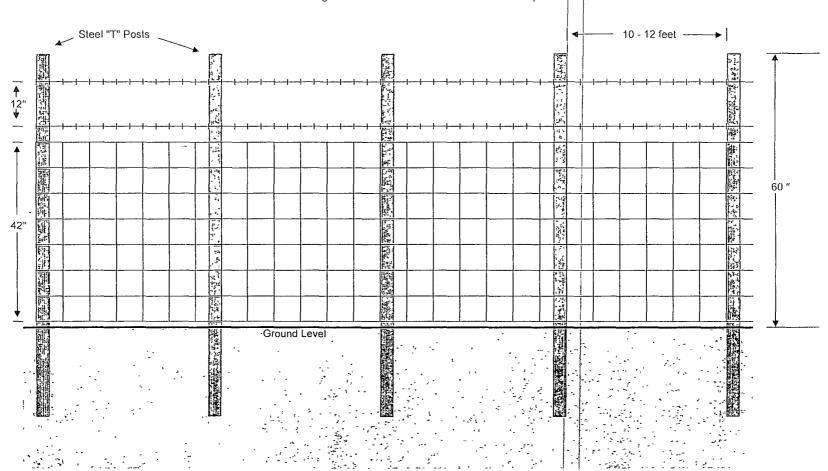
EV tank design will be a single walled tank constructed to ensure that the side walls are open for visual inspection for leaks; the bottom will be elevated six inches above the ground surface and will contain a geomembrane liner, as described above, directly on the ground level of the containment area.

-Onee-a-below-grade-tank-which-was-installed-prior-to-June-16, 2008-does-not-demonstrate integrity, EV shall promptly repair or remove that below-grade tank and close the tank or install a below-grade tank that is in full compliance with Paragraph 1 thru 4 of Section I of 19.15.17.11 NMAC. EV shall comply with the operational requirements of 19.15.17.12 NMAC. Please refer to tank diagram under Appendix 8 for details

Any single walled below-grade tank installed before June 16, 2008 where any portion of the tank sidewall is below the ground surface and not totally visible shall be closed, retrofited or replaced before June 15, 2013. EV will fully comply with Paragraph 1 thru 4 of Section I of 19.15.17.11 NMAC for all retrofitting or replacement of below-grade tanks.

Below-Grade Tank Construction

42" Hogwire Fence with 2 strands barbed-wire on top

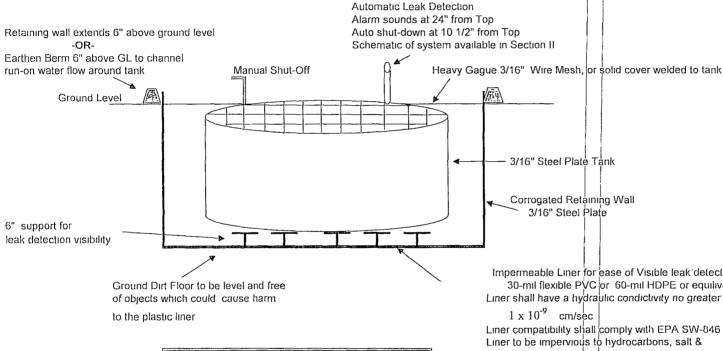




EnerVest Operating, LLC Western Division

Below-Grade Tank System

Gravity Fed - Produced Water



	Below-Grade System Components					
	Tank	Size	Excavation Areas			
I	Capacity 125 Bbl	Dıa x Height				
1	125 Bbl	15' x 4'	18' x 18' x 4' Square			
1	120 Bbl	12' x 6'	18' x 4' Circular			
-	100 Bbl	12' x 5'	18' x 5' Circular			
1						

Tank size dependent upon water production & road conditions Excavation Area size dependent upon tank size

Impermeable Liner for ease of Visible leak detection 30-mil flexible PVC or 60-mil HDPE or equilivant Liner Liner shall have a hydraulic condictivity no greater than

Liner compatibility shall comply with EPA SW-846 method 9090A Liner to be impervious to hydrocarbons, salt &

acidic and alkiline solutions

Any liner installation will be done in such a way as to easily detect any possible leak

