District 1
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.

1 .		1
Q	_/	- 1
V	σ	`

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,				
below-grade tank, or proposed alternative method				
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request				
Please be advised that approval of this request does not relieve theoperator 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.				
1. Operator: EnerVest Operating, LLC OGRID #: 143199				
API Number: 30-045-27625 OCD Permit Number: Pending				
U/L or Qtr/Qtr A Section 11 Township 31N Range 09W County: San Juan				
Center of Proposed Design: Latitude36.917344 Longitude107.743941 NAD: ☐1927 ☑ 1983				
Surface Owner: 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 mil LLDPE HDPE PVC Other String-Reinforced Volume: bbl Dimensions X Welded Factory Other Volume: bbl Dimensions Subsection H of 19.15.17.11 NMAC				
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other				
Below-grade tank: Subsection I of 19.15.17.11 NMAC PERMIT EXISTING BELOW – GRADE TANK Volume: 120 bbl Type of fluid:Primarily produced water w/ compressor skid precipitation & incidental lubricating oil Tank Construction material: Steel Open-top 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 Visible sidewalls, liner, 6" lift & electronic monitoring Liner type: Thickness 20 mil HDPE PVC Other Definition of 19.15.17.11 NMAC PERMIT EXISTING BELOW – GRADE TANK Visible sidewall precipitation & incidental lubricating oil Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls, liner, 6" lift & electronic monitoring Liner type: Thickness 20 mil HDPE PVC Other PERMIT EXISTING BELOW – GRADE TANK PERMIT EXISTENCE TANK PERMIT EXISTEN				
5. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval				

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,				
☐ Chain link, six feet in height, two strands of barbed wire at top (<i>Required y tocated within 1000 feet of a permanent residence, school, hospital,</i> 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				
The state of the s				
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 consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	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 office for consideration of approval.			
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.				
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. ☐ 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:30-045-28314 or Permit Number:6204
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 Quality Control/Quality 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 Precboard 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 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 ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St Instructions: Please indentify the facility or facilities for the disposal of liquids, dra facilities are required.	eel Tanks or Haul-off Bins Only: (19.15.17.13.D illing fluids and drill cuttings. Use attachment if m	NMAC) nore than two			
	Disposal Facility Permit Number:				
Will any of the proposed closed-loop system operations and associated activities occu ☐ Yes (If yes, please provide the information below) ☐ No	ar on or in areas that will not be used for future servi	ice and operations?			
equired 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					
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the cloprovided below. Requests regarding changes to certain siting criteria may require a considered an exception which must be submitted to the Santa Fe Environmental Bedemonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate distri Bureau office for consideration of approval. Justifi	ict 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 of		☐ Yes ☐ No ☐ NA			
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data of	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 of	obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signilake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ficant watercourse or lakebed, sinkhole, or playa	Yes No			
Within 300 feet from a permanent residence, school, hospital, institution, or church ir - Visual inspection (certification) of the proposed site; Aerial photo; Satellite in		☐ Yes ☐ No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less the watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less the watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well or spring that less than 1000 horizontal feet of any other fresh water well of the 1000 horizontal feet of any other fresh water well on the 1000 horizontal feet of any other fresh w	ring, 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 approval		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 a	nd 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 first a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of S Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of S Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad Protocols and Procedures - based upon the appropriate requirements of 19.15.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of SuDisposal Facility Name and Permit Number (for liquids, drilling fluids and drilling Soil Cover Design - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate Plan - based upon the appropria	rements of 19.15.17.10 NMAC subsection F of 19.15.17.13 NMAC ropriate requirements of 19.15.17.11 NMAC ropriate requirements of 19.15.17.11 NMAC ropriate requirements of 19.15.17.13 NMAC rements of Subsection F of 19.15.17.13 NMAC ropriate requirements of 19.15.17.13 NMAC ropriate ropriate requirements of 19.15.17.13 NMAC ropriate ropriate ropriate requirements of 19.15.17.13 NMAC ropriate ropria	5.17.11 NMAC			

Operator Application Certification: I hereby certify that the information submitted with this application is true,	accurate and complete to the	e best of my knowledge and belief.				
