

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
July 21, 2008

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.

4709
**Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application**

- Type of action: ☒ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: EnerVest Operating, LLC OGRID #: 143199
Address: 1001 Fannin St. Ste 800 Houston, Texas 77002
Facility or well name: Hunsaker 725
API Number: 30-045-27628 OCD Permit Number: _____
U/L or Qtr/Qtr N Section 26 Township 31N Range 09W County: San Juan
Center of Proposed Design: Latitude 36.864800 Longitude -107.754432 NAD: ☐ 1927 ☒ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **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
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other _____
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____

4.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
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 ☒ Other Visible sidewalls, liner, 6" lift & electronic monitoring
Liner type: Thickness 20-60 mil ☒ HDPE ☐ PVC ☐ Other _____

5.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.

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, 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

7.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☒ Screen ☐ Netting ☐ Other _____
- ☐ Monthly inspections (If netting or screening is not physically feasible)

8.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19.15.3.103 NMAC

9.

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 office for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>)	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- FEMA map	

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

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 H₂S, Prevention Plan
☐ Emergency Response Plan
☐ Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan
☐ Erosion Control Plan
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Closed-loop System
☐ Alternative
 Proposed Closure Method: ☒ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 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

17.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable 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. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

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
☐ 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 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 significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18.

On-Site 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.

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

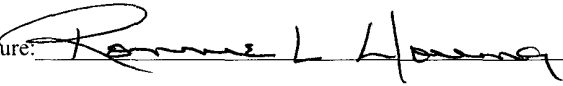
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Ronnie L. Young Title: Compliance Supervisor

Signature:  Date: 12-29-09

e-mail address: ryoung@enervest.net Telephone: 713-495-6530

20.

OCD Approval: ☒ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature:  Approval Date: 6-16-10

Title: Enviro Spec OCD Permit Number: _____

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 Completion Date: _____

22.

Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

23.

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit 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 operations:

- ☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☐ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

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

Introduction:

EnerVest Operating, LLC (EV) is submitting this permit application to operate an existing below-grade tank under the authority of 19.15.17 NMAC. The tank is not currently permitted; therefore this document serves as supporting documentation referenced in the attached Form C-144. EV operates coal bed methane production sites in San Juan County, New Mexico. The below-grade tank at this location is used to collect precipitation and residual lubrication oil from the engine skid drain system and produced water from the primary and secondary separators. Produced water from the secondary separator may have small quantities of entrained lubricating oil from the compressor cylinder. In general, emulsified lubricating oil makes up a small percentage of the overall contents of the below-grade tank.

This application is being submitted for the following well site:

Well Name: Hunsaker 725
API No: 30-045-27628
Location: UL N, Sec 26, 31N, 09W

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, Facility Inspection Sheet, Below-Grade Tank Diagram
09 – Karst Map for unstable areas

References

Section I

Sitting Criteria Compliance Demonstration

Hunsaker 725

API No. 30-045-27628

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)	No - 190 feet to Sidro Canyon	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 existence 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.

- 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 Appendix 8 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 1×10^{-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 will ensure the fluid levels of tanks will be monitored by automatic high level alarms at 24" from the top and shut-off device 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.

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.

Table 1.1 GSE HD Smooth Geomembrane

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE VALUE				
			30 mil	40 mil	60 mil	80 mil	100 mil
Thickness, (minimum average) mil (mm)	ASTM D 5199	every roll	30 (0.75)	40 (1.00)	60 (1.50)	80 (2.00)	100 (2.50)
Lowest individual reading (-10%)			27 (0.69)	36 (0.91)	54 (1.40)	72 (1.80)	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)	ASTM D 6693, Type IV Dumbell, 2 ipm	20,000 lb	120 (21)	152 (26)	243 (42)	327 (57)	410 (71)
Strength at Break, lb/in-width (N/mm)			66 (11)	84 (14)	132 (23)	177 (30)	212 (37)
Strength at Yield, lb/in-width (N/mm)	G.L. 2.0 in (51 mm) G.L. 1.3 in (33 mm)		700	700	700	700	700
Elongation at Break, %			13	13	13	13	13
Elongation at Yield, %							
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 (711)	195 (867)
Carbon Black Content, % (Range)	ASTM D 1 603*/421 8	20,000 lb	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
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
TYPICAL ROLL DIMENSIONS							
Roll Length ⁽²⁾ , ft (m)			1,120 (341)	870 (265)	560 (171)	430 (131)	340 (104)
Roll Width ⁽²⁾ , ft (m)			22.5 (6.9)	22.5 (6.9)	22.5 (6.9)	22.5 (6.9)	22.5 (6.9)
Roll Area, ft ² (m ²)			25,200 (2,341)	19,575 (1,819)	12,600 (1,171)	9,675 (899)	7,650 (711)

NOTES:

- ⁽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 3.
- ⁽²⁾Roll lengths and widths have a tolerance of ± 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 LT8 of <-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 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 environment 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.

	5	2	2000-2000-0006	2000-STD FLOAT	316L S.S.
	4	4	0610-0500-0008	1/2" SHAFT COLLAR	316 S.S.
	3	1	3000C3890-0001	SWITCH ASSEMBLY	316 S.S.
	2	1	0199-0908-0500	ADJUSTABLE MOUNTING	316/316L
	1	1	5000C3890-0001	STEM/MTG. SUB-ASSEMBLY	316/316L
	ITEM	QTY	PART NUMBER	DESCRIPTION, CATALOG NO. OR FINISHED SIZE	MAT'L
UNLESS OTHERWISE SPECIFIED: <small>1. DRAWING BY: M.J.R. DATE: 6/26/06</small> <small>2. DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED</small> <small>3. TOLERANCES ARE IN MM (MILLIMETERS)</small> <small>4. X ± .1 XXX ± .01 XXX ± .005</small> <small>5. FRACTIONS ± 1/64 ANGLES = 30°</small> <small>6. MACHINED SURFACES $\frac{63}{32}$ RMS</small> <small>7. FINISH: D.T. DATE: 6/27/06</small>					
<small>8. INNOVATIVE SOLUTIONS, LLC</small> <small>9. 10000 1/2" DIA. 3000, 11000 1/2" DIA. 3000, 11000 1/2" DIA. 3000</small> <small>10. TITLE: 2 LEVEL S.S. / S.S. FLOAT</small> <small>11. L500 LEVEL SENSOR</small>					
NEXT ASSY	REMOVE ALL BURRS AND SHARP EDGES	MAT'L:	AS NOTED	SIZE: B	<small>12. FSCM NO.</small> <small>13. L500C3890-0001</small> <small>14. SHEET 25 OF 1</small>

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

- E. .All free standing liquids and sludge will be removed at the start of the below-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 be 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 be 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 south 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

Hunsaker 725

API 30-045-27628

The above referenced well is located at UL N, Sec 26, 31N, 09W at an elevation of 6048'.

According to the New Mexico Office of State Engineer, water well, SJ00016 on the TOPO Map, drilled was in 1952 by El Paso Natural Gas in the SE/4, Sec 27, 31N, 09W, with an elevation of 6032 and encountered water at a depth of 84 feet. This well is approximately 1 mile SW of our location.

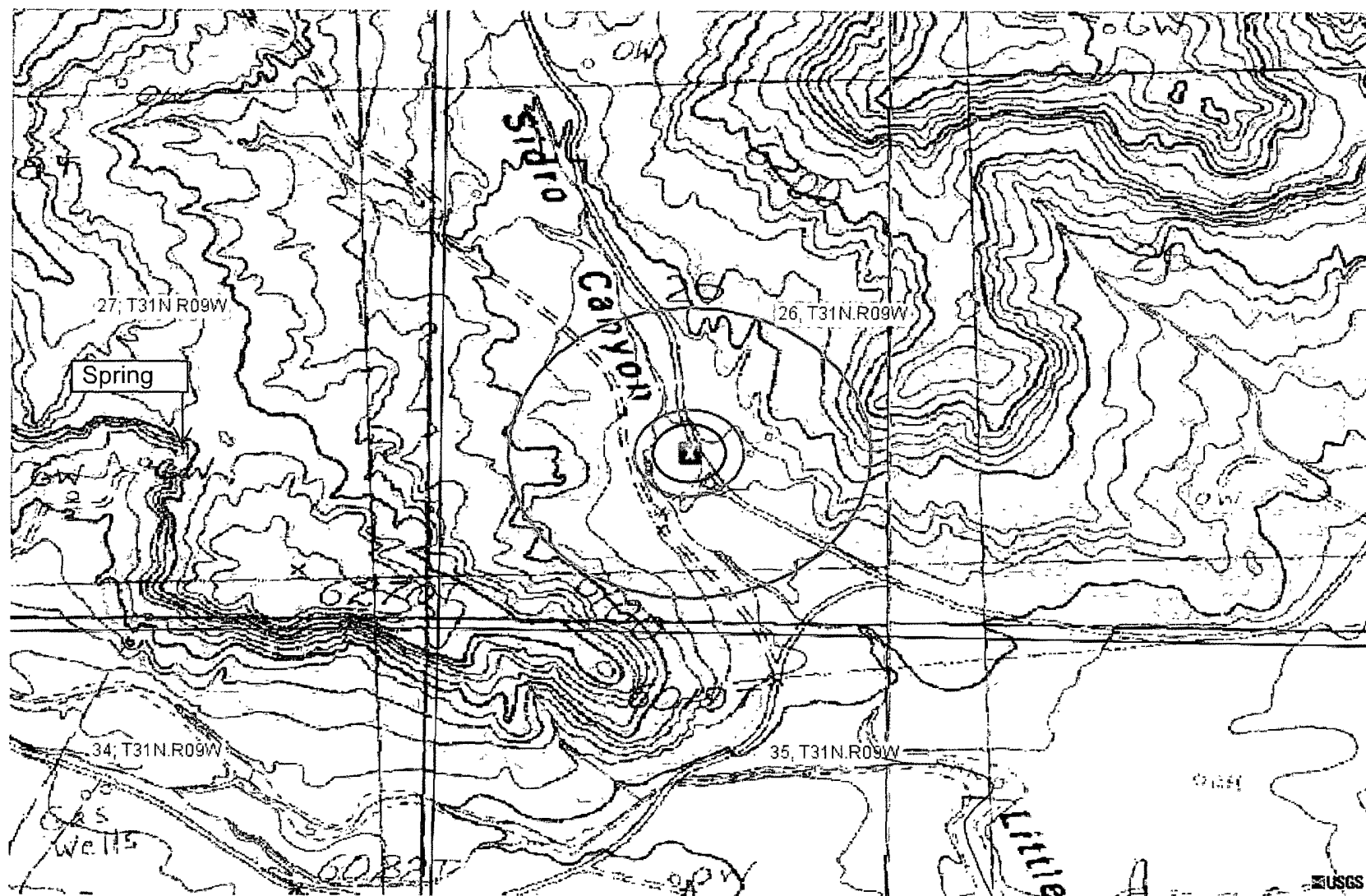
The water well, SJ03841, approximately 1.5 miles SW of our location did encounter water at a depth of 26 feet. However the distance should not interfere with our location.

Southern Union drilled the Hunsaker #1 (045-10249) in 1952 at an elevation of 5068', about 300 feet East of our well. They set surface casing at 187', which is at a depth of 4881 feet, which is 1167' deeper than our well. The make up of sand and shale should prevent any migration of water up stream.

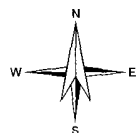
The groundwater at our well site would be greater than 200 feet at a minimum. This should allow ample protection for any groundwater in the area.