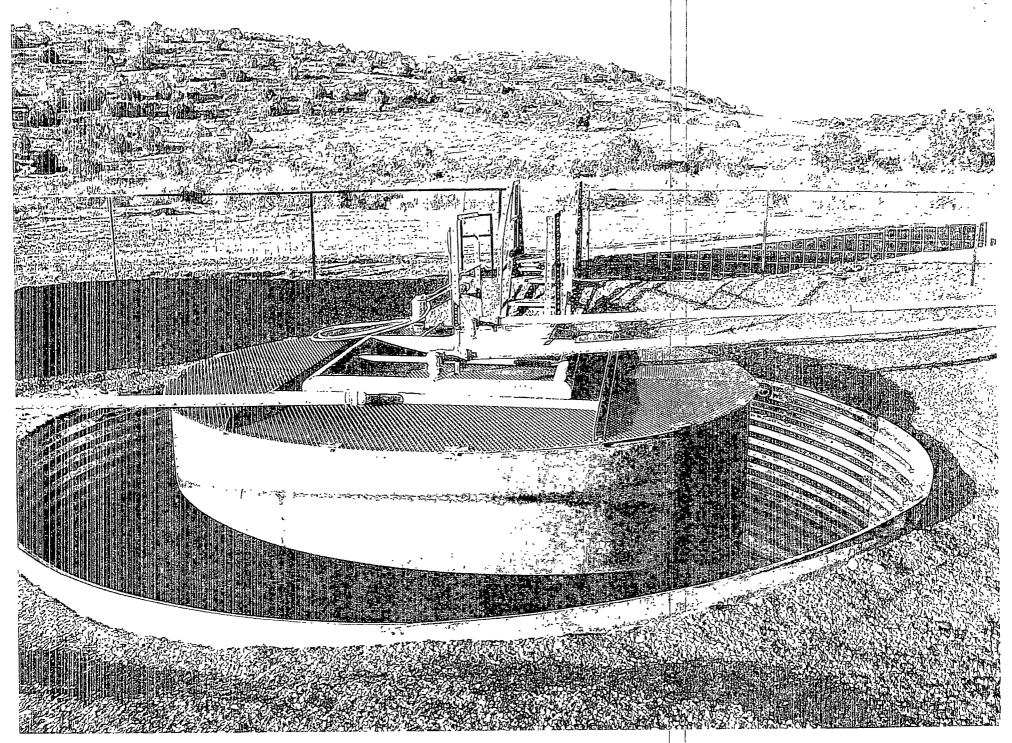


Exhibit 2.2 pg 2

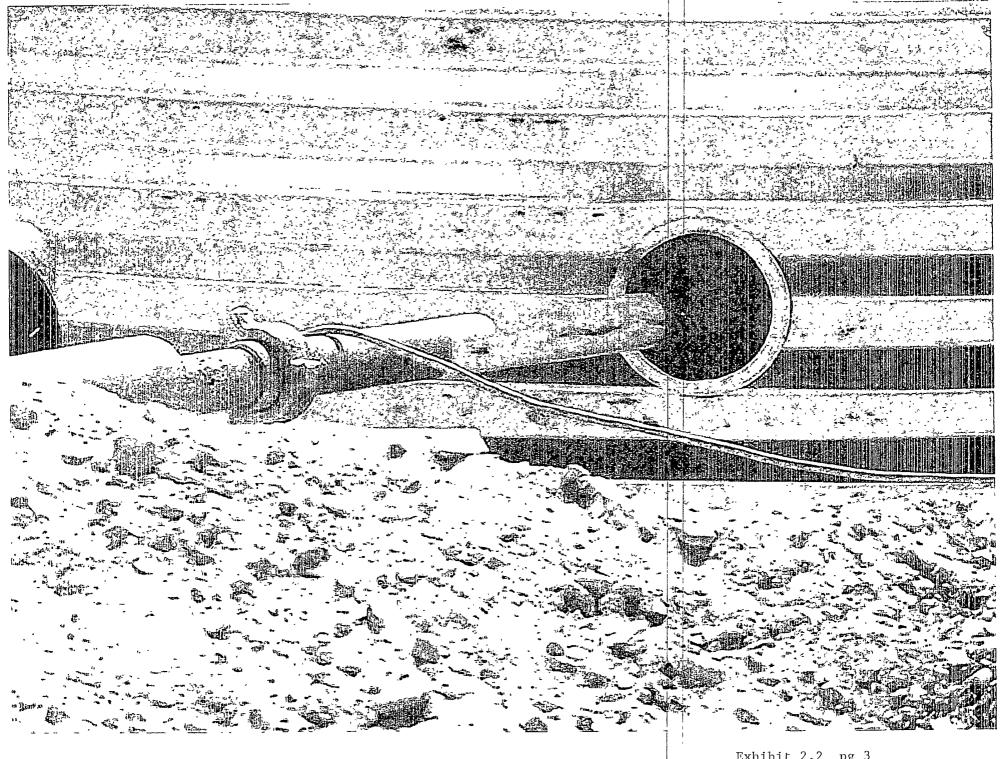
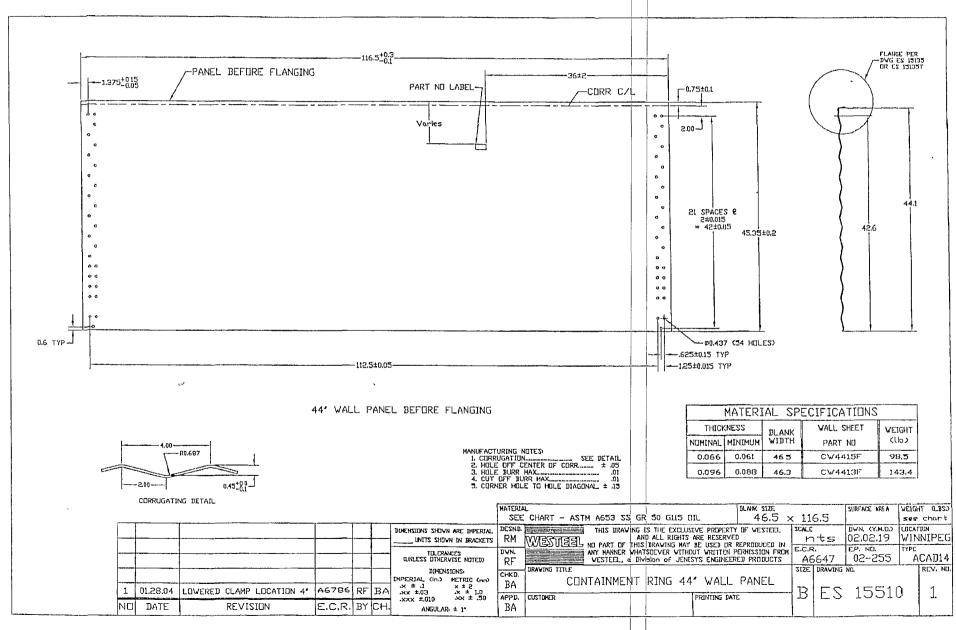
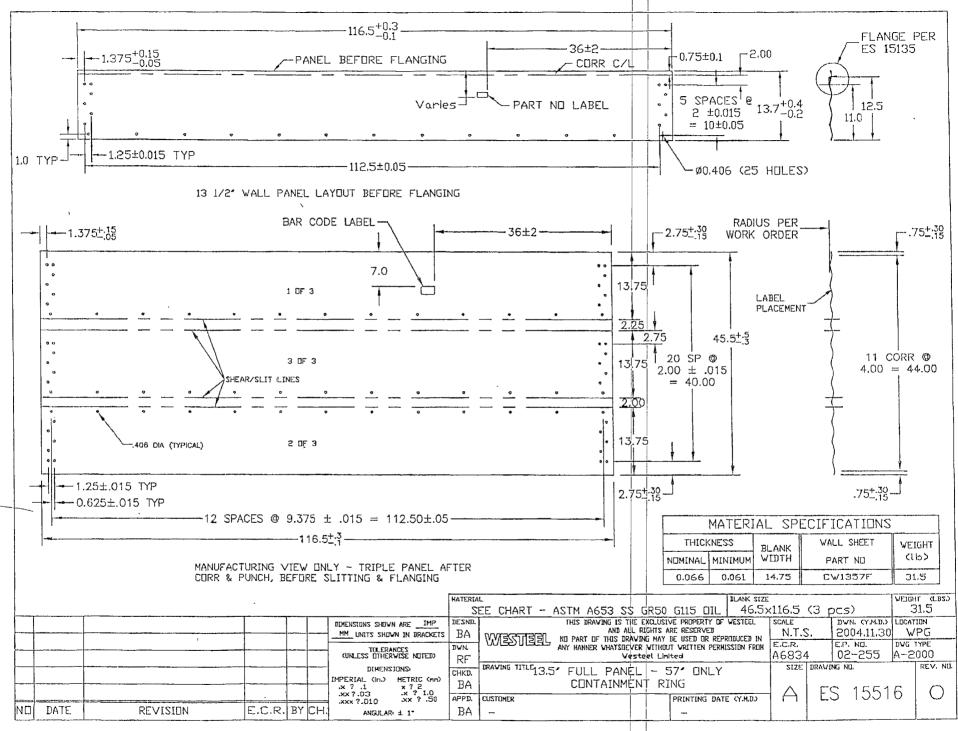
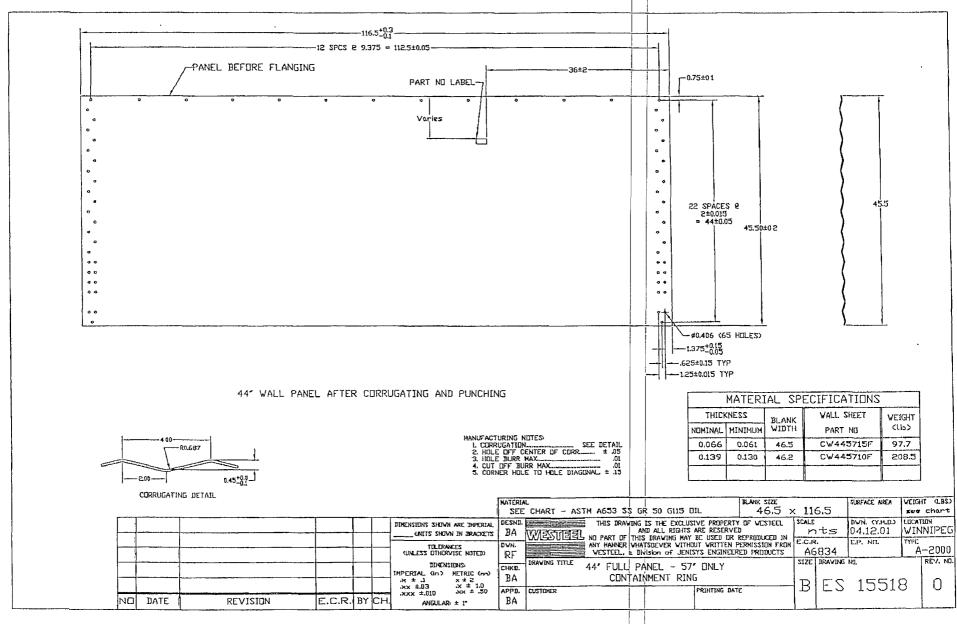
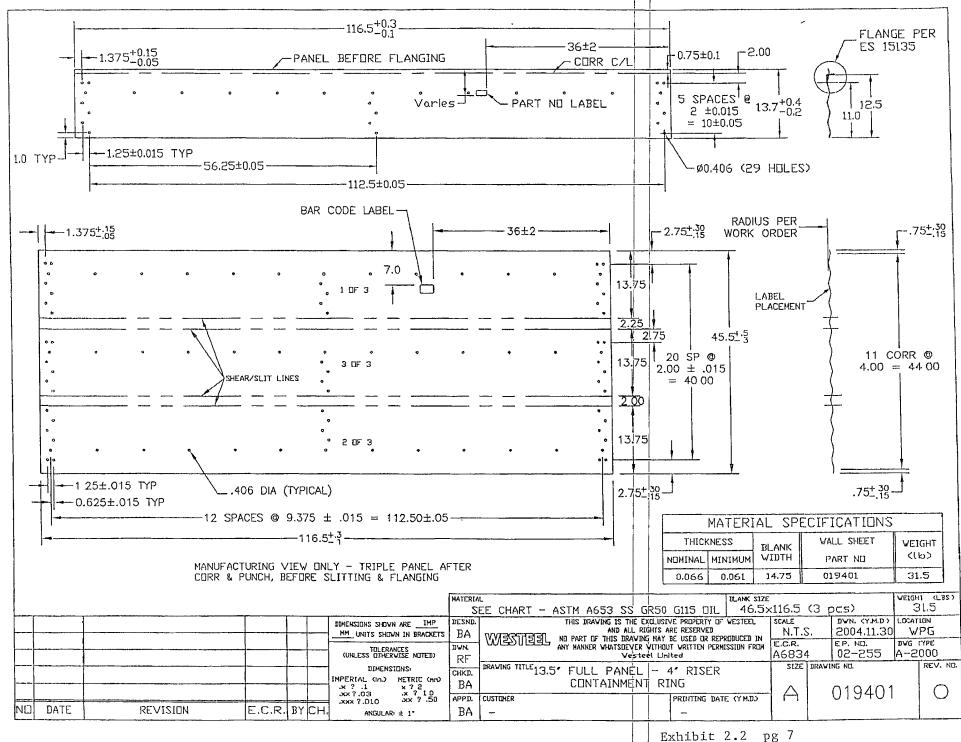