Name (Print):Ronnie L. Young	Title:	Compliance Supervisor				
Signature: Danie ()	Date:	5.19.10				
e-mail address:ryoung@enervest.net						
OCD Approval: Permit Application (including closure plan) Closure	sure Plan (only) OCD	Conditions (see attachment)				
OCD Representative Signature: Bunch Sell Approval Date: 6/16/15						
Title: <u>Fuoirolspec</u>	OCD Permit Numb	per:				
21. 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.						
	☐ Closure Comp	letion Date:				
22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)				
23. Closure Report Regarding Waste Removal Closure For Closed-loop Sy Instructions: Please indentify the facility or facilities for where the liquid two facilities were utilized.						
Disposal Facility Name:	Disposal Facility Pe	rmit Number:				
Disposal Facility Name: Disposal Facility Permit Number:						
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No						
Required for impacted areas which will not be used for future service and o Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	perations ·					
24. Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached.	ing items must be attached	to the closure report. Please indicate, by a check				
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 clo Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	sure)					
On-site Closure Location: Latitude I	Longitude	NAD: 1927 1983				
Operator Closure Certification: I hereby certify that the information and attachments submitted with this clobelief. I also certify that the closure complies with all applicable closure recommendation.	quirements and conditions sp	pecified in the approved closure plan.				
Name (Print):	Title:					
Signature:	Date:					
e-mail address:	Telephone:					

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
```

Most of our below-grade tank systems were installed prior to June 16, 2008 and are 16.5' x 16.5' x 4' square excavated area design. As tanks are retro fitted, this will be changed to one of the above. 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.

Once 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

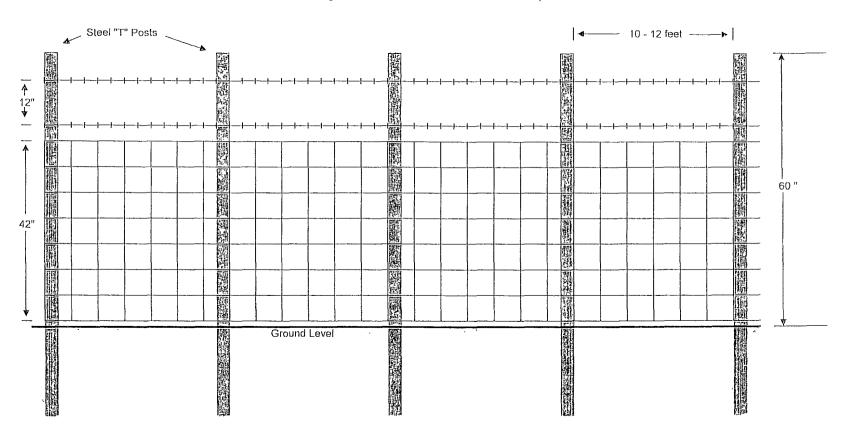
