

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

11816
Amended

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

Instructions: Please submit one application (Form C-144) per individual pit, 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, L.L.C. OGRID #: 143199
Address: 1001 FANNIN STREET, SUITE 800 HOUSTON, TX 77002
Facility or well name: JICARILLA APACHE 102 # 14M
API Number: 30-039-31193 OCD Permit Number: _____
U/L or Qtr/Qtr N Section 9 Township 26N Range 4W County: RIO ARRIBA
Center of Proposed Design: Latitude 36.49713 Longitude -107.26089 NAD: ☐ 1927 ☒ 1983
Surface Owner: ☐ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment

2.
☒ Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☒ no
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☒ String-Reinforced
Liner Seams: ☐ Welded ☒ Factory ☐ Other _____ Volume: 250 bbl Dimensions: L 20' x W 40' x D 6'

RECEIVED
OIL CONS. DIV.
DIST. 3

3.
☐ Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: _____ bbl Type of fluid: _____
Tank Construction material: _____
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

4.
☐ Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
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 4' HDG WIRE FENCE w/ 1 STRAND BARBED-WIRE ON TOP.

6.

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)

7.

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 19.15.16.8 NMAC

8.

Variances 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:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

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

9.

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. Siting criteria does not apply to drying pads or above-grade tanks.

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- ☒ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☒ No
☐ NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No
☐ NA

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. (**Does not apply to below grade tanks**)

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

☐ Yes ☒ No

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

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

☐ Yes ☒ No

Within an unstable area. (**Does not apply to below grade tanks**)

- 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. (**Does not apply to below grade tanks**)

- FEMA map

☐ Yes ☒ No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

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

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

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

☐ Yes ☐ No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

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

☐ Yes ☐ No

Within 300 feet from a occupied 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 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

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

☐ Yes ☐ No

Within 100 feet of a wetland.

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

☐ Yes ☐ No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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 spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

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

☐ Yes ☒ No

Within 300 feet of a wetland.

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

☐ Yes ☒ No

Permanent Pit or Multi-Well Fluid Management Pit

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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland.

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

☐ Yes ☐ No

10.

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: _____

11.

Multi-Well Fluid Management Pit 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.

- ☐ 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
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ 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
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12. **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

13. **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 ☐ Multi-well Fluid Management Pit
☐ 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

14. **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 C 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 H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **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 require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

- | | |
|---|---|
| Ground water is less than 25 feet below the bottom of the buried waste.
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> 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 | <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
- Topographic map; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> 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 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within 300 feet of a wetland.
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> 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 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

16.

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 E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements 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 H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

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): BART TREVIÑO

Title: ASSOC. PRODUCTION TECH

Signature: [Signature]

Date: 3/31/14

e-mail address: BTREVIÑO@ENERVEST.NET

Telephone: 713-495-5355

18.

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

OCD Representative Signature: [Signature]

Approval Date: 4/4/2014

Title: Compliance Officer

OCD Permit Number: _____

19.

Closure Report (required within 60 days of closure completion): 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: _____

20.

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.

21.

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 for private land only)
- ☐ 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

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: _____

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
JUL 03 2013 Revised August 1, 2011
Submit one copy to appropriate District Office
Farmington Field Office
Bureau of Land Management
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31193	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 306751	⁵ Property Name JICARILLA APACHE 102	⁶ Well Number 14M
⁷ OGRID No. 143199	⁸ Operator Name ENERVEST OPERATING, LLC	⁹ Elevation 7112'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	26-N	4-W		1310	SOUTH	1482	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