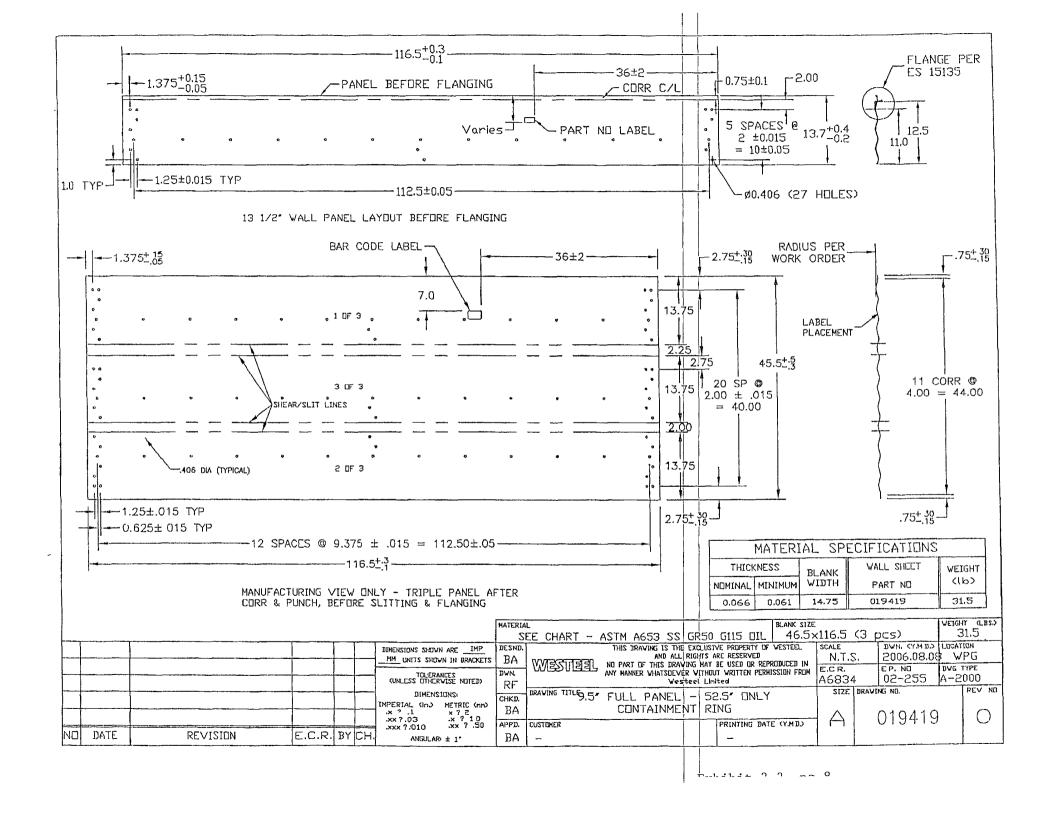
Exhibit 2.2 pg 3

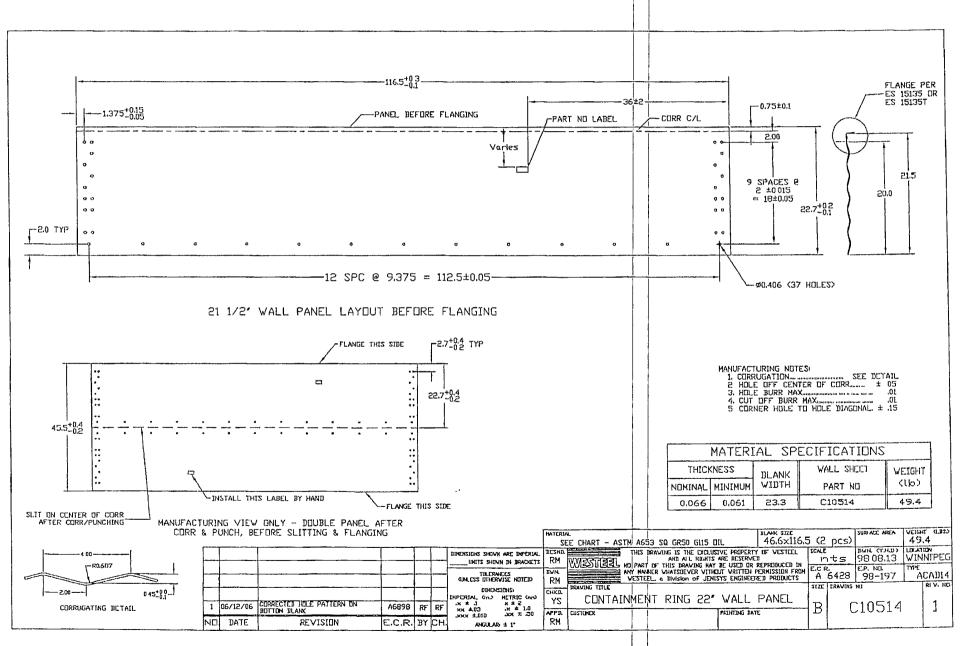


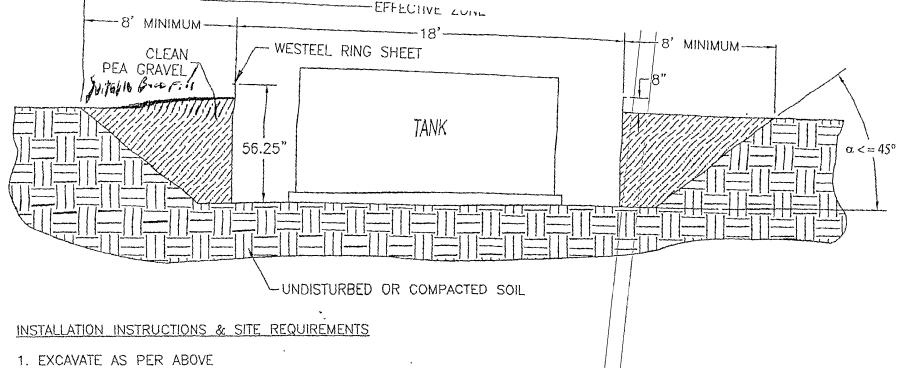












- 2. FOR BEST RESULTS, BACKFILL WITH CLEAN PEA GRAVEL (OR EQUIVALENT FREE FLOWING MATERIAL) EVENLY AROUND THE STRUCTURE, TAKING CARE NOT TO FILL IN ANY ONE AREA VERY HIGH RELATIVE TO OTHER AREAS, SO AS TO MAINTAIN THE STRUCTURE AS ROUND. WORKING AROUND THE STRUCTURE IN APPROXIMATELY 6" LIFTS IS RECOMMENDED. (NOTE: ALTERNATIVE MATERIALS CAN BE USED BUT CARE MUST BE TAKEN TO INSURE THAT THE EXTERNAL PRESSURES ACTING ON THE STRUCTURE REMAIN UNIFORM. IF NATIVE SOIL IS USED AS A BACKFILL MATERIAL, IT SHOULD BE UNIFORM IN CONSISTENCY, AND BE FREE OF LARGE ROCKS OR UNBROKEN CLUMPS, WHICH COULD RESULT IN UNEVEN LOADING).
- 3. THE COMPLETED STRUCTURE SHOULD EXTEND APPROXIMATELY 8" ABOVE GRADE
- 4. TO INSURE STRUCTURAL INTEGRITY, UNEVEN EXTERNAL WALL PRESSURE IS TO BE AVOIDED. NO VEHICLES OR OTHER SOURCES OF POINT LOADING SHOULD BE PERMITTED WITHIN THE EFFECTIVE ZONE (AS ILLUSTRATED).
- 5. WESTEEL IS NOT LIABLE FOR ANY DAMAGES OR INJURIES RESULTING FROM ANY FAILURE DUE TO IMPROPER INSTALLATION, IMPROPER SITE CONDITIONS, OR INADEQUATE MAINTENANCE OF THE SITE.