Any single walled below-grade tank installed before June 16, 2008 where any portion of the tank sidewall is below the ground surface and not totally visible shall be closed, retrofited or replaced before June 15, 2013. EV will fully comply with Paragraph 1 thru 4 of Section I of 19.15.17.11 NMAC for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

ENERVEST OPERATING, LLC

Proposed Alternative Fencing

Below-Grade Tank Construction

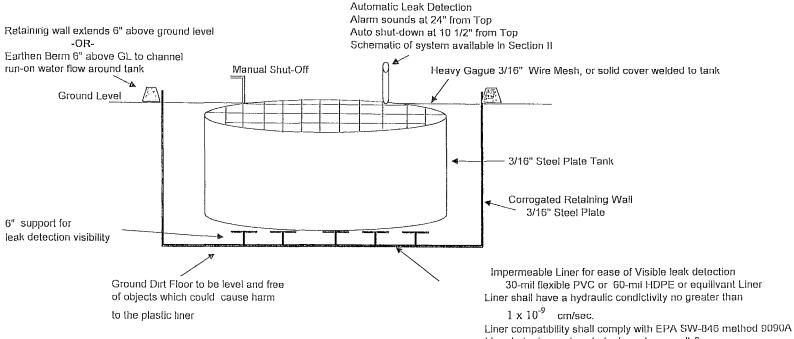
42" Hogwire Fence with 2 strands barbed-wire on top





Below-Grade Tank System

Gravity Fed - Produced Water



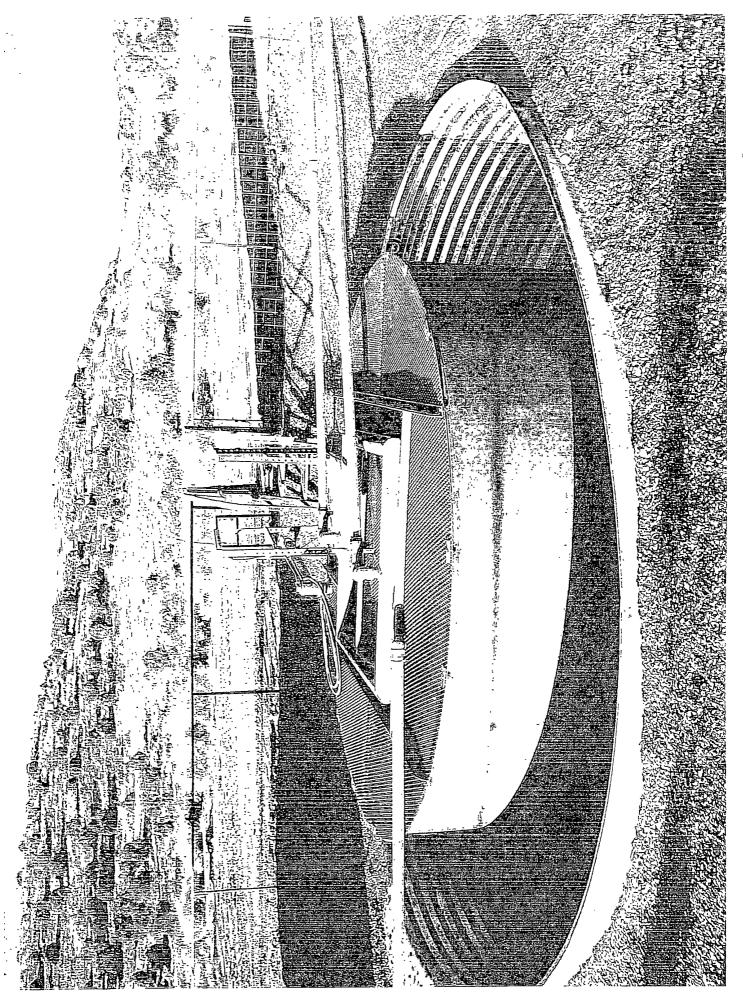
	Below-Grade System Components					
	Tank Size		Excavation Areas			
1	Capacity	Dia x Height				
	125 Bbl	15' x 4'	18' x 18' x 4' Square			
1	120 Bbl	12' x 6'	18' x 4' Circular			