Appendix 01

U.S. 7.5 Minute TOPO Map



0 500 1000ft



Petroleum Recovery
Research Center

TOPO - Hunsaker 725

Figure: 01

N - Sec 26, 31N, 09W

Oct 26, 2009

API 30-045-27628

Appendix 02

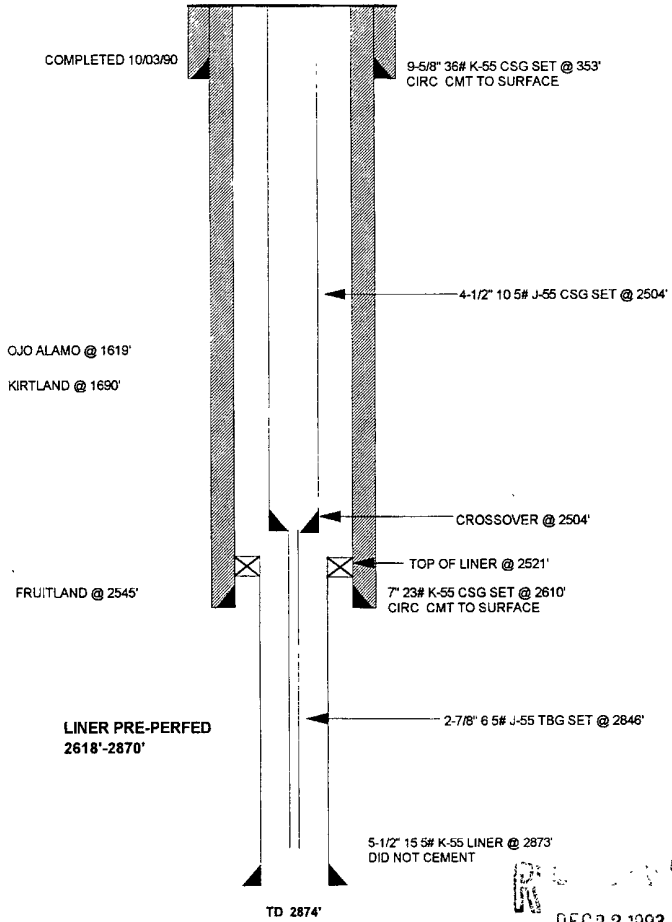
Ground Water Depth

HUNSAKER #725

CURRENT

BASIN FRUITLAND COAL

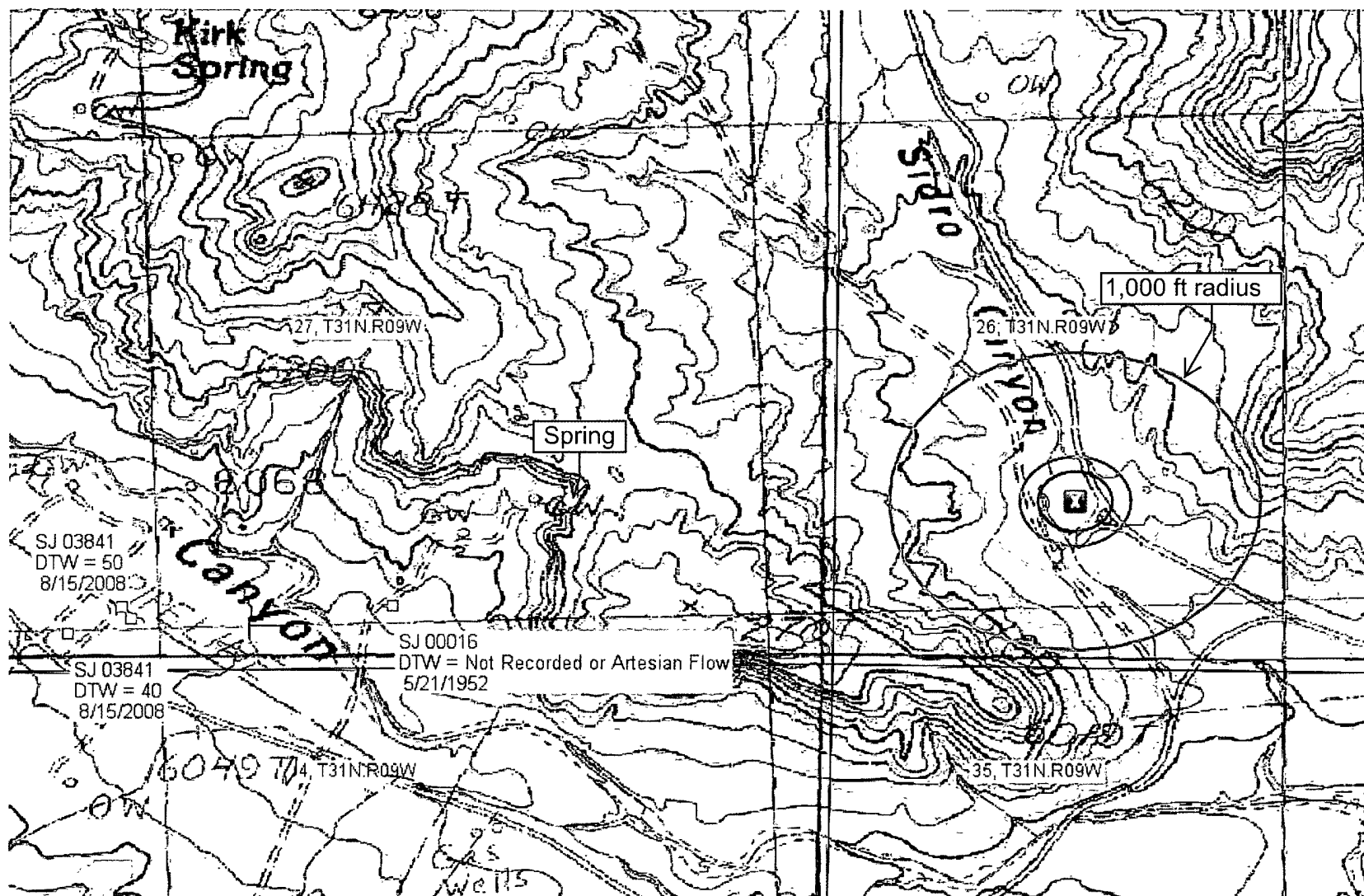
UNIT N, SEC 26, T31N, R09W, SAN JUAN COUNTY, NM



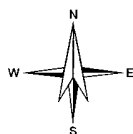
ELEVATION: 6048

045-27628

DEC 22 1993
OIL CON. DIV
DIST 2
ENGINEERING/DCV-127/93



0 500 1000ft



Petroleum Recovery
Research Center

OSE Ground Water - Hunsaker 725

Figure: 02

N - Sec 26, 31N, 09W

Dec 29, 2009

API 30-045-27628



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: SJ 00016
Primary Purpose: IND INDUSTRIAL
Primary Status: DCL DECLARATION
Total Acres: 0
Total Diversion: 32
Owner: BURLINGTON RESOURCES OIL & GAS
Contact: LINDA DEAN

Documents on File

	Doc	File/Act	Status			Transaction Desc.	From/To	Acres	Diversion	Consumptive
			1	2	3					
	get images	COWNF 2002-11-20	CHG	PRC	ABS	SJ 00016	T	0	0	
	get images	COWNF 1985-06-17	CHG	PRC	ABS	SJ 00016	T	0	0	
	get images	DCL 1985-02-01	DCL	PRC	ABS	SJ 00016 AMENDED	T	0	32	
	get images	DCL 1953-11-17	DCL	PRC	ABS	SJ 00016	T	0	0	

Point of Diversion

(NAD83 UTM in meters)

Pod Number	Source	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Other Location Desc
SJ 00016	Artesian	3	3	4	27	31	N	09W	253339	4083235*	

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	Source
05/21/1952	DCL	0	32	SJ 00016	Artesian

Place of Use

Q	Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	Use	Priority	Status	Other Location Desc
256	64	16	4	27	31	N	09W	0	32	IND	05/21/1952	DCL	NO PLACE OF USE GIVEN

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

221751

(This form is to be executed in triplicate)

WELL RECORD

Date of Receipt November 17, 1953

Permit No. Miss. 1-83-52
Miss. 189 SJ-16

Name of permittee, El Paso Natural Gas Company

Street or P. O. Box 1492, City and State El Paso, Texas

1. Well location and description: The shallow well is located in SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 27, Township 31N, Range 9W; Elevation of top of casing above sea level, 6032 feet; diameter of hole, inches; total depth, 118 feet; depth to water upon completion, feet; drilling was commenced 5-21-52, 19 , and completed 5-21-52, 19 ; name of drilling contractor ; Address, ; Driller's License No.

2. Principal Water-bearing Strata:

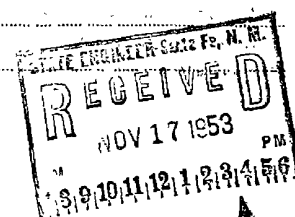
	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
No. 1	<u>84</u>	<u>118</u>	<u>34</u>	<u>Sand</u>
No. 2				
No. 3				
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner Top	Bottom	Feet of Casing	Type of Shoe	Perforation From	To
<u>6-5/8</u>					<u>118</u>		<u>84</u>	<u>118</u>
<u>4" tubing</u>					<u>113</u>			

4. If above construction replaces old well to be abandoned, give location: $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$ of Section , Township , Range ; name and address of plugging contractor,

date of plugging , 19 ; describe how well was plugged:



58-16 SJ-16
Miss 1-83-16

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Amended Declaration of Owner of Underground Water Right

San Juan
BASIN NAME
Declaration No. SJ-16 Date received February 1, 1985

STATEMENT

1. Name of Declarant El Paso Natural Gas Company
Mailing Address P. O. Box 1492
County of El Paso, State of Texas
2. Source of water supply artesian (artesian or shallow water aquifer)
3. Describe well location under one of the following subheadings:
a. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec 27 Twp. 31N Rge 9W SAN N.M.P.M., in 7503
San Juan County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet. N. M. Coordinate System _____ Zone _____
in the USA Grant.
On land owned by _____
4. Description of well: date drilled 5/21/52 driller Unknown depth 118 feet.
outside diameter of casing 6-5/8 inches; original capacity 20 gal. per min.; present capacity _____
as noted on original declaration Misc. 189; 11/17/53.
gal. per min.; pumping lift _____ feet; static water level _____ feet (above) (below) land surface;
make and type of pump on jet
make, type, horsepower, etc., of power plant _____
Fractional or percentage interest claimed in well _____
5. Quantity of water appropriated and beneficially used 32
for industrial (acre feet per acre) (acre feet per annum) purposes.
6. Acreage actually irrigated N/A acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner

(Note: location of well and acreage actually irrigated must be shown on plot on reverse side of this form.)

7. Water was first applied to beneficial use May 21 1952 and since that time
month day year
has been used fully and continuously on all of the above described lands or for the above described purposes except
as follows. _____

8. Additional statements or explanations well is temporarily abandoned and is being held on
standby for future water requirements for oil and gas exploration/development
drilling.

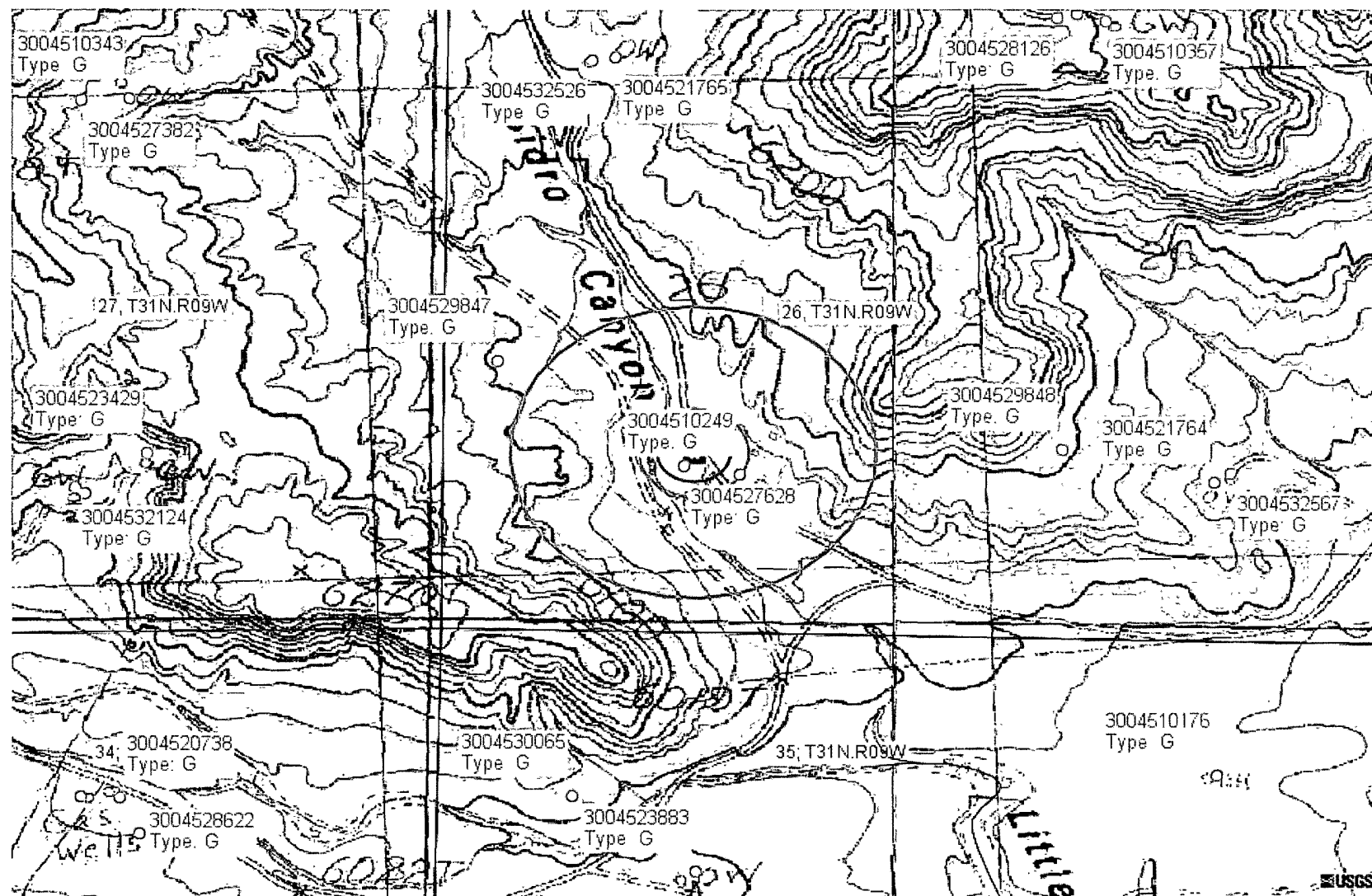
I, William F. Lorang, P.E. being first duly sworn upon my oath,
depone and say that the above is a full and complete statement prepared in accordance with the instructions on the re-
verse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully
read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