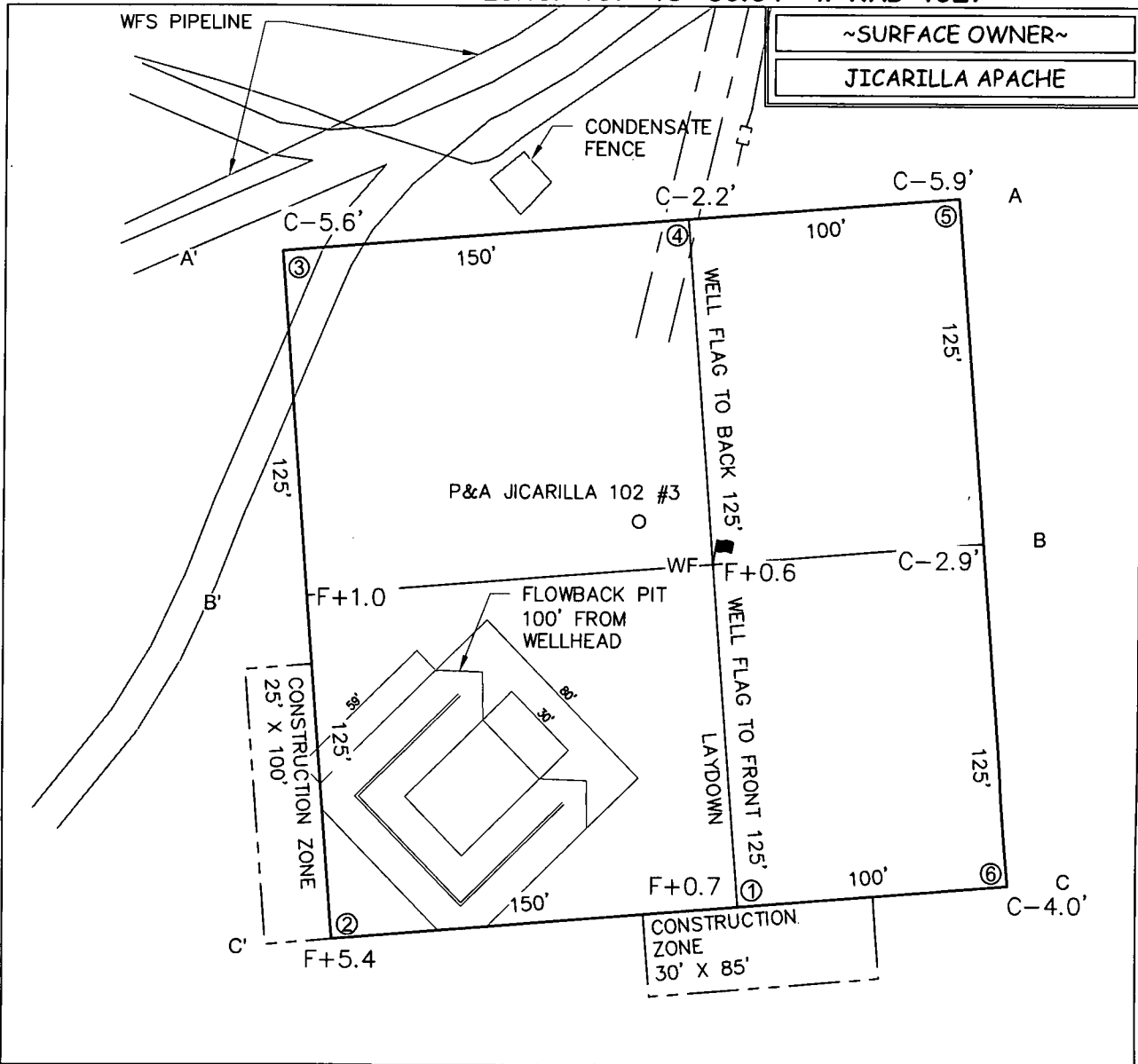
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	26-N	4-W		660	SOUTH	1980	WEST	

¹² Dedicated Acres MV - S/320 DK - W/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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

<p>16</p> <p>CALCD. COR. BY DBL. PROP. <i>DAK</i></p> <p>N 02°24'15" E 5279.68' (C)</p>	<p>APPROXIMATE BOTTOM HOLE: BHL FOOTAGES ARE APPROXIMATE AND PROVIDED BY ENERVEST OPERATING, LLC. CLIENT</p>	<p>17</p> <h3>OPERATOR CERTIFICATION</h3> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Bart Trevino</i> 12/19/12 Signature Date</p> <p>Bart Trevino Printed Name</p> <p>btrevino@enervest.net E-mail Address</p>
<p>CALCD. COR. BY DBL. PROP. <i>MU/DAK</i></p> <p>1482'</p> <p>1980'</p> <p>1310'</p> <p>660'</p> <p>SHL</p> <p>BHL</p> <p>S 89°38'32" E 5262.44' (C)</p>	<p>SURFACE: LAT: 36.49730° N. (NAD 83) LONG: 107.26061° W. (NAD 83) LAT: 36°29'50.23820" N. (NAD 27) LONG: 107°15'36.03592" W. (NAD 27)</p> <p>BOTTOM HOLE: LAT: 36.49550° N. (NAD 83) LONG: 107.25901° W. (NAD 83) LAT: 36°29'43.77490" N. (NAD 27) LONG: 107°15'30.29524" W. (NAD 27)</p>	<p>18</p> <h3>SURVEYOR CERTIFICATION</h3> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>DECEMBER 10, 2012 Date of Survey</p> <p><i>ROY A. RUSH</i> Signature and Seal</p> <p>8894 11-2012 REGISTERED PROFESSIONAL LAND SURVEYOR</p> <p>Certificate Number</p>

ENERVEST OPERATING, LLC. JICARILLA APACHE 102 #14M
1310' FSL & 1482' FWL, SECTION 9, T26N, R4W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 7112'
LAT: 36.49730° N LONG: 107.26061° W NAD 1983
LAT: 36° 29' 50.24" N LONG: 107° 15' 36.04" W NAD 1927



AREA OF DISTURBANCE	
WELL PAD	1.43 AC.
CONSTRUCTION ZONE	0.12 AC.
TOTAL	1.57 AC.