NOTE: THIS SYSTEM IS NOT DESIGNED FOR THE SECONDARY CONTAINMENT OF LIQUIDS, RATHER, TO ALLOW FOR INSPECTION OF THE TANK.

Exhibit 2.2 pg 10

PRODUCT DESCRIPTION

DURA-SKRIM J30, J36 and **J45** are Linear Low Density Polyethylene geomembranes reinforced with a heavy encapsulated 1300 Denier polyester reinforcement. In addition to excellent dimensional stability the tri-directional reinforcement provides exceptional tear and tensile strength.

DURA*SKRIM J-Series membranes are formulated with thermal and UV stabilizers to assure a long service life. Custom colors are available-based-on-minimum-volume-requirements.

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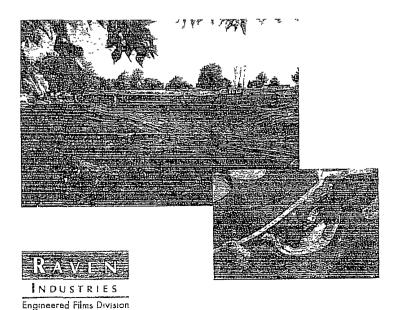
PRODUCT USE

DURA-SKRIM J30, J36 and **J45** are used in applications that require exceptional outdoor life and demand high tear strength and resistance to thermal expansion.

DURA*SKRIM J30, J36 and **J45** are manufactured from a very chemical-resistant, Linear Low Density Polyethylene with excellent cold crack performance

SIZE & PACKAGING

DURA+SKRIM J30, J36 and **J45** are available in a variety of widths and lengths to meet the project requirements. Large diameter mill rolls are available to assure an efficient seaming process. Factory welded panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time saving installation.



COMMON APPLICATIONS

- Waste Lagoon Liners
- Floating Covers
- O Daily Landfill Covers
- Modular Tank Liners
- o Tunnel Liners
- Remediation lines
- e Earthen Liners
- e Interior Landfill Covers
- Remediation Covers
- O Landiill Cales
- CEROSION CONTRO COVERS
- O Reference
- Canal Liners
- Disposal Pit-line
- cawater containment cones
- C Heap Leadin Lines





PROPERTIES	anesi Menhop	DURASKI	TIME MEDITION	DURASK	IIM IKIGERE	in up Acsid	
		Mın. Roll Avərages	Typica! Roll Averages	Min Roil Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
A ppearance		Black	/Black	Black	/Black	Black	/Biack
THICKNESS, NOMINAL	ASTM D5199	27 mil	30 mil	32 mil	36 mıl	40 mil	45 mil
₩ ⋿IGHT lbs/MSF (oz/yd)	ASTM D5261	126 lbs (18 14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24,19)	189 lbs (27.21)	210 lbs (30.24)
CONSTRUCTION		**Extrusi	on laminated v	with encapsula	ted tri-directio	nal scrim reinfo	prcement
PLY ADHESION	ASTM-D413	16-lbs	20-lbs	19.lbs	27_lbs	25_lbs	33 lbs
1" Tensile Strength	ASTM D7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113-lbf-M.D 87 lbf DD	110-lbf-MD- 84 lbf DD	-138-lbf-MD- 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Schim Break)	ASTM D7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31 DD	20 MD 20 DD	36 MD 36 DD
TONGUE TEAR STRENGTH	ASTM D5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	114 lbf MD 107 lbf DD	100 lbf MD 100 lbf DD	125 lbf MD 127 lbf DD
GRAB TENSILE	ASTM D7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	295 lbf MD 294 lbf DD	220 lbf MD 220 lbf DD	341 lbf MD 337 lbf DD
TRAPEZOID TEAR	ASTM D4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbr DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 ibf MD 191 lbf DD
*DIMENSIONAL STABILITY	ASTM D1204	<1	<0.5	<1:	<0.5	<1	<0.5
PUNCTURE RESISTANCE	ASTM D4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
MAXIMUM USE TEMPERATURE		180°F	180°F	180°F	180°F	180°F	180°F
Minimum Use Temperature		-70°F	-70°F	-70°F	-70°F	-70°F	-70°F

MD = Machine Direction
DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

*Dimensional Stability Maximum Value

**DURA*SKRIM J30BB, J36BB and J45BB are a four layer reinforced laminate. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications

DURA+SKRIM J30BB J36BB and J45BB are reinforced with a 1300 denier tri-directional scrim reinforcement.

Note: To the pest of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. NO WARRANTIES ARE MADE AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all habitity for resulting loss or damage.



RAVEN INDUSTRIES, INC. / Engineered Films Division P.O. Box 5107 • Sioux Falls, SD 57117-5107 Ph: (605) 335-0174 • Fx: (605) 331-0333

Toll Free: 800-635-3456



www.ravengeo.com

6/09 EFD 1126

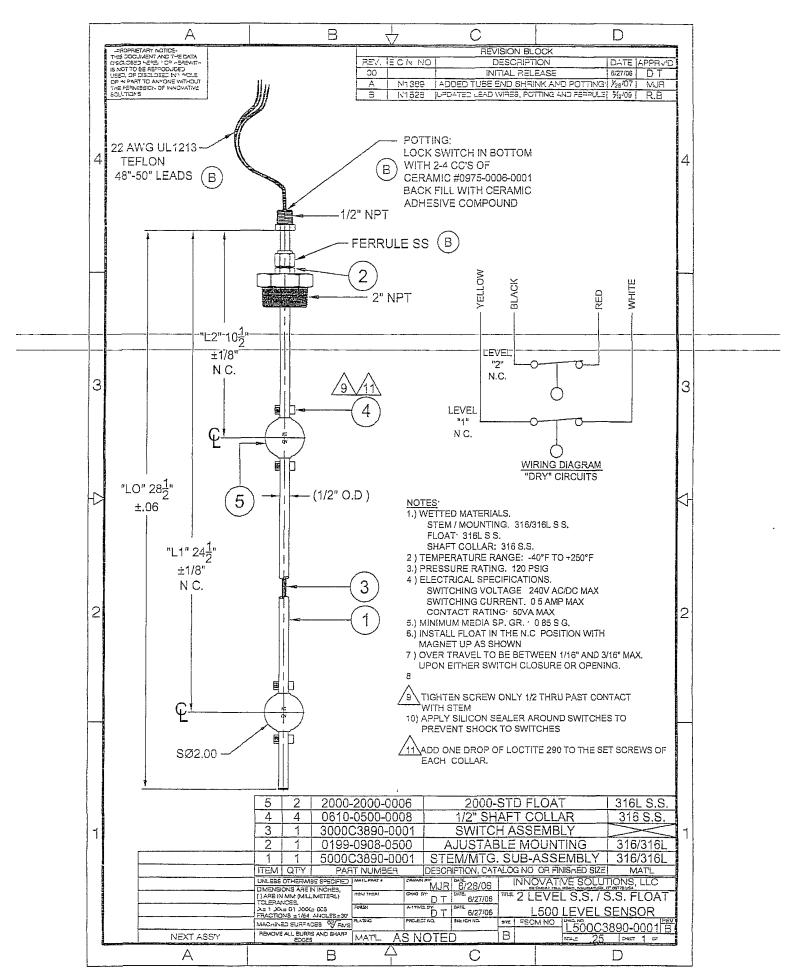


Exhibit 2.4

Section III

Operation & Maintenance Plan

EnerVest Operating, LLC (EV)

BELOW-GRADE TANK OPERATIONAL REQUIREMENTS

Rule 19.15.17.12

A. EV will operate and maintain Below-Grade Tanks to insure the integrity of the below-grade tank, liner, liner system or berms to prevent contamination of fresh water and protect public health and the environment.

EV will not discharge or store any hazardous waste material of any kind in any Below-Grade Tank.

Any penetration of the below-grade below the liquid's surface that may occur, EV shall remove all liquid above the damage or leak line within 48 hours of the discovery. EV shall notify the appropriate district office within 48 hours of the discovery and repair the damage or replace the liner or below-grade tank.

EV will insure the metal retaining walls of the below-grade system around each tank will extend at least 6" above ground level or be equipped with a 6" earthen berm in an effort to divert run-on water around the below-grade system.

D. EV will insure that a below-grade tank constructed and installed prior to June 16, 2008 that does not meet the requirements of 19.15.17.11 NMAC and does not demonstrate integrity or that the below-grade tank develops any conditions as identified in 19.15.17.12 NMAC shall close the existing below-grade tank pursuant to the closure requirements of 19.15.17.13 NMAC and install a below-grade tank that is in full compliance with our approved design. Please see below-grade system diagram in Appendix 8 for details.