El Paso Natural Gas Company, declarant.
by: W. F. Lorang

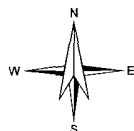
Subscribed and sworn to before me this 20th day of January, A.D. 1985
My commission expires December 14, 1985 William F. Lorang Notary Public

FILED
UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM.
ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

STATE ENGINEER
DISTRICT OFFICE
ALBUQUERQUE, N. MEX.
85 FEB 1 9 31



0 500 1000ft



Petroleum Recovery
Research Center

Offset Gas Wells - Hunsaker 725

Figure: 2a

N - Sec 26, 31N, 09W

Oct 26, 2009

API 30-045-27628

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

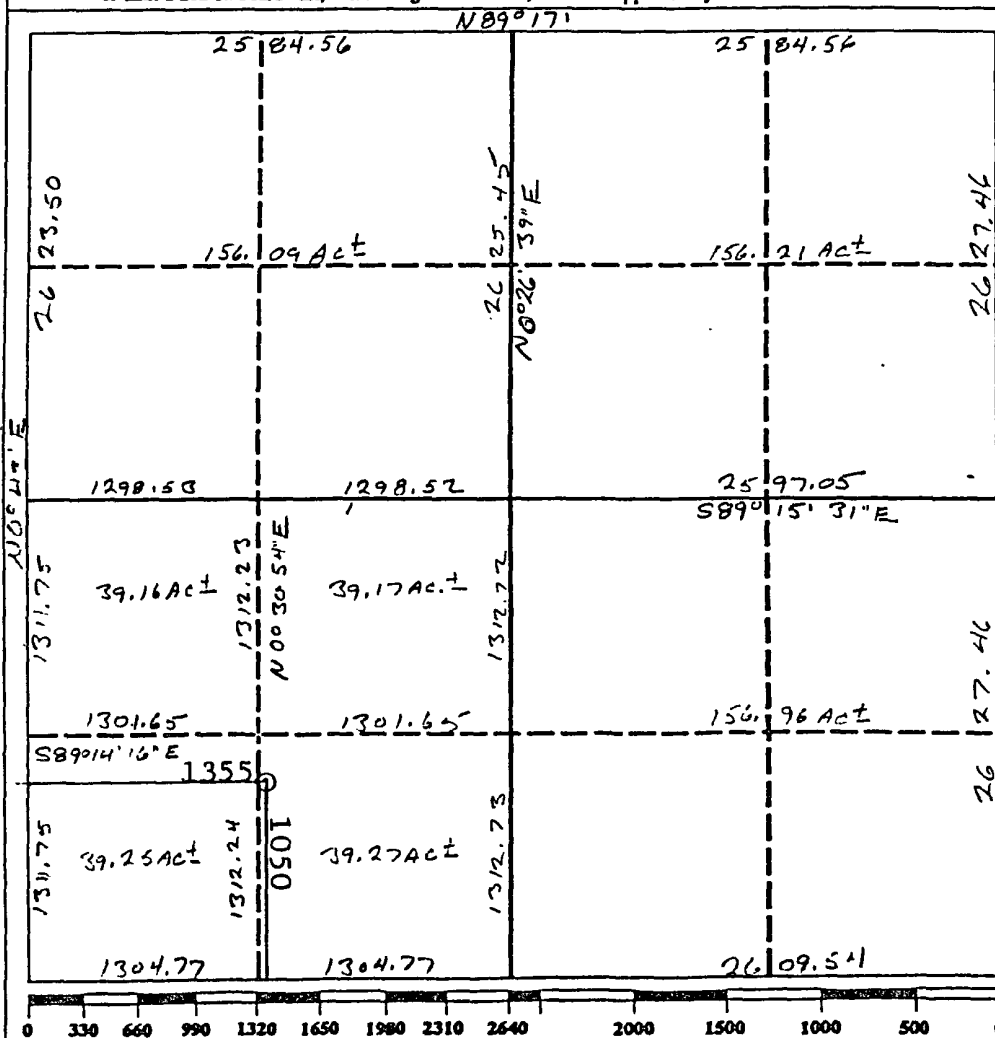
All Distances must be from the outer boundaries of the section

Form C-102
Revised 1-1-89

OCT 3 1989

Operator UNION TEXAS PETROLEUM			Lease HUNSAKER		Well No. 26-1
Unit Letter N	Section 26	Township 31N	Range 9W	County NMPM San Juan	
Actual Footage Location of Well: 1050 feet from the SOUTH line and 1355 feet from the WEST line					
Ground level Elev. 6048	Producing Formation		Pool	Dedicated Acreage: Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary).
No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	COPY TO:
Printed Name	DRUG
Position	LAND
Company	PROJ. COORD. R. Pierce
Date	Raf Johnson
DATE	
September 14, 1989	
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.	
Date Surveyed	September 14, 1989
Signature	Cecil B. Mullins
Professional Surveyor	REGISTERED PROFESSIONAL LAND SURVEYOR
Certificate No.	9672

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Meridian Oil Inc.	Well APN No. 30-045-
-------------------------------	-------------------------

Address PO Box 4289, Farmington, NM 87499
--

Reason(s) for Filing (Check proper one) New Well <input checked="" type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change in Operator <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	RECEIVED NOV 14 1990
---	--------------------------------

If change of operator give name and address of previous operator	OIL CON. DIV.
--	---------------

II. DESCRIPTION OF WELL AND LEASE		DIST. 3	
Lease Name Hunsaker	Well No. 725	Pool Name, including Formation Basin Fruitland Coal	Lease No. SF-078506
Location Unit Letter N	1050'	Foot From The South	1355'
Section 26	Township 31	Range 9	San Juan

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS	
Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Meridian Oil Inc.	Address (Give address to which approved copy of this form is to be sent) PO Box 4289, Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas	Address (Give address to which approved copy of this form is to be sent) PO Box 4990, Farmington, NM 87499
If well produces oil or liquids, give location of tanks. Unit N	Sec. 26

If this production is commingled with that from any other lease or pool, give commingling order number.

IV. COMPLETION DATA	
Designate Type of Completion - (X) Date Spudded 9-2-90	Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Same Res v <input type="checkbox"/> Diff Res v <input type="checkbox"/>
Date Complet. Ready to Prod. 10-3-90	Total Depth 2874'
Elevations (DF, REB, RT, GR, etc.) 6048' GL	Top Oil/Gas Pay 2618'
Perforations 2618-2870' (predrilled liner)	Tubing Depth 2844'

TUBING, CASING AND CEMENTING RECORD			
HOLE SIZE 12 1/4"	CASING & TUBING SIZE 9 5/8"	DEPTH SET 353'	SACKS CEMENT 330 cu.ft.
8 3/4"	7"	2610'	830 cu.ft.
6 1/4"	5 1/2"	2873'	did not cmt
	2 3/8"	2844'	

V. TEST DATA AND REQUEST FOR ALLOWABLE

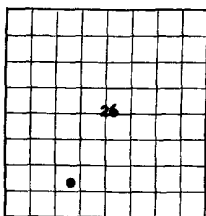
OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)	
Date First New Oil Run To Tank	Date of Test
Length of Test	Tubing Pressure
Actual Prod. During Test	Oil - Bbls.

GAS WELL	
Actual Prod. Test - MCF/D	Length of Test
Testing Method (press. back per.) backpressure	Tubing Pressure (Static-in) SI 1386

VI. OPERATOR CERTIFICATE OF COMPLIANCE		OIL CONSERVATION DIVISION	
I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.		NOV 14 1990	
Signature Benny Bradfield		Date Approved	
Printed Name Benny Bradfield		By SUPERVISOR DISTRICT #3	
Date 11-12-90		Title	

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- All sections of this form must be filled out for allowable on new and recompleted wells.
- Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079506
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address Burt Bldg., Dallas, Texas
 Lessor or Tract Hunsaker Field Blanco State New Mexico
 Well No. 1 Sec. 26, T. 31, R. 9, M. Meridian N.M.P.M. County San Juan County
 Location 990 ft. (N.) of S. Line and 1690 ft. (S.) of M. Line of Section 26 Elevation 5062.9
 The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Signed Van ThompsonDate January 2, 1953 Title Manager Exploration Dept.

The summary on this page is for the condition of the well at above date.

Commenced drilling October 2, 1952, 19..... Finished drilling November 29, 1952, 19.....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 0 to 4574 No. 4, from to
 No. 2, from 4690 to 5462 No. 5, from to
 No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to
 No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
							From-- To--	
<u>30 3/4 40.5</u>			<u>7-55</u>	<u>187</u>				<u>Star Case</u>
<u>5 1/2 35.3</u>			<u>7-55</u>	<u>187</u>				<u>Production</u>
<u>1.9" O.D. tubing 2.75</u>			<u>7-55</u>	<u>4614.25</u>				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>30 3/4 40.5</u>		<u>125</u>	<u>Halliburton</u>		
<u>5 1/2 35.3</u>		<u>225</u>	<u>"</u>		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
 Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		<u>Nitro glycerine</u>	<u>1676 Q</u>	<u>11/3/52</u>	<u>4623-5462</u>	<u>5462'</u>

TOOLS USED

Rotary tools were used from 0 feet to 4574 feet, and from feet to feet
 Cable tools were used from 4574 feet to 5462 feet, and from feet to feet

DATES

December 1, 1952, 19..... Put to producing 19.....