NOTES:

1. THE BEARINGS ARE BASED ON A LINE BETWEEN NORTHWEST CORNER OF SECTION 6, T25N, R3W, N.M.P.M. AND THE SOUTHWEST CORNER OF SECTION 30, OF THE SAME TOWNSHIP. BOTH CORNERS ARE MONUMENTED WITH 3 1/4" BRASS CAPS SET BY THE G.L.O. IN 1916. THE SHOTS WERE TAKEN USING RTK GPS OBSERVATIONS.
2. LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AN OPUS SOLUTION REPORT DATED DECEMBER 20, 2013. DISTANCES SHOWN ARE GRID DISTANCES USING A TRANSVERSE MERCATOR PROJECTION FROM A WGS-84 ELLIPSOID CONVERTED TO NAD83. NAVD 88 ELEVATIONS AS PREDICTED BY GEOID12A.
3. SOUDER, MILLER AND ASSOCIATES IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES AND THOSE DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. CLOSED LOOP SYSTEM NO PIT.



SOUDER, MILLER & ASSOCIATES
 401 W. BROADWAY
 FARMINGTON, NM 87401-2247

Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains
 Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX
 Cortez - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT

ENERVEST OPERATING, LLC

HOUSTON, TEXAS

ENERVEST OPERATING, LLC
JICARILLA APACHE TRIBAL 102 #14M PAD
SE1/4SW/4 OF SECTION 9, T26N, R4W, NMPM

RIO ARriba COUNTY, NEW MEXICO

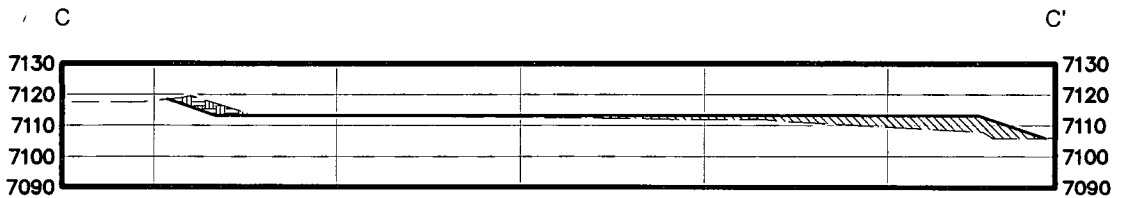
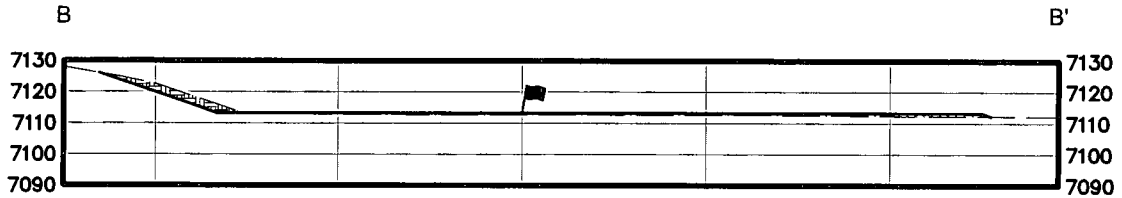
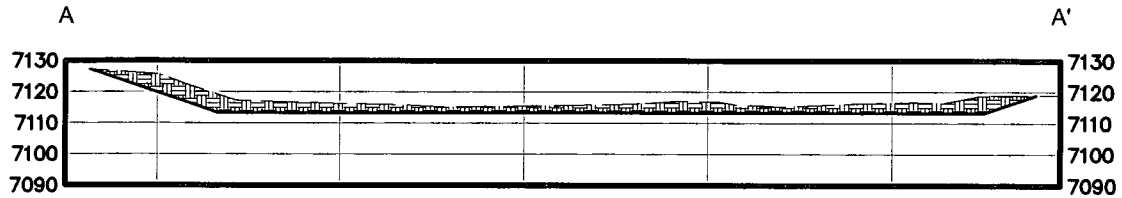
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed GR	Drawn GR	Checked KRS
Date: JANUARY, 2014	Scale: Horiz: 1"=80'	Vert: N/A
Project No: 5122519	Sheet: 2 of 4	

**ENERVEST OPERATING, LLC. JICARILLA APACHE 102 #14M
1310' FSL & 1482' FWL, SECTION 19, T26N, R4W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 7112'**

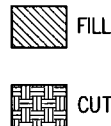
HORIZONTAL SCALE: 1" = 60'

VERTICAL SCALE: 1" = 60'



WELL FLAG
LATITUDE: 36.49730°N
LONGITUDE: 107.26061°W
NAD83

1. SOUDER, MILLER AND ASSOCIATES IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES AND THOSE DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

2. CLOSED LOOP SYSTEM NO PIT.



SOUDER, MILLER & ASSOCIATES
401 W. BROADWAY
FARMINGTON, NM 87401-2247

Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045
www.soudermiller.com
Serving the Southwest & Rocky Mountains
Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX
Cortez - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT

ENERVEST OPERATING, LLC

HOUSTON, TEXAS

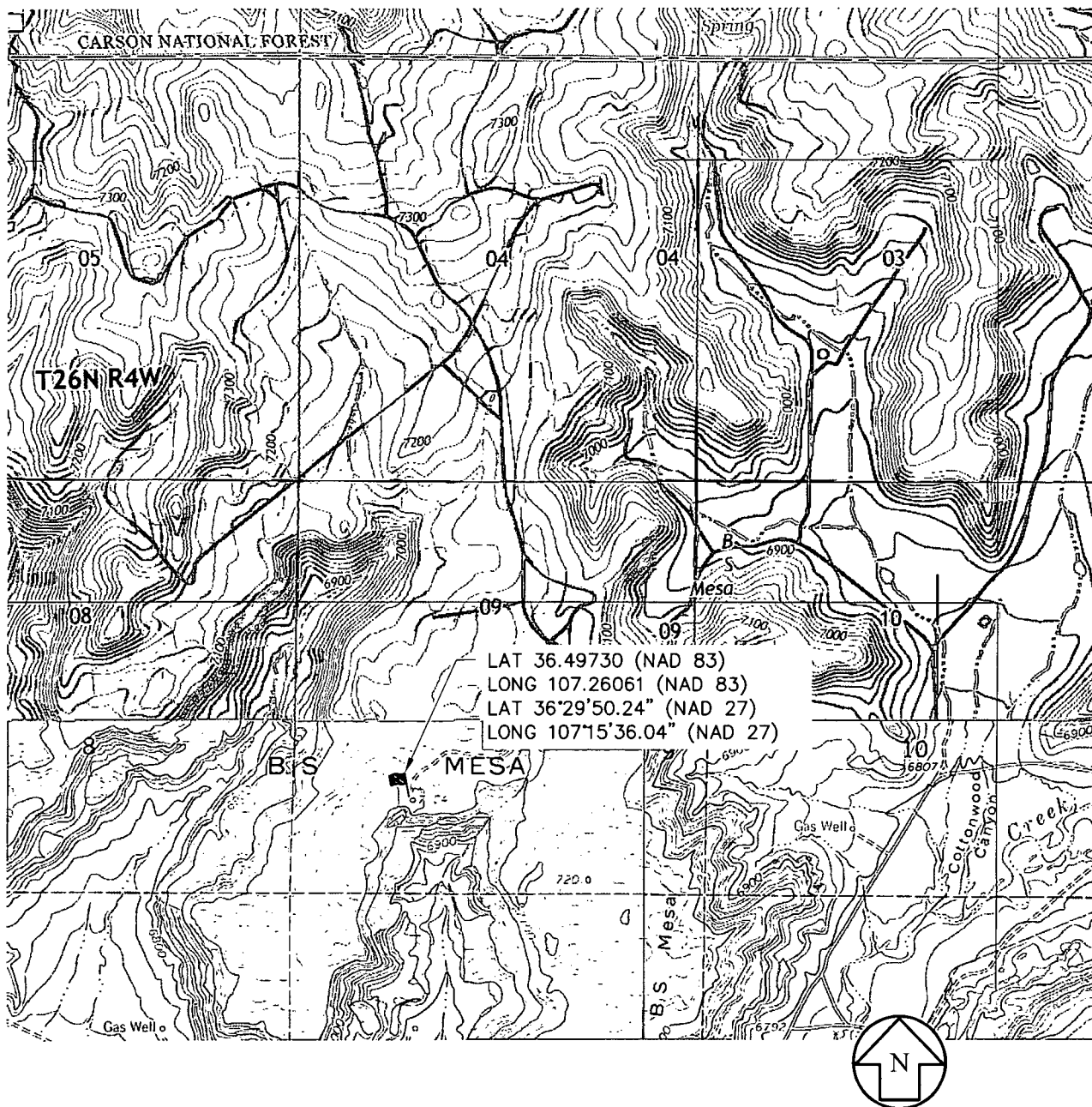
**ENERVEST OPERATING, LLC
JICARILLA APACHE TRIBAL 102 #14M PAD SECTIONS
SE1/4-SW1/4 OF SECTION 9, T26N, R4W, NMPM**

RIO ARRIBACOUNTY, NEW MEXICO

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed GR	Drawn GR	Checked KRS
Date: MARCH 26, 2014		
Scale: Horiz: 1"=60'		
Vert: 1"=60'		
Project No: 5122519		
Sheet: 3 of 4		

ENERVEST OPERATING, LLC. JICARILLA APACHE 102 #14M
1310' FSL & 1482' FWL, SECTION 9, T26N, R4W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 7112'



NOTE: THIS MAP IS FOR ESTIMATING PURPOSES, CONSTRUCTION FOOTAGES ARE APPROXIMATE
CONTRACTOR SHOULD CONTACT NEW MEXICO ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND
UTILITIES OR PIPELINES ON WELL PAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION



SOUDER, MILLER & ASSOCIATES
 401 W. BROADWAY
 FARMINGTON, NM 87401-2247

Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains
 Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX
 Conez - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT

ENERVEST OPERATING, LLC

HOUSTON, TEXAS

ENERVEST OPERATING, LLC

JICARILLA APACHE 102 #14M QUAD MAP
SE/4SW/4 OF SECTION 9, T26N, R4W, NMPM

RIO ARriba COUNTY, NEW MEXICO

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR
 CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed GR	Drawn DJB	Checked KRS
Date: MARCH 26, 2014		
Scale: Horiz: 1"=2000'		
Vert: NA		
Project No: 5122519		
Sheet: 4 OF 4		