ı	100 Bbl	12' x 5'	18' x 5' Circular			
ŀ						

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

30-mil flexible PVC or 60-mil HDPE or equilivant Liner

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.



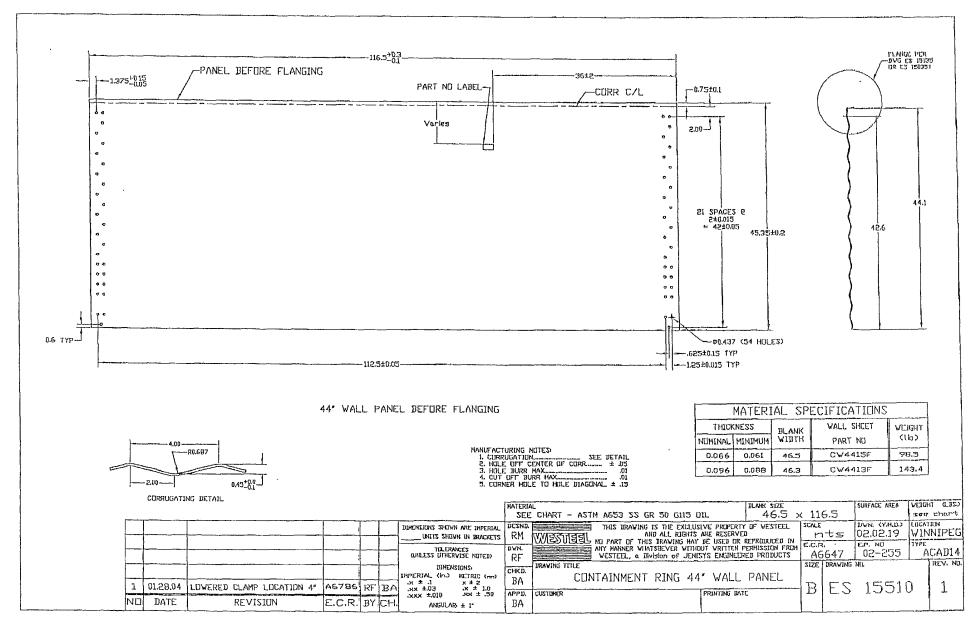
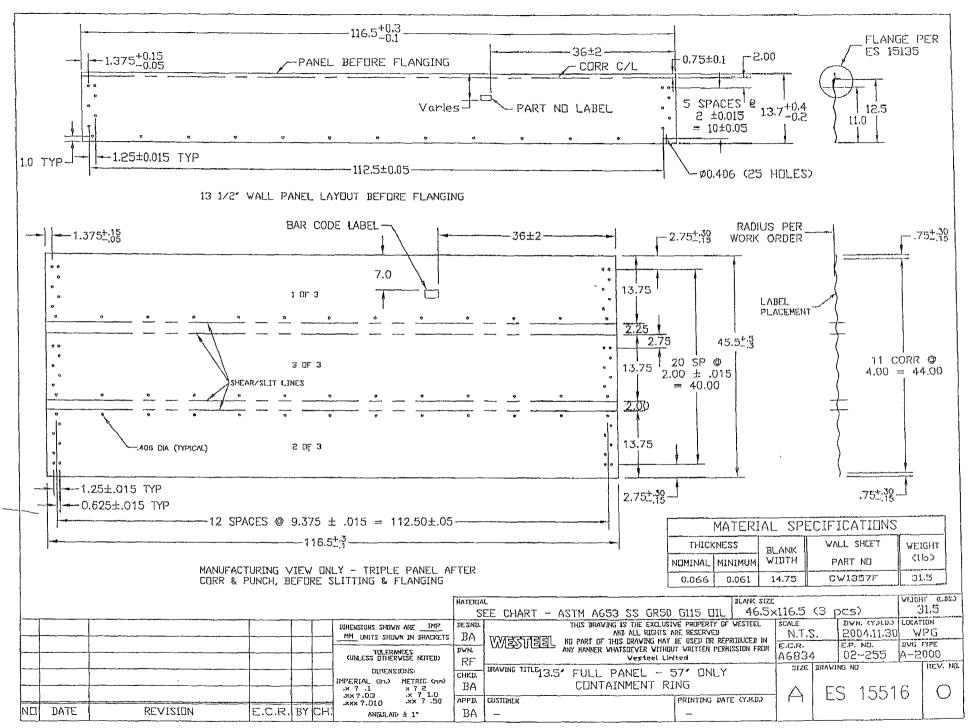


Exhibit 2.2 pg 4



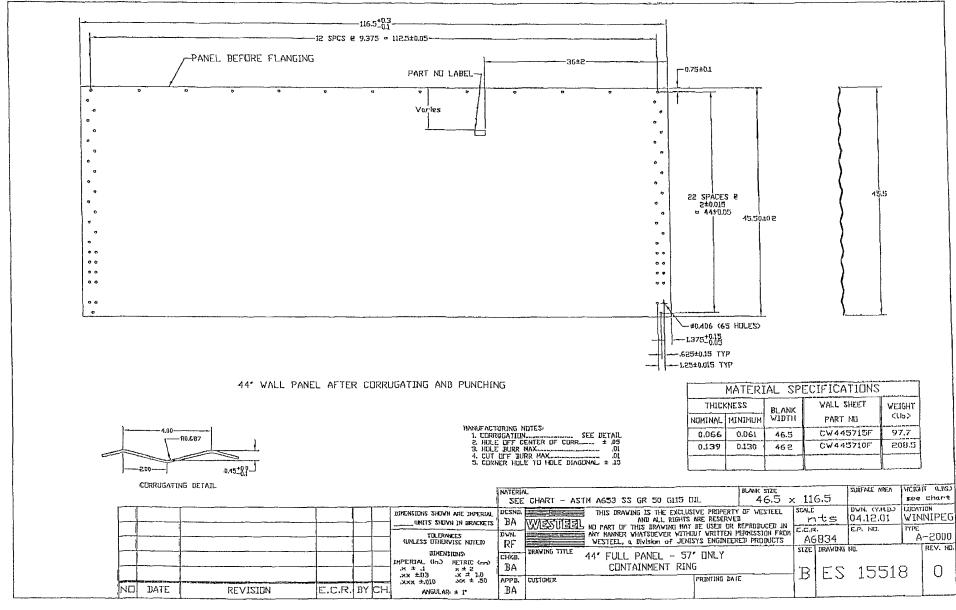


Exhibit 2.2 pg 6

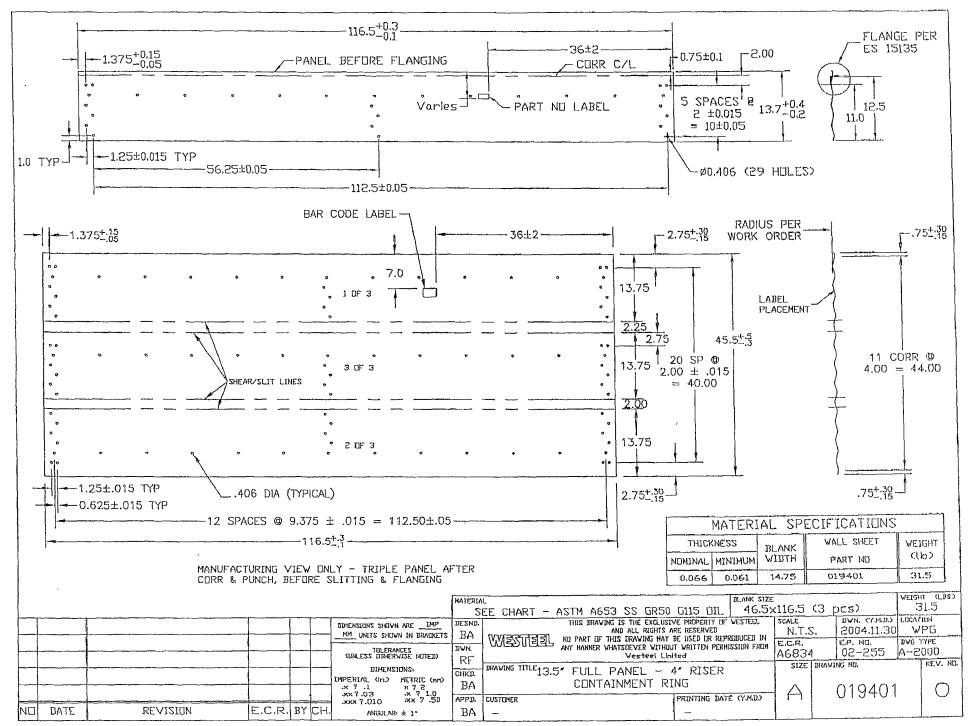
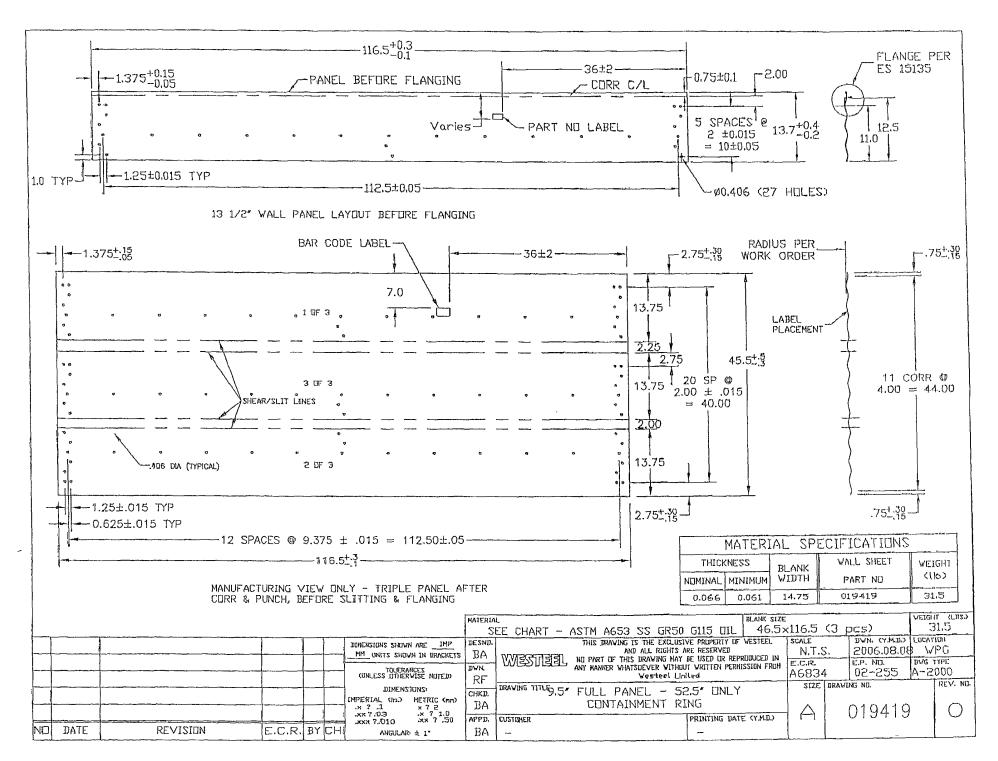


Exhibit 2.2 pg 7



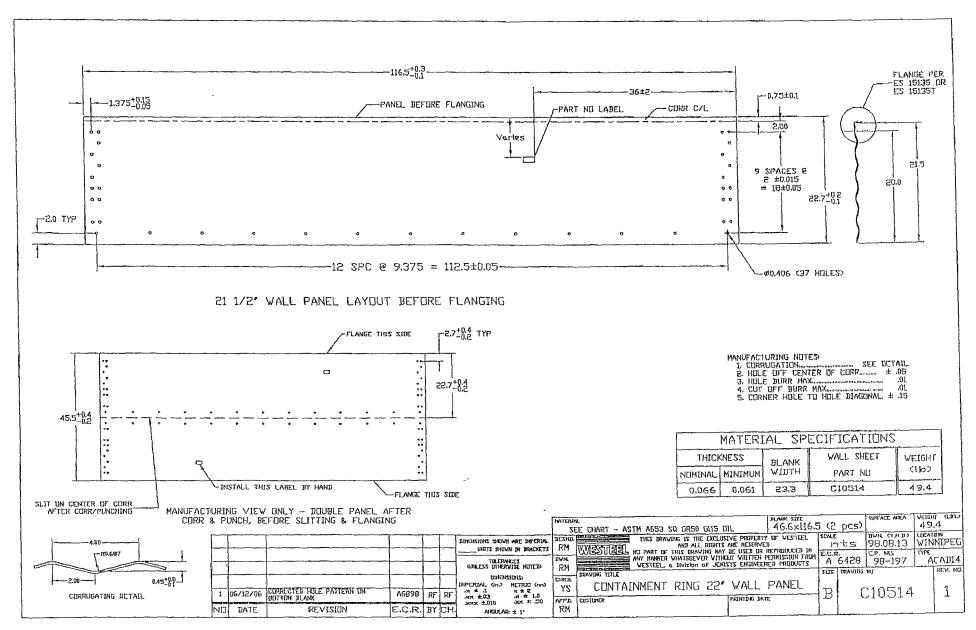
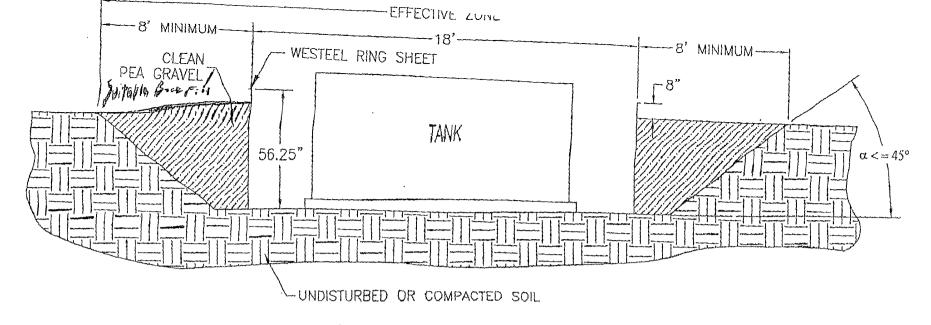


Exhibit 2.2 pg 9



INSTALLATION INSTRUCTIONS & SITE REQUIREMENTS

- 1. EXCAVATE AS PER ABOVE
- 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.