The production for the first 24 hours was barrels of fluid of which % was oil, %
 emulsion, % water, and % sediment Gravity, °Bé

If gas well, cu. ft. per 24 hours 2240 MCF Gallons gasoline per 1,000 cu. ft. of gasRock pressure, lbs. per sq. in. 1060

EMPLOYEES

Gardner Bros. Drilling Co. Driller Rotary Driller Glenn Gillispie
 Company drilled in Driller J F Smith Driller

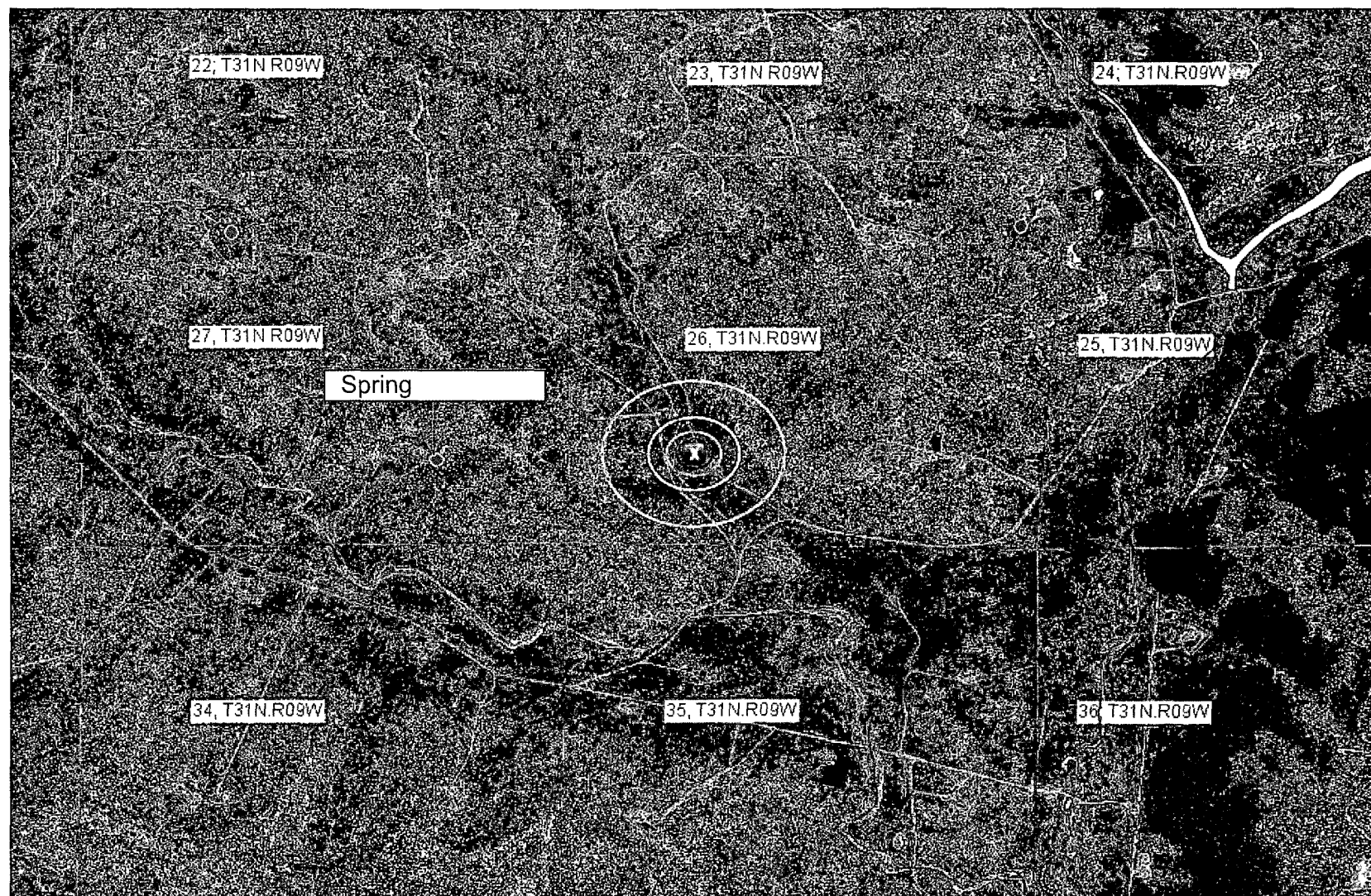
FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
<u>0</u>	<u>300</u>	<u>300</u>	<u>Sand and sandy shale</u>
<u>300</u>	<u>325</u>	<u>25</u>	<u>Sand and shale</u>
<u>325</u>	<u>960</u>	<u>635</u>	<u>Shale</u>
<u>960</u>	<u>1175</u>	<u>215</u>	<u>Sand and shale</u>
<u>1175</u>	<u>1274</u>	<u>101</u>	<u>Sand</u>
<u>1274</u>	<u>4313</u>	<u>3039</u>	<u>Sand and shale</u>
<u>4313</u>	<u>4402</u>	<u>89</u>	<u>Shale</u>
<u>4402</u>	<u>4532</u>	<u>130</u>	<u>Sand and shale</u>
<u>4532</u>	<u>4599</u>	<u>27</u>	<u>Hard sand and chert</u>
<u>4599</u>	<u>4610</u>	<u>51</u>	<u>Sand and shale</u>
<u>4610</u>	<u>4700</u>	<u>90</u>	<u>Sand</u>
<u>4700</u>	<u>4733</u>	<u>33</u>	<u>Sand and shale</u>
<u>4733</u>	<u>4740</u>	<u>7</u>	<u>Sand</u>
<u>4740</u>	<u>4773</u>	<u>33</u>	<u>Oil sand</u>
<u>4773</u>	<u>4920</u>	<u>147</u>	<u>Sand</u>
<u>4920</u>	<u>5115</u>	<u>195</u>	<u>Coal and sandy shale</u>
<u>5115</u>	<u>5320</u>	<u>205</u>	<u>Sand and shale</u>
<u>5320</u>	<u>5462 TD</u>	<u>142</u>	<u>Shale</u>
			<u>Top Pictured Cliffs 2868</u>
			<u>" Cliff House 4690</u>
			<u>" Point Lookout 5087</u>

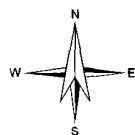
9672

Appendix 03

Aerial Photo



0 1000 2000ft



Petroleum Recovery
Research Center

Aerial - Hunsaker 725

Figure: 03

N - Sec 26, 31N, 09W

Oct 26, 2009

API 30-045-27628

Appendix 04

Municipality Boundary Map

Petroleum Recovery
Research Center

Municipalities - Hunsaker 725

Figure: 04

N - Sec 26, 31N, 09W

Oct 26, 2009

API 30-045-27628

Appendix 05

U.S. Fish & Wildlife Wetland Identification Map

Internet Mapping Framework

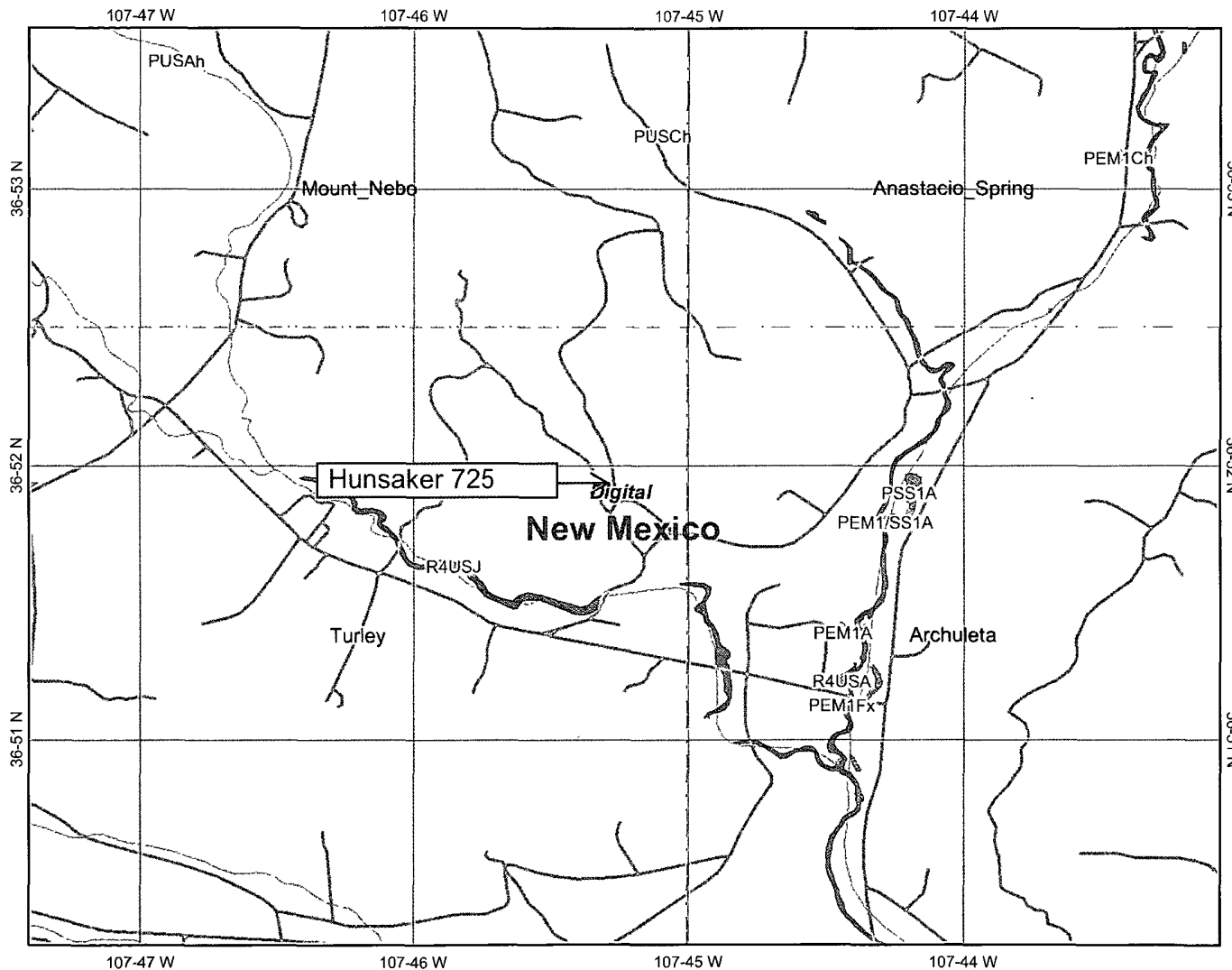


Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



Scale: 1:43,294



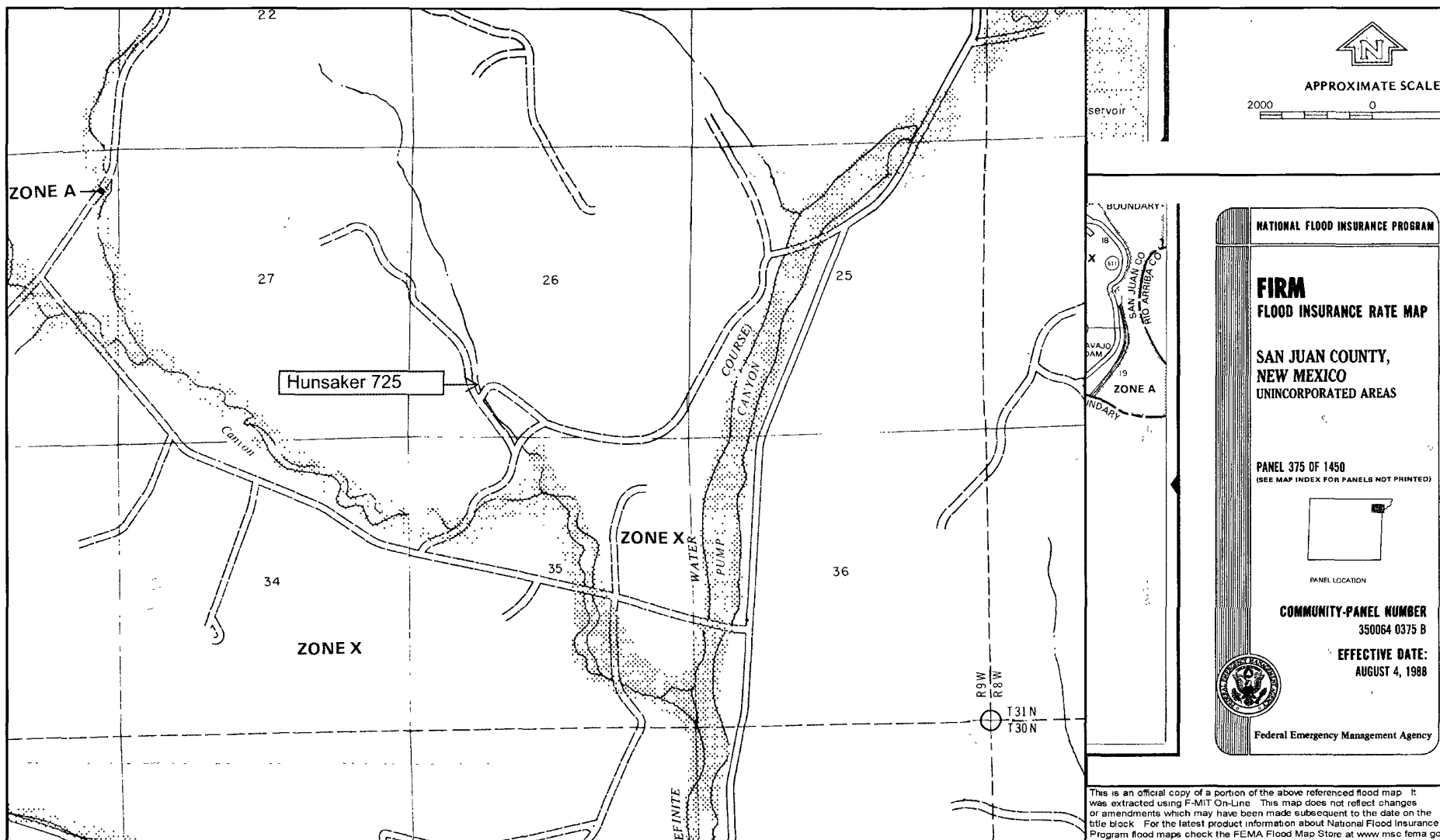
Map center: 36° 51' 55" N, 107° 45' 14" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Appendix 06