36.49730, -107.26061

Geo

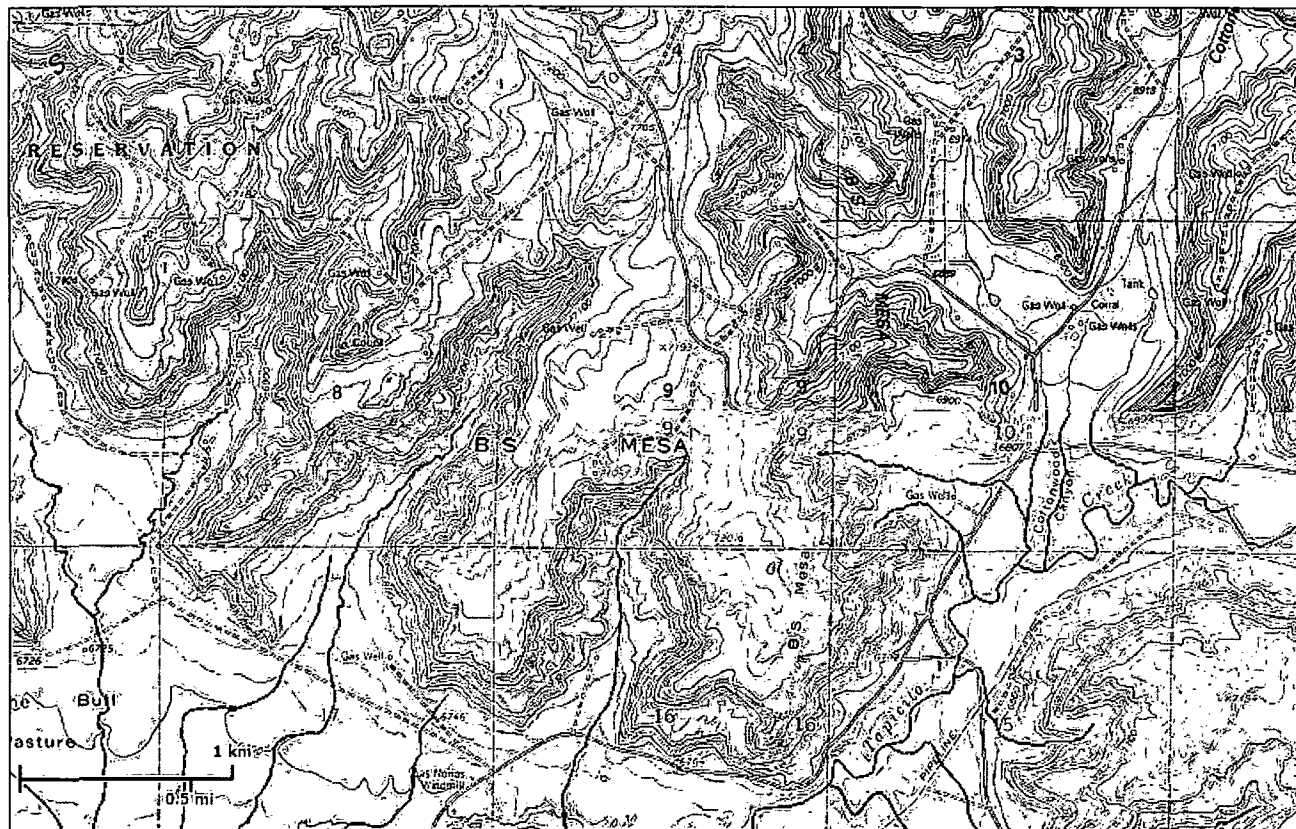


U.S. Fish and Wildlife Service

National Wetlands Inventory

Jicarilla Apache
102 #14M

Mar 31, 2014



Wetlands

- ☐ Freshwater Emergent
- ☐ Freshwater Forested/Shrub
- ☐ Estuarine and Marine Deepwater
- ☐ Estuarine and Marine
- ☐ Freshwater Pond
- ☒ Lake
- ☐ Riverine
- ☐ Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Unit N Sec 9 T26N R4W



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: San Juan

County: Rio Arriba

PLSS Search:

Section(s): 3-5

Township: 26N

Range: 04W

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.



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: San Juan

County: Rio Arriba

PLSS Search:

Section(s): 8-10

Township: 26N

Range: 04W

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.



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: San Juan

County: Rio Arriba

PLSS Search:

Section(s): 15-17

Township: 26N

Range: 04W

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.

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.

EnerVest Operating, LLC (EV)
Temporary Pit Design and Construction Plan
(Groundwater > 100' below bottom of pit liner)

In accordance with Rule 19.15.17 NMAC, the following plan describes the general design and construction of temporary pits EV will use on locations in the San Juan Basin. This will be EV's standard procedure for all temporary pits. Should any pit vary from this plan, a well specific plan will be submitted for that location.