EV will insure all Below-grade tanks will be equipped with automatic high-level alarm which sounds at 24" and than shut off devise to insure that flow will shut off at the freeboard height of 10 1/2 inches.

The majority of our below-grade tanks are within the berm around our tank battery and as so are protected from run-on water. Those outside this berm will be protected with an earthen berm which will extend at least 6" above surface ground level to divert run-on around the tank.

EV will remove any visible or measurable layer of oil from the fluid surface of a below-grade tank.

With any below-grade tank, installed before June 16, 2008, that is retrofitted or replaced with another tank, EV will insure that the soil beneath the removed soil is inspected for wet, discolored, or any other evidence of release, with photographic evidence. EV will report the results of all testing to the division on form C-141 and demonstrate to the division whether the evidence of contamination indicates at an imminent threat to fresh water, public health, safety of the environmental exists. If the division determines that the contamination does not pose an imminent threat to fresh water, public health, safety or the environment, EV shall complete the retrofit or the replacement of the below-grade tank as per our approved design program as indicated in Appendix 8. If EV or the division determines that the contamination poses an imminent threat to fresh water, public health, safety or the environment, then EV shall close the existing below-grade tank pursuant to the closure requirements of 19.17.15.13 NMAC prior-to-initiating-the-retrofit-or-replacement.

Tebre 14 36 SEPHOSO							
TESTED PROPERTY	TEST METHOD	FREQUENCY	The second of th	1.1.	13 (47) 45 - 721	VALUE. 80 mil	Antition of the state of
Thickness, (minimum average) mil (mm) Lowest individual reading (-10%)	ASTM D 5199	every roll	30 (0.75) 27 (0 69)	40 (1.00) 36 (0 91)	60 (1 50) 54 (1 40)	80 (2.00) 72 (1.80)	100 (2 50) 90 (2.30)
Density, g/cm ³	ASTM D 1505	200,000 lb	0.94	0.94	0 94	0 94	0.94
Tensile Properties (each direction) Strength at Break, lb/in-width (N/mm) Strength at Yield, lb/in-width (N/mm) Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbell, 2 ipm G L. 2 0 in (51 mm) G L. 1 3 in (33 mm)	20,000 lb	120 (21) 66 (11) 700 13	152 (26) 84 (14) 700 13	243 (42) 132 (23) 700 13	327 (57) 177 (30) 700 13	410 (71) 212 (37) 700 13
Tear Resistance, lb (N)	ASTM D 1004	45,000 lb	21 (93)	28 (124)	42 (186)	58 (257)	73 (324)
Puncture Resistance, lb (N)	ASTM D 4833	45,000 lb	65-(289)	-85-(378)-	-125-(556)	-160-(7-11)	195_(867.)_
Carbon Black Content, % (Range)	ASTM D 1 603*/421 8	20,000 lb	2.0 - 3.0	_2:0 <u>-</u> 3:0-	-2-0 3-0-	-2:03:0-	2.03.0-
Carbon Black Dispersion	ASTM D 5596	45,000 lb	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾
Notched Constant Tensile Load, hr	ASTM D 5397, Appendix	200,000 lb	1000	1000	1000	1000	1000
Oxidative Induction Time, min	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lb	>140	>140	>140	>140	>140
	TYP	CAL ROLL DIN	ENSIONS	# S			
Roll Length ⁽²⁾ , ft (m)			1,120 (341)	870 (265)	560 (171)	430 (131)	3 <u>4</u> 0 (104)
Roll Width ⁽²⁾ , ft (m)			22.5 (6.9)	22.5 (6.9)		22.5 (6 9)	22.5 (6 9)
Roll Area, ft² (m²)			25,200 (2,341)	19,575 ° (1,819) -	12,600 (1,171)	9,675 (899)	7,650 (711)

- * (1)Dispersion only applies to near spherical agglomerates 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category
- $^{\circ}$ Roll lengths and widths have a tolerance of $\pm\,1\%$
- GSE HD is available in rolls weighing approximately 3,900 lb (1,769 kg)
 All GSE geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB or <-77° C when tested according to ASTM D 746
- Modified

O.R.E. SYSTEMS P.O. Box 3677 Farmington, NM: 87499 (505) 327-2161

Section IV

Closure Plan

EnerVest Operating, LLC (EV)

BELOW-GRADE TANK CLOSURE REQUIREMENTS

Rule 19.15.17.13

Before June 15, 2013, EV shall close, retrofit, or replace an existing below-grade tank that has not demonstrated integrity.

EV shall close a below-grade tank within the time periods provided in 19.15 17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

A. EV shall close an existing below-grade tank-that-does-not-meet the requirements of Subsection I, paragraphs (1) through (4), of 19.15.17.11 NMAC if not retrofitted to comply with said requirements prior to any sale or change of operator to 19.15.9.9 NMAC.

Any below-grade tank installed prior to June 16, 2008 that is single walled and where any portion of the tank sidewall is below the ground surface and not visible shall equip or retrofit the below-grade tank to comply with paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, or close it, within 5 years after June 16, 2008.

Within 60 days of cessation of the permitted below-grade tanks operation or as required by Subsection B of 19.15.17.17 NMAC, EV shall close the below-grade tank in accordance with a closure plan that the appropriate division district office approves.

J. Prior to implementing any closure operations EV shall research county tax records to determine the name and address of the surface owner of the properties involved. EV shall notify this surface owner via Certified U.S. Mail, return receipt requested, of their intent to close said below-grade tank.

Upon determination, EV will notify the appropriate district office prior to any closure operations beginning. Such notification shall be at least 72 hours, via U.S. Mail, prior to beginning work but not more than one week prior to beginning work. Such notice shall contain at a minimum the following:

Operators Name Unit letter, Section, Township, & Range of well Well name and well number API Number of well

.All free standing liquids and sludge will be removed at the start of the below-Ē. grade tank closure process from the below-grade tank and disposed of in one of the below division-approved facility as indicated below:

TNT Land Farm

Permit # NM-01-0008

Liquids & Sludge

Environtech Land Farm

Permit # NM-01-0011 Solids

AguaMoss

Permit # 247130

Liquids

EV will obtain prior approval from the division to dispose, recycle, reuse, or reclaim the below-grade tanks and provide documentation of the final disposition of the below-grade tank in the closure report.

Existing liners that are removed as a result of closure will be wiped cleaned and disposed-of-at-a-solid-waste-facility listed below in compliance with Subparagraph (M) of Paragraph (I) of Subsection C 19.15.35-8-NMAC...

San Juan Regional Landfill

Permit # SWM 052426 or Special Waster Permit # SWM052433 "sp"

If there is any on-site equipment associated with a below0grade tank, EV shall remove the equipment, unless the equipment is required for some other purpose.

Upon removal of the below-grade tank, EV will take, at a minimum, a five point composite sample from where the tank was sitting. EV shall collect individual grab samples will be taken from any area that is wet, discolored or showing other evidence of a release. All samples will be analyzed for the following:

Components	Test Method	Limits (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.1	250 or background,
		whichever is greater

EV will insure that the results of all sampling shall be reported to the division on approved form C-141. EV understands that the division may require additional delineation upon review of the results.

If sampling demonstrates that concentrations specified above have NOT been exceeded, or that a release has NOT occurred, EV will backfill the excavation with compacted, non-waste containing, earthen material, construct a division prescribed soil cover, and recontour and re-vegetate the site. The division prescribed soil cover, recontouring, and re-vegetation shall comply with 19.15.17.13.

If EV or the division determines that a release has occurred, EV shall fully comply with 19.15.29 NMAC and 19.15.30 NMAC as appropriate.

G. Once EV has closed a below-grade tank, we shall reclaim the site to a safe and stable condition that blends with the surrounding undisturbed area. When possible, EV will restore the impacted surface area to the condition that existed prior to oil and gas operations by the placement of soil cover.

If the closed area is within the confines of the pad location EV will blend the site to match the pad location as much as possible. Such activities shall prevent erosion, protect fresh water, human health and the environment. EV will obtain written agreement from the surface owner for any alternate re-vegetation proposals and submit to the division for final approval.

- H. The soil cover design will be consistent with the requirements of 19.15.17.13(H)(1) and (3). The soil cover will consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and prevent ponding of water and erosion of the cover material.
- I. EV will seed the disturbed areas the first growing season after closing the below grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

EV shall notify the division when it has seeded or planted and when it successfully achieves re-vegetation by U.S. Mail.

K. Within 60 days of completion of closure operations, EV will file Form C-144, with attachments, outlining the detailed operations of the closing operations. Such attachments shall include, but not limited to, proof of surface owner and division notifications, confirmation of sampling analysis, disposal facility names and permit numbers, soil backfilling and cover installation, re-vegetation application rates and seeding techniques, and photo documentations.