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.

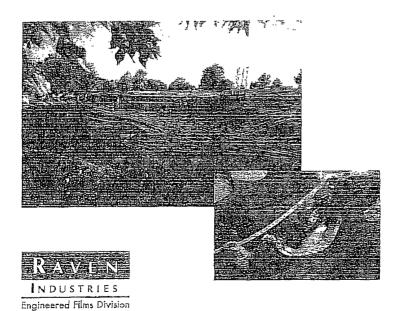
PRODUCT USE

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.



PRODUCT NUMBER

DURA-SIGNM JRO JROBE

DURA-SIGNM JRE JREB

DURA-SIGNM JRE JREB

COMMON Applications

- Waste Lagoon Liners
- Floating Covers
- Daily Landfill Covers
- Modular Tank Liners
- o Time ines
- o semediation Emers
- Earthen Lines
- o inicim Englil Covers
- o Lanelii Caos
- Eigson Conhol Covers
- CiRacon Reinice
- o Ganali Inere
- o Disposa Pilline
- Water Containment Ponds
- Heap Leach Liner





49:(02=11113)		- DUDANSK	RIM JSOBB	in posit	rin akideb	annivali	
At the second se		Mın. Roll Avərages	Typical Roll Averages	Min. Roll Averages	Typical Roll Avarages	Min. Roll Averages	Typical Roll Averages
Appearance		Black/Black		Black/Black		Black/Black	
THICKNESS, MOMINAL	ASTM D5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
₩ĘIGHT bs/MOF (oz/yd)	ASTM D5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21,74)	166 lbs (24.1 9)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extrusion laminated with encapsulated tri-directional scrim reinforcement					
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 MD 87 lbf DD	110 lbf lAD 84 lbf DD	138 lbf MD 105 lbf DD
4" 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 % (Scrim 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 1bf MD 90 1bf 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
GRAS 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
THAPEZOID TEAR	ASTM D4533	120 lbi MD 120 lbi DD	146 lbf MD 141 lbf 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 liability for resulting loss or damage.



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

Toll Free: 800-635-3456



www.ravengeo.com

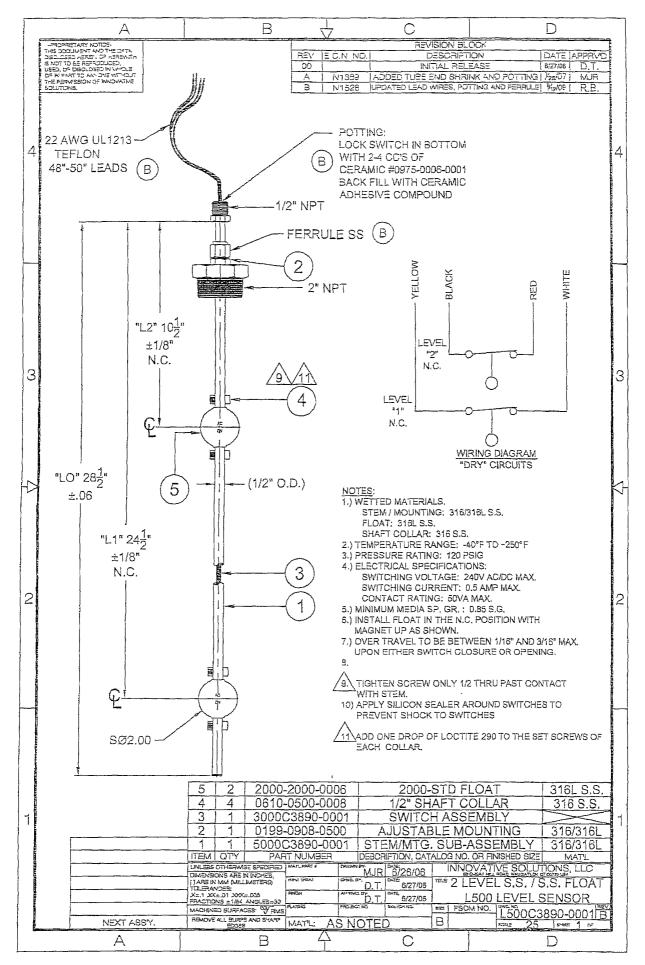


Exhibit 2.4