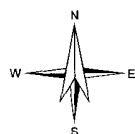
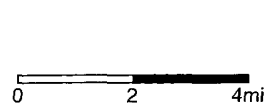
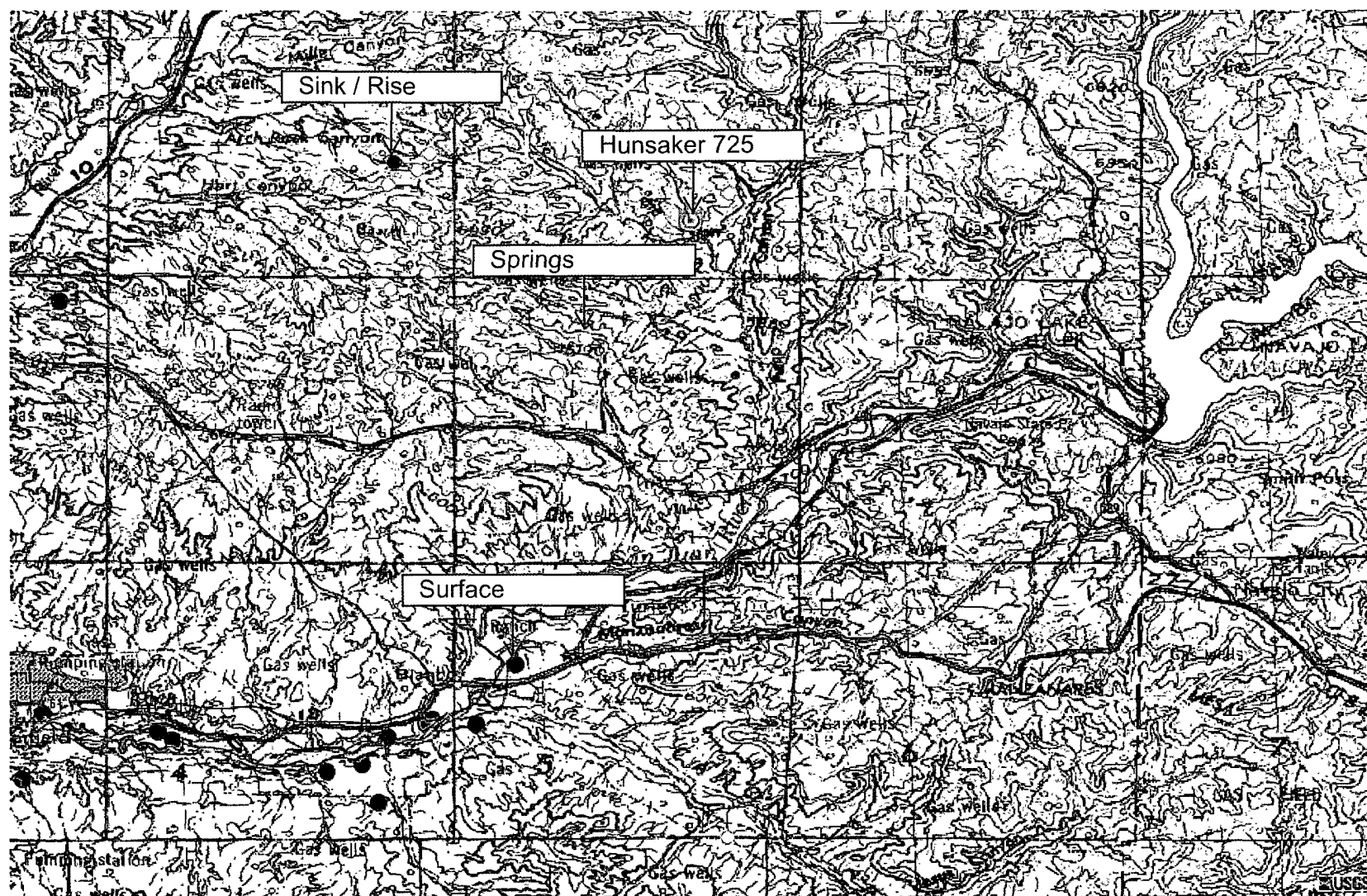
FEMA 100-year Floodplain Map

)



Appendix 07

Mines, Mills, & Quarries Map



Petroleum Recovery
Research Center

Mines, Mills, Quarries - Hunsaker 725

Figure: 07

N - Sec 26, 31N, 09W

Oct 26, 2009

API 30-045-27628

Appendix 08

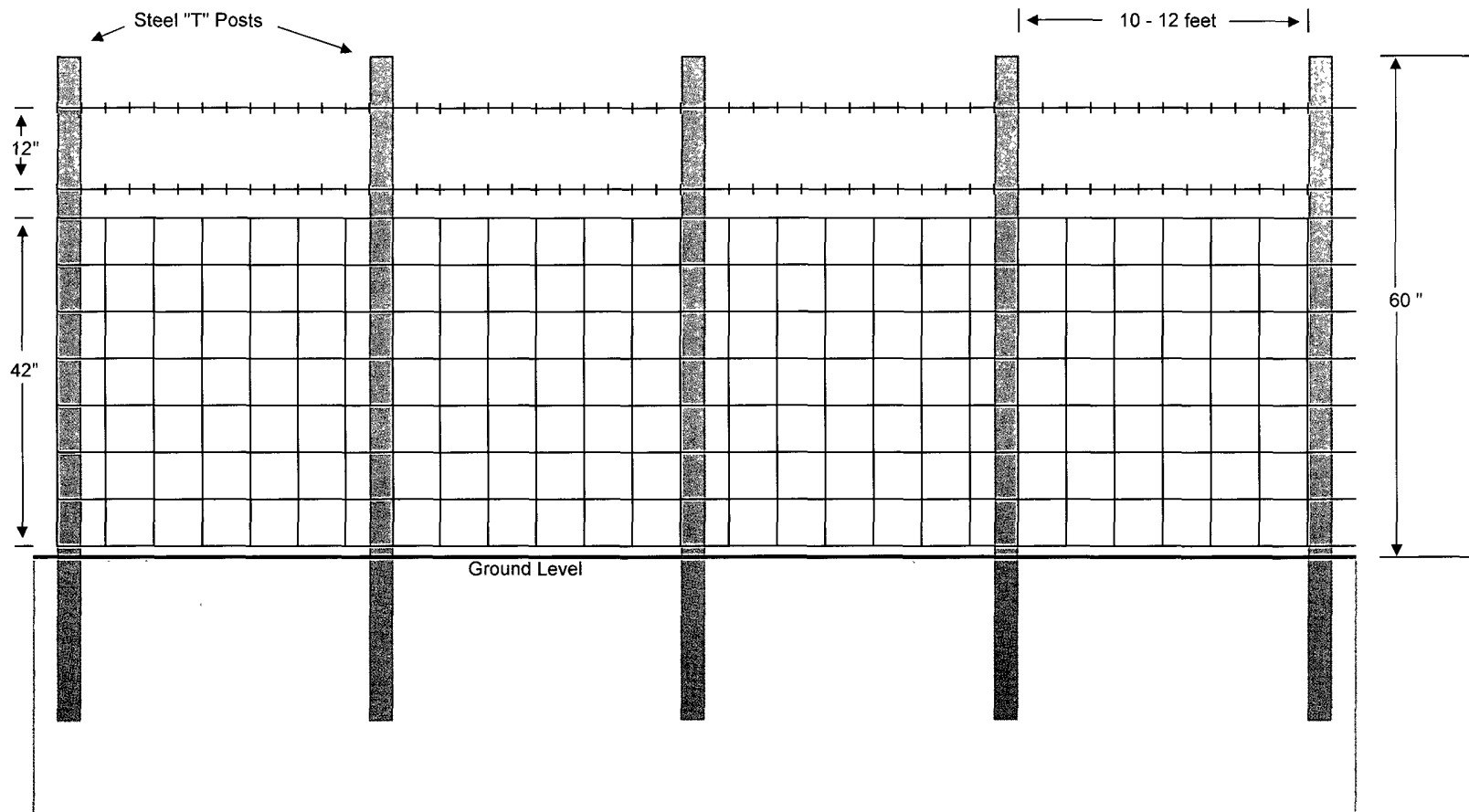
**C-102 Location Plat
Facility Inspection Sheet
Below-Grade Tank Diagram**