General Plan Requirements:

1. EV will design and construct a temporary pit to contain fluids and solids associated with drilling, completion, and workover of oil and gas wells which will prevent contamination of fresh water resources and protect public health and the environment.
2. Prior to excavation of the pit, topsoil will be stripped and stockpiled within the construction zone for later use during restoration.
3. EV will post well signs in compliance with Subsection C or 19.15.17.11 NMAC.
4. EV shall construct fences utilizing 48" hogwire fence with 1 strand of barbed-wire on top. This will be supported by iron posting at the corners and 10-12 feet apart. It is our belief this will offer better protection for wildlife around these pits. Pits will be fenced at all times excluding during drilling and completions operations when the front side will be temporarily removed for operational purposes.
5. EV shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to meet manufacturers' specifications and potential liner failure.
6. EV shall construct the temporary pit so that the slopes are no steeper than two horizontal feet to one vertical foot. Where steeper slopes are required due to surface owner and right-a-way restriction, an engineer's certification of stability will be provided with the pit permit application.
7. Pit walls will be walked down by a crawler type tractor following construction and prior to liner installation.
8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
9. Geotextile will be installed beneath the liner when rocks, debris, sharp objects or irregularities cannot be avoided.
10. All liners will be anchored in the bottom of a compacted earth-filled trench consistent with manufacturer's specifications and at least 18 inches deep.
11. EV will minimize liner seams and orient them up and down, not across slope faces. Factory seams will be used whenever possible. Field seams will be overlapped per manufacturer's specifications. EV will minimize the number of field seams in corners and irregularly shaped areas.
12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides (secondary liner placed over the primary liner), and/or a manifold system.
13. The pit shall be protected from run-on by construction of diversion ditches around the location or around the perimeter of the pit in as necessary.
14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
15. Temporary blow pits will be constructed to allow gravity flow to discharge into the lined reserve pit.

16. Only the upper portion of the blow pit will be unlined as allowed in Rule 19.15.17.11.F(11) NMAC.
17. EV will modify this design if the field and/or operating conditions do not effectively allow drainage of the blow pit and freestanding liquids pose a potential concern.

EnerVest Operating, LLC (EV)
Temporary Pit Maintenance and Operating Plan
(Groundwater > 100' below bottom of pit liner)

In accordance with Rule 19.15.17 NMAC, the following plan describes the general operations and maintenance of the temporary pits EV will use on locations in the San Juan Basin. This will be EV's standard procedure for all temporary pits. Should any pit vary from this plan, a well specific plan will be submitted for that location.

General Plan Requirements:

1. EV will operate and maintain a temporary pit to contain fluids and solids associated with drilling, completion, and workover of oil and gas wells which will prevent contamination of fresh water resources and protect public health and the environment.
2. EV will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other fluids will be disposed by evaporation or transported to either TNT Land Farm (Permit # NM-01-008) or Envirotech Land Farm (Permit # NM-01-0011).
3. EV shall maintain at least two feet of vertical freeboard for a temporary pit.
4. EV shall remove all free liquids from a temporary pit within 30 days from the date the drilling, completions, or workover rig is released
5. Only liquids and solids generated during the drilling/completion/workover process may be discharged into a temporary pit. Other miscellaneous solid waste or debris will not be allowed.
6. EV will not discharge or store any hazardous waste in any temporary pit.
7. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, EV shall repair the damage or replace the liner as necessary. Should the leak occur below the liquid's surface, EV shall suspend operations, remove all liquids above the damaged liner within 48 hours, and repair the damage or replace the liner. If the spill is less than 25 bbls, EV will notify the NMOCD Aztec District Office by phone and email within 48 hours of discovery and repair. If the release is suspected to be greater than 25 bbls, the NMOCD Aztec District Office and Environmental Bureau Chief will be notified immediately by phone pursuant to 19.15.3.116B(1)(d). All releases will be reported on Form C-141 per 19.15.3.116.C NMAC within 15 days to the NMOCD Aztec District Office.
8. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides (secondary liner placed over the primary liner), and/or a manifold system.
9. Diversion ditches, around the location or around the perimeter of the pit, shall be maintained as protection from run-on.
10. EV shall immediately remove any visible layer of oil from the surface of a temporary pit following cessation of drilling/completion/workover operations. Oil absorbent booms will be utilized to contain and remove oil. An oil absorbent boom will be stored on location until the pit is covered.
11. EV shall inspect the temporary pit at least daily while the drilling/completions/workover rig is on location. Thereafter, EV shall inspect the temporary pit weekly, so long as liquids remain in the pit. EV shall maintain a log of all inspections and file a copy of the log with the appropriate division district office when the pit is closed.
12. EV shall remove all free liquids from a cavitation pit within 48 hours after completing operations. EV may request additional time to remove liquids from the Aztec District Office if it is not feasible to meet the 48 hour requirement.

EnerVest Operating, LLC (EV)
Temporary Pit Closure Plan
(Groundwater > 100' below bottom of pit liner)

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the standard closure plan of the temporary pits EV will use on locations in the San Juan Basin. This will be EV's standard procedure for all temporary pits. Should any pit vary from this plan, a well specific plan will be submitted for that location.