Section V

Hydrogeology Report

Regional Hydrogeology Report

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central San Juan Basin. It overlies the Nacimiento Formation in the area generally sourth of the Colorado-New Mexico state line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east, ranging from 200 feet in the west and south to almost 2,700 feet in the center of the structural basin.

Ground water is associated with alluvial and fluvial sandstone aquifers. Therefore the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the results of original depositional extend plus any post-depositional modifications, namely erosion and structural deformation.

Transmissivity data for the San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983. table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily absorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico; Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

Site Specific Hydro Geologic Analysis

Jicarilla C #5 API 30-039-08160

The above referenced well is located at UL I, Sec 24, 26N, 05W at an elevation of 6603. Surface casing was set to a depth of 328' or at a depth of 6275'.

According to the Office of State Engineer, one water well drilled was CR 01543 about 4 miles SE of our location. Drilled to 120 feet at an unknown elevation, it shows water encountered at 70 feet.

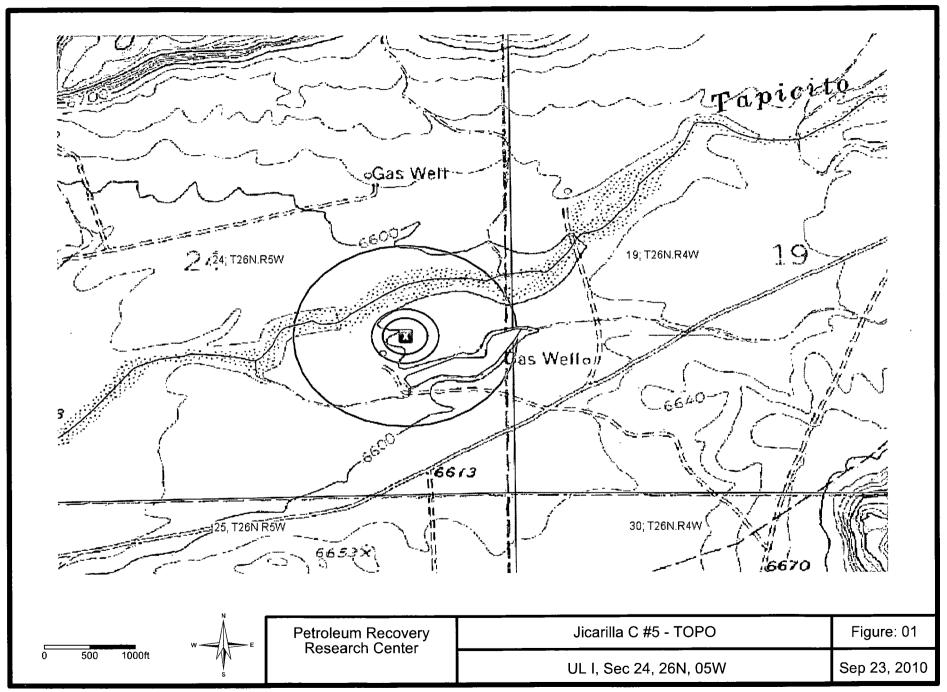
According to the Office of State Engineer, another water well drilled was CR 01909 about 4 miles SE of our location. Drilled to 100 feet at an unknown elevation, it shows water encountered at 60 feet.

According to the Office of State Engineer, another water well drilled was CR 03087 about 4 miles SE of our location. Drilled to 141 feet at an unknown elevation, it shows water encountered at 72 feet.

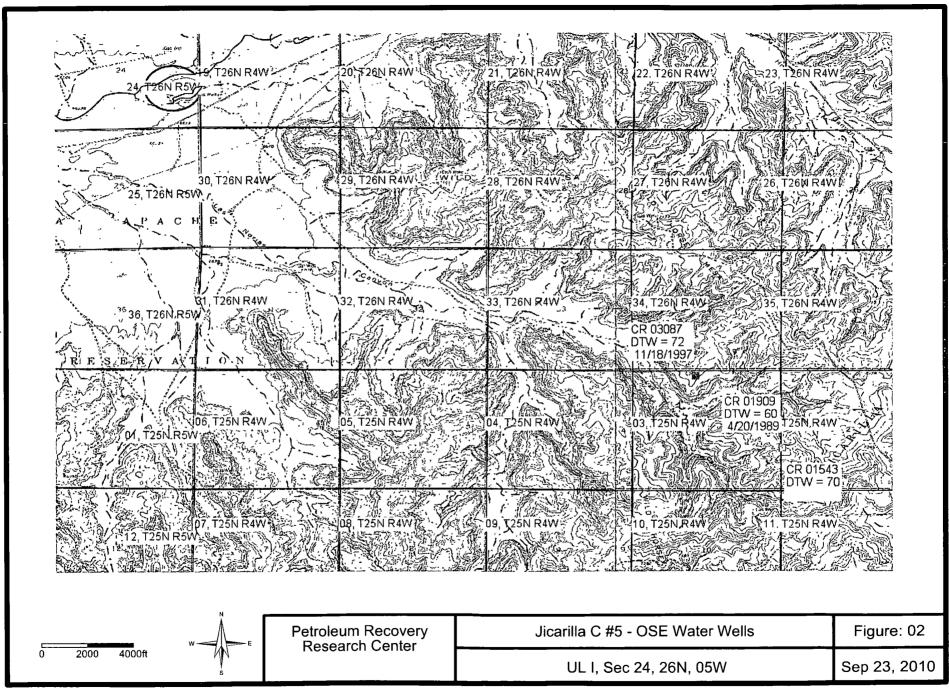
In 1958, the Jicarilla #4G (30-039-06372) was drilled about 300 feet South of our location. It was at an elevation of 6612 with no indication of water being encountered. Surface casing was set at 129 feet which would be at 6483. This would be 129 feet below our well. We believe that the sand and limestone will prevent any migration of fluids.

The groundwater at our well site would be greater than 100 feet at a minimum. This should allow ample protection for any groundwater in the area.

U.S. 7.5 Minute TOPO Map



Ground Water Depth





New Mexico Office of the State Engineer Water Right Summary

WR File Number: CR 01543

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres:

Total Diversion:

1984-07-03

Owner: DAVID BOLSINGER

Documents on File

Status

Doc File/Act 1 2 3 Transaction Desc. From/To Acres Diversion Consumptive

PMT APR CNV CONVERSION CR 01543

---For more infomation on Conversion Transactions, please see Help---

Point of Diversion

(NAD83 UTM in meters)

Pod Number CR 01543 Q Q Q Source 6416 4 SecTws Rng

X Y Other Location Desc

Shallow

300037 4033531

3/19/10 2·16 PM Page 1 of 1 WATER RIGHT SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

χ ,

CR 01543

05/14/1985

300037 4033531

Driller License: COOK, ROBERT R.

Driller Name:

Drill Start Date:

Drill Finish Date:

PCW Rcv Date:

07/31/1984

Plug Date:

Source:

Shallow

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

120 feet

Depth Water:

70 feet



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

Χ

CR 01909

02 25N 15E

300037 4033531

Driller License: COOK, ROBERT R.

Driller Name:

Drill Start Date: 04/20/1989

Drill Finish Date:

04/20/1989

Plug Date:

Shallow

Log File Date:

05/05/1989

PCW Rcv Date:

Depth Well:

Source:

Pump Type: Casing Size: Pipe Discharge Size:

100 feet

Estimated Yield: Depth Water:

60 feet



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

Χ

CR 03087

299120 4034533

Driller License: MAHONEY, J.H. CONSTRUCTION

Driller Name: MAHONEY, JOHN H.