ENERVEST OPERATING, LLC

Proposed Alternative Fencing

Below-Grade Tank Construction

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



ENERVEST
OPERATING, LLC

EM

1-9111

HUNSAKER #725
FORMATION FRC

LATITUDE N 36° 51.9
LONGITUDE W 107° 45.2

1050' FSL 1355' FW

SEC. 26 T031N R009W

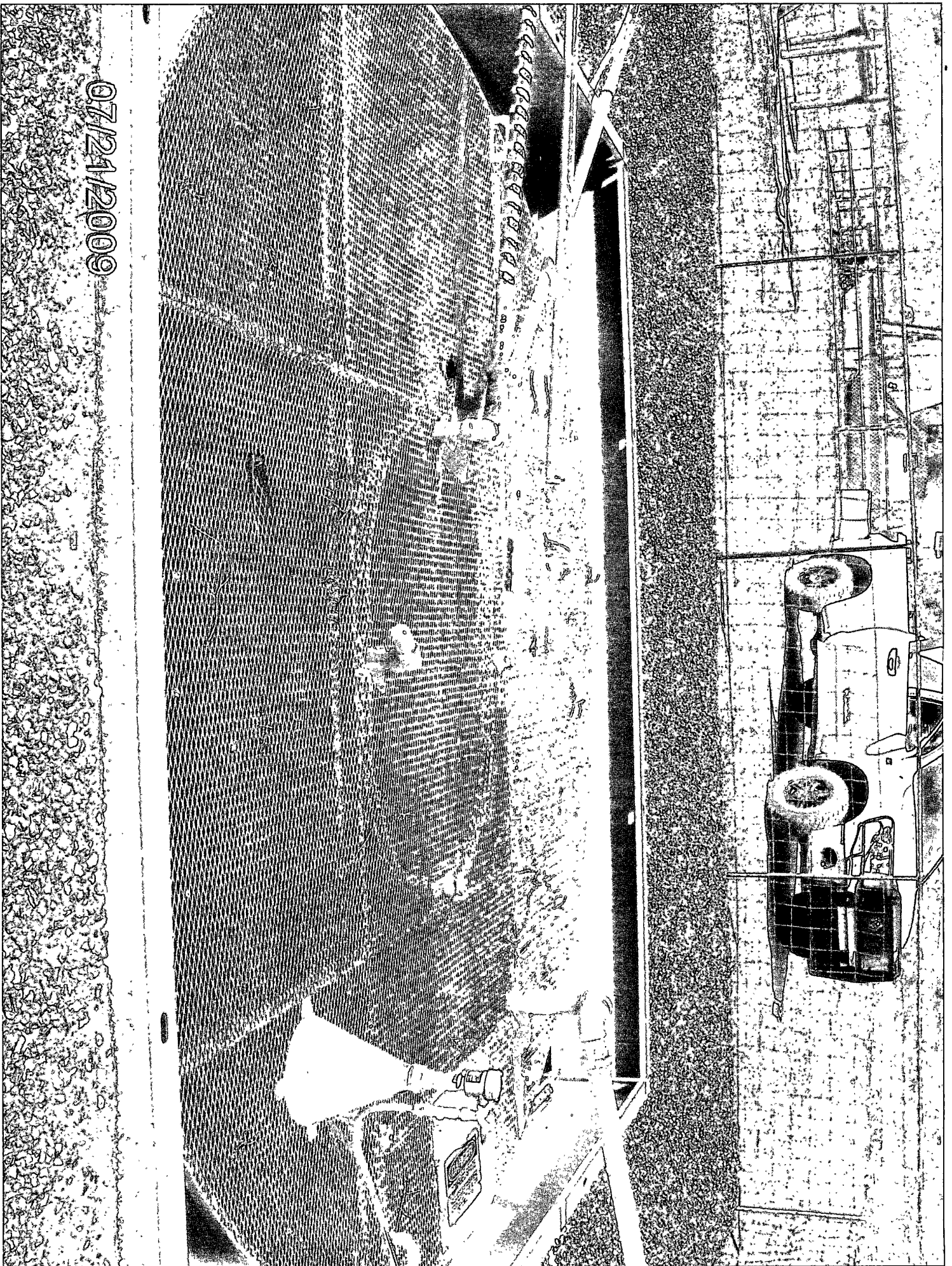
LEASE NO NMSF-078506 ELEV. 6048

API NO. 30-045-27628

SAN JUAN COUNTY, NEW MEXICO

EMERGENCY CONTACT: 1-800-592-4822

07/21/2009



07/24/2009

07/12/2009

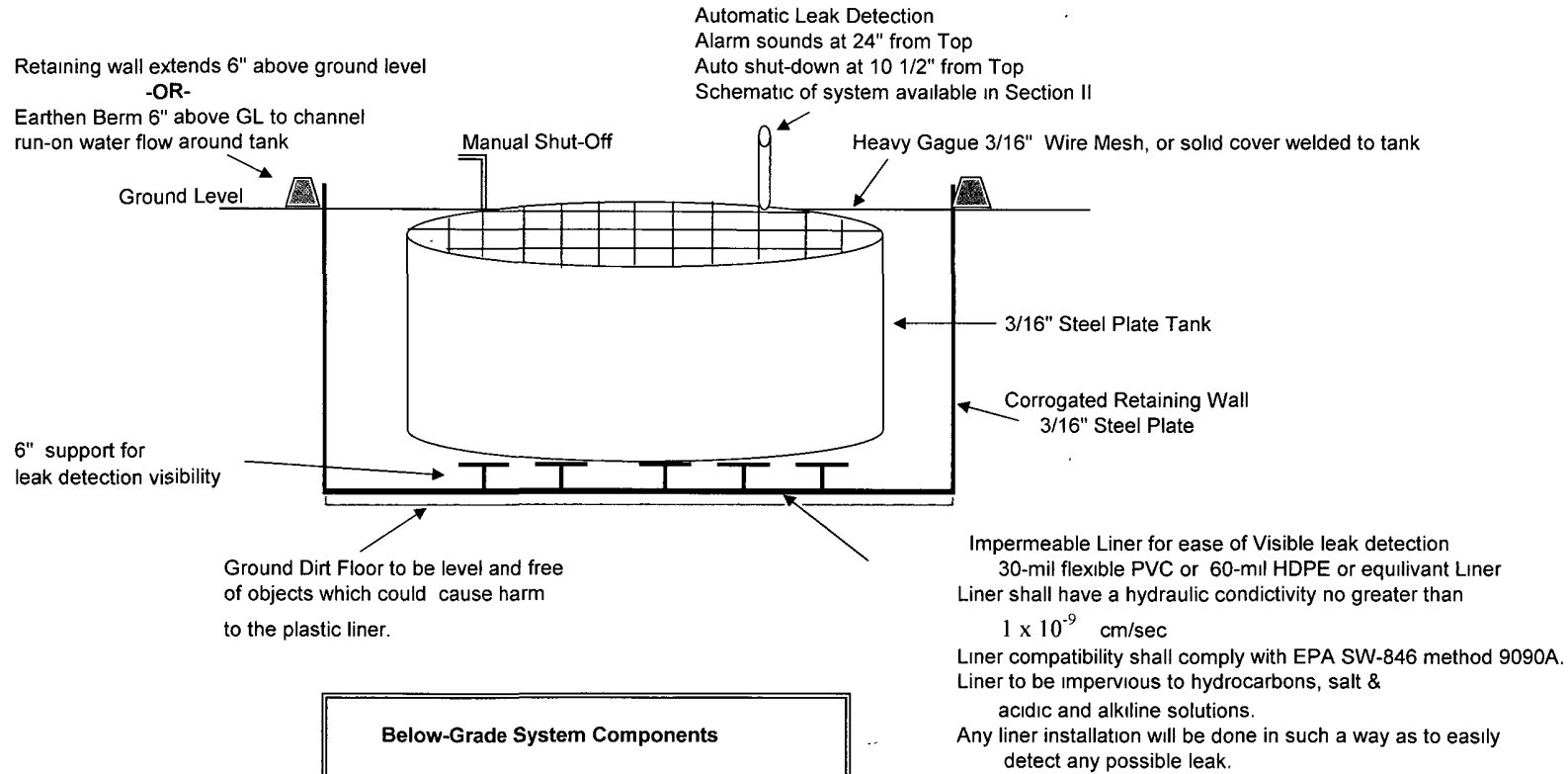




EnerVest Operating, LLC
Western Division

Below-Grade Tank System

Gravity Fed - Produced Water



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

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

ENERVEST OPERATING LLC

Below Grade Tank
Observed Sitting Requirements

Lease Name & Well Number HUNAKER 725

API No. 30-045-27628

Observed by Lee Kenehl

Date Observed 7/23/09

MEASURED FROM THE BELOW-GRADE TANK: Yes No If not within limits, explain:

Continuously flowing water course > 300 ft.

☒ ☒

190' Sidro Canyon

Significant Watercourse, lakebed, sinkhole or
playa lake > 200 feet

☒ ☐

Permanent Residence > 200 feet

☒ ☐

School > 200 feet

☒ ☐

Hospital > 200'

☒ ☐

Institution or Church > 200'

☒ ☐

Private, domestic fresh water well or
spring > 500 feet

☒ ☐

Any other fresh water well or spring > 1000 feet

☒ ☐

Within incorporated municipal boundary of
defined municipal fresh water field

☐ ☒

Wetland area > 500 feet

☒ ☐

Overlying a subsurface mine

☐ ☒

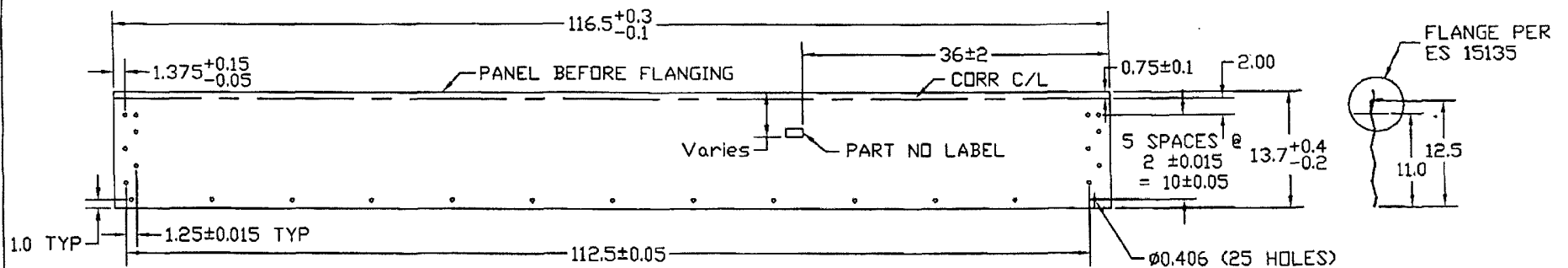
36, 86504 107, 75424

Distance to watercourse or dry wash should be to nearest edge

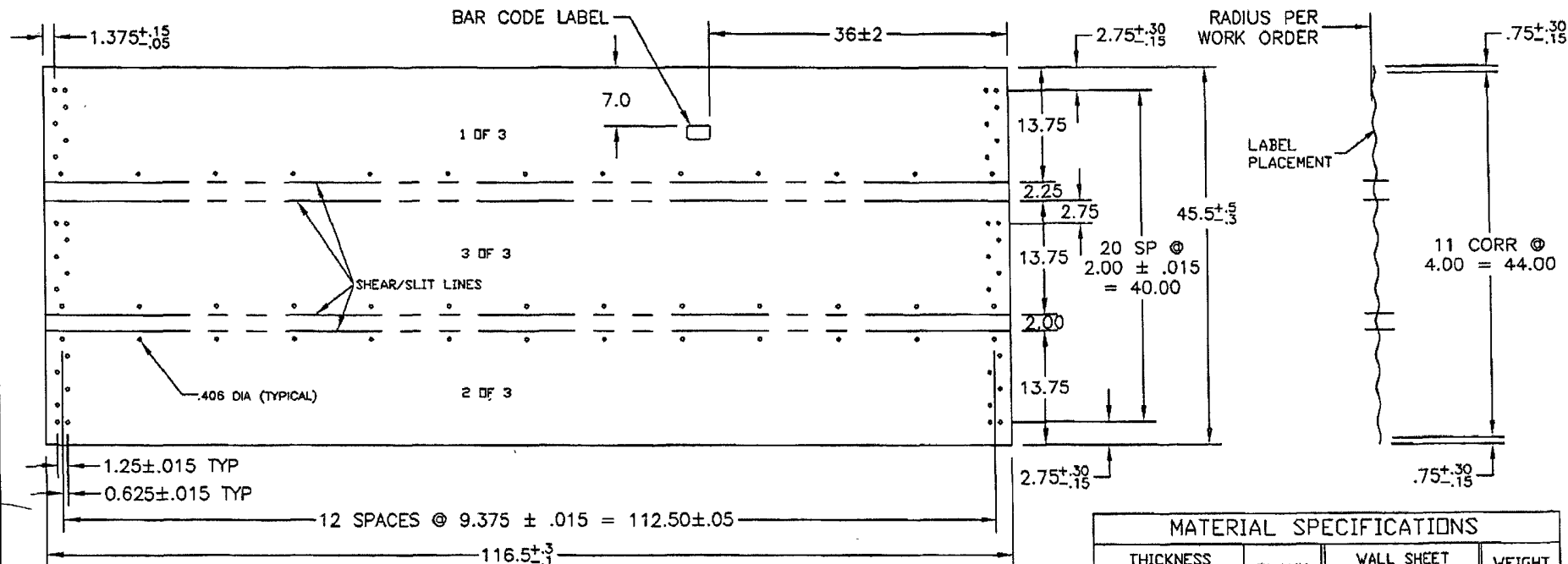
Please include distance & direction to all waterwells and/or wetland areas

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

STEEL WALLS LINER ELEVATE TR.



13 1/2' WALL PANEL LAYOUT BEFORE FLANGING



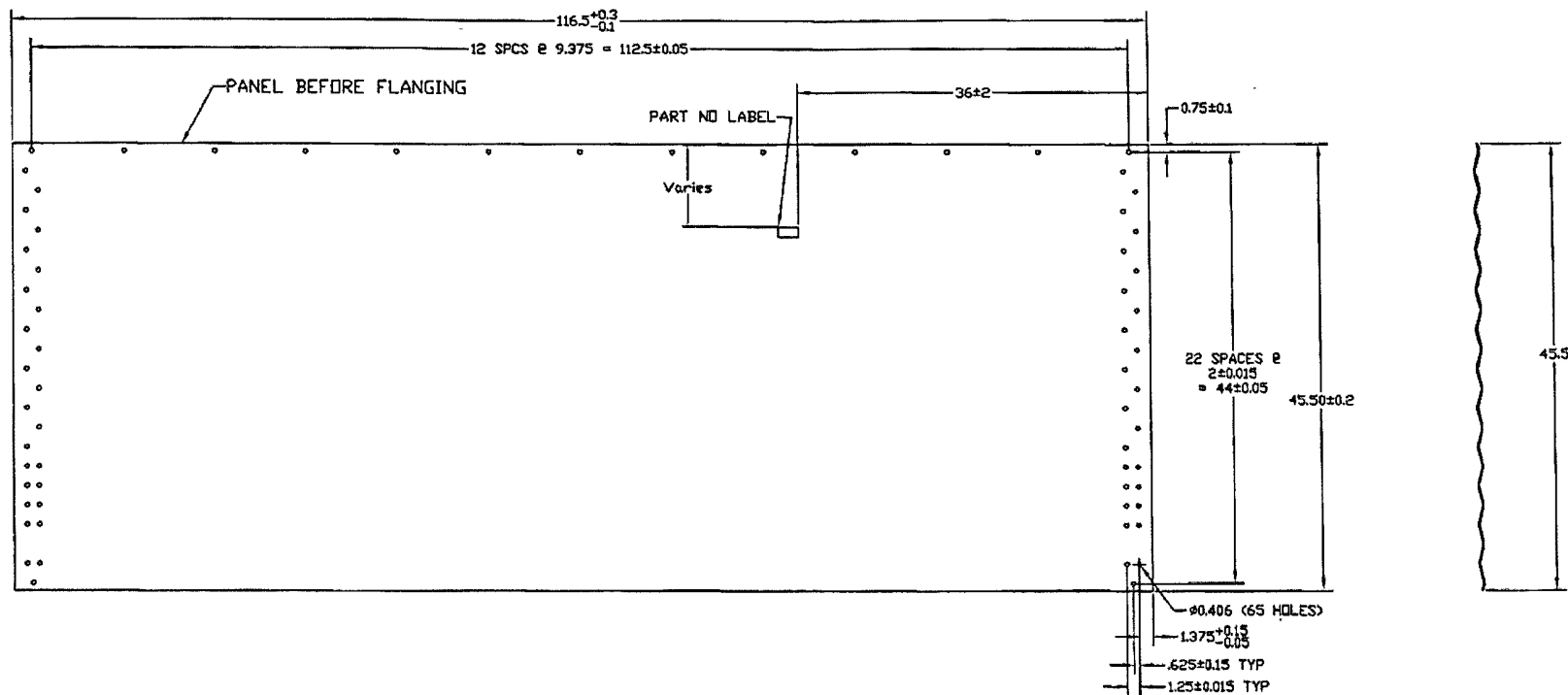
MANUFACTURING VIEW ONLY - TRIPLE PANEL AFTER
CORR & PUNCH, BEFORE SLITTING & FLANGING