Closure and Site Reclamation Requirements:

- A. Closure plans shall describe the proposed closure method and the proposed procedures and protocols to implement and complete the closure.
- C. EV closures where wastes are destined for disposal at division approved off-site facilities. This subsection applies to temporary pits, the operator of any temporary pit will not commence closure without first obtaining approval of the closure plan submitted with the permit application or registration pursuant to 19.15.17.9 NMAC.
 - 2. EV will close the temporary pit by first removing all contents and if applicable, synthetic liners and transferring those materials to a division approved facility.
 - 3. EV will test the soils beneath the temporary pit as follows.
 - a. At a minimum, a five point composite sample to include any obvious stained or wet soils, or other evidence of contamination shall be taken under the liner and that sample shall be analyzed for the constituents listed in Table I of 19.15.17.13 NMAC.
 - b. If any contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the division may require additional delineation upon review of the results and the operator must receive approval before proceeding with the closure.
 - c. If all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, then EV can proceed to backfill the pit or excavation with non-waste containing, uncontaminated earthen material.
- D. EV closures where wastes are destined for burial in place or into nearby division approved pits or trenches. This subsection applies to waste from temporary pits, when such waste may be disposed of in place in the existing temporary pit or disposed of at a nearby temporary pit or burial trench that is not a permitted commercial facility regulated under 19.15.36 NMAC. A nearby temporary pit or burial trench that receives waste from another temporary pit must be onsite within the same lease.
 - 1. EV will not commence closure without first obtaining approval of the closure plan submitted with the permit application.
 - 2. EV will demonstrate and comply with the siting criteria set forth in subsection C of 19.15.17.10 NMAC.
 - 3. EV will remove all free standing liquids reasonably achievable from the pit and dispose of such liquids at a division approved facility.
 - 4. When closing a temporary pit, EV will stabilize or solidify the remaining temporary pit contents to a capacity sufficient to support the final cover of the temporary pit. EV will not mix the contents with soil or other material at a mixing ratio of greater than 3:1, soil or other material to contents. The waste mixture must pass the paint filter liquids test (EPA SW-846, Method 9095 or other test methods approved by the division).

5. EV will collect, at a minimum, a five point composite of the contents of the temporary pit to demonstrate that, after the waste is solidified or stabilized with soil or other non-waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters listed in Table II of 19.15.17.13 NMAC.
6. If, after appropriate stabilization, the concentration of all contaminants in the contents from a temporary pit is less than or equal to the parameters listed in Table II of 19.15.17.13 NMAC, EV may either proceed to dispose of wastes in an existing temporary pit or construct a burial trench for disposal of these wastes.
7. If the concentration of any contaminant in the contents, after mixing with soil or non-waste material to a maximum ratio of 3:1, from a temporary pit or drying pad/tank associated with a closed-loop system is higher than constituent concentrations shown in Table II of 19.15.17.13 NMAC, then closure must proceed in accordance with subsection C of 19.15.17.13 NMAC.
8. Upon achieving all applicable waste stabilization in the temporary pit or transfer of stabilized wastes to the temporary pit or burial trench, EV will:
 - a. fold the outer edges of the trench liner to overlap the waste material in the trench prior to the installation of the geomembrane cover;
 - b. install a geomembrane cover over the waste material in the lined trench or temporary pit; the operator shall install the geomembrane cover in manner that prevents the collection of infiltration water in the lined trench or temporary pit and on the geomembrane cover after the soil cover is in place; the geomembrane cover shall consist of a 20-mil string reinforced LLDPE liner or equivalent cover that the appropriate division district office approves; the geomembrane cover shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions; cover compatibility shall comply with EPA SW-846 Method 9090A;
 - c. cover the pit/trench with non-wastes containing, uncontaminated, earthen materials and construct a soil cover prescribed by the division in paragraph 3 of subsection H of 19.15.17.13 NMAC.
9. If EV has removed the wastes and the liner to a burial trench pursuant to this subsection, the operator shall test the soils beneath the temporary pit as follows.
 - a. At a minimum, a five point composite sample to include any obvious stained or wet soils, or other evidence of contamination shall be taken under the liner and that sample shall be analyzed for the constituents listed in Table I of 19.15.17.13 NMAC.
 - b. If any contaminant concentration is higher than the parameters listed in Table I of 19.15.17.13 NMAC, the division may require additional delineation upon review of the results and the operator must receive approval before proceeding with closure.
 - c. If all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, then WPX can proceed to backfill the pit, pad, or excavation with non-waste containing, uncontaminated, earthen material.

E. Closure notice.

1. EV will notify the surface owner by certified mail, return receipt requested, that the operator plans closure operations at least 72 hours, but not more than one week, prior to any closure operation. Notice shall include well name, API number and location. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement.
2. EV will notify the appropriate division district office verbally and in writing at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the operator's name and the location to be closed by unit letter, section,

township, and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

4. When onsite burial occurs on private land, EV will file a deed notice identifying the exact location of the onsite burial with the county clerk in the county where the onsite burial occurs.