Drill Start Date: 11/18/1997

Drill Finish Date:

11/18/1997

Plug Date:

Log File Date:

11/26/1997

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Casing Size:

5.00

Depth Well:

141 feet

Depth Water:

Estimated Yield: 20

72 feet

Description Water Bearing Stratifications: Top Bottom

120

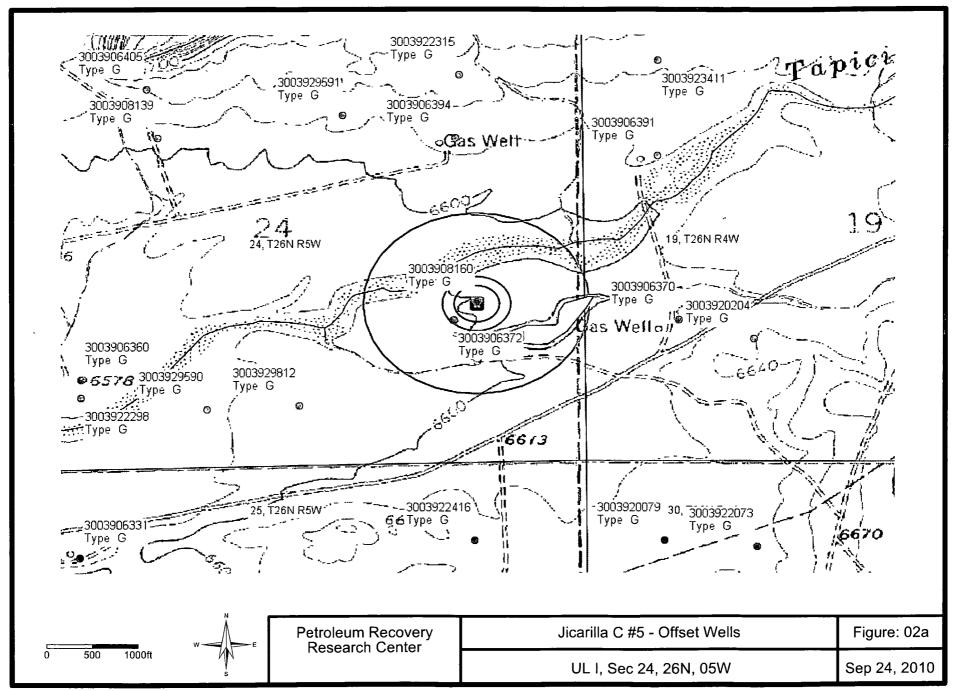
Sandstone/Gravel/Conglomerate

130

Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

> 80 120



NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

(Form C-104) Revised 7/1/57

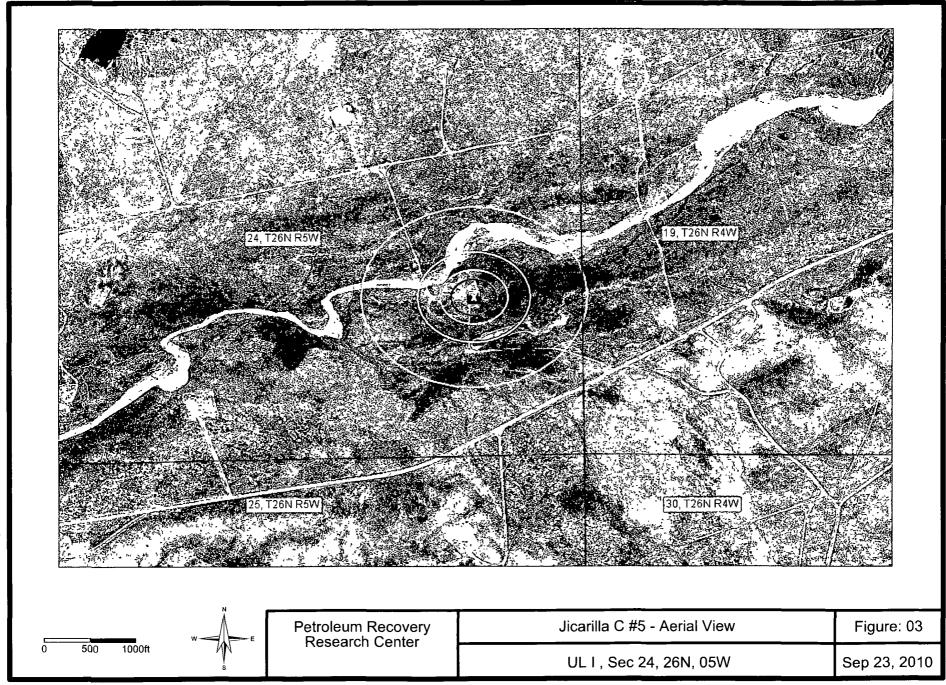
REQUEST FOR (CAS) - (GAS) ALLOWABLE

New Well

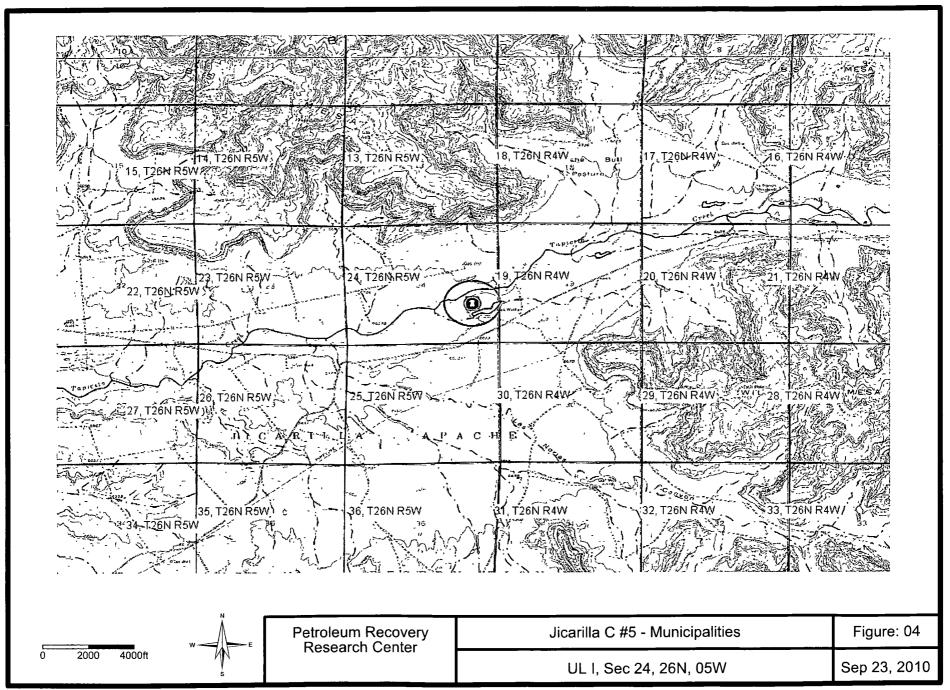
This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7.00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

			20 2		Farmington,	New Mexico	8-5-58
				6372	(Place)		(Date)
				NG AN ALLOWABLE			
PAS	Comp	LIURAL	GAS C	OMPANY JICA	Well No	4-0 , in	NE 1/4 SE 1/4,
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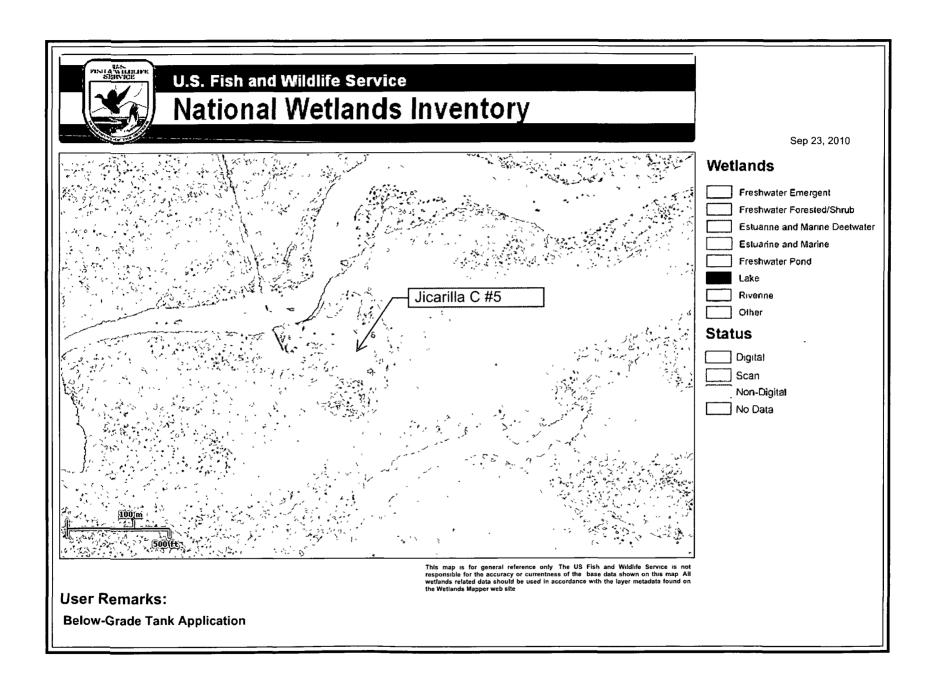
Aerial Photo