MATERIAL SPECIFICATIONS				
THICKNESS		BLANK WIDTH	WALL SHEET PART NO	WEIGHT (LBS)
NOMINAL	MINIMUM			
0.066	0.061	14.75	CW1357F	31.5

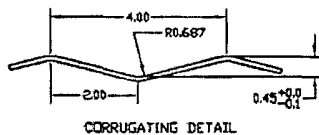
				MATERIAL				BLANK SIZE				WEIGHT (LBS)	
				SEE CHART - ASTM A653 SS GR50 G115 OIL				46.5x116.5 (3 pcs)				31.5	
				THIS DRAWING IS THE EXCLUSIVE PROPERTY OF WESTEEL AND ALL RIGHTS ARE RESERVED. NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY MANNER WHATSOEVER WITHOUT WRITTEN PERMISSION FROM Westeel Limited.				SCALE N.T.S.				DWN. (Y.M.D.) 2004.11.30	
				DRAWING TITLE 13.5' FULL PANEL - 57' ONLY CONTAINMENT RING				E.C.R. A6834				E.P. NO. 02-255	
				CUSTOMER -				PRINTING DATE (Y.M.D.) -				SIZE A	
								DRAWING NO. ES 15516				REV. NO. O	

NO	DATE	REVISION	E.C.R.	BY	CH.

DIMENSIONS SHOWN ARE IMP	
MM. UNITS SHOWN IN BRACKETS	
TOLERANCES (UNLESS OTHERWISE NOTED)	
DIMENSIONS:	
IMPERIAL (in.)	METRIC (mm)
.X ? .1	X ? 2
.XX ? .03	.X ? 1.0
.XXX ? .010	.XXX ? .50
ANGULAR ± 1°	



44' WALL PANEL AFTER CORRUGATING AND PUNCHING



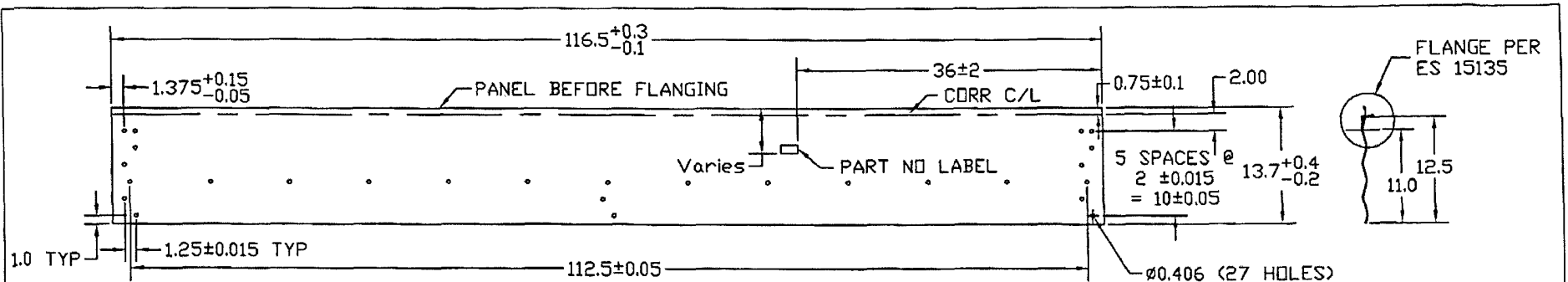
CORRUGATING DETAIL

MANUFACTURING NOTES:

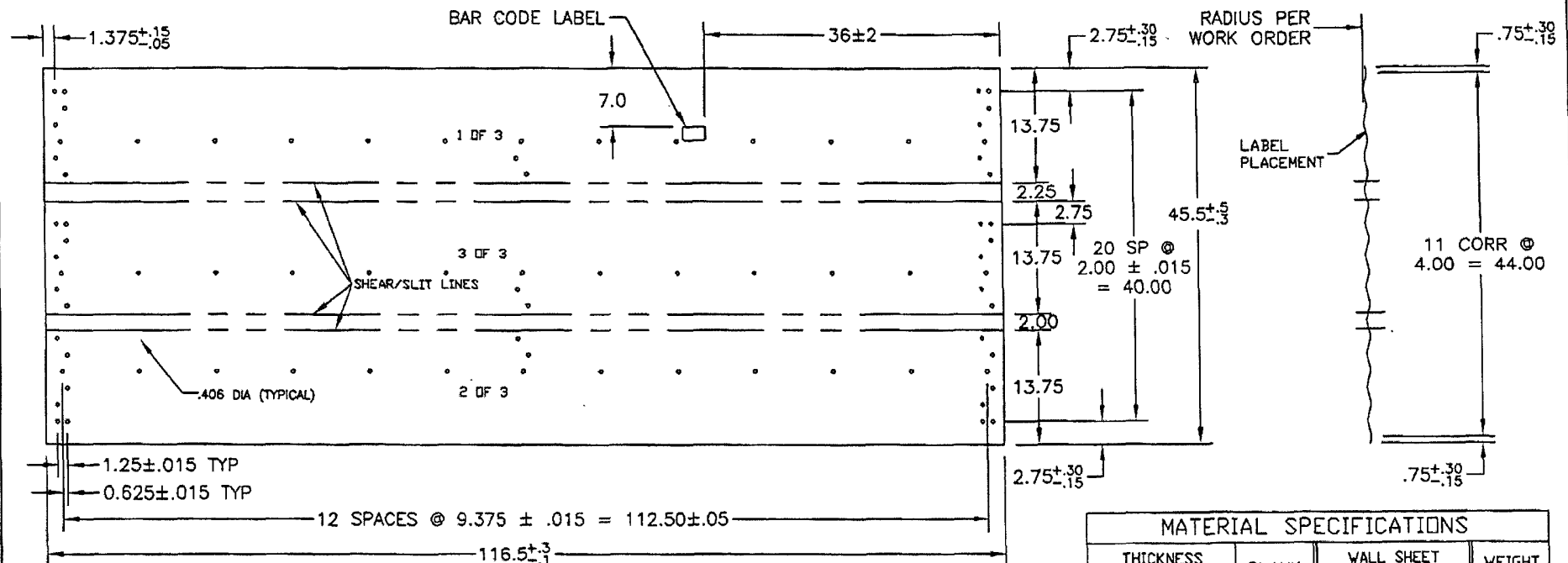
1. CORRUGATION..... SEE DETAIL
2. HOLE OFF CENTER OF CORR..... ± .05
3. HOLE BURR MAX..... .01
4. CUT OFF BURR MAX..... .01
5. CORNER HOLE TO HOLE DIAGONAL ± .15

MATERIAL SPECIFICATIONS				
THICKNESS		BLANK WIDTH	WALL SHEET	
NOMINAL	MINIMUM		PART NO	WEIGHT (lbs)
0.066	0.061	46.5	CW445715F	97.7
0.139	0.130	46.2	CW445710F	208.5

				DIMENSIONS SHOWN ARE IMPERIAL UNITS SHOWN IN BRACKETS		DESIGN: BA		MATERIAL: SEE CHART - ASTM A653 SS GR 50 G115 OIL		BLANK SIZE: 46.5 x 116.5		SURFACE AREA		WEIGHT (LBS) see chart	
				TOLERANCES (UNLESS OTHERWISE NOTED)		DWN: RF		THIS DRAWING IS THE EXCLUSIVE PROPERTY OF VESTEEL AND ALL RIGHTS ARE RESERVED. NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY MANNER WHATSOEVER WITHOUT WRITTEN PERMISSION FROM VESTEEL, a Division of JENISYS ENGINEERED PRODUCTS		SCALE: nts		DWN. (Y.M.D.): 04.12.01		LOCATION: WINNIPEG	
				DIMENSIONS: IMPERIAL (in.) METRIC (mm)		CHKD: BA		DRAWING TITLE: 44' FULL PANEL - 57' ONLY CONTAINMENT RING		E.C.R. A6834		E.P. NO.		TYPE: A-2000	
				.XX ± .1 .XX ± 2 .XXX ± .03 .XX ± 1.0 .XXX ± .010 .XX ± .50 ANGULAR: ± 1°		APPD: BA		CUSTOMER		PRINTING DATE		SIZE: B		DRAWING NO: ES 15518	
NO	DATE	REVISION	E.C.R.	BY	CH.										



13 1/2' WALL PANEL LAYOUT BEFORE FLANGING



MANUFACTURING VIEW ONLY - TRIPLE PANEL AFTER CORR & PUNCH, BEFORE SLITTING & FLANGING

MATERIAL SPECIFICATIONS				
THICKNESS		BLANK WIDTH	WALL SHEET PART NO	WEIGHT (lbs)
NOMINAL	MINIMUM			
0.066	0.061	14.75	019419	31.5

				MATERIAL		BLANK SIZE		WEIGHT (LBS.)					
				SEE CHART - ASTM A653 SS GR50 G115 OIL		46.5x116.5 (3 pcs)		31.5					
				DIMENSIONS SHOWN ARE <u>IMP</u> MM UNITS SHOWN IN BRACKETS		DESND. BA		THIS DRAWING IS THE EXCLUSIVE PROPERTY OF WESTEEL AND ALL RIGHTS ARE RESERVED		SCALE N.T.S.	DWN. (Y.M.D.) 2006.08.08	LOCATION WPG	
				TOLERANCES (UNLESS OTHERWISE NOTED)		DWN. RF		NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY MANNER WHATSOEVER WITHOUT WRITTEN PERMISSION FROM Westeel Limited		E.C.R. A6834	E.P. NO. 02-255	DWG TYPE A-2000	
				DIMENSIONS:		CHKD. BA		DRAWING TITLE		SIZE		DRAWING NO.	REV. NO.
				IMPERIAL (in.) METRIC (mm)				9.5' FULL PANEL - 52.5' ONLY CONTAINMENT RING		A		019419	O
				.X ? .1 X ? E		APPD. BA		CUSTOMER		PRINTING DATE (Y.M.D.)			
				.XX ? .03 .X ? 1.0		-		-					
				.XXX ? .010 .XX ? .50									
				ANGULAR ± 1°									
NO	DATE	REVISION	E.C.R. BY	CH									