F. Closure report and burial identification.

1. Within 60 days of closure completion, EV will submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results; information required by 19.15.17 NMAC; and details on back-filling, capping and covering, where applicable. In the closure report, the operator shall certify that all information in the report and attachments is correct and that the operator has complied with all applicable closure requirements and conditions specified in the approved closure plan. If the operator used a temporary pit, the operator shall provide a plat of the pit location on form C-105 within 60 days of closing the temporary pit.

2. If EV elects to conduct onsite burial under subsection D of 19.15.17.13 NMAC, we will report the exact location of the onsite burial on form C-105 filed with the division.

3. EV will place a flush to grade steel marker at the center of an onsite burial. The steel marker shall be cemented in a three-foot deep hole at a minimum. The operator name, lease name and well number and location, including unit letter, section, township and range, and that the marker designates an onsite burial location shall be welded, stamped, or otherwise permanently engraved into the metal of the steel marker. A person shall not build permanent structures over an onsite burial without the appropriate division district office's written approval.

G. Timing Requirements for closure.

1. EV will close a permitted temporary pit within 60 days of cessation of operation of the pit in accordance with a closure plan approved by the appropriate office.

2. EV will close a permitted temporary pit within six months from the date that the operator releases the drilling/completion/workover rig. The operator shall note the date of the rig release on form C-105 or C-103, filed with the division, upon completion of operations. The appropriate division district office may grant an extension not to exceed three months.

H. Reclamation of pit locations, onsite burial locations, and drying pad locations.

1. Site contouring.

a. Once the operator has closed a pit or trench, the operator shall reclaim the pit location including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. The operator shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in paragraph 2 of subsection H in 19.15.17.13 NMAC, recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to paragraph 5 in subsection H of 19.15.17.13 NMAC.

b. EV may propose an alternative to the re-vegetation or recontouring requirement if the operator demonstrates to the appropriate district office that the proposed alternative provides equal or better prevention of erosion, and protection of fresh water, public health and the environment. The proposed alternative shall be agreed upon by the surface owner. The operator shall submit the proposed alternative, with written documentation that the surface owner agrees to the alternative, to the division for approval.

c. Areas reasonably needed for production operations or for subsequent drilling operations shall be compacted, covered, paved, or otherwise stabilized and

maintained in such a way as to minimize dust and erosion to the extent practicable.

3. Soil cover designs for reclamation of pit locations and onsite burial locations. The soil cover for burial in-place or trench burial shall consist of a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0. The soil cover shall include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

4. The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

5. Reclamation and vegetation.

a. Reclamation of areas no longer in use. All areas disturbed by the closure of pits, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

b. Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season following closure of a pit.

c. Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

d. Other regulatory requirements. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these revisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.

e. The operator shall notify the division when reclamation and re-vegetation are complete.

Table I			
Closure criteria for soils beneath Below-Grade Tanks, Drying Pads associated with Closed-Loop Systems, and Pits where contents are removed			
Consituent	Method*	Groundwater >100 FT**	Old Standard
Chloride	EPA 300.0	20,000 mg/kg	250 Mg/kg
TPH	EPA SW-846 Method 418.1	2,500 mg/kg	100 mg/kg
BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	50 mg/kg
Benzene	EPA -SW-846 Method 8021B or 8015M	10 mg/kg	0.2 mg/kg
GRO/DRO	EPA SW-846 Method 8015B	1,000 mg/kg	500 mg/kg

Table II Closure criteria for Burial Trenches and waste left in place in Temporary Pits			
Consituent	Method*	Groundwater >100 FT**	Old Standard
Chloride	EPA 300.0	80,000 mg/kg	250 Mg/kg
TPH	EPA SW-846 Method 418.1	2,500 mg/kg	100 mg/kg
BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	50 mg/kg
Benzene	EPA -SW-846 Method 8021B or 8015M	10 mg/kg	0.2 mg/kg
GRO/DRO	EPA SW-846 Method 8015B	1,000 mg/kg	500 mg/kg

* or other test methods approved by the division

** numerical limits or natural background level, whichever is greater
 [19.15.17.13 NMAC – Rp, 19.15.17.13 NMAC 6/28/13]

Site Specific Hydro Geologic Analysis

**Jicarilla Apache 102 #14M
API 30-039-31193**

The above referenced well is located at UL N, Sec 9, 26N, 04W at an elevation of 7,112'. Surface casing is planned to be set at 500'.

According to the Office of State Engineer, the closest water well drilled was SJ 01205 about 3 miles NE of our location. Drilled to 3054 feet at an unknown elevation, it shows water encountered at 750 feet.

In 1980, Amoco Production drilled their Jicarilla Apache 102 #14E (30-039-22457) about 620' feet W of our location. It was at an elevation of 7,123' with no indication of water being encountered. Surface casing was set at 320' which would be at 6,803'. This would be 191 feet more shallow than our well. This should allow ample protection for any groundwater in the area.

RCVD APR 4 '14
OIL CONS. DIV.
DIST. 3