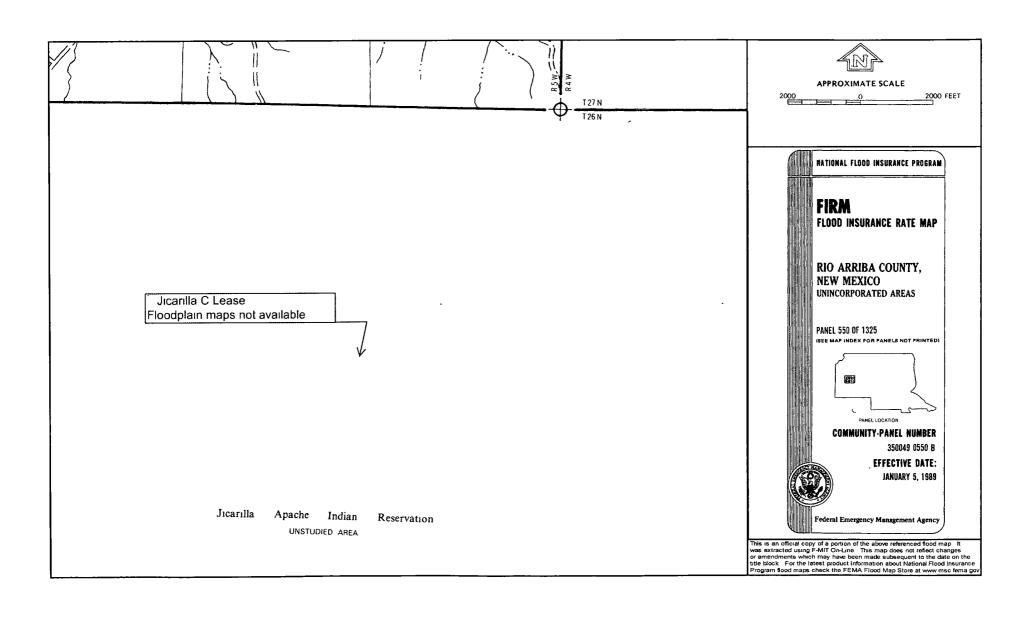
Municipality Boundary Map



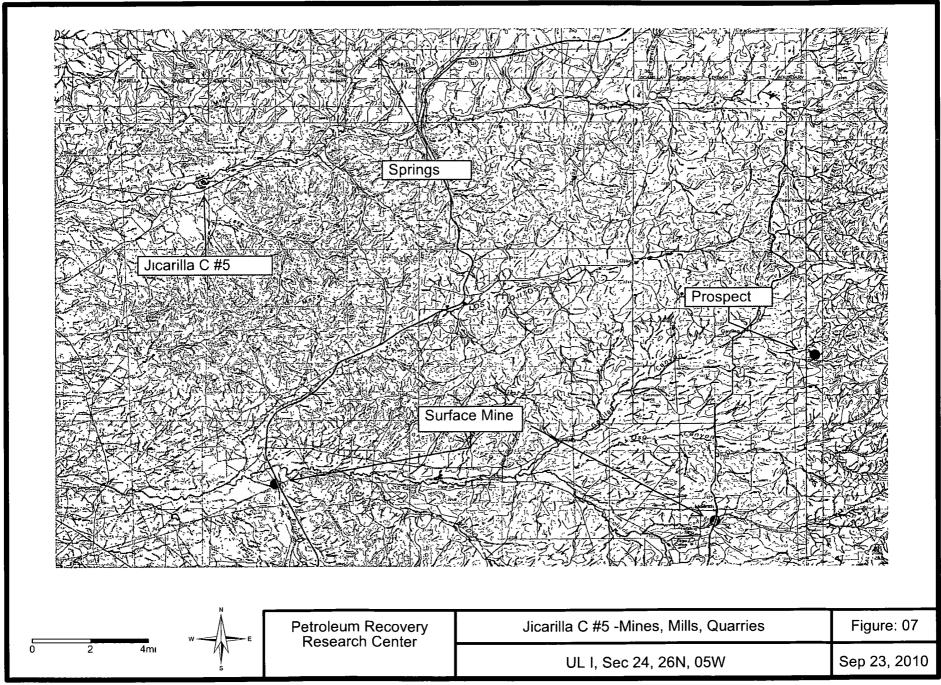
U.S. Fish & Wildlife Wetland Identification Map



FEMA 100-year Floodplain Map



Mines, Mills, & Quarires Map



C-203 Location Plat Site Physical Inspection Sheet

ENERVEST OPERATING LLC

Below Grade Tank Observed Sitting Requirements

Lease Name & Well Number	C-E PIT # 1 DERMIT
API No.	30-039-08160
Observed by	LEE GARDNER.
Date Observed	9/21/10
Latitud	· <u>N 36,470028</u>
Longitud	e W 107. 303993
MEASURED FROM THE BELOW-GRADE TANK:	Yes No If not within limits, explain:
Continiously flowing water course > 300 ft.	
Significant Watercourse, lakebed, sınkhole or playa lake > 200 feet	*
Permanent Residence > 200 feet	*
School > 200 feet	<u>x</u>
Hospital > 200'	4
Institution or Church > 200'	<u>X</u>
Private, domestic fresh water well or spring > 500 feet	<u> </u>
Any other fresh water well or spring > 1000 feet	X
Within incorporated municipal boundary of defined municipal fresh water field	
Wetland area > 500 feet	<u>X</u>
Overlying a subsurface mine	X,

Distance to watercourse or dry wash should be to nearest edge

Please include distance & direction to all waterwells and/or wetland areas

Each Below-Grade Tank needing to be permitted, needs a visual inspection of the above Criteria as per Rule 19.15.17.10

Porm	9-331
(May	1968)

UNITED STATES

SUBMIT IN TRIPLICATES

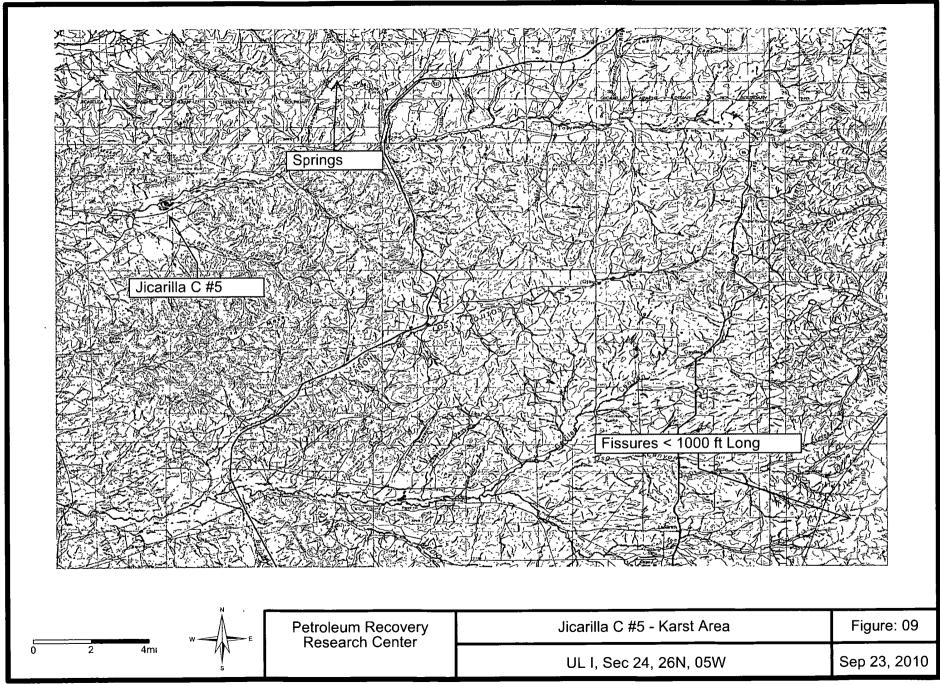
Form approved. Budget Bureau No. 42-R1424.

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ADDRESS OF OPERATOR					9.	WELL NO.		
P. 0. Box	1714, Duran	go, Color	ado			#5 : 3	_ <u> </u>	
See also space 17 below.)	rt location clearly an	d in accordance	e with any 8	State requirements.*	10.	PIELD AND E	POOL, OR WILD	CAT
At surface					<u> </u>	Basin Da	akota	
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TEST WATER SHUT-OFF	PULL OR	ALTER CASING		WATER SHUT-OFF	X	TO SEPA	IRING WALL	
FRACTURE TREAT		COMPLETE		FRACTURE TREATME!		3 " " "	BING CASING	
SHOOT OR ACIDIZE	ABANDON			SHOOTING OR ACIDIZ			DONMENT!	
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6 USGS Frmng., 1 Cont., 1 Atlantic, 1 TOC File.

*See Instructions on Reverse Side

Karst Map



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