DIMENSIONS SHOWN ARE IMP
MM UNITS SHOWN IN BRACKETS

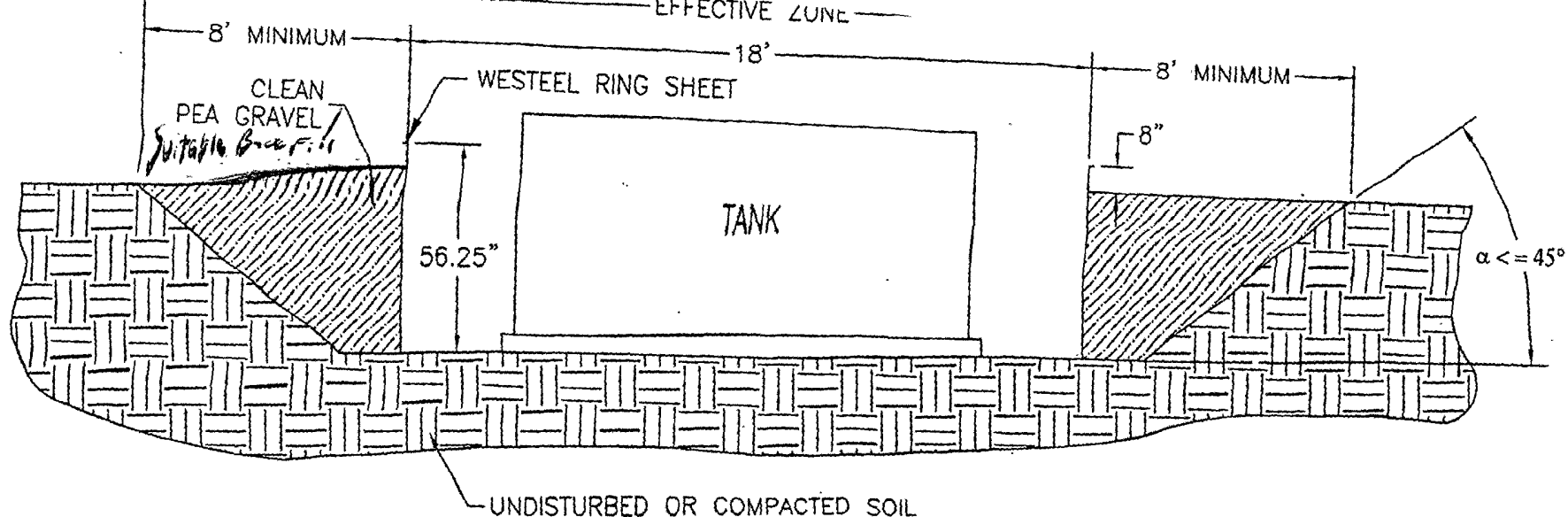
TOLERANCES
(UNLESS OTHERWISE NOTED)

DIMENSIONS:

IMPERIAL (in.)	METRIC (mm)
.x ? .1	x ? 2
.xx ? .03	x ? 1.0
.xxx ? .010	.xx ? .50

ANGULAR ± 1°

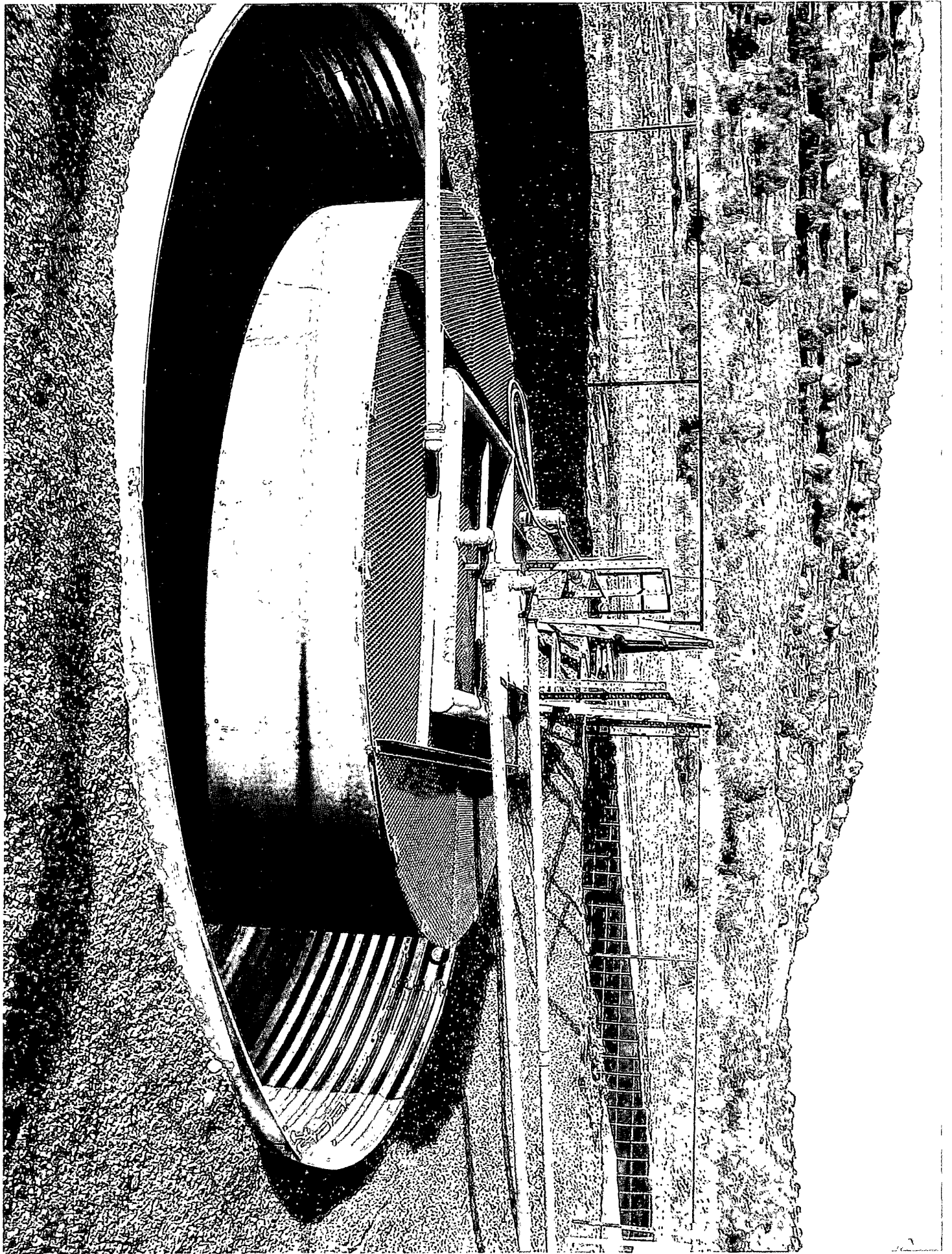
MATERIAL SEE CHART - ASTM A653 SQ GR50 GI15 OIL		BLANK SIZE 46.6"x116.5 (2 pcs)		SURFACE AREA 49.4		WEIGHT (LBS.) 49.4	
DESIGN RM WESTEEL		THIS DRAWING IS THE EXCLUSIVE PROPERTY OF WESTEEL AND ALL RIGHTS ARE RESERVED. NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY MANNER WHATSOEVER WITHOUT WRITTEN PERMISSION FROM WESTEEL, a Division of JENKINS ENGINEERED PRODUCTS.		SCALE n t s		DWG. C.Y.L.B.D. 98.08.13	
DRAWN RM				E.C.R. A 6428		LOCATION WINNIPEG	
CHECKED YS		DRAWING TITLE CONTAINMENT RING 22" WALL PANEL		E.P. NO. 98-197		TYPE ACAD14	
APPROVED RM		CUSTOMER PRINTING DATE		SIZE DRAWING NO. B C10514		REV. NO. 1	

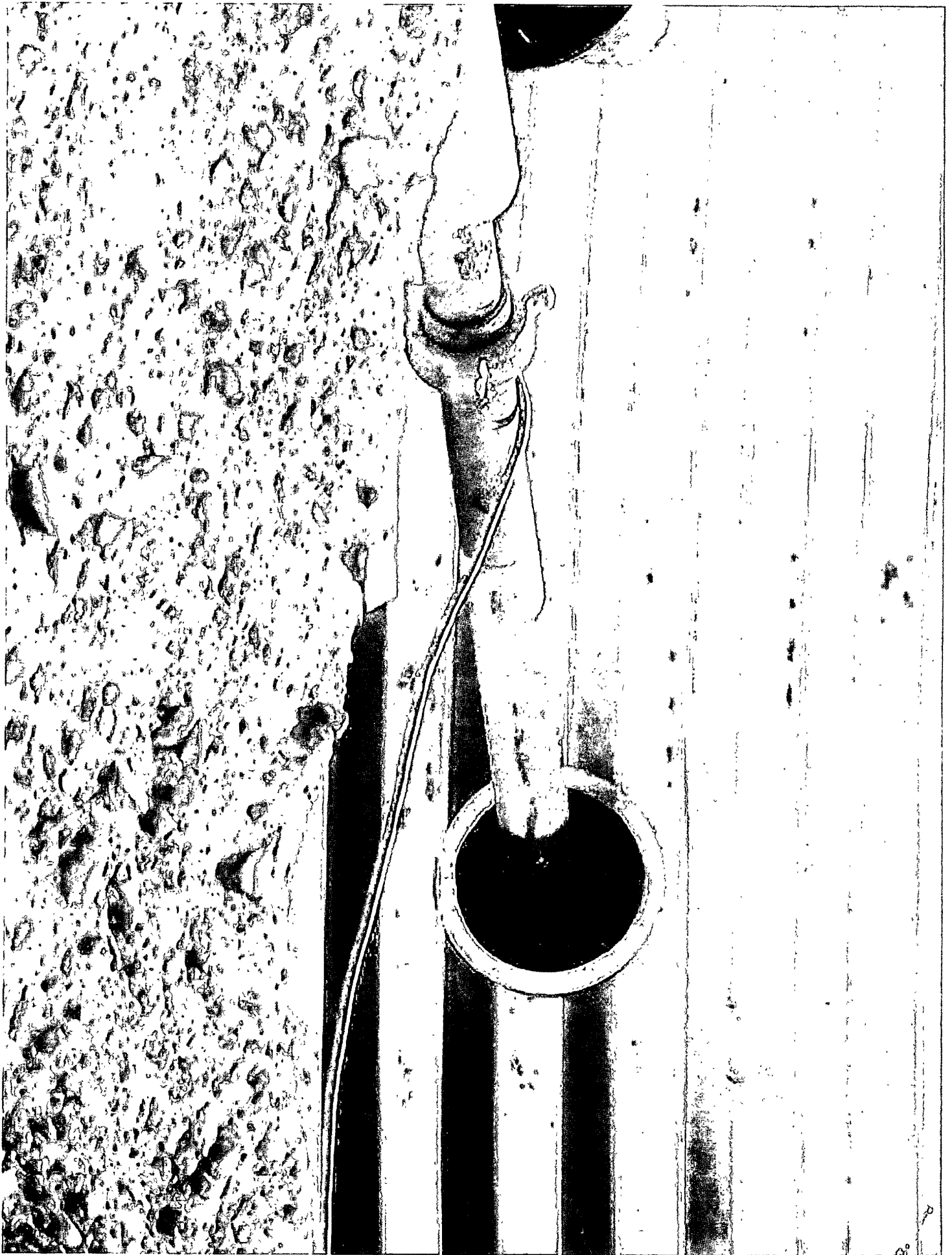


INSTALLATION INSTRUCTIONS & SITE REQUIREMENTS

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.

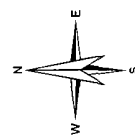
NOTE: THIS SYSTEM IS NOT DESIGNED FOR THE SECONDARY CONTAINMENT OF LIQUIDS, RATHER, TO ALLOW FOR INSPECTION OF THE TANK.





Appendix 09

Karst Map



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Karst Map - Hunsaker 725

Figure: 09

N - Sec 26, 31N, 09W

Oct 26, 2009

No Karst areas noted

REFERENCES

Wetland Map:

U. S. Fish and Wildlife Service
National Wetlands Inventory
Wetlands Mapper
www.fws.gov/wetlands/data/mapper

Floodplains map:

Federal Emergency Management Agency
National Flood Insurance Program
FIRM (Flood Insurance Rate Map)
Map Service Center
<http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1>

Depth to Ground Water: Individual water well documentation.

State of New Mexico
Office of the State Engineer
New Mexico Water Rights Reporting System
http://www.ose.state.nm.us/waters_db_index.html

Subsurface Mines:

EMNRD
Mining & Minerals Division
Mines, Mills & Quarries Commodity Group
<http://www.emnrd.state.nm.us/MMD/index.htm>

Regional Hydrogeology:

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.

Base Maps:

Petroleum Recovery Research Center
PRRC PitRule Web Mapping Portal
USGS Topo
TerraServer – US
www.pitrule.source